

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062920\
 Data File : VD065888.D
 Acq On : 29 Jun 2020 16:02
 Operator : VA/SY
 Sample : L3129-09
 Misc : 5.02G/5.00ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 72-11982

Quant Time: Jun 30 04:55:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D062620S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 26 19:16:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	38162	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	86961	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	57176	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	16900	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	47055	118.69	ug/l	0.00
Spiked Amount			Recovery	=	237.38%	
35) Dibromofluoromethane	7.92	113	36549	68.00	ug/l	0.00
Spiked Amount			Recovery	=	136.00%	
50) Toluene-d8	10.34	98	75129	37.16	ug/l	0.00
Spiked Amount			Recovery	=	74.32%	
62) 4-Bromofluorobenzene	12.64	95	20389	30.78	ug/l	0.00
Spiked Amount			Recovery	=	61.56%	

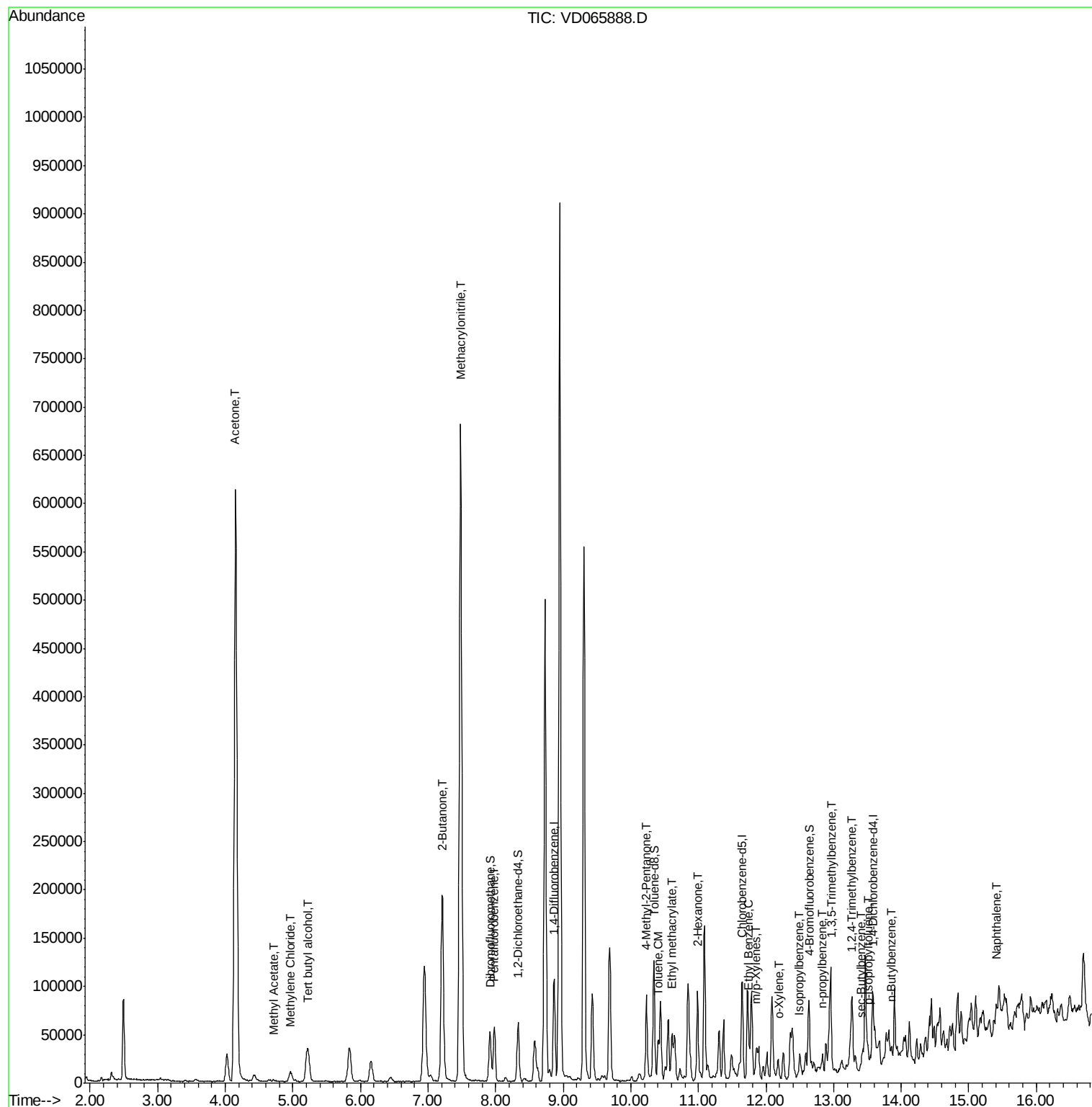
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.21	59	66726	3509.585	ug/l	96
16) Acetone	4.16	43	1111241	14305.719	ug/l	92
18) Methyl Acetate	4.71	43	3812	22.132	ug/l #	54
20) Methylene Chloride	4.96	84	7920	15.843	ug/l	97
25) 2-Butanone	7.21	43	306678	2958.429	ug/l	97
41) Methacrylonitrile	7.48	41	358099	2013.052	ug/l #	42
51) 4-Methyl-2-Pentanone	10.23	43	60055	185.436	ug/l	99
52) Toluene	10.41	92	16250	10.624	ug/l	96
56) Ethyl methacrylate	10.61	69	25071	48.772	ug/l #	72
59) 2-Hexanone	10.98	43	58712	258.633	ug/l	97
67) Ethyl Benzene	11.75	91	4086	1.940	ug/l	98
68) m/p-Xylenes	11.85	106	5890	7.344	ug/l	83
69) o-Xylene	12.19	106	2917	4.048	ug/l	92
73) Isopropylbenzene	12.48	105	2736	2.260	ug/l	93
78) n-propylbenzene	12.83	91	4002	2.744	ug/l	97
80) 1,3,5-Trimethylbenzene	12.97	105	10584	10.460	ug/l	98
84) 1,2,4-Trimethylbenzene	13.28	105	42155	42.292	ug/l	97
85) sec-Butylbenzene	13.40	105	1612	1.328	ug/l	94
86) p-Isopropyltoluene	13.52	119	4789	4.345	ug/l	93
89) n-Butylbenzene	13.85	91	4185	3.894	ug/l #	80
95) Naphthalene	15.41	128	25041	47.496	ug/l #	95

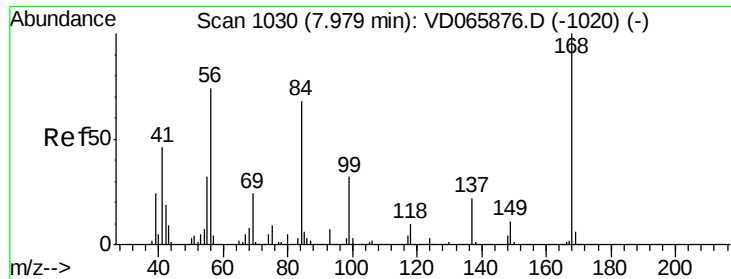
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD065888.D

Acq: 29 Jun 2020 16:02

Instrument :

MSVOA_D

ClientSampleId :

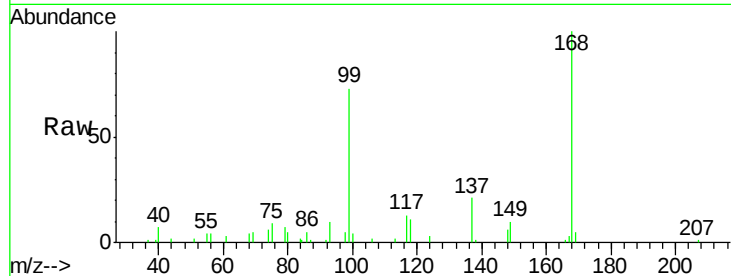
72-11982

Tot Ion:168 Resp: 38162

Ion Ratio Lower Upper

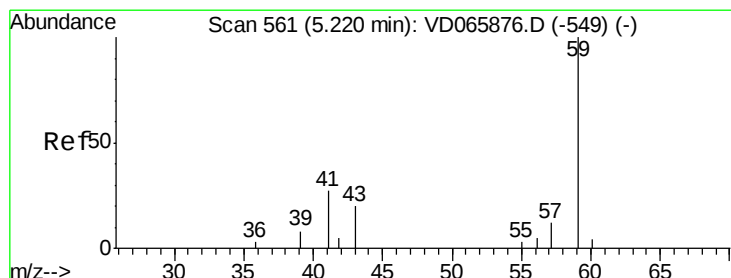
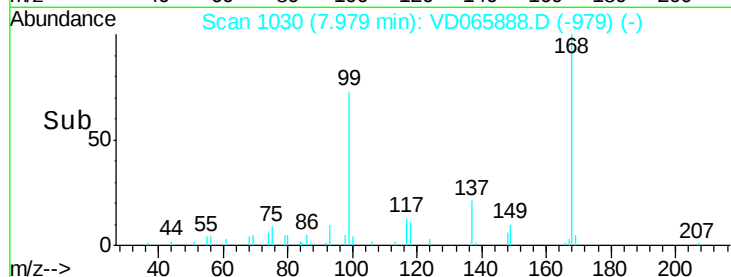
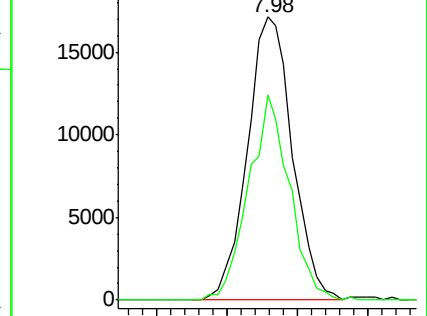
168 100

99 72.7 51.3 76.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 3509.585 ug/l

RT: 5.21 min Scan# 560

Delta R.T. -0.01 min

Lab File: VD065888.D

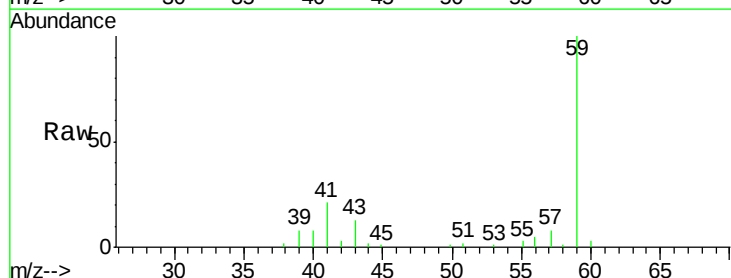
Acq: 29 Jun 2020 16:02

Tgt Ion: 59 Resp: 66726

Ion Ratio Lower Upper

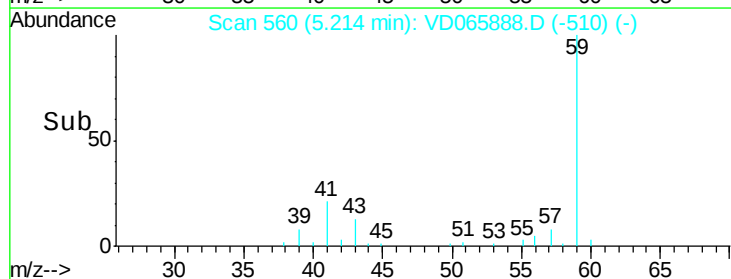
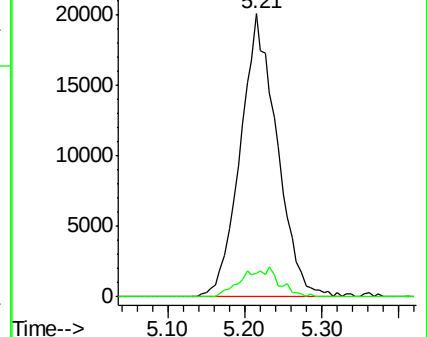
59 100

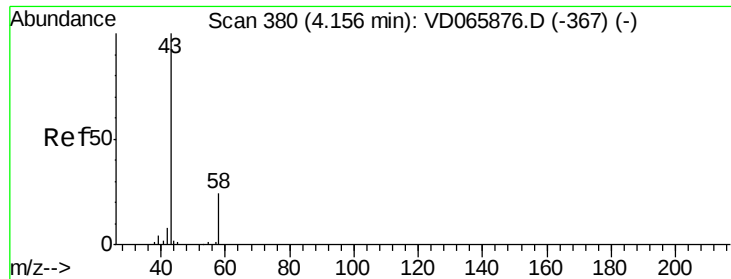
57 10.6 9.7 14.5



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

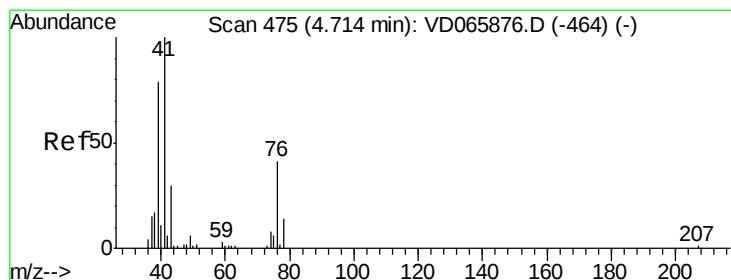
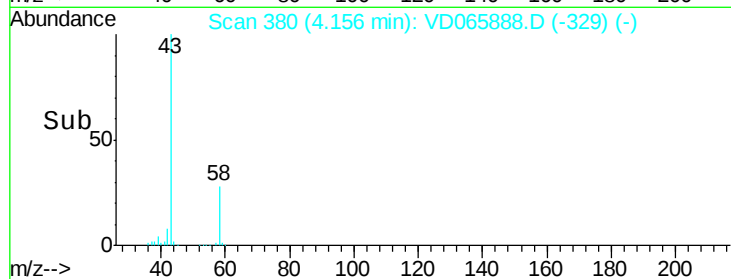
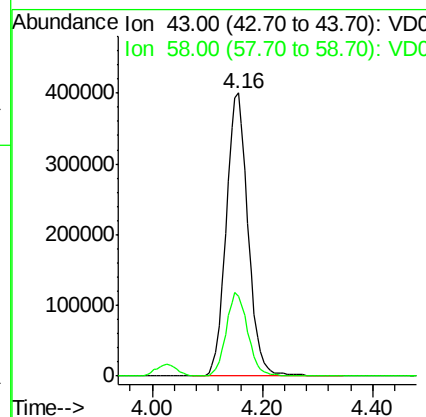
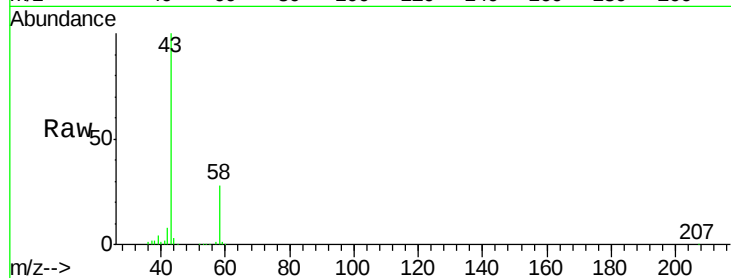




#16
Acetone
Concen: 14305.719 ug/l
RT: 4.16 min Scan# 380
Delta R.T. 0.00 min
Lab File: VD065888.D
Acq: 29 Jun 2020 16:02

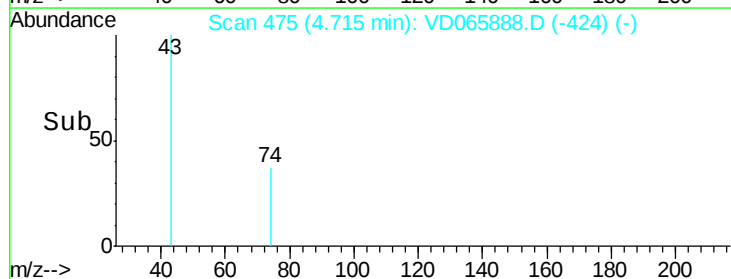
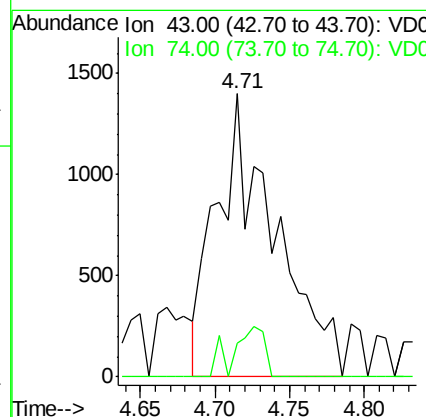
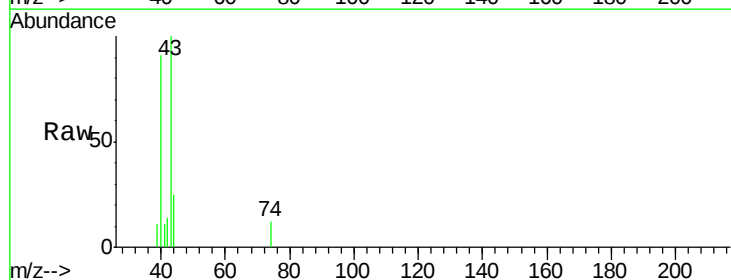
Instrument :
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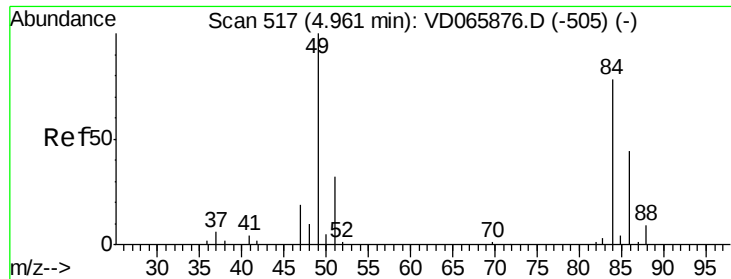
Tot Ion: 43 Resp: 1111241
Ion Ratio Lower Upper
43 100
58 28.1 19.5 29.3



#18
Methyl Acetate
Concen: 22.132 ug/l
RT: 4.71 min Scan# 475
Delta R.T. 0.00 min
Lab File: VD065888.D
Acq: 29 Jun 2020 16:02

Tgt Ion: 43 Resp: 3812
Ion Ratio Lower Upper
43 100
74 1.9 20.2 30.2#

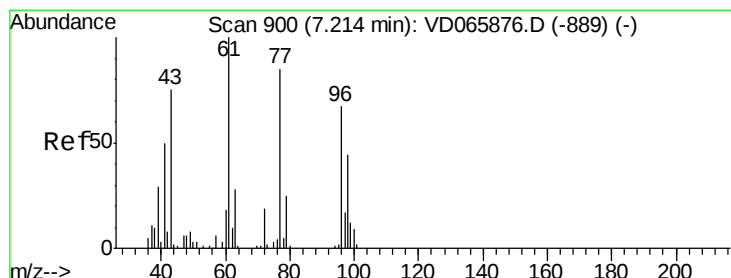
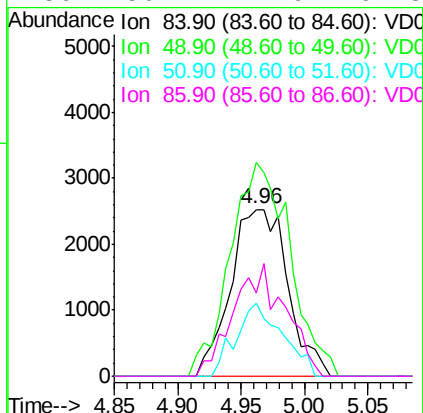
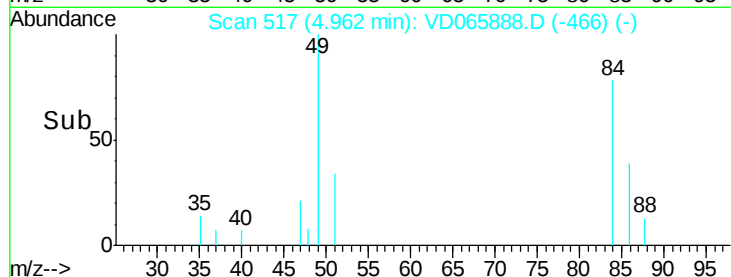
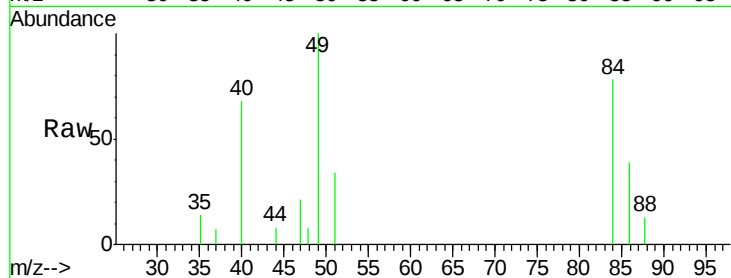




#20
Methvlene Chloride
Concen: 15.843 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD065888.D
Acq: 29 Jun 2020 16:02

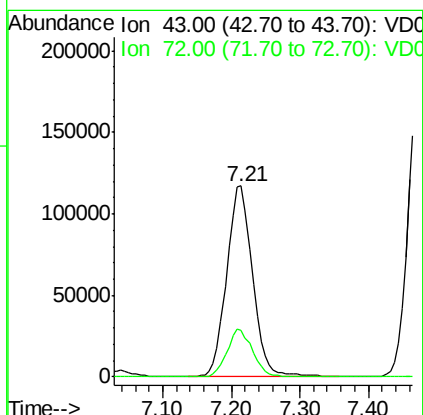
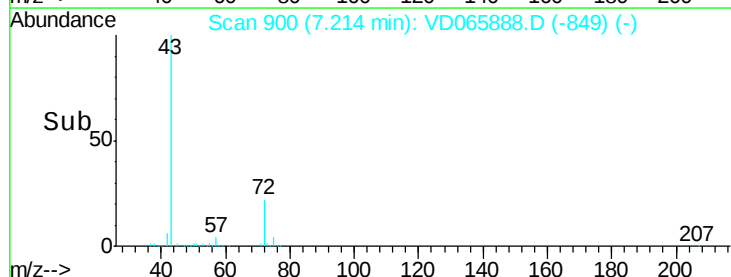
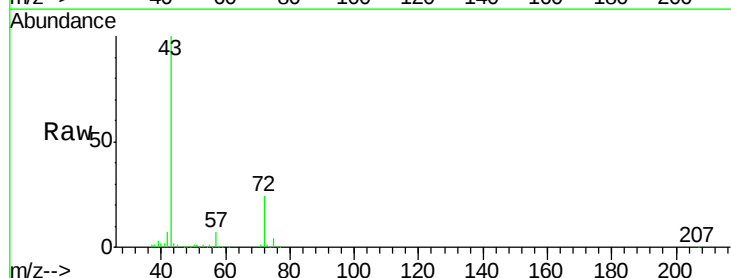
Instrument :
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ClientSampleId :
72-11982

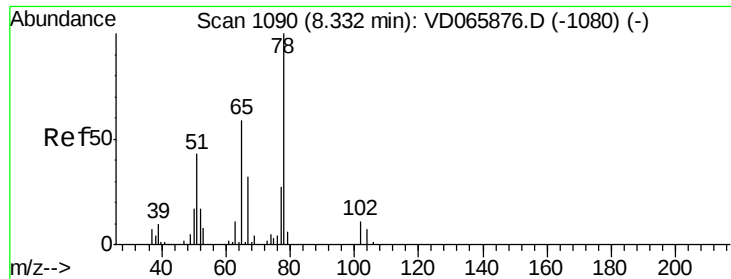
Tot Ion: 84 Resp: 7920
Ion Ratio Lower Upper
84 100
49 128.2 103.0 154.6
51 44.0 32.7 49.1
86 50.2 44.9 67.3



#25
2-Butanone
Concen: 2958.429 ug/l
RT: 7.21 min Scan# 900
Delta R.T. 0.00 min
Lab File: VD065888.D
Acq: 29 Jun 2020 16:02

Tgt Ion: 43 Resp: 306678
Ion Ratio Lower Upper
43 100
72 24.2 20.6 31.0

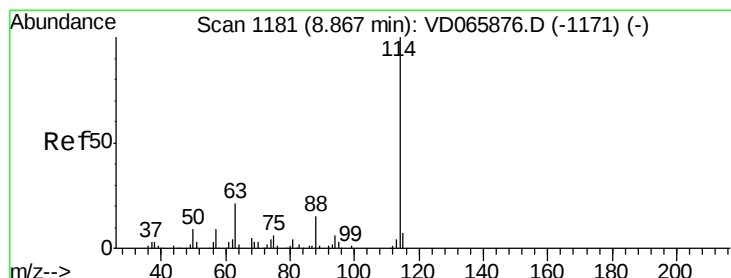
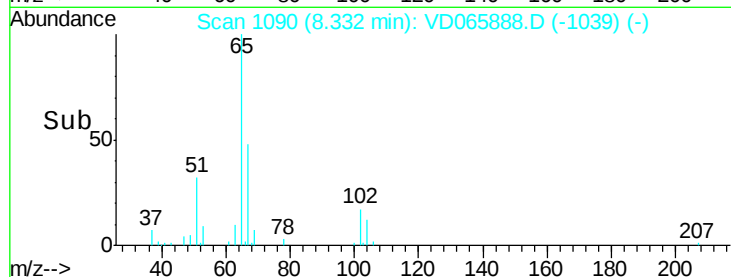
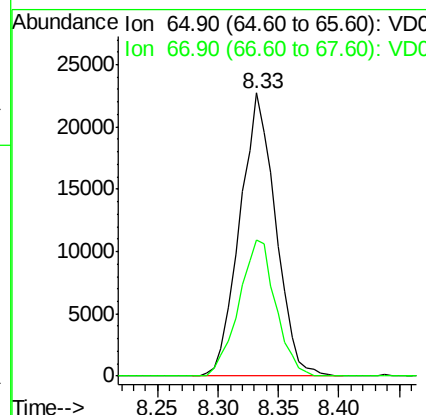
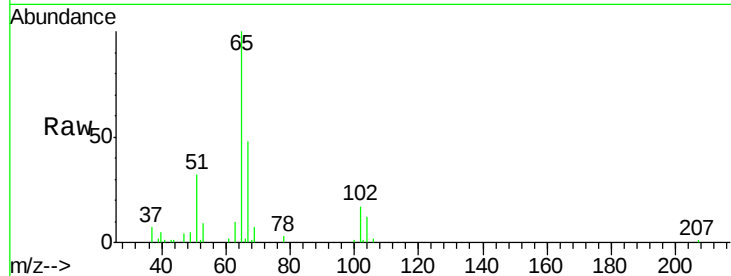




#33
 1,2-Dichloroethane-d4
 Concen: 118.686 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD065888.D
 Acq: 29 Jun 2020 16:02

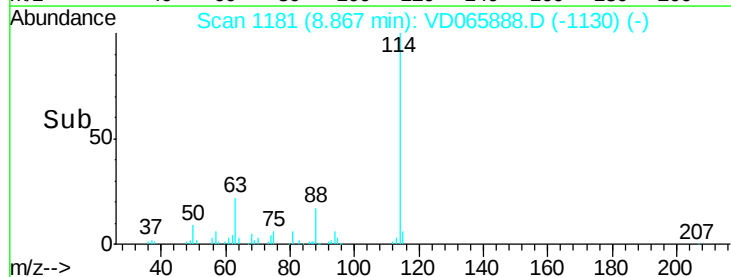
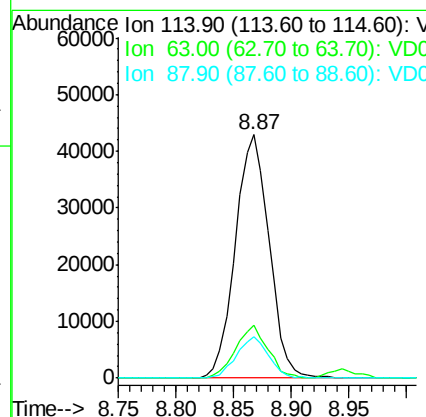
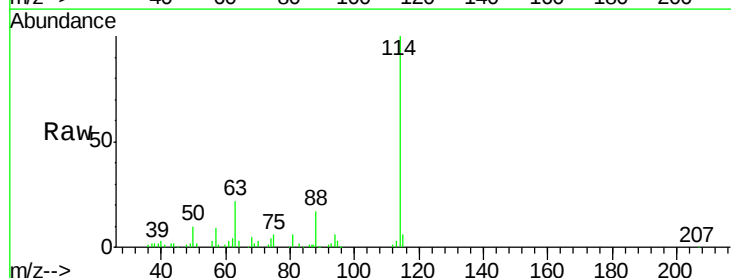
Instrument :
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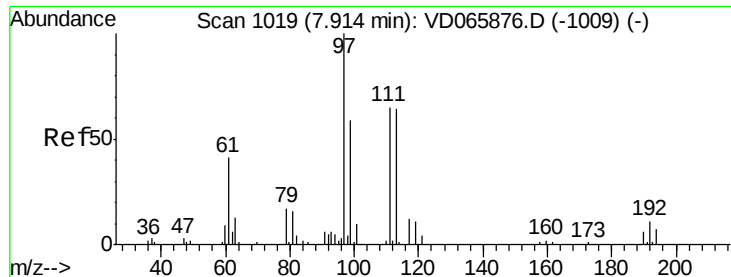
Tot Ion: 65 Resp: 47055
 Ion Ratio Lower Upper
 65 100
 67 49.4 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD065888.D
 Acq: 29 Jun 2020 16:02

Tgt Ion: 114 Resp: 86961
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 42.6
 88 16.8 0.0 29.0

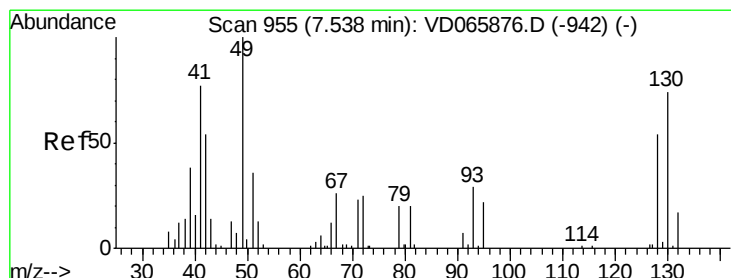
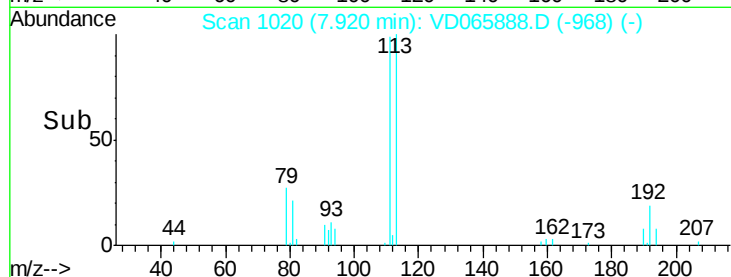
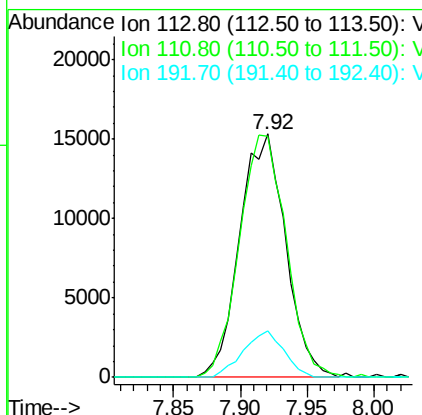
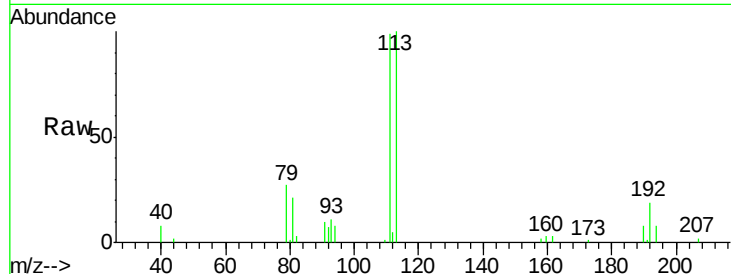




#35
 Dibromofluoromethane
 Concen: 67.997 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD065888.D
 Acq: 29 Jun 2020 16:02

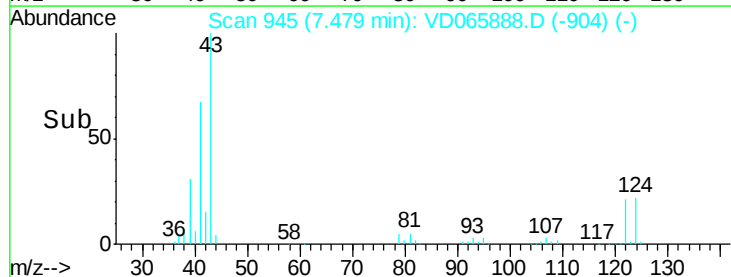
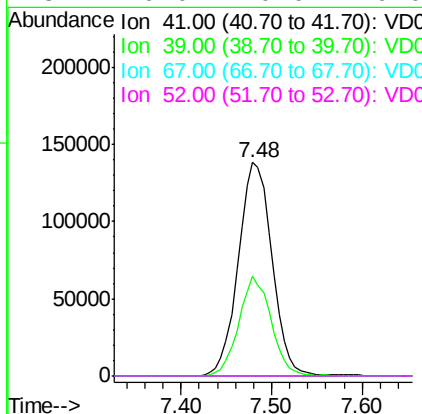
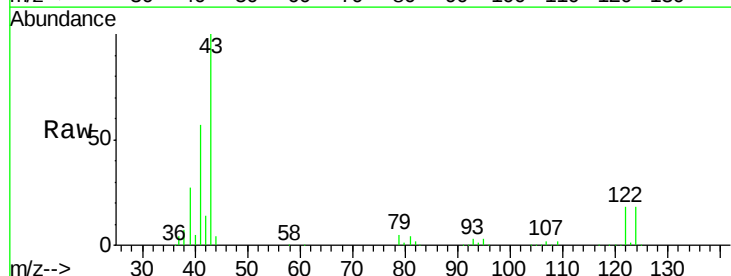
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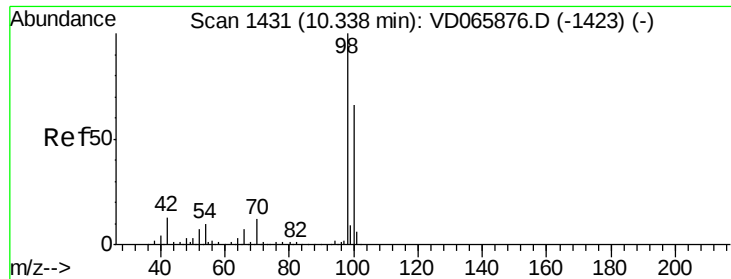
Tot Ion:113 Resp: 36549
 Ion Ratio Lower Upper
 113 100
 111 101.3 81.0 121.6
 192 17.0 15.2 22.8



#41
 Methacrylonitrile
 Concen: 2013.052 ug/l
 RT: 7.48 min Scan# 945
 Delta R.T. -0.06 min
 Lab File: VD065888.D
 Acq: 29 Jun 2020 16:02

Tgt Ion: 41 Resp: 358099
 Ion Ratio Lower Upper
 41 100
 39 44.5 82.7 124.1#
 67 0.0 0.0 0.0
 52 0.0 0.0 0.0

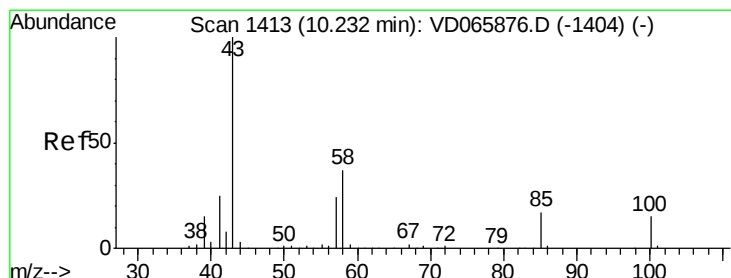
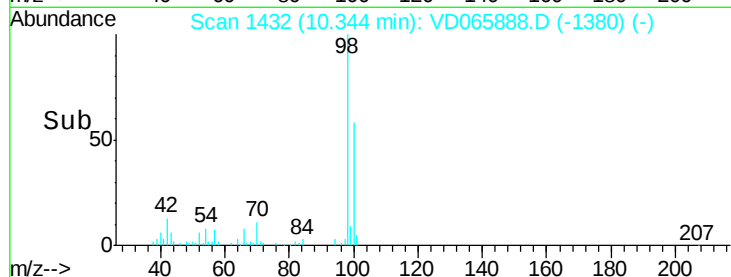
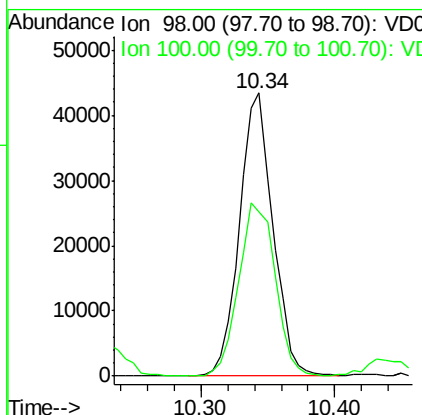
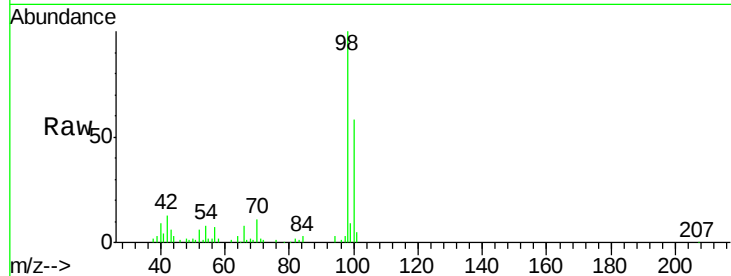




#50
Toluene-d8
Concen: 37.157 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD065888.D
Acq: 29 Jun 2020 16:02

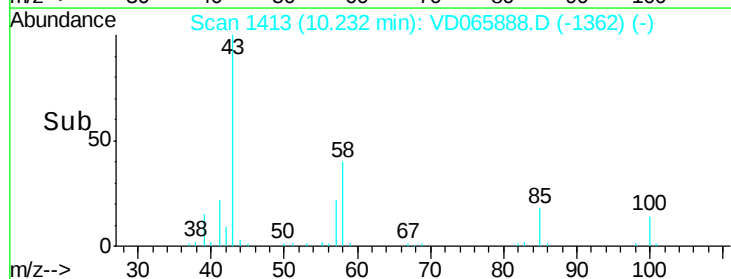
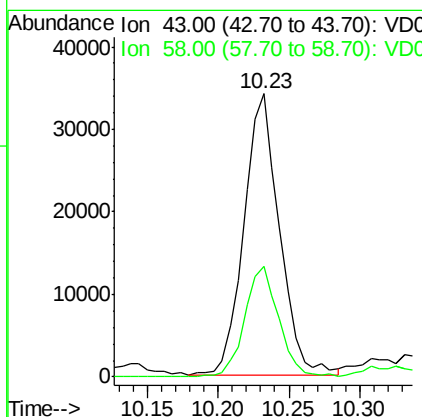
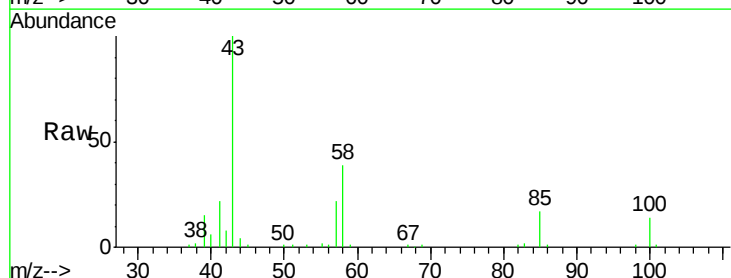
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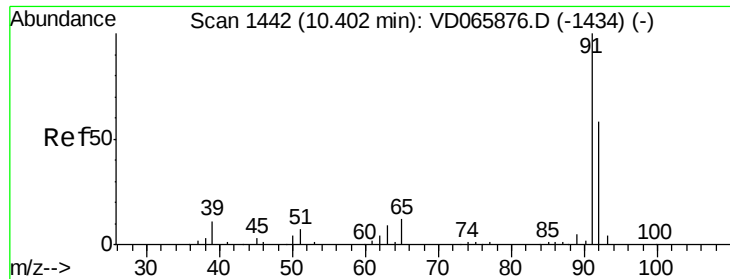
Tot Ion: 98 Resp: 75129
Ion Ratio Lower Upper
98 100
100 66.8 52.3 78.5



#51
4-Methyl-2-Pentanone
Concen: 185.436 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. 0.00 min
Lab File: VD065888.D
Acq: 29 Jun 2020 16:02

Tgt Ion: 43 Resp: 60055
Ion Ratio Lower Upper
43 100
58 37.7 29.5 44.3





#52

Toluene

Concen: 10.624 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.01 min

Lab File: VD065888.D

Acq: 29 Jun 2020 16:02

Instrument :

MSVOA_D

ClientSampleId :

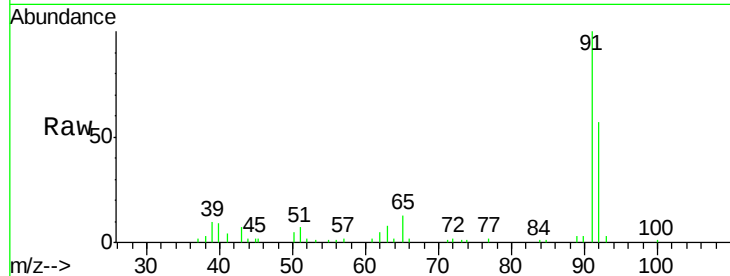
72-11982

Tot Ion: 92 Resp: 16250

Ion Ratio Lower Upper

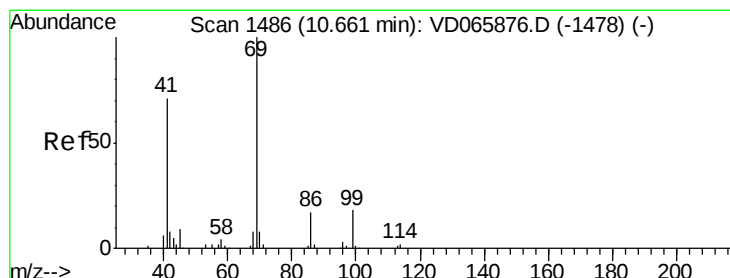
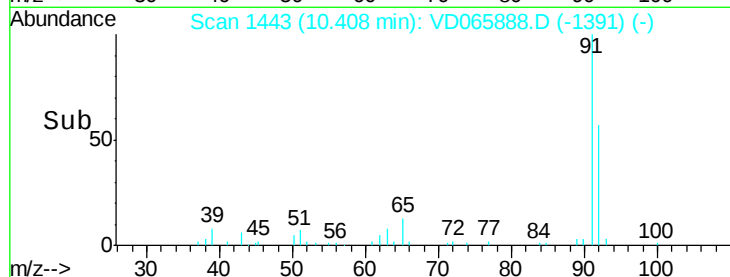
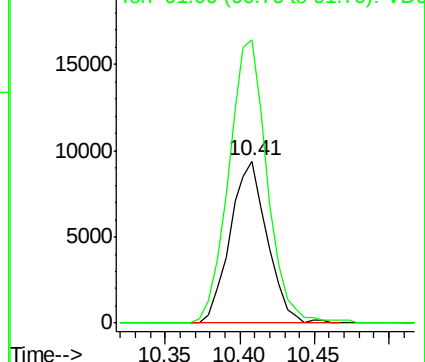
92 100

91 181.3 140.8 211.2



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#56

Ethyl methacrylate

Concen: 48.772 ug/l

RT: 10.61 min Scan# 1477

Delta R.T. -0.05 min

Lab File: VD065888.D

Acq: 29 Jun 2020 16:02

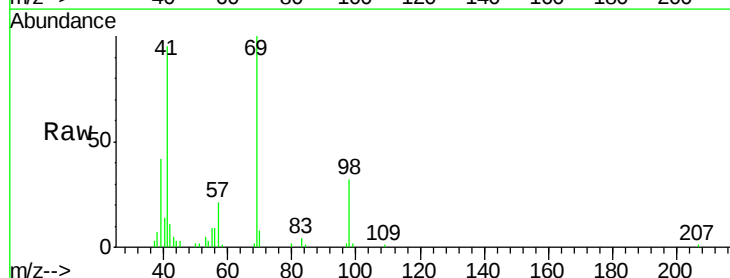
Tgt Ion: 69 Resp: 25071

Ion Ratio Lower Upper

69 100

41 103.8 55.4 83.2#

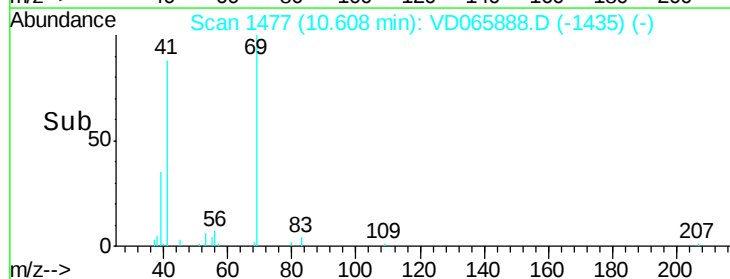
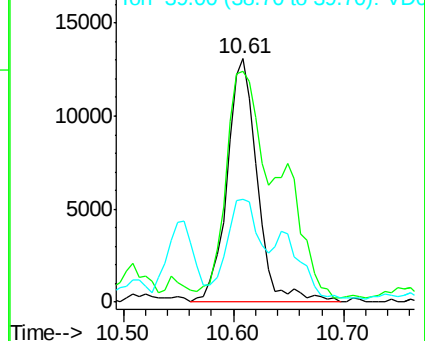
39 43.1 33.0 49.4

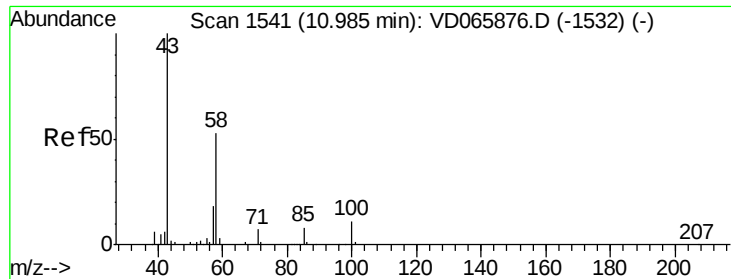


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

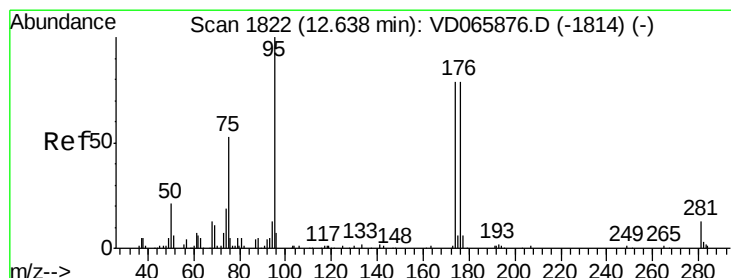
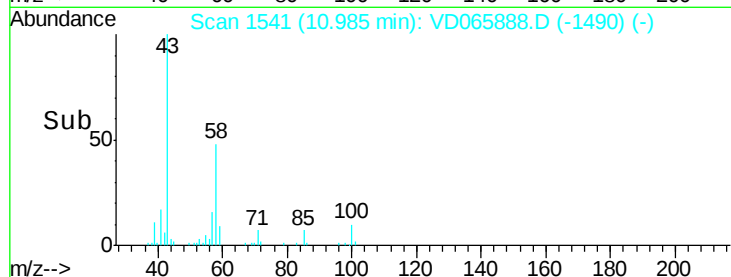
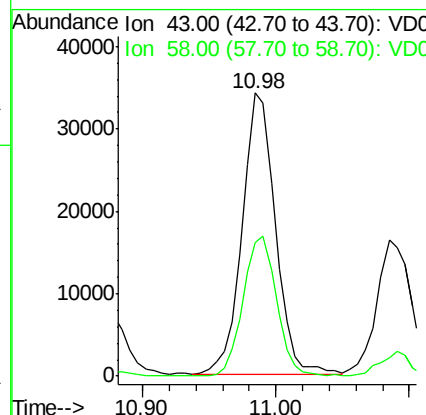
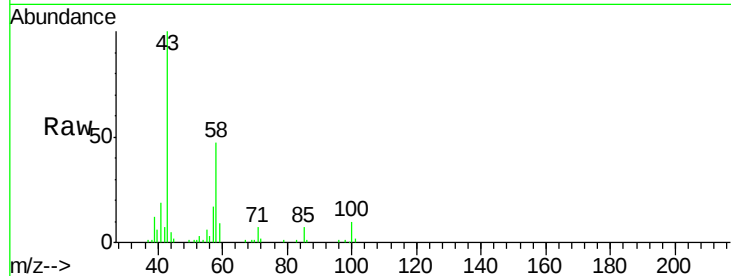




#59
2-Hexanone
Concen: 258.633 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. 0.00 min
Lab File: VD065888.D
Acq: 29 Jun 2020 16:02

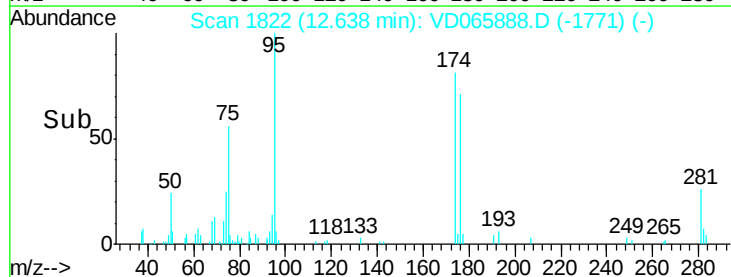
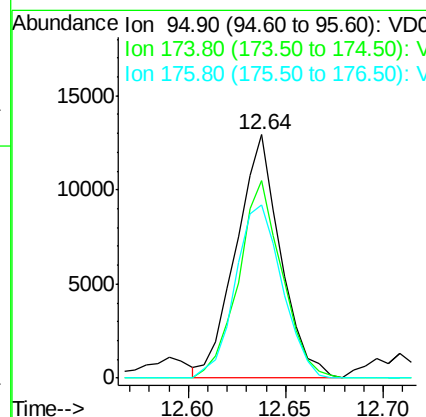
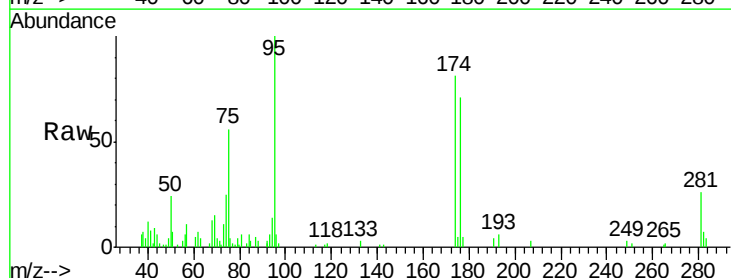
Instrument :
MSVOA_D
ClientSampleId :
72-11982

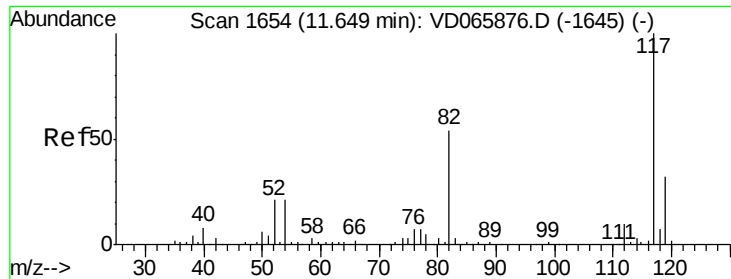
Tot Ion: 43 Resp: 58712
Ion Ratio Lower Upper
43 100
58 50.0 26.1 78.3



#62
4-Bromofluorobenzene
Concen: 30.781 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD065888.D
Acq: 29 Jun 2020 16:02

Tgt Ion: 95 Resp: 20389
Ion Ratio Lower Upper
95 100
174 79.4 0.0 158.4
176 74.8 0.0 156.0

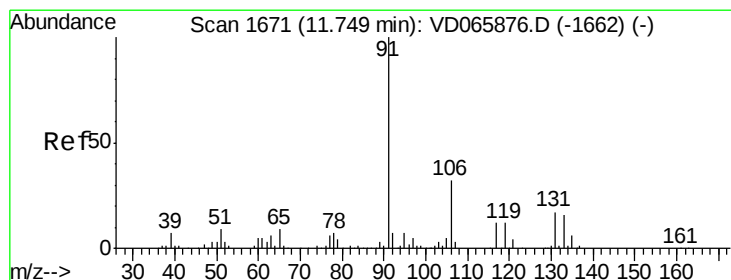
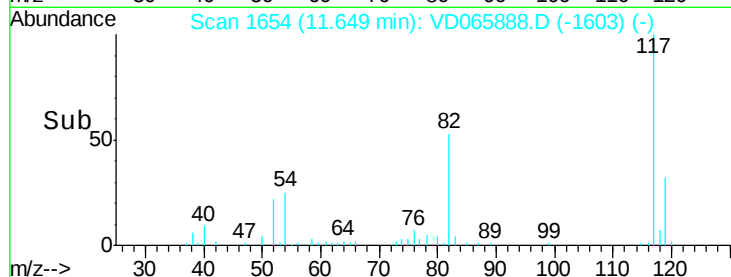
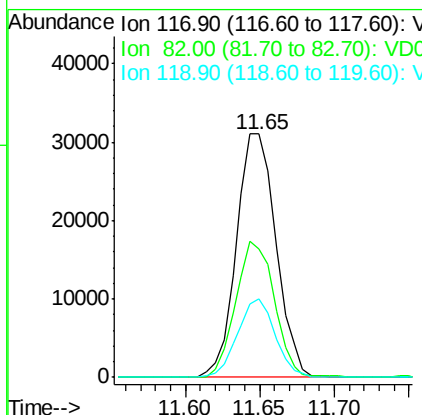
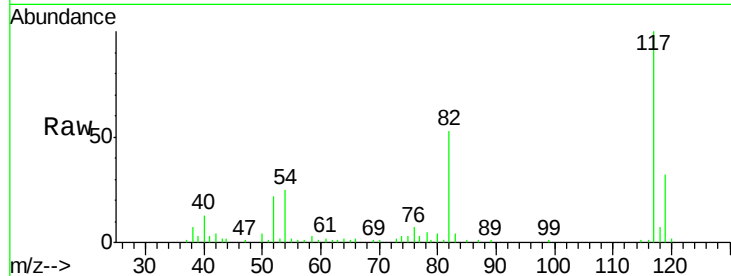




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065888.D
Acq: 29 Jun 2020 16:02

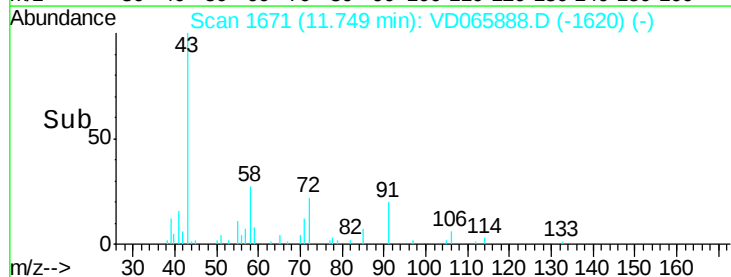
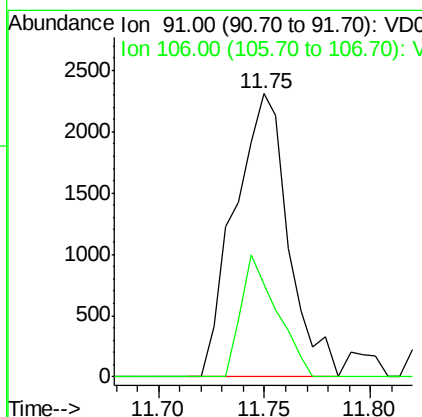
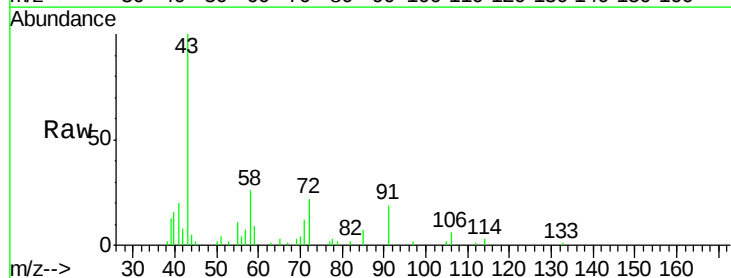
Instrument :
MSVOA_D
ClientSampleId :
72-11982

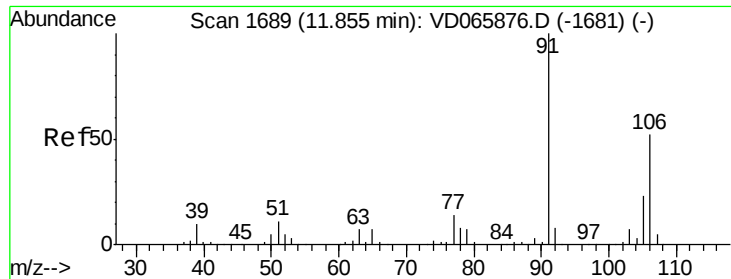
Tot Ion:117 Resp: 57176
Ion Ratio Lower Upper
117 100
82 52.6 43.6 65.4
119 32.3 25.9 38.9



#67
Ethyl Benzene
Concen: 1.940 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD065888.D
Acq: 29 Jun 2020 16:02

Tgt Ion: 91 Resp: 4086
Ion Ratio Lower Upper
91 100
106 32.9 25.3 37.9

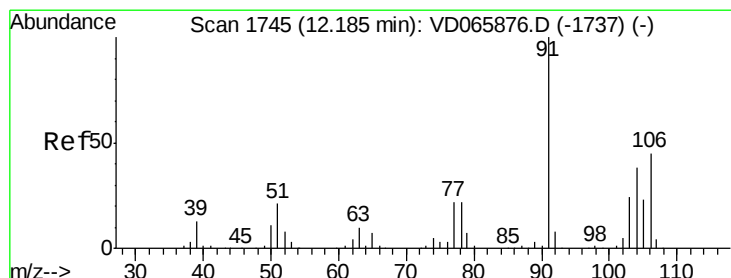
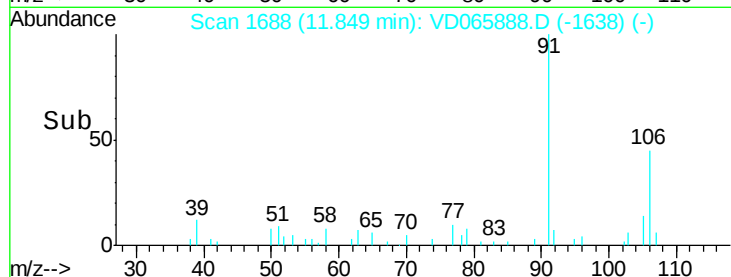
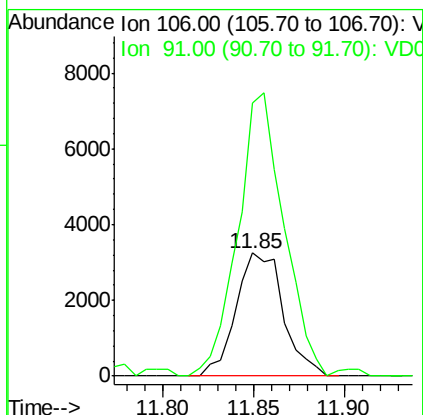
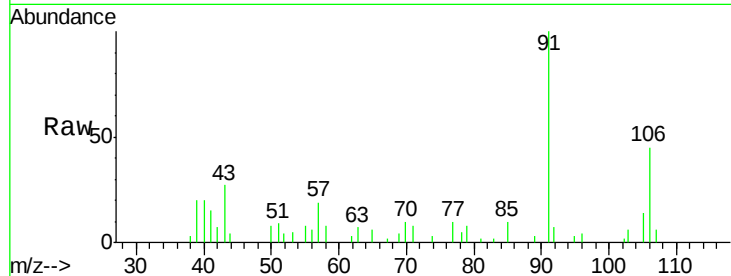




#68
m/p-Xylenes
Concen: 7.344 ug/l
RT: 11.85 min Scan# 1688
Delta R.T. -0.01 min
Lab File: VD065888.D
Acq: 29 Jun 2020 16:02

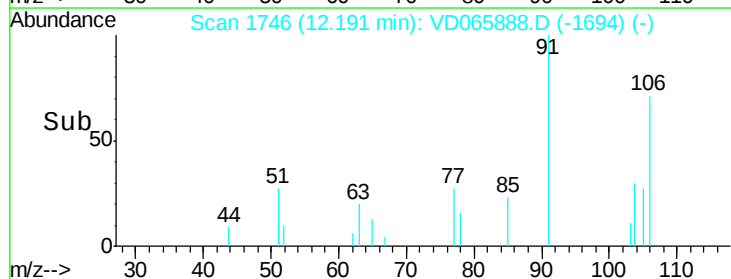
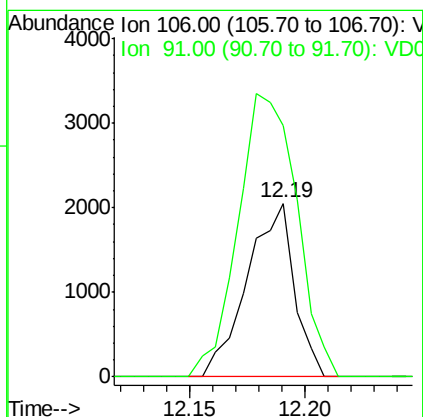
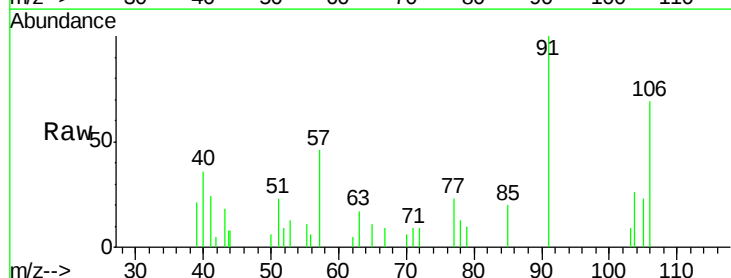
Instrument :
MSVOA_D
ClientSampled :
72-11982

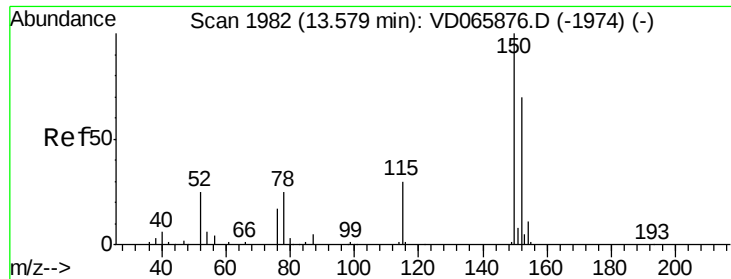
Tot Ion:106 Resp: 5890
Ion Ratio Lower Upper
106 100
91 225.1 159.5 239.3



#69
o-Xylene
Concen: 4.048 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. 0.01 min
Lab File: VD065888.D
Acq: 29 Jun 2020 16:02

Tgt Ion:106 Resp: 2917
Ion Ratio Lower Upper
106 100
91 202.8 107.5 322.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD065888.D

Acq: 29 Jun 2020 16:02

Instrument :

MSVOA_D

ClientSampleId :

72-11982

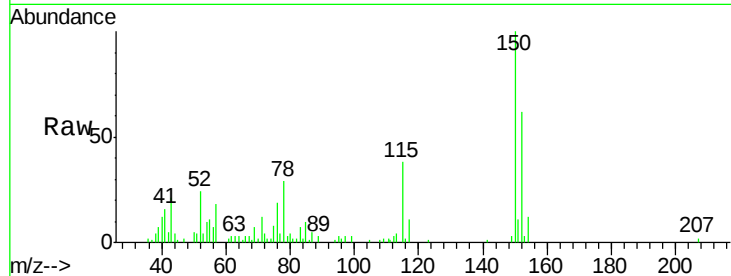
Tot Ion:152 Resp: 16900

Ion Ratio Lower Upper

152 100

115 68.9 29.7 89.1

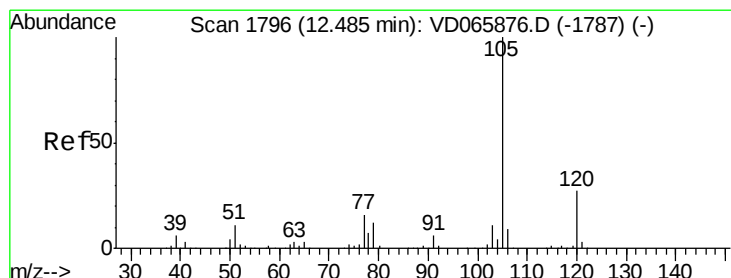
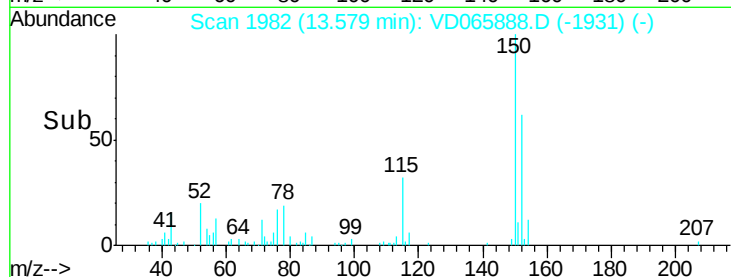
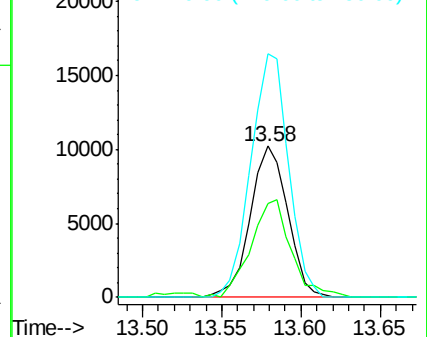
150 160.7 0.0 346.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 2.260 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD065888.D

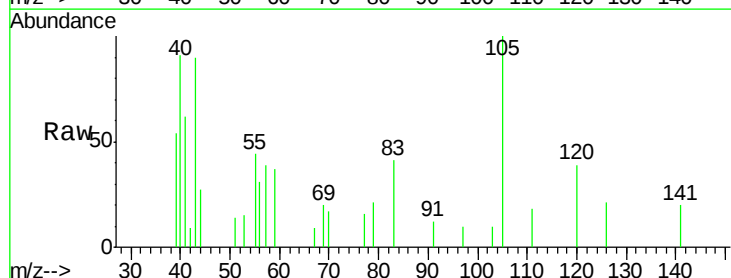
Acq: 29 Jun 2020 16:02

Tgt Ion:105 Resp: 2736

Ion Ratio Lower Upper

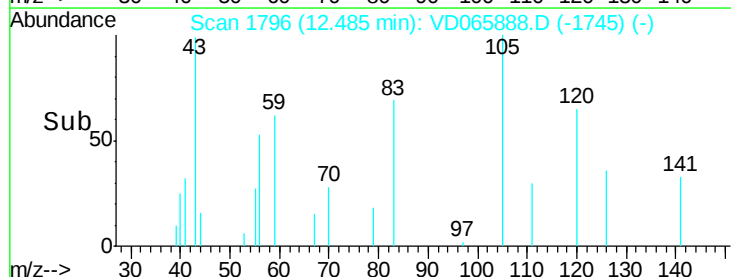
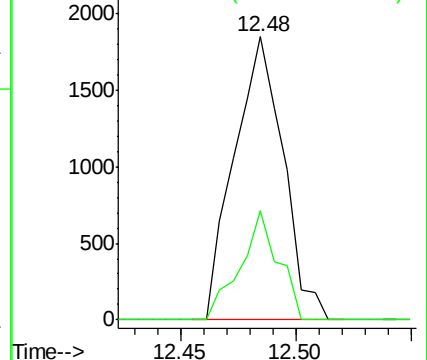
105 100

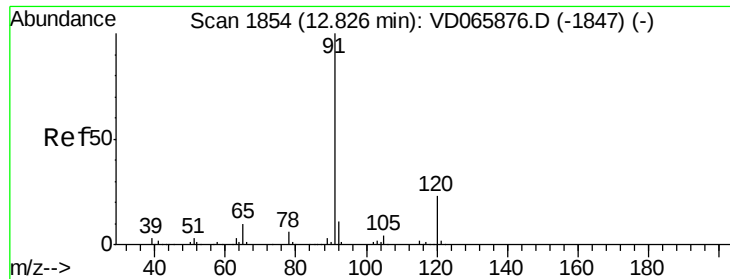
120 30.0 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 2.744 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD065888.D

Acq: 29 Jun 2020 16:02

Instrument :

MSVOA_D

ClientSampleId :

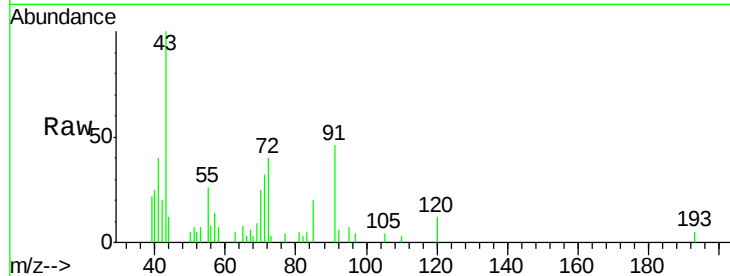
72-11982

Tot Ion: 91 Resp: 4002

Ion Ratio Lower Upper

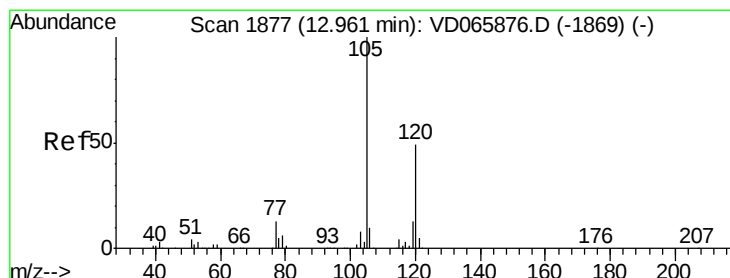
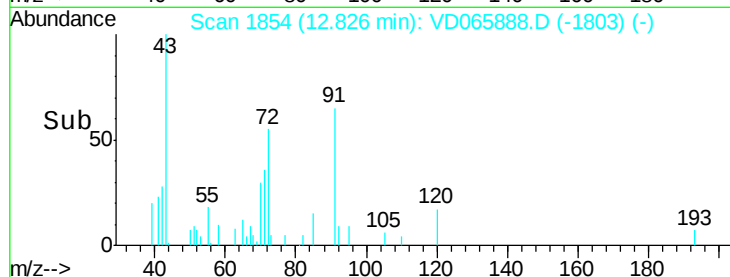
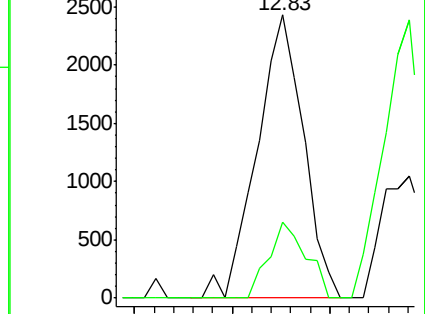
91 100

120 21.6 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 10.460 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.01 min

Lab File: VD065888.D

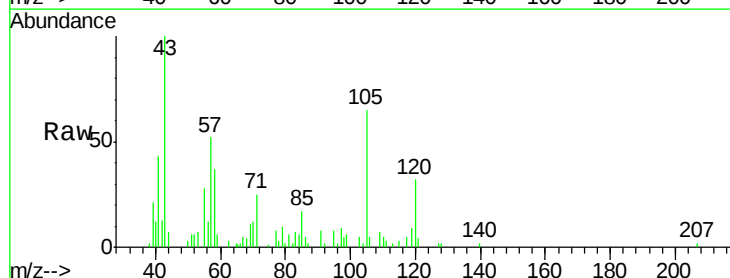
Acq: 29 Jun 2020 16:02

Tgt Ion: 105 Resp: 10584

Ion Ratio Lower Upper

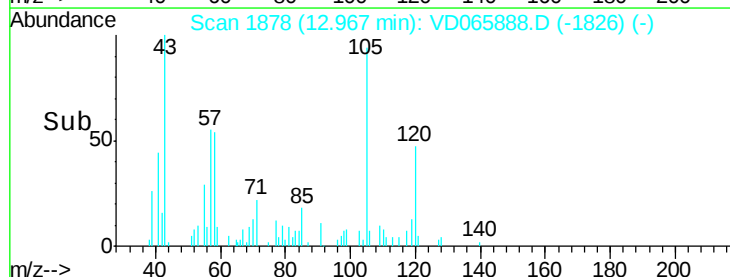
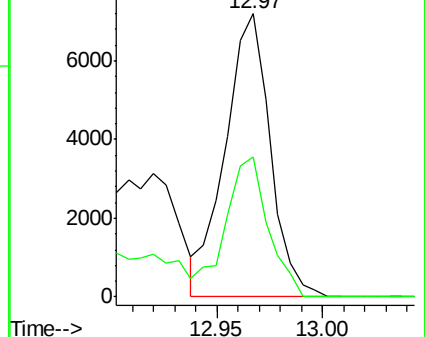
105 100

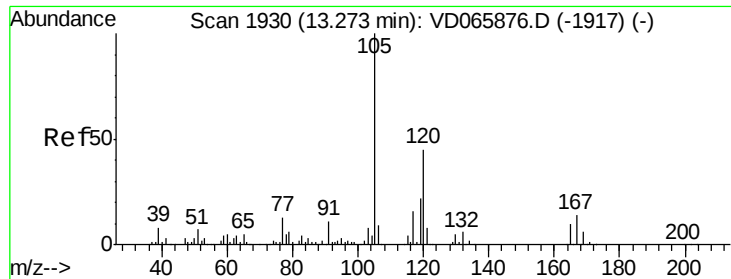
120 46.9 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

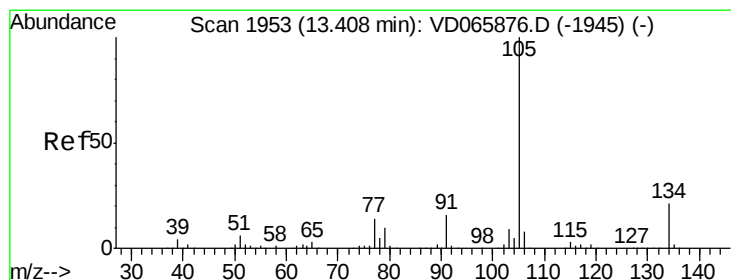
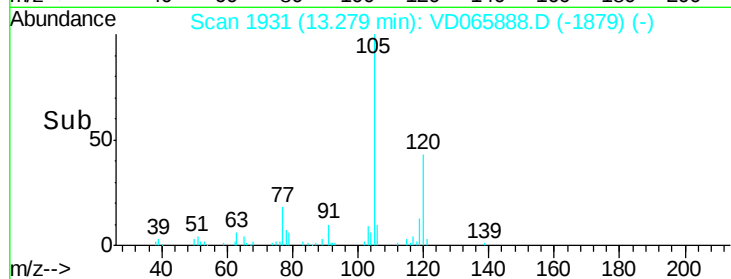
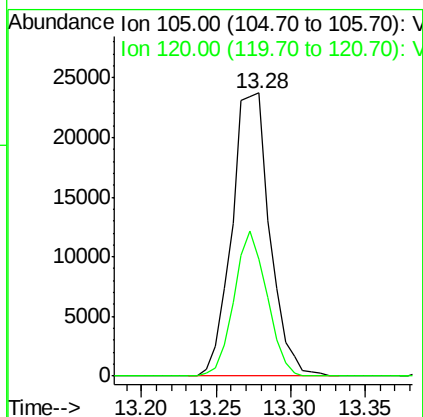
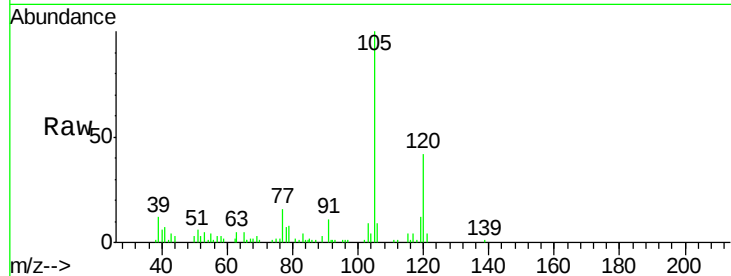




#84
 1,2,4-Trimethylbenzene
 Concen: 42.292 ug/l
 RT: 13.28 min Scan# 1931
 Delta R.T. 0.01 min
 Lab File: VD065888.D
 Acq: 29 Jun 2020 16:02

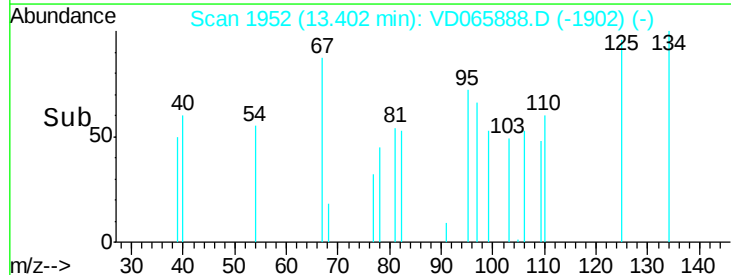
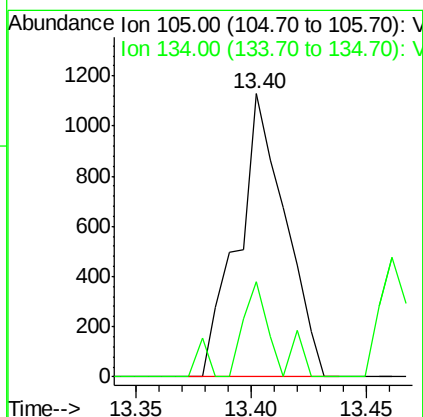
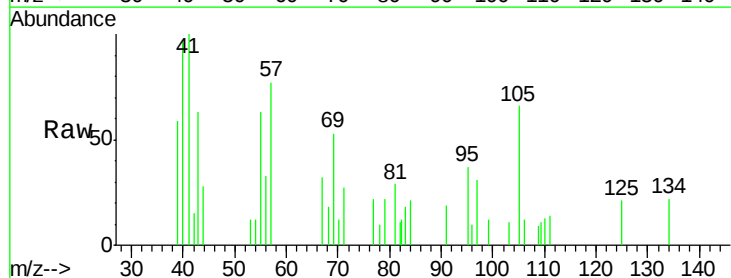
Instrument :
 MSVOA_D
 ClientSampleId :
 72-11982

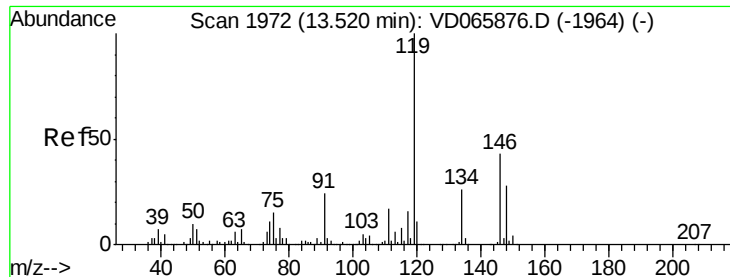
Tot Ion:105 Resp: 42155
 Ion Ratio Lower Upper
 105 100
 120 44.2 23.0 69.0



#85
 sec-Butylbenzene
 Concen: 1.328 ug/l
 RT: 13.40 min Scan# 1952
 Delta R.T. -0.01 min
 Lab File: VD065888.D
 Acq: 29 Jun 2020 16:02

Tgt Ion:105 Resp: 1612
 Ion Ratio Lower Upper
 105 100
 134 16.9 10.0 29.8

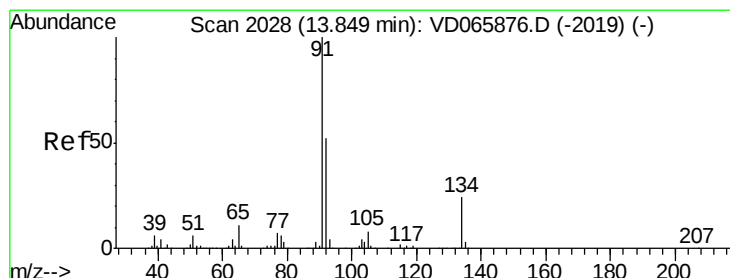
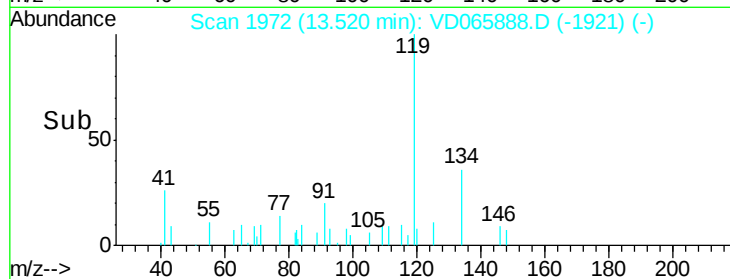
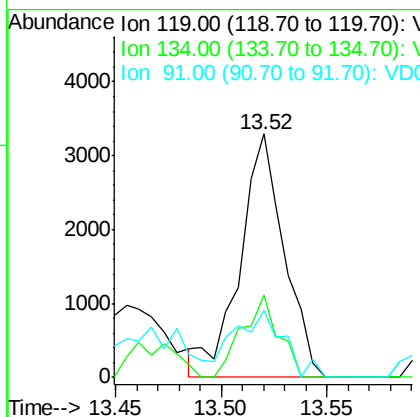
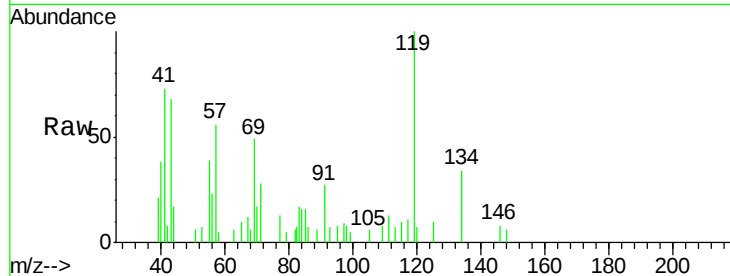




#86
p-Isopropyltoluene
Concen: 4.345 ug/l
RT: 13.52 min Scan# 1972
Delta R.T. 0.00 min
Lab File: VD065888.D
Acq: 29 Jun 2020 16:02

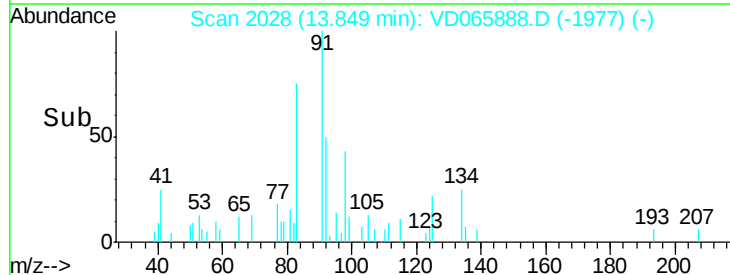
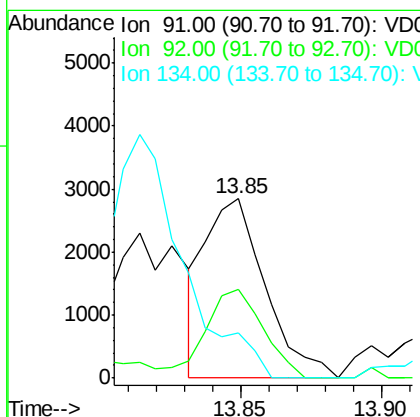
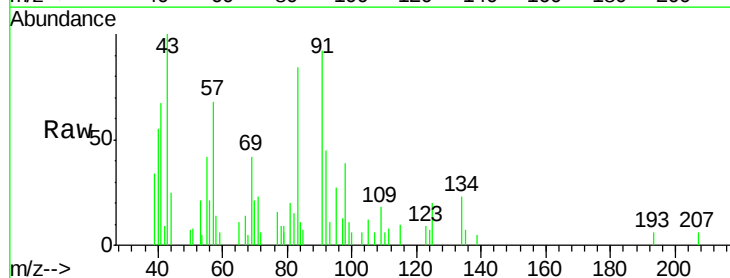
Instrument :
MSVOA_D
ClientSampleId :
72-11982

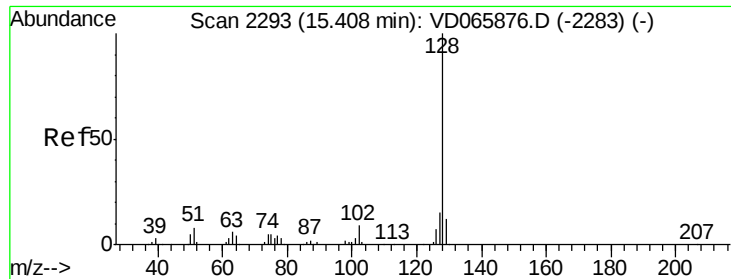
Tot Ion:119 Resp: 4789
Ion Ratio Lower Upper
119 100
134 27.6 13.4 40.1
91 30.3 12.0 36.1



#89
n-Butylbenzene
Concen: 3.894 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.00 min
Lab File: VD065888.D
Acq: 29 Jun 2020 16:02

Tgt Ion: 91 Resp: 4185
Ion Ratio Lower Upper
91 100
92 48.4 26.5 79.4
134 0.0 12.4 37.2#





#95

Naphthalene

Concen: 47.496 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VD065888.D

Acq: 29 Jun 2020 16:02

Instrument :

MSVOA_D

ClientSampleId :

72-11982

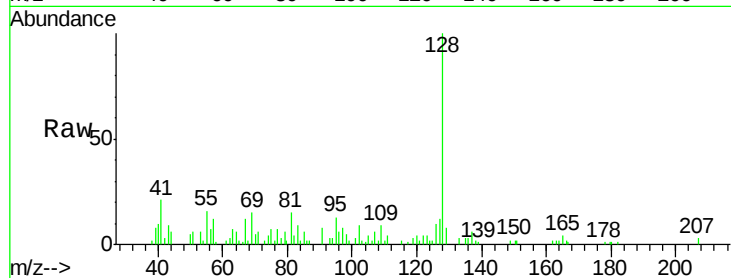
Tot Ion:128 Resp: 25041

Ion Ratio Lower Upper

128 100

127 14.6 10.8 16.2

129 13.8 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

