

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052319\
 Data File : VD062520.D
 Acq On : 23 May 2019 14:20
 Operator : VA/AP
 Sample : K2996-02RE
 Misc : 6.20g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

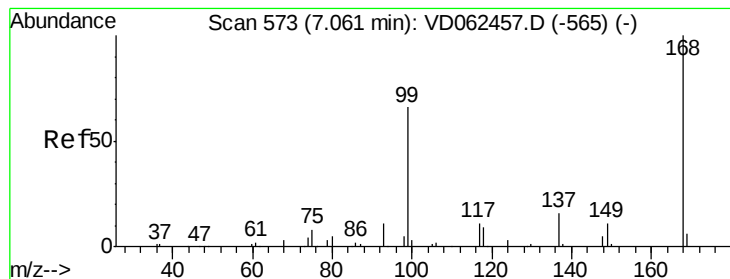
Quant Time: May 24 01:20:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	508849	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.21	114	690828	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.37	117	468490	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	174858	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	198595	36.46	ug/l	-0.02
Spiked Amount			Recovery	=	72.92%	
35) Dibromofluoromethane	6.92	113	244881	39.29	ug/l	-0.02
Spiked Amount			Recovery	=	78.58%	
50) Toluene-d8	10.41	98	469238	34.41	ug/l	-0.02
Spiked Amount			Recovery	=	68.82%	
62) 4-Bromofluorobenzene	13.56	95	191259	32.06	ug/l	-0.01
Spiked Amount			Recovery	=	64.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.17	56	5962	28.555	ug/l	91
15) Acrylonitrile	4.22	53	4344	7.540	ug/l #	50
16) Acetone	3.17	43	20942	21.455	ug/l #	50
18) Methyl Acetate	3.77	43	54610	32.423	ug/l #	53
20) Methylene Chloride	3.81	84	3544	Below Cal	#	65
31) Cyclohexane	6.94	56	14415	2.803	ug/l	93
36) 1,1-Dichloropropene	7.04	75	36660	5.551	ug/l #	48
38) Carbon Tetrachloride	7.04	117	50566	5.151	ug/l #	15
39) Methylcyclohexane	8.85	83	30114	5.528	ug/l #	89
40) Benzene	7.44	78	18198	1.405	ug/l	98
43) Isopropyl Acetate	9.28	43	9104	2.675	ug/l #	43
47) Bromodichloromethane	9.39	83	20001	2.747	ug/l #	26
48) Methyl methacrylate	9.10	41	5701	2.489	ug/l #	30
51) 4-Methyl-2-Pentanone	10.36	43	33506	14.900	ug/l #	74
56) Ethyl methacrylate	11.09	69	19798	6.161	ug/l #	1
59) 2-Hexanone	11.48	43	32306	19.768	ug/l #	33
68) m/p-Xylenes	12.67	106	10017	1.798	ug/l #	72
73) Isopropylbenzene	13.40	105	11371	1.032	ug/l	93
74) N-amyl acetate	13.29	43	14173	5.206	ug/l #	2
75) 1,1,2,2-Tetrachloroethane	13.70	83	3941	1.982	ug/l #	54
78) n-propylbenzene	13.77	91	18471	1.447	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.56	75	82018	141.199	ug/l #	21
84) 1,2,4-Trimethylbenzene	14.23	105	23636	2.417	ug/l	91
95) Naphthalene	16.12	128	15060	2.981	ug/l #	78

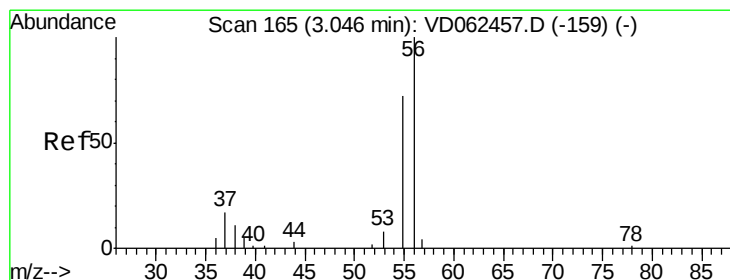
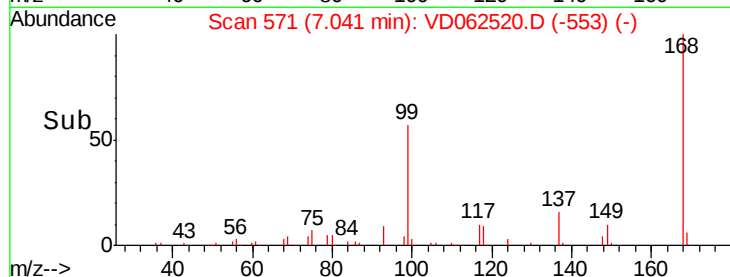
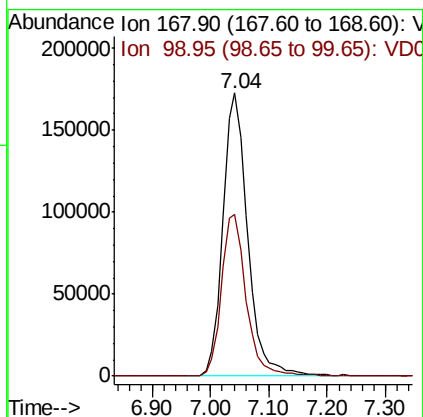
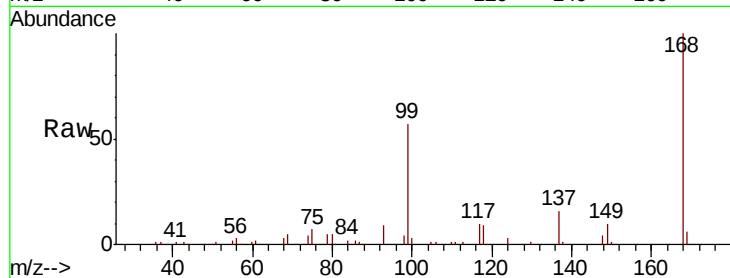
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.04 min Scan# 571
Delta R.T. -0.02 min
Lab File: VD062520.D
Acq: 23 May 2019 14:20

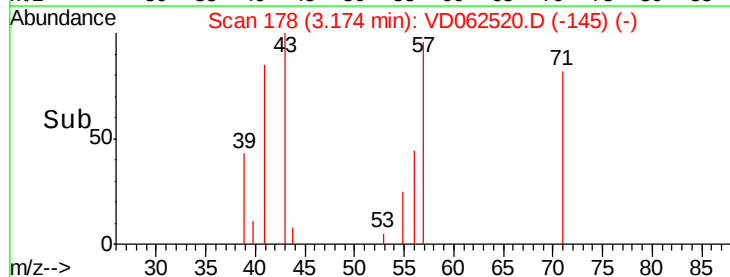
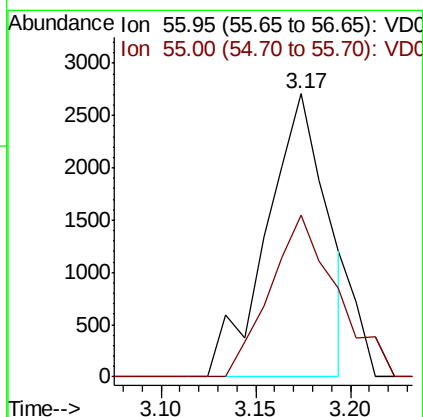
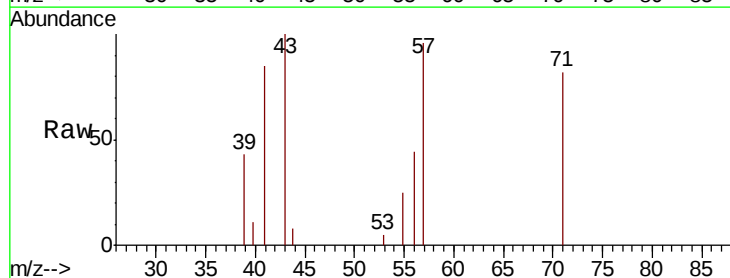
Instrument :
MSVOA_D
ClientSampled :

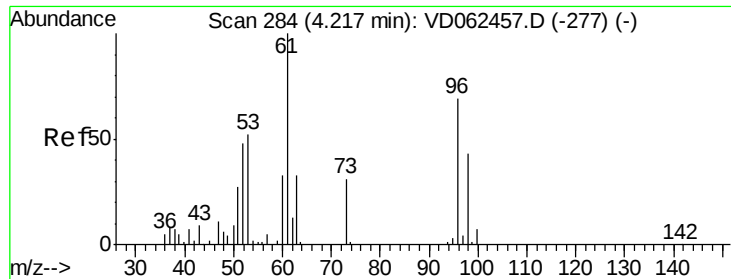
Tot Ion:168 Resp: 508849
Ion Ratio Lower Upper
168 100
99 57.0 46.5 69.7



#13
Acrolein
Concen: 28.555 ug/l
RT: 3.17 min Scan# 178
Delta R.T. 0.13 min
Lab File: VD062520.D
Acq: 23 May 2019 14:20

Tgt Ion: 56 Resp: 5962
Ion Ratio Lower Upper
56 100
55 57.3 51.4 77.2





#15

Acrylonitrile

Concen: 7.540 ug/l

RT: 4.22 min Scan# 284

Delta R.T. -0.00 min

Lab File: VD062520.D

Acq: 23 May 2019 14:20

Instrument :
MSVOA_D
ClientSampleId :

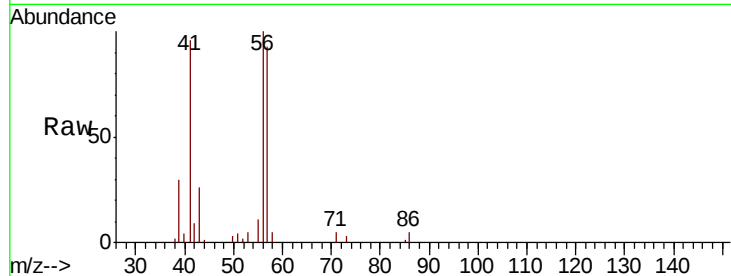
Tot Ion: 53 Resp: 4344

Ion Ratio Lower Upper

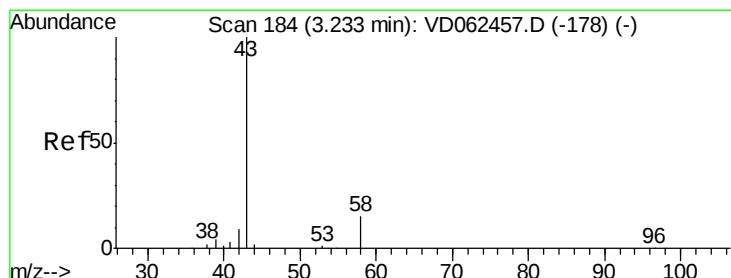
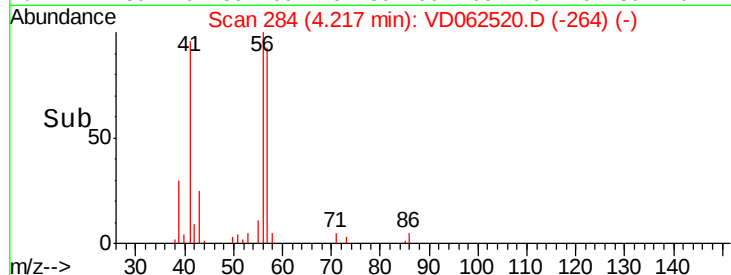
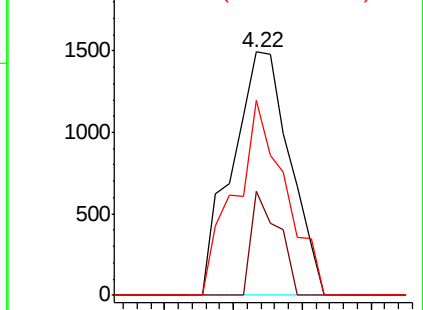
53 100

52 42.9 65.0 97.4#

51 80.2 32.6 48.8#



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 21.455 ug/l

RT: 3.17 min Scan# 178

Delta R.T. -0.06 min

Lab File: VD062520.D

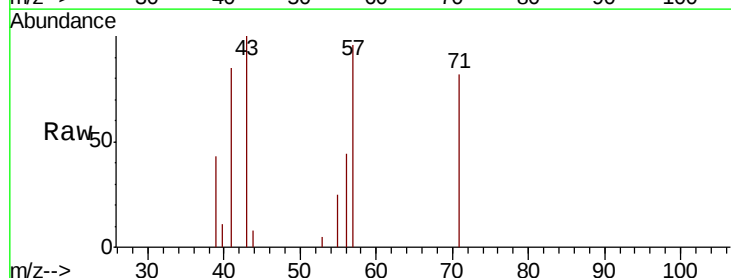
Acq: 23 May 2019 14:20

Tgt Ion: 43 Resp: 20942

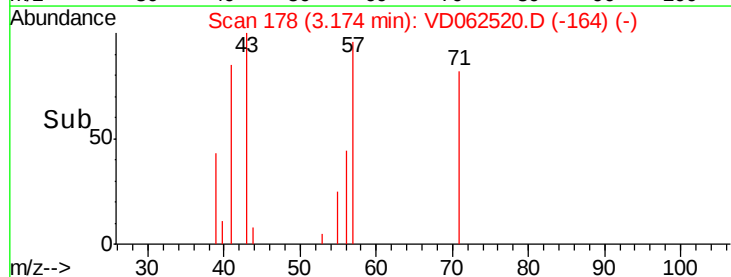
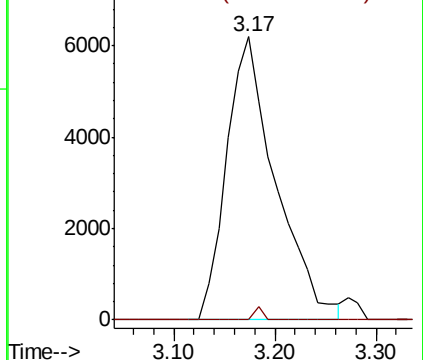
Ion Ratio Lower Upper

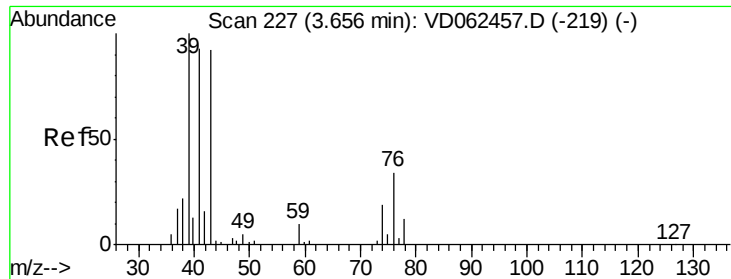
43 100

58 0.0 19.9 29.9#



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

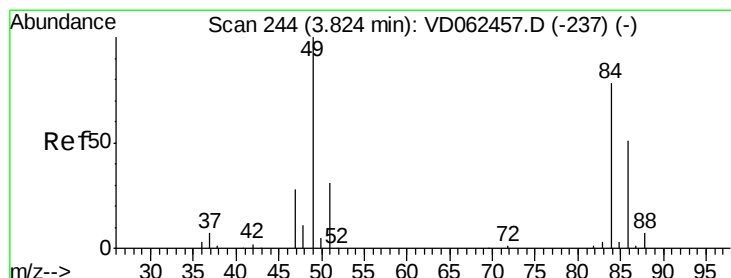
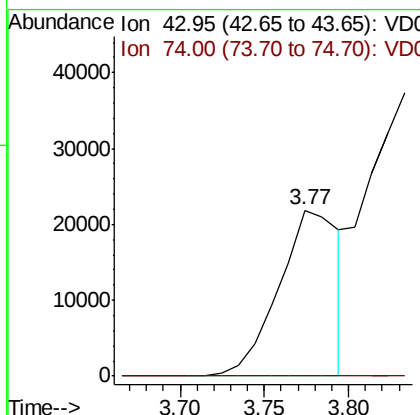
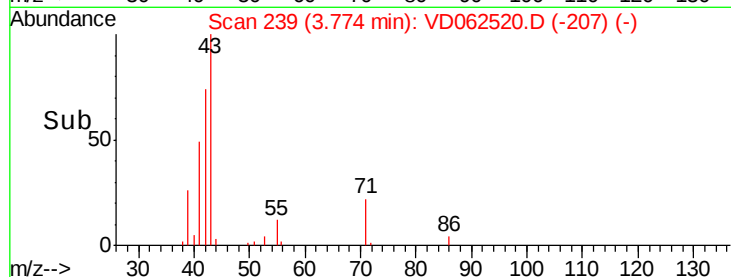
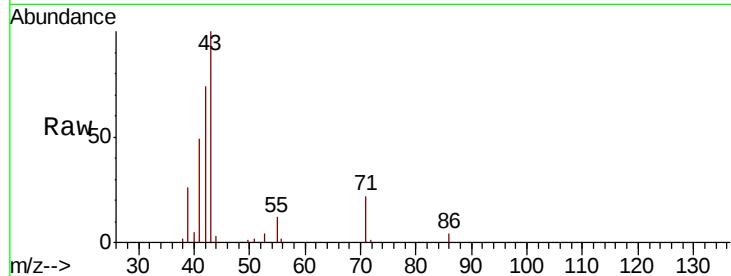




#18
Methyl Acetate
Concen: 32.423 ug/l
RT: 3.77 min Scan# 239
Delta R.T. 0.12 min
Lab File: VD062520.D
Acq: 23 May 2019 14:20

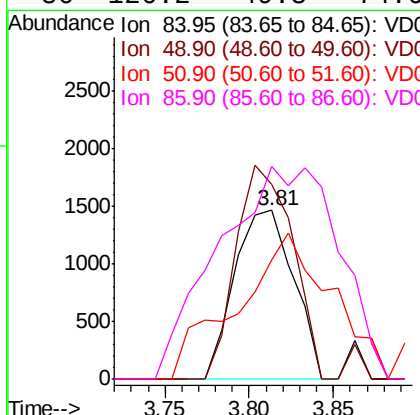
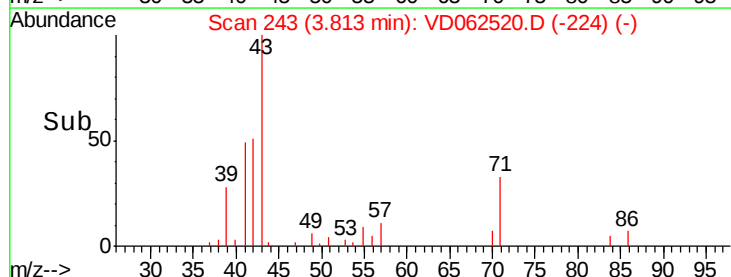
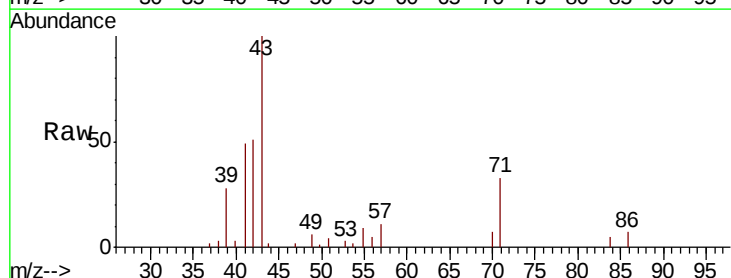
Instrument :
MSVOA_D
ClientSampleId :

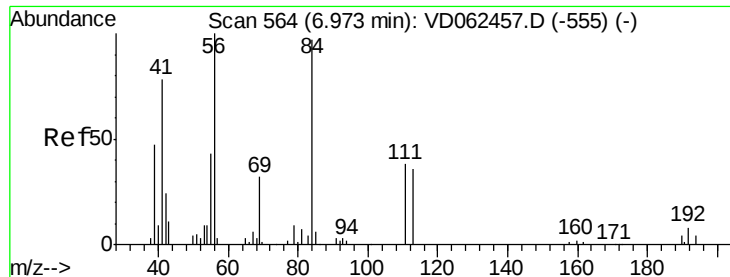
Tot Ion: 43 Resp: 54610
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 3.81 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD062520.D
Acq: 23 May 2019 14:20

Tgt Ion: 84 Resp: 3544
Ion Ratio Lower Upper
84 100
49 115.8 94.0 141.0
51 70.9 29.0 43.4#
86 126.2 49.8 74.6#

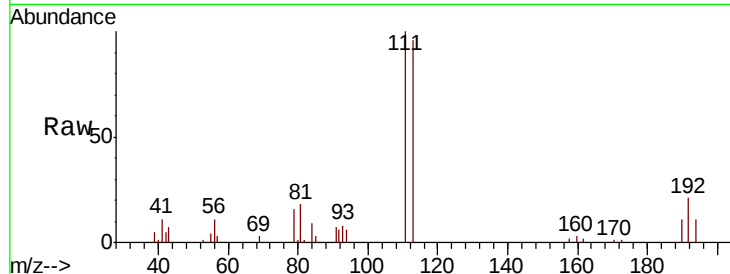




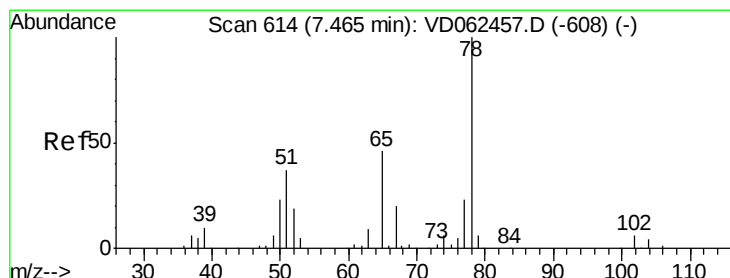
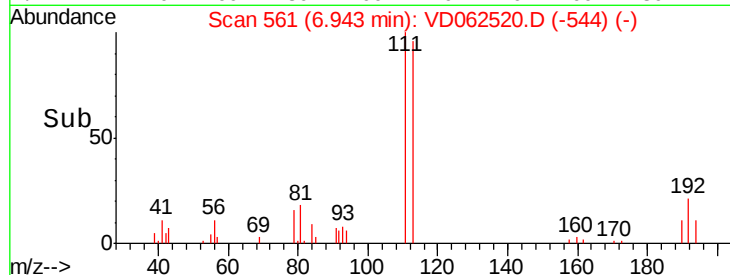
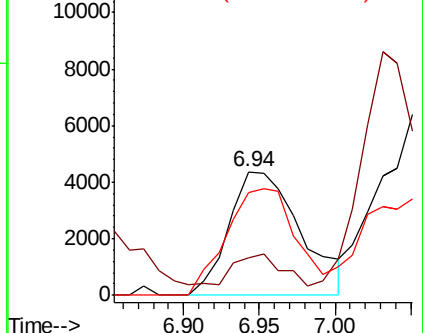
#31
Cvclohexane
Concen: 2.803 ug/l
RT: 6.94 min Scan# 561
Delta R.T. -0.03 min
Lab File: VD062520.D
Acq: 23 May 2019 14:20

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 14415
Ion Ratio Lower Upper
56 100
69 30.5 25.8 38.6
84 82.7 72.2 108.4

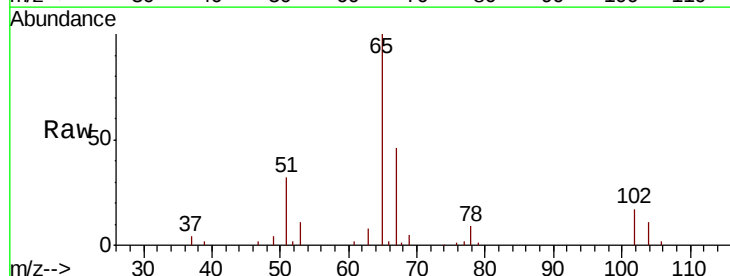


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

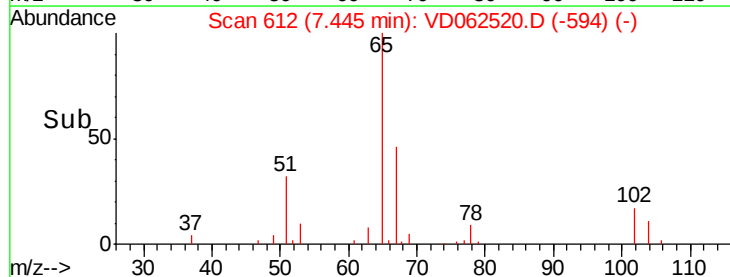
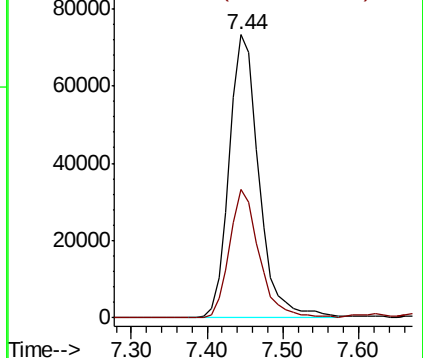


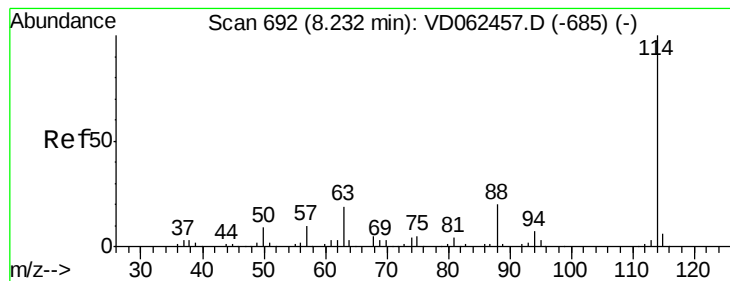
#33
1,2-Dichloroethane-d4
Concen: 36.460 ug/l
RT: 7.44 min Scan# 612
Delta R.T. -0.02 min
Lab File: VD062520.D
Acq: 23 May 2019 14:20

Tgt Ion: 65 Resp: 198595
Ion Ratio Lower Upper
65 100
67 45.6 0.0 98.0



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: 8.21 min Scan# 690

Delta R.T. -0.02 min

Lab File: VD062520.D

Acq: 23 May 2019 14:20

Instrument :

MSVOA_D

ClientSampleId :

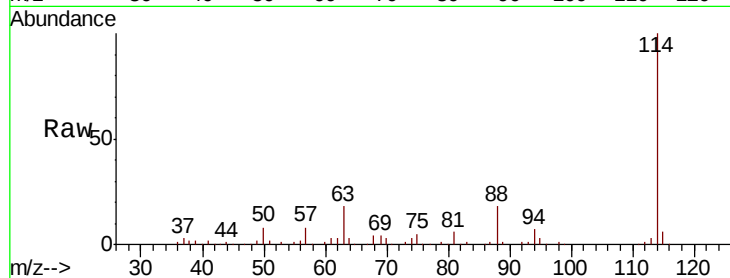
Tot Ion:114 Resp: 690828

Ion Ratio Lower Upper

114 100

63 18.2 0.0 32.4

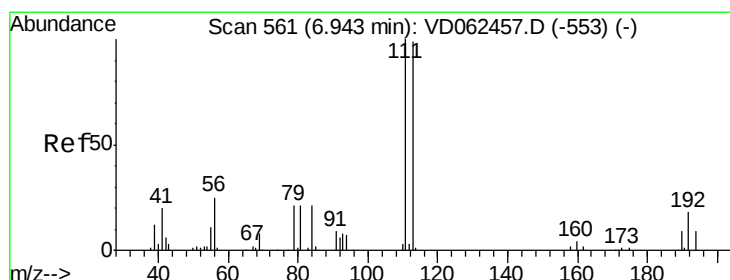
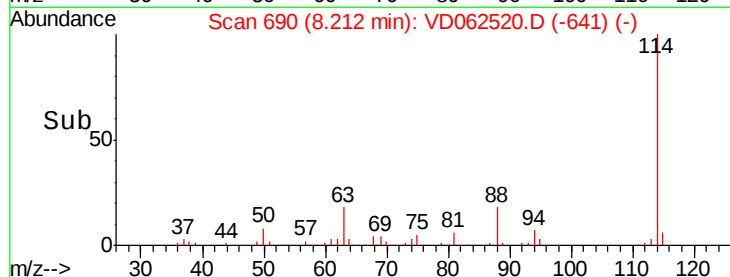
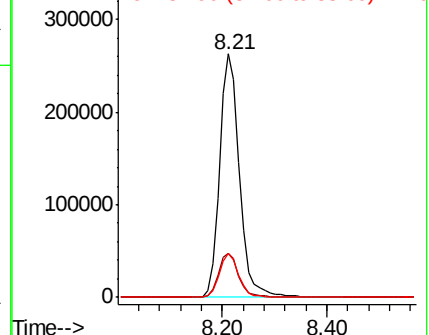
88 17.9 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 39.293 ug/l

RT: 6.92 min Scan# 559

Delta R.T. -0.02 min

Lab File: VD062520.D

Acq: 23 May 2019 14:20

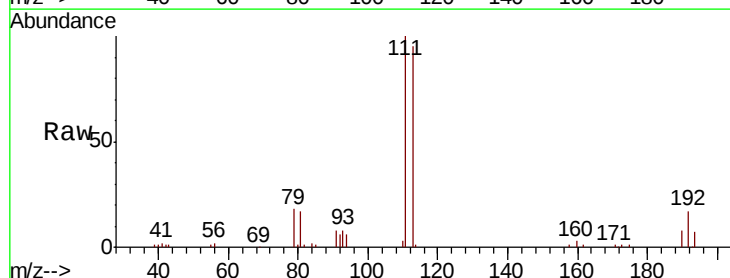
Tgt Ion:113 Resp: 244881

Ion Ratio Lower Upper

113 100

111 105.3 78.5 117.7

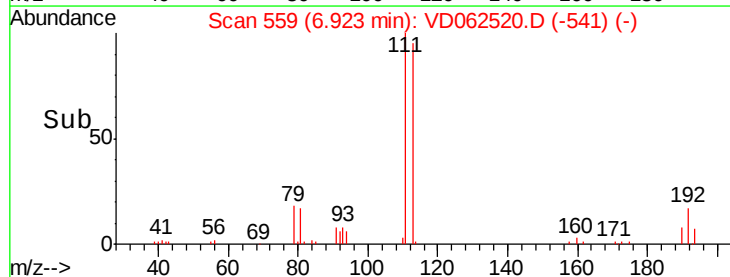
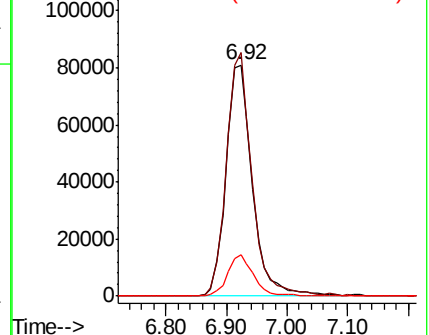
192 17.9 13.0 19.4

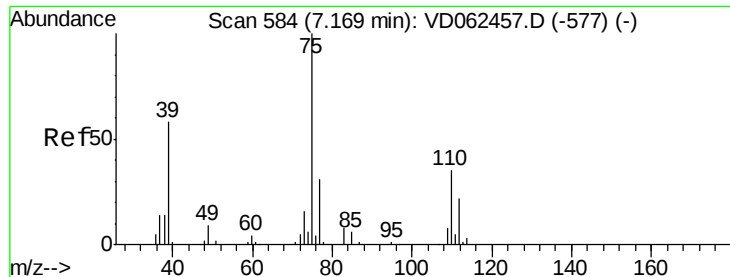


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.551 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.13 min

Lab File: VD062520.D

Acq: 23 May 2019 14:20

Instrument :

MSVOA_D

ClientSampleId :

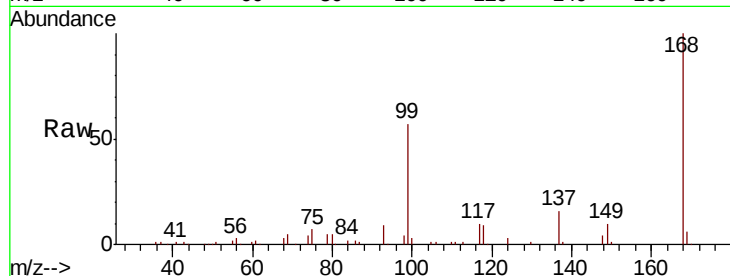
Tot Ion: 75 Resp: 36660

Ion Ratio Lower Upper

75 100

110 9.7 19.1 57.1#

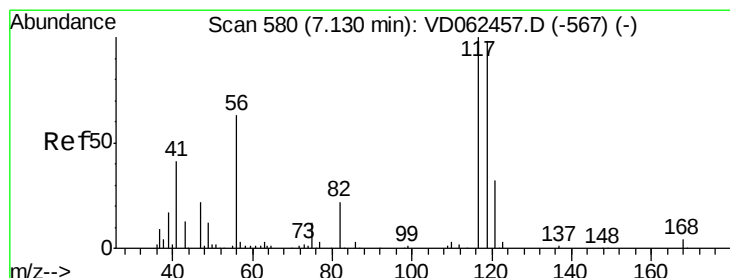
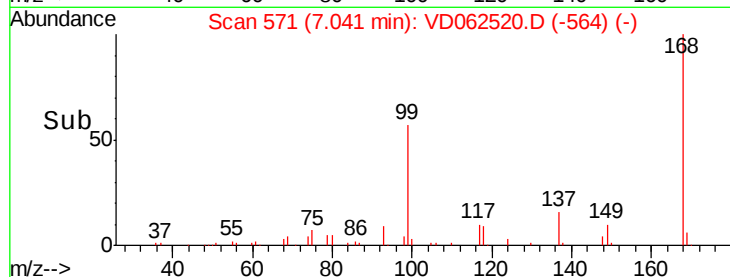
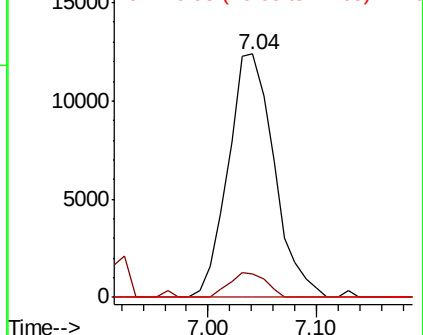
77 0.0 25.6 38.4#



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: 5.151 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.09 min

Lab File: VD062520.D

Acq: 23 May 2019 14:20

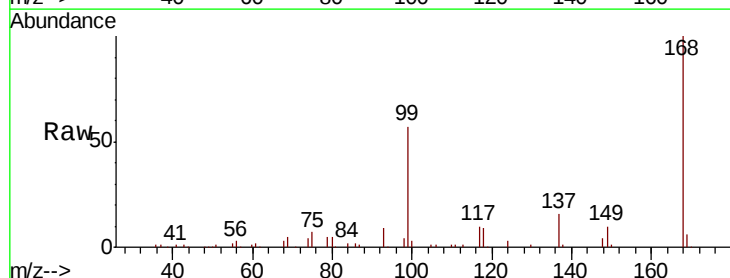
Tgt Ion: 117 Resp: 50566

Ion Ratio Lower Upper

117 100

119 3.3 75.8 113.8#

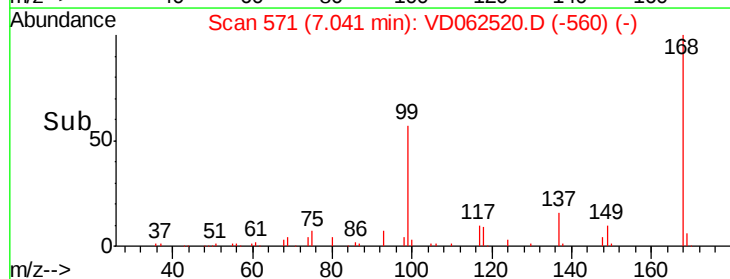
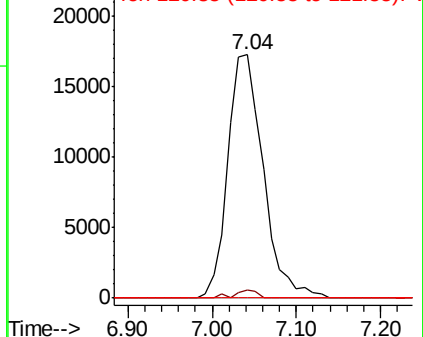
121 0.0 25.9 38.9#

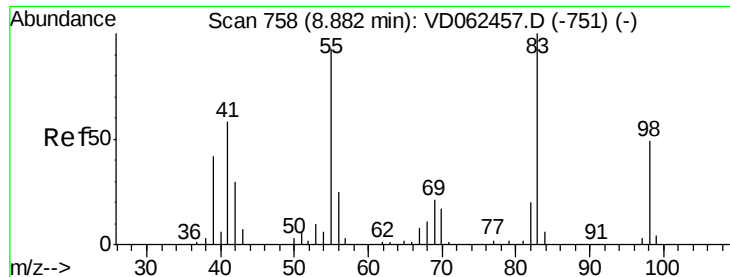


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

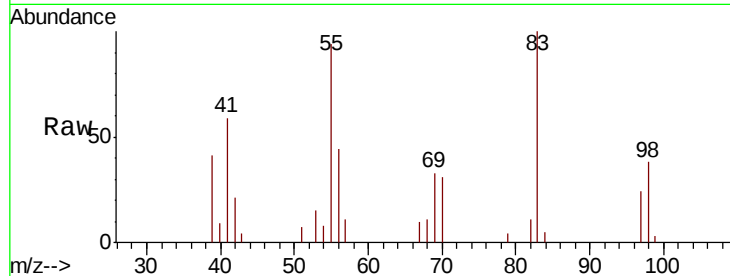




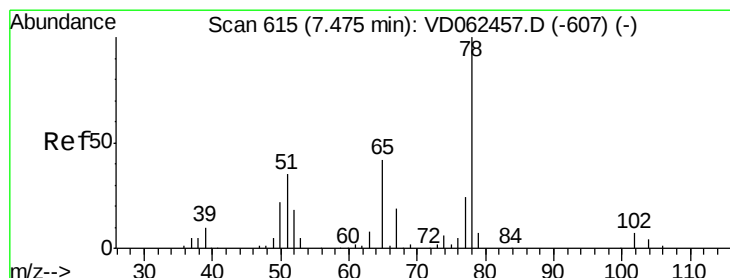
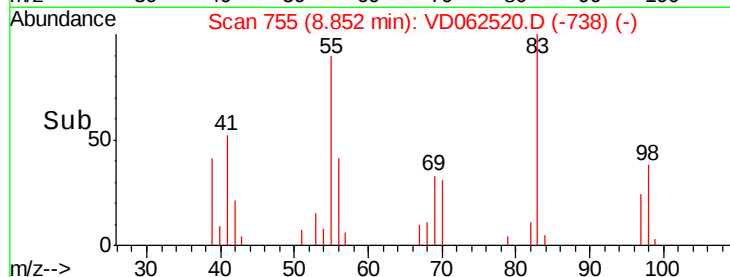
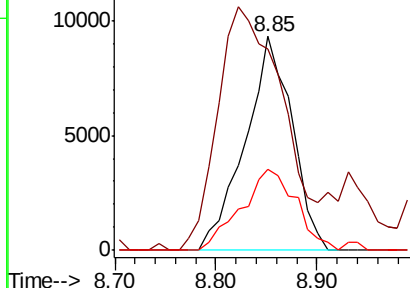
#39
Methvlcvclohexane
Concen: 5.528 ug/l
RT: 8.85 min Scan# 755
Delta R.T. -0.03 min
Lab File: VD062520.D
Acq: 23 May 2019 14:20

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 83 Resp: 30114
Ion Ratio Lower Upper
83 100
55 93.9 68.2 102.4
98 37.7 38.2 57.4#

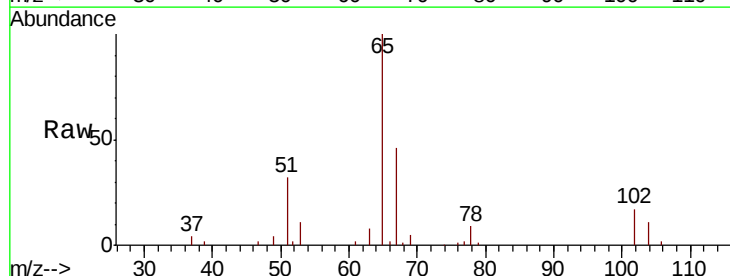


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

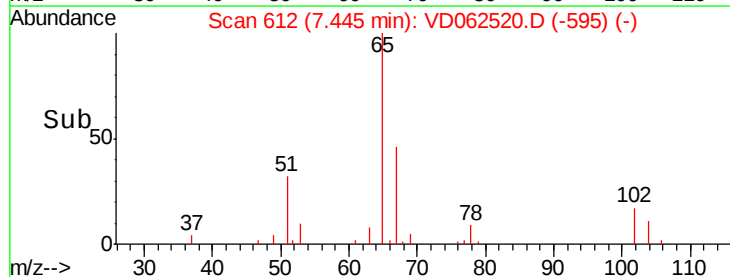
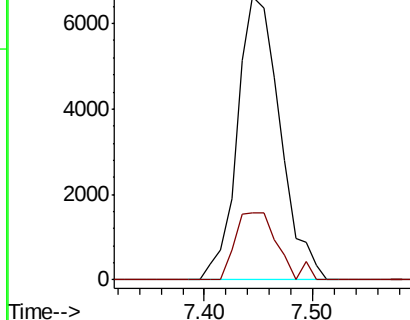


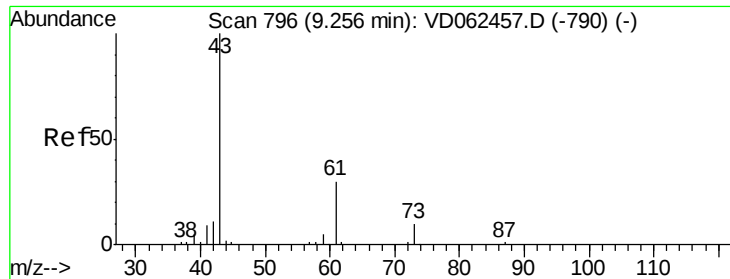
#40
Benzene
Concen: 1.405 ug/l
RT: 7.44 min Scan# 612
Delta R.T. -0.03 min
Lab File: VD062520.D
Acq: 23 May 2019 14:20

Tgt Ion: 78 Resp: 18198
Ion Ratio Lower Upper
78 100
77 23.5 19.7 29.5



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





#43

Isopropyl Acetate

Concen: 2.675 ug/l

RT: 9.28 min Scan# 799

Delta R.T. 0.03 min

Lab File: VD062520.D

Acq: 23 May 2019 14:20

Instrument :

MSVOA_D

ClientSampleId :

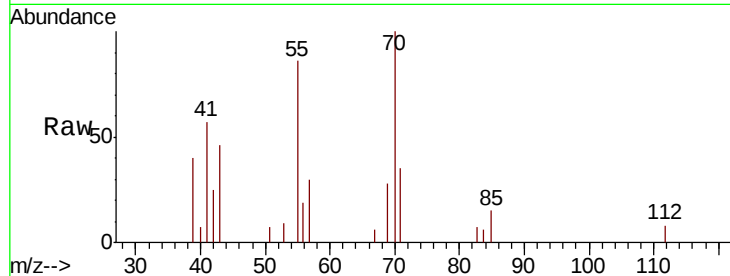
Tot Ion: 43 Resp: 9104

Ion Ratio Lower Upper

43 100

61 0.0 25.1 37.7#

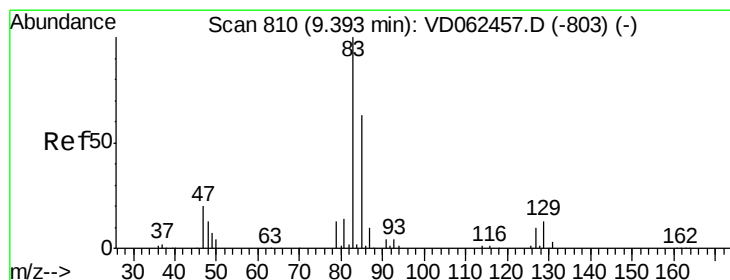
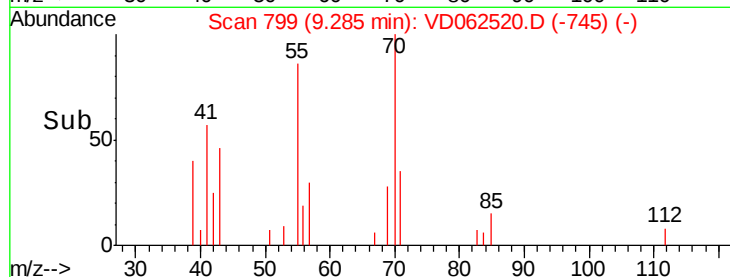
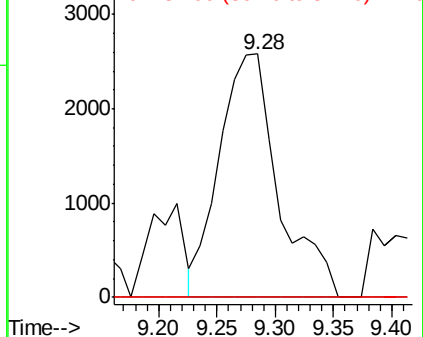
87 0.0 0.0 0.0



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



#47

Bromodichloromethane

Concen: 2.747 ug/l

RT: 9.39 min Scan# 810

Delta R.T. -0.00 min

Lab File: VD062520.D

Acq: 23 May 2019 14:20

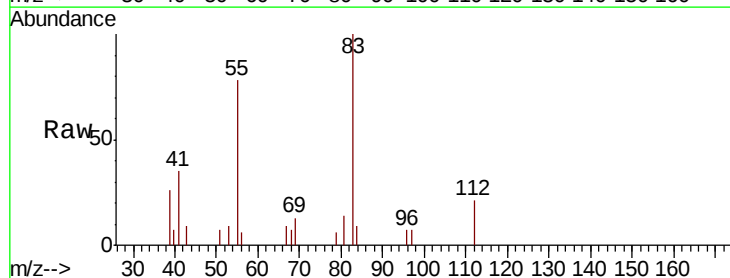
Tgt Ion: 83 Resp: 20001

Ion Ratio Lower Upper

83 100

85 0.0 50.9 76.3#

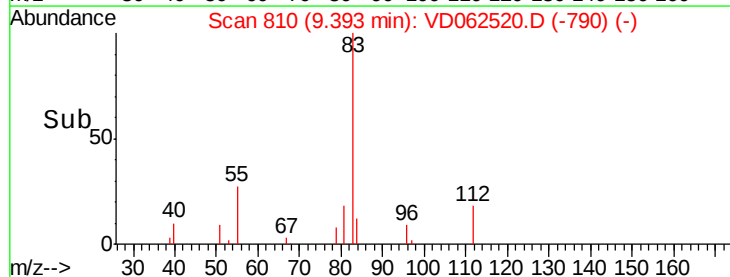
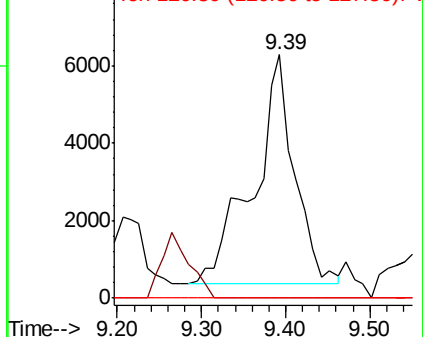
127 0.0 8.1 12.1#

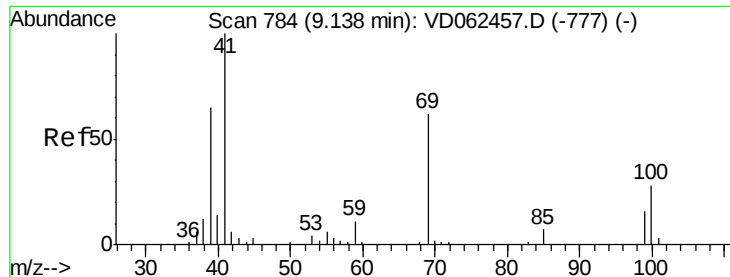


Abundance Ion 82.85 (82.55 to 83.55): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 126.80 (126.50 to 127.50): V

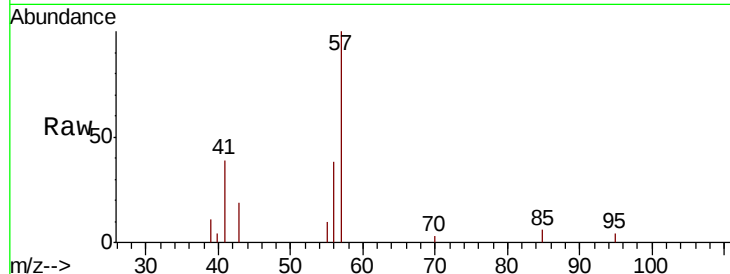




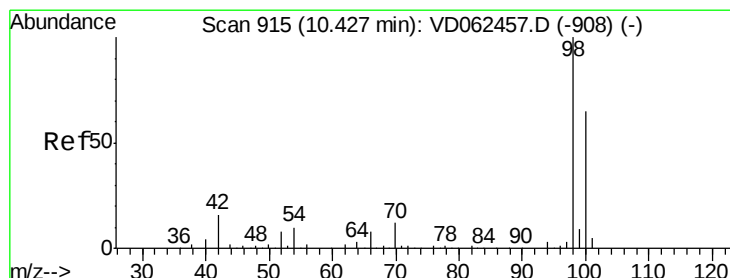
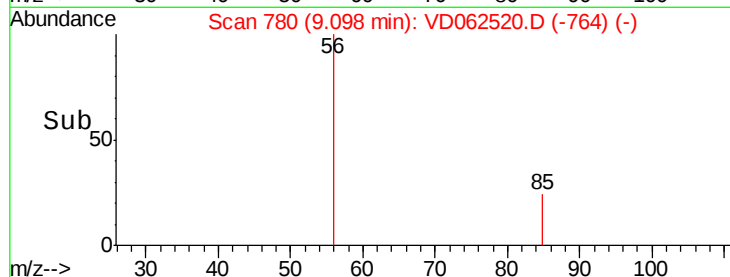
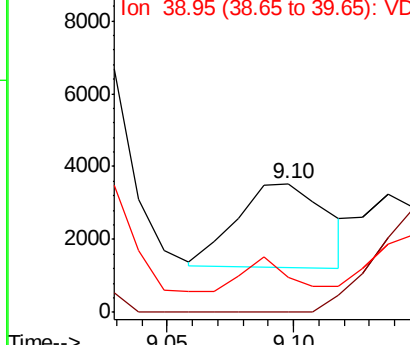
#48
Methyl methacrylate
Concen: 2.489 ug/l
RT: 9.10 min Scan# 780
Delta R.T. -0.04 min
Lab File: VD062520.D
Acq: 23 May 2019 14:20

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 41 Resp: 5701
Ion Ratio Lower Upper
41 100
69 0.0 64.2 96.2#
39 27.4 46.8 70.2#

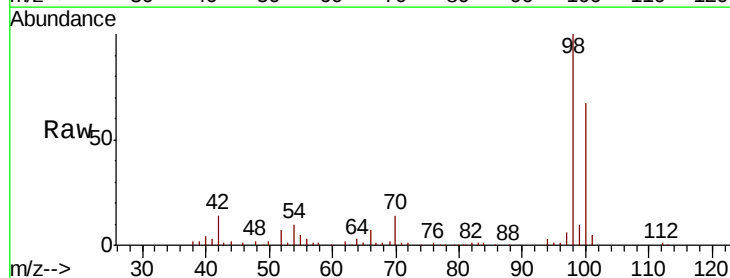


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC

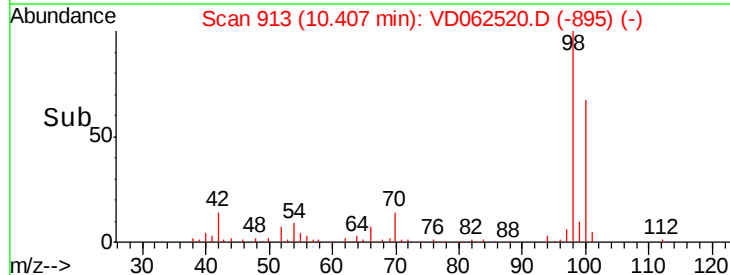
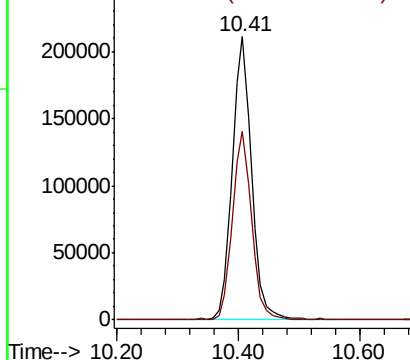


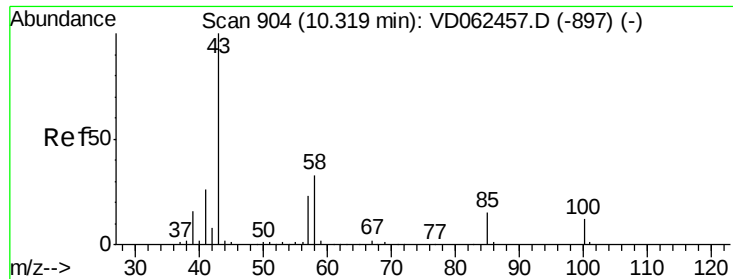
#50
Toluene-d8
Concen: 34.406 ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.02 min
Lab File: VD062520.D
Acq: 23 May 2019 14:20

Tgt Ion: 98 Resp: 469238
Ion Ratio Lower Upper
98 100
100 66.6 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 14.900 ug/l

RT: 10.36 min Scan# 908

Delta R.T. 0.04 min

Lab File: VD062520.D

Acq: 23 May 2019 14:20

Instrument :

MSVOA_D

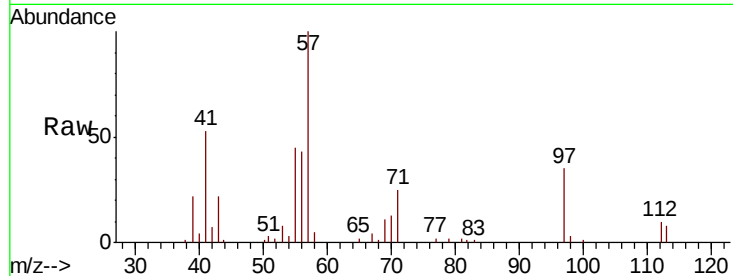
ClientSampleId :

Tot Ion: 43 Resp: 33506

Ion Ratio Lower Upper

43 100

58 22.4 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

15000

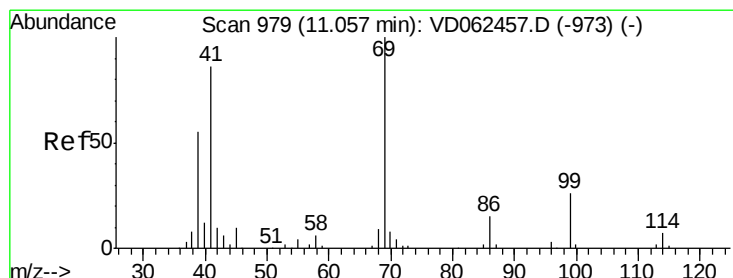
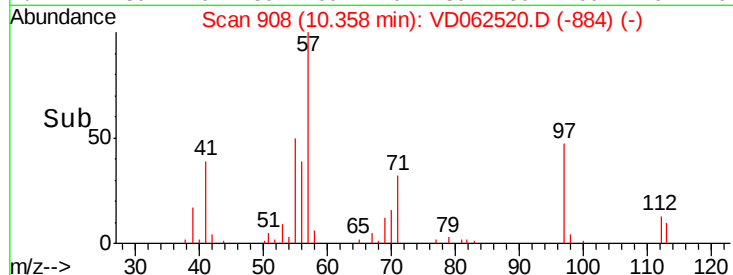
10000

5000

0

10.20 10.30 10.40 10.50

Time-->



#56

Ethyl methacrylate

Concen: 6.161 ug/l

RT: 11.09 min Scan# 982

Delta R.T. 0.03 min

Lab File: VD062520.D

Acq: 23 May 2019 14:20

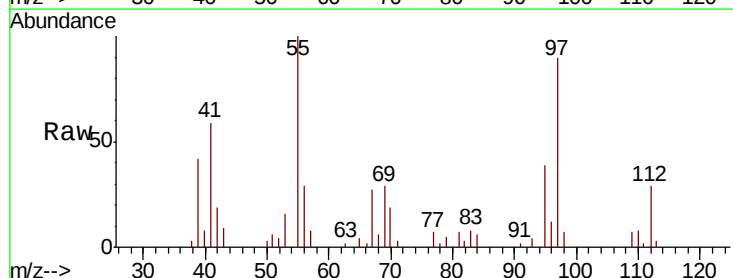
Tgt Ion: 69 Resp: 19798

Ion Ratio Lower Upper

69 100

41 200.8 56.3 84.5#

39 143.3 29.4 44.2#



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

20000

15000

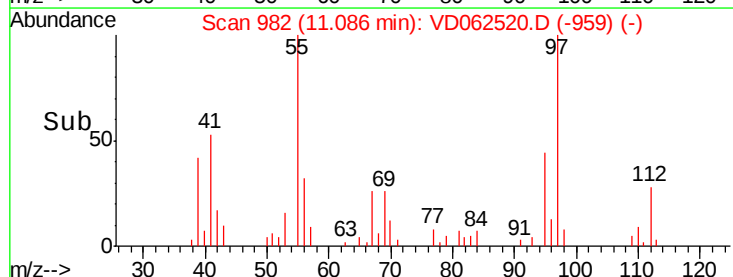
10000

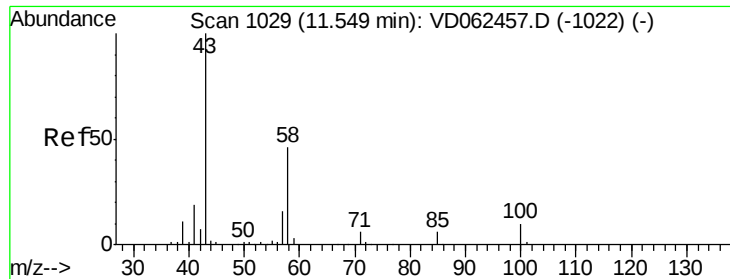
5000

0

11.00 11.10 11.20

Time-->

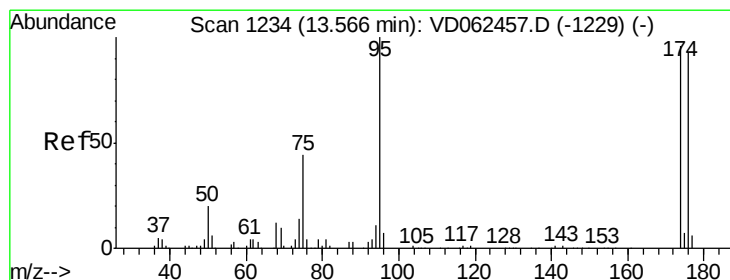
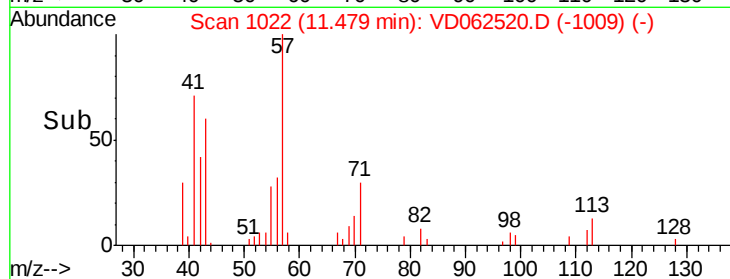
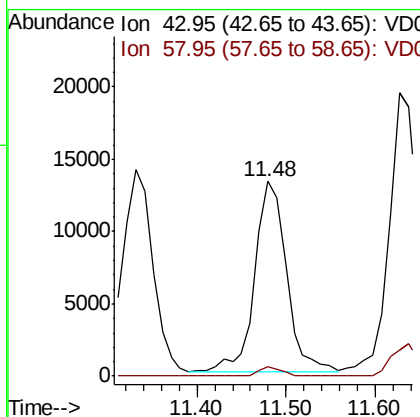
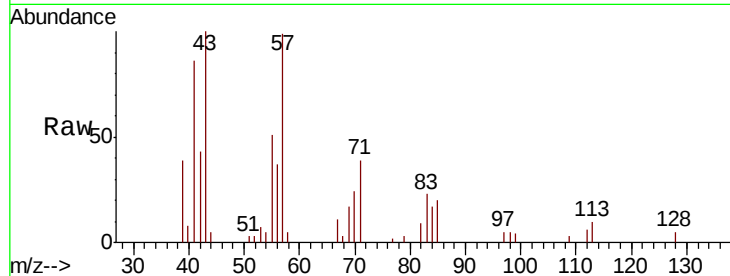




#59
2-Hexanone
Concen: 19.768 ug/l
RT: 11.48 min Scan# 1022
Delta R.T. -0.07 min
Lab File: VD062520.D
Acq: 23 May 2019 14:20

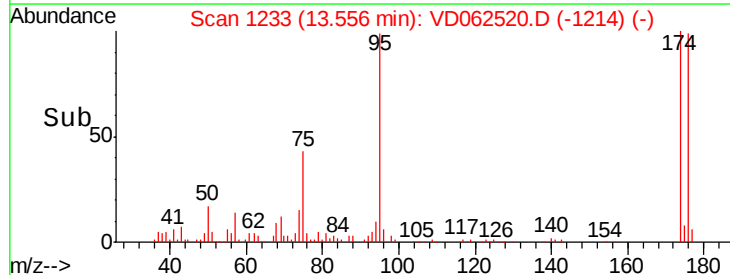
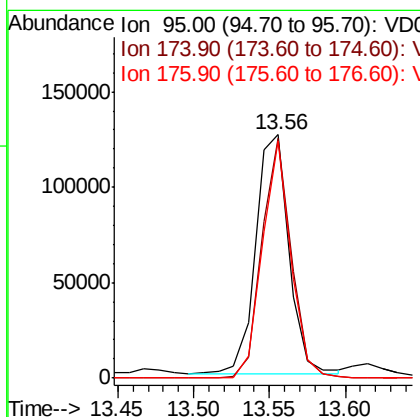
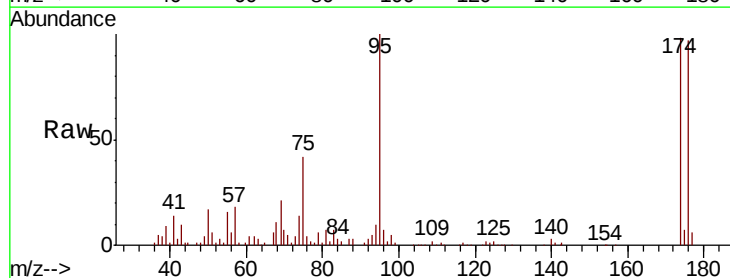
Instrument :
MSVOA_D
ClientSampled :

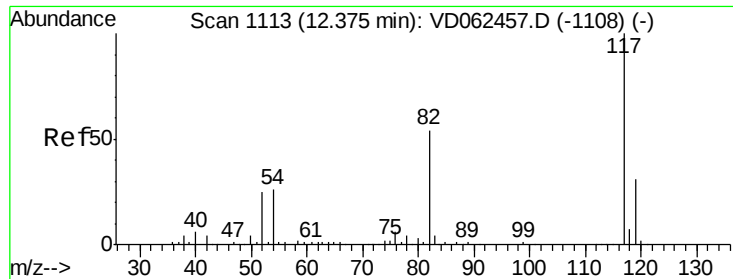
Tot Ion: 43 Resp: 32306
Ion Ratio Lower Upper
43 100
58 4.5 25.4 76.4#



#62
4-Bromofluorobenzene
Concen: 32.059 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. -0.01 min
Lab File: VD062520.D
Acq: 23 May 2019 14:20

Tgt Ion: 95 Resp: 191259
Ion Ratio Lower Upper
95 100
174 98.4 0.0 181.8
176 97.4 0.0 174.4

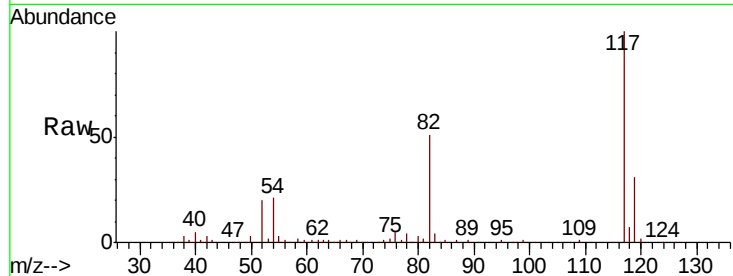




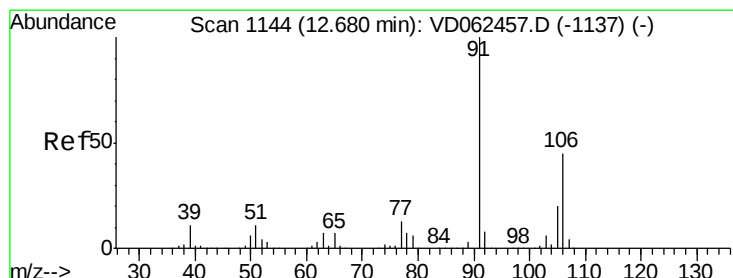
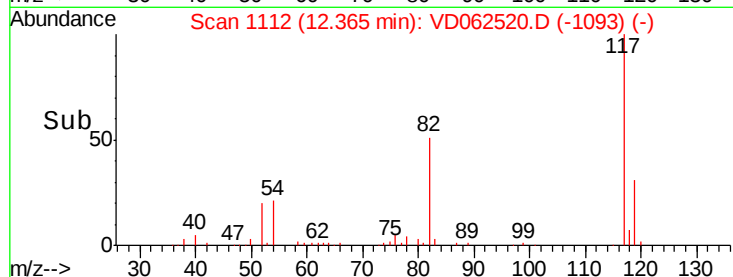
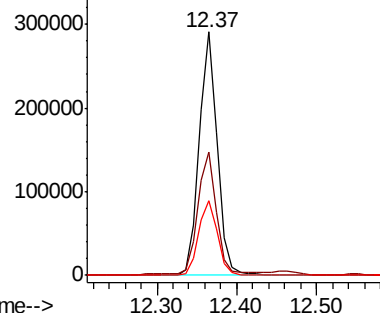
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VD062520.D
Acq: 23 May 2019 14:20

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 468490
Ion Ratio Lower Upper
117 100
82 50.8 36.2 54.2
119 30.7 26.2 39.4

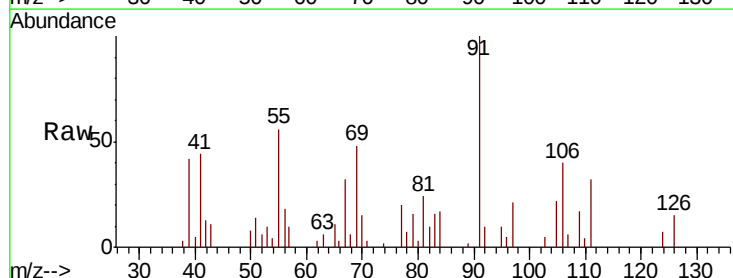


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

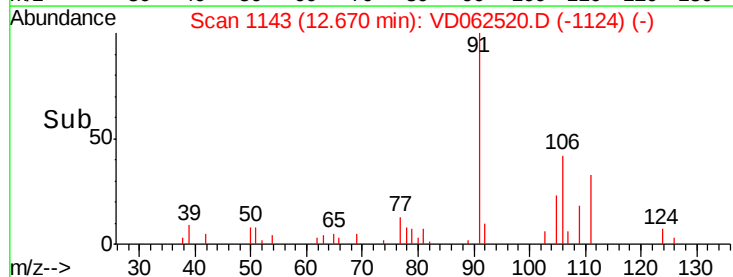
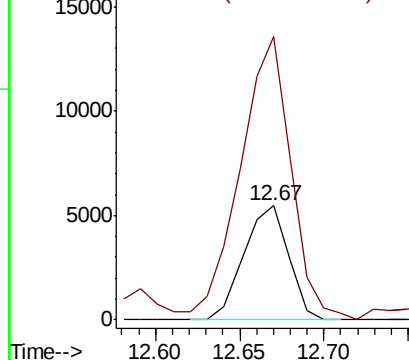


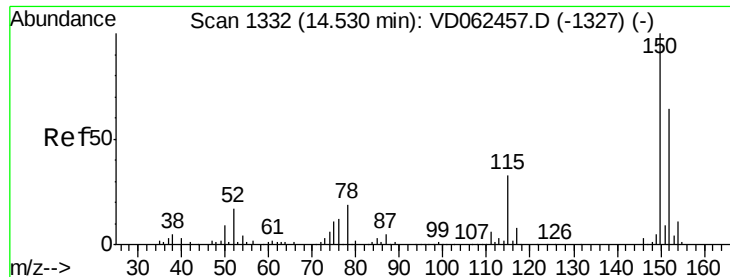
#68
m/p-Xylenes
Concen: 1.798 ug/l
RT: 12.67 min Scan# 1143
Delta R.T. -0.01 min
Lab File: VD062520.D
Acq: 23 May 2019 14:20

Tgt Ion:106 Resp: 10017
Ion Ratio Lower Upper
106 100
91 248.4 164.0 246.0#



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



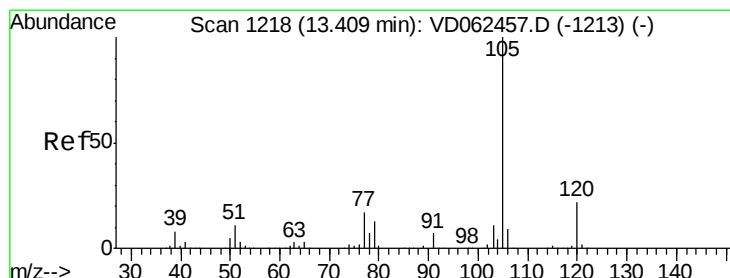
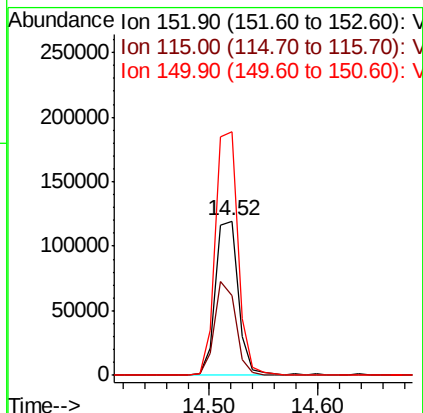
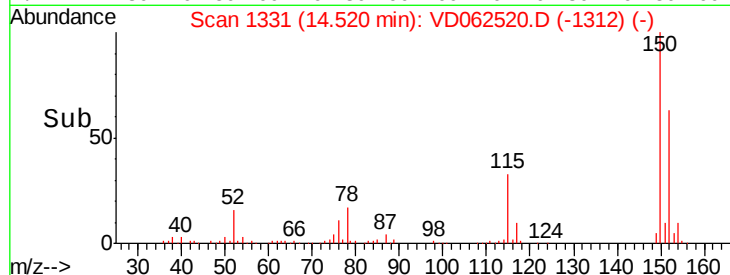
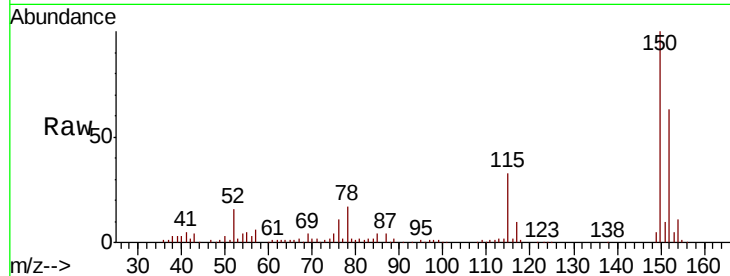


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. -0.01 min
Lab File: VD062520.D
Acq: 23 May 2019 14:20

Instrument :
MSVOA_D
ClientSampleId :

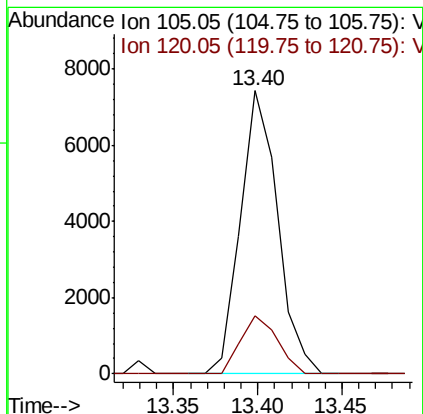
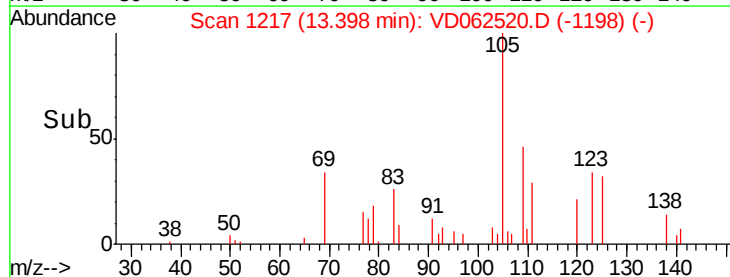
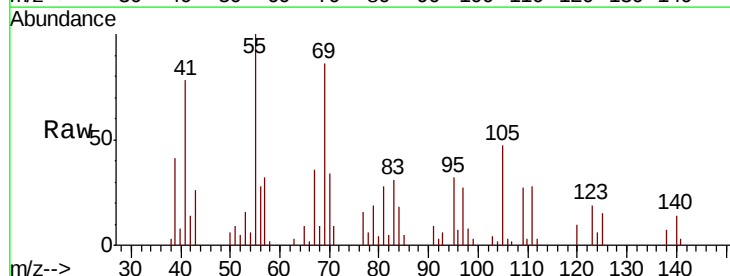
Tot Ion:152 Resp: 174858
Ion Ratio Lower Upper
152 100
115 52.0 30.9 92.7
150 158.0 0.0 314.8

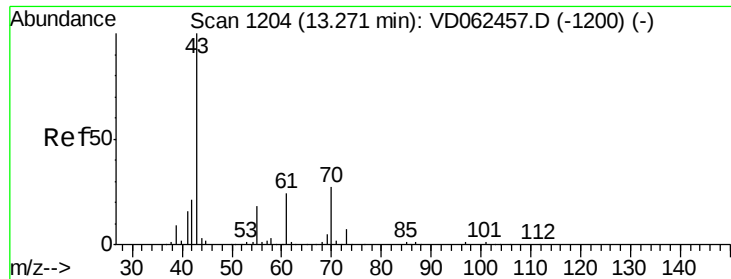


#73

Isopropylbenzene
Concen: 1.032 ug/l
RT: 13.40 min Scan# 1217
Delta R.T. -0.01 min
Lab File: VD062520.D
Acq: 23 May 2019 14:20

Tgt Ion:105 Resp: 11371
Ion Ratio Lower Upper
105 100
120 20.7 12.0 36.1





#74

N-amvl acetate

Concen: 5.206 ug/l

RT: 13.29 min Scan# 1206

Delta R.T. 0.02 min

Lab File: VD062520.D

Acq: 23 May 2019 14:20

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 14173

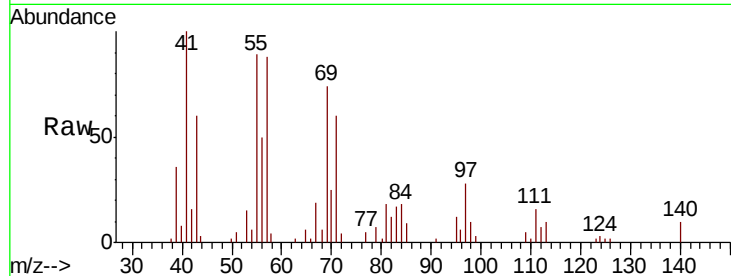
Ion Ratio Lower Upper

43 100

70 42.1 24.2 36.4#

55 147.3 16.0 24.0#

61 0.0 21.6 32.4#

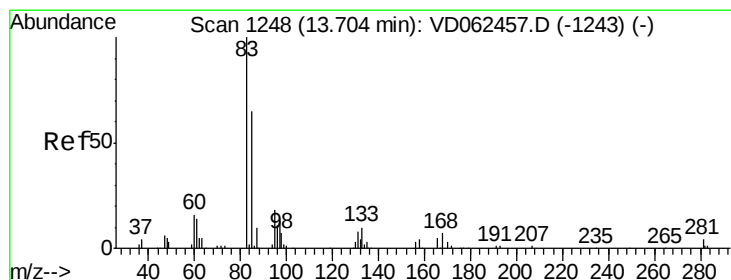
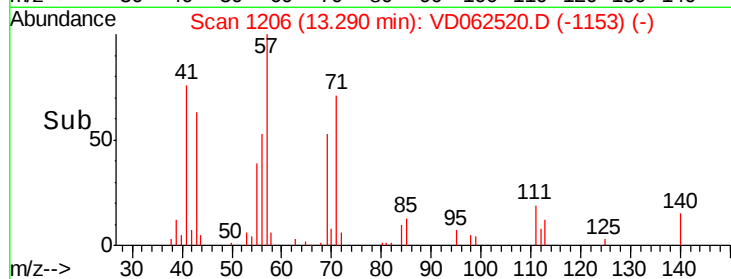
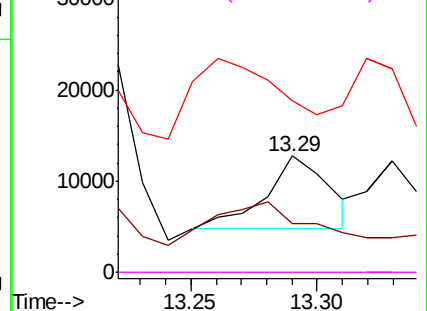


Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 1.982 ug/l

RT: 13.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VD062520.D

Acq: 23 May 2019 14:20

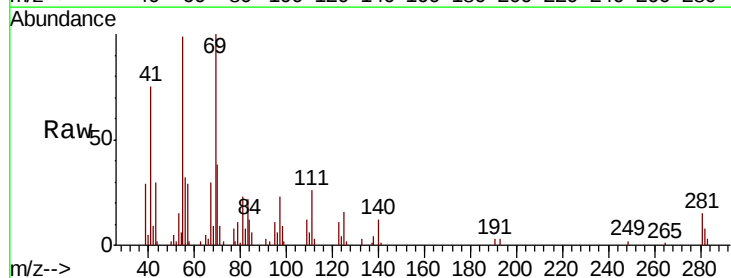
Tgt Ion: 83 Resp: 3941

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

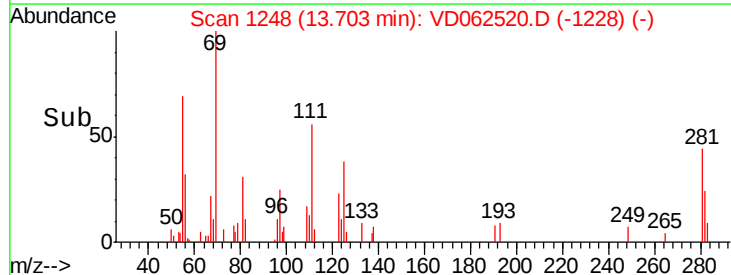
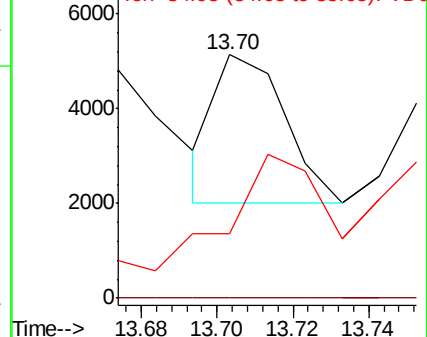
85 26.4 32.6 97.7#

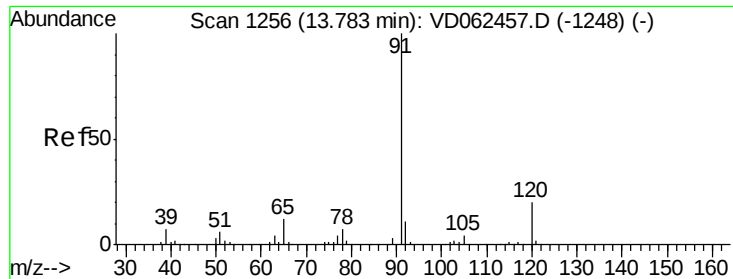


Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC





#78

n-propylbenzene

Concen: 1.447 ug/l

RT: 13.77 min Scan# 1255

Delta R.T. -0.01 min

Lab File: VD062520.D

Acq: 23 May 2019 14:20

Instrument :

MSVOA_D

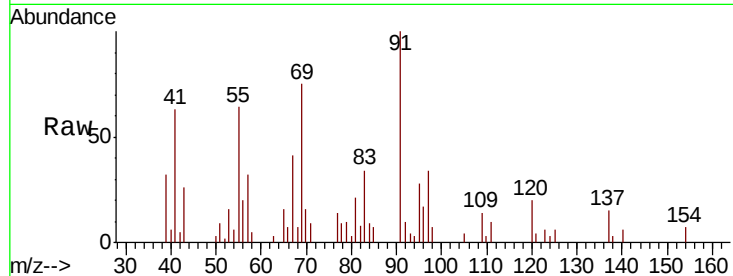
ClientSampled :

Tot Ion: 91 Resp: 18471

Ion Ratio Lower Upper

91 100

120 20.2 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): VDC

13.77

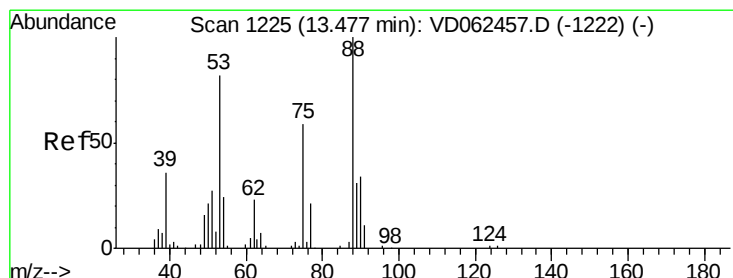
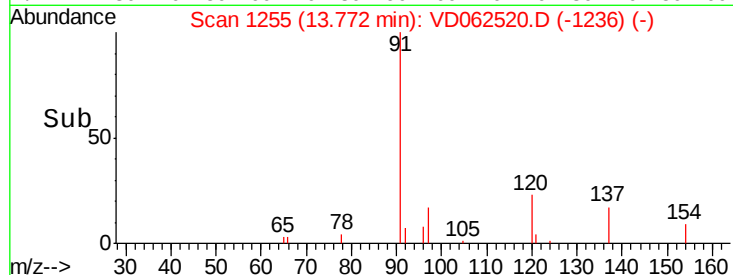
15000

10000

5000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 141.199 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.08 min

Lab File: VD062520.D

Acq: 23 May 2019 14:20

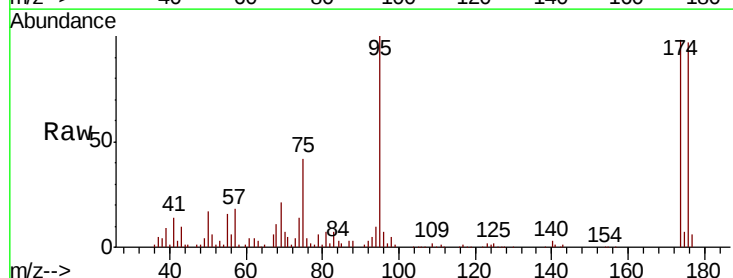
Tgt Ion: 75 Resp: 82018

Ion Ratio Lower Upper

75 100

53 6.3 65.8 98.8#

89 0.0 35.0 52.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

13.56

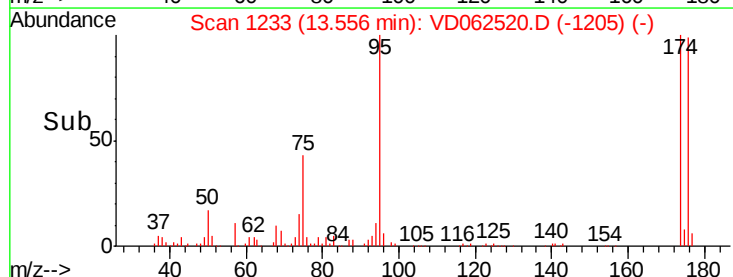
60000

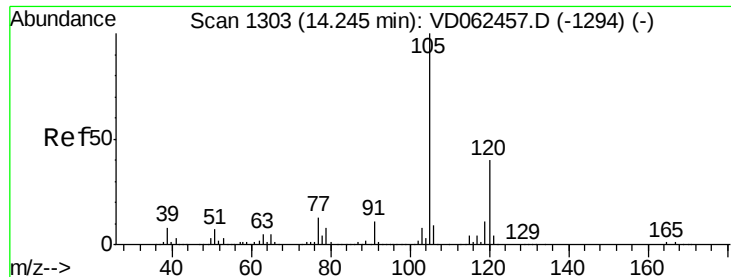
40000

20000

0

Time-->





#84

1,2,4-Trimethylbenzene

Concen: 2.417 ug/l

RT: 14.23 min Scan# 1302

Delta R.T. -0.01 min

Lab File: VD062520.D

Acq: 23 May 2019 14:20

Instrument :

MSVOA_D

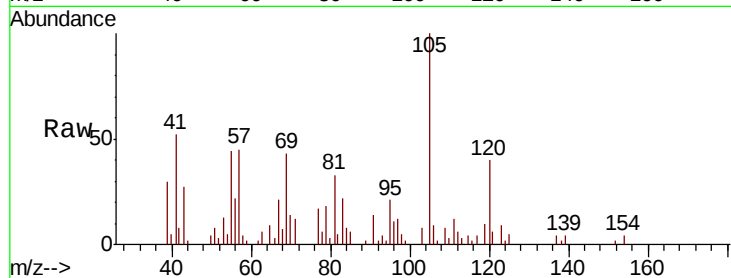
ClientSampleId :

Tot Ion:105 Resp: 23636

Ion Ratio Lower Upper

105 100

120 40.1 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

20000

15000

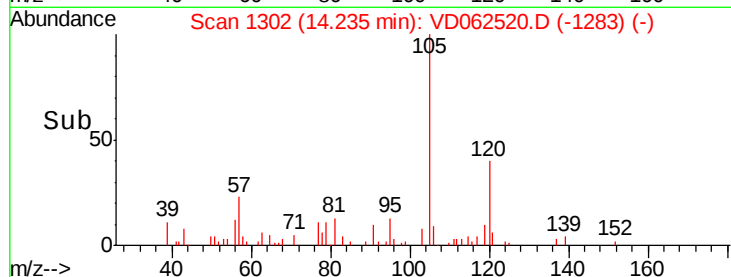
10000

5000

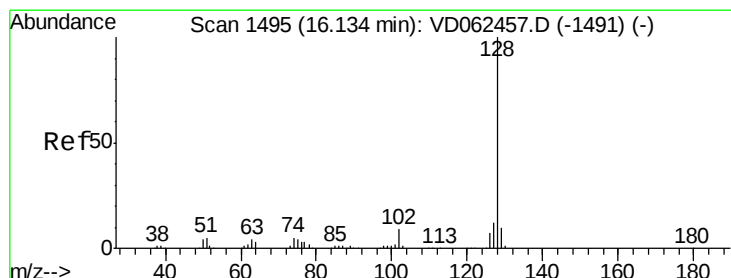
0

14.15 14.20 14.25 14.30

14.23



Time-->



#95

Naphthalene

Concen: 2.981 ug/l

RT: 16.12 min Scan# 1494

Delta R.T. -0.01 min

Lab File: VD062520.D

Acq: 23 May 2019 14:20

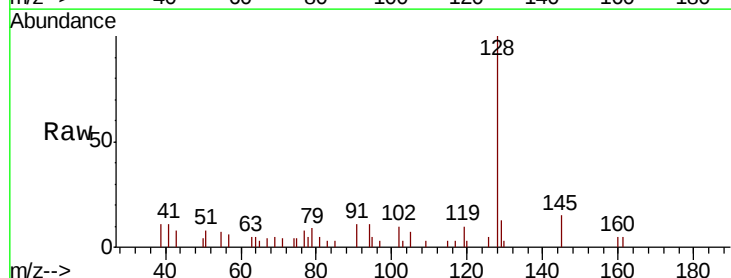
Tgt Ion:128 Resp: 15060

Ion Ratio Lower Upper

128 100

127 0.0 9.8 14.8#

129 15.7 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15000

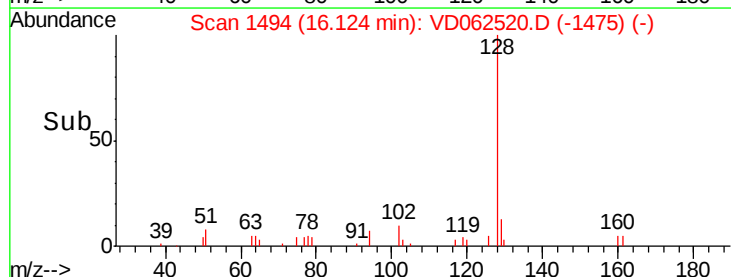
10000

5000

0

16.05 16.10 16.15 16.20

16.12



Time-->