

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072820\
 Data File : VD066077.D
 Acq On : 28 Jul 2020 13:49
 Operator : VA/SY
 Sample : L3181-06
 Misc : 8.39G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 29 01:34:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072120S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 12:34:13 2020
 Response via : Initial Calibration

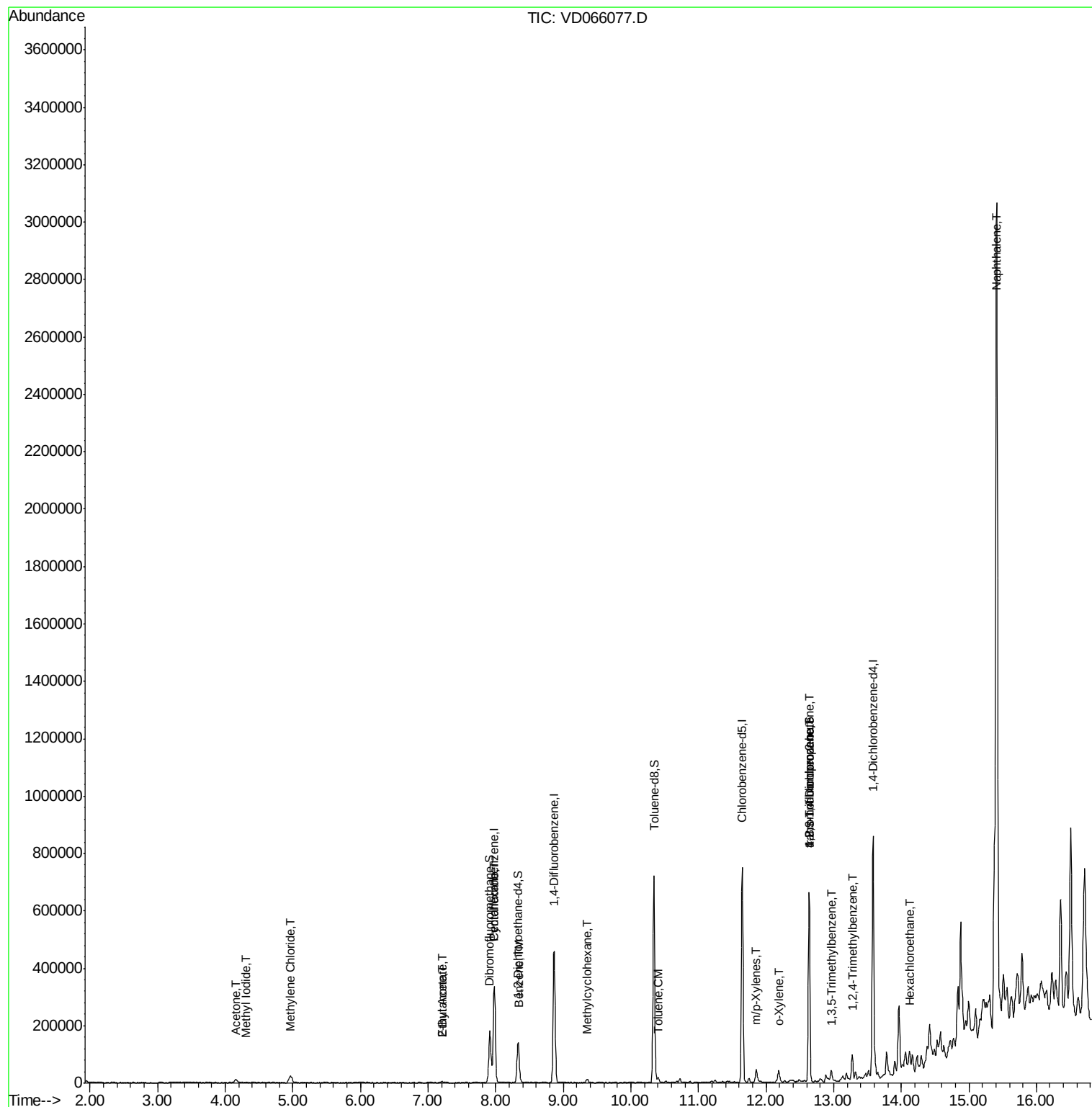
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	264498	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	410543	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	440084	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	233653	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	111336	51.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.46%	
35) Dibromofluoromethane	7.91	113	125256	50.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.60%	
50) Toluene-d8	10.34	98	501926	54.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.22%	
62) 4-Bromofluorobenzene	12.64	95	206469	64.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	128.38%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.79	94	63	Below Cal		97
10) Methyl Iodide	4.30	142	201	8.884 ug/l #		42
11) Tert butyl alcohol	5.21	59	55	Below Cal #		83
16) Acetone	4.16	43	21172	48.600 ug/l		91
20) Methylene Chloride	4.96	84	19005	5.235 ug/l		98
25) 2-Butanone	7.21	43	5147	8.904 ug/l #		88
31) Cyclohexane	7.98	56	7073	1.827 ug/l #		53
37) Ethyl Acetate	7.21	43	5147	3.846 ug/l #		71
39) Methylcyclohexane	9.36	83	4983	1.174 ug/l		93
40) Benzene	8.35	78	13917	1.420 ug/l		96
52) Toluene	10.40	92	6645	1.039 ug/l		88
68) m/p-Xylenes	11.86	106	14142	2.653 ug/l		98
69) o-Xylene	12.18	106	9204	1.899 ug/l		85
76) 1,2,3-Trichloropropane	12.64	75	104727	59.528 ug/l #		100
80) 1,3,5-Trimethylbenzene	12.97	105	14389	1.239 ug/l		99
81) trans-1,4-Dichloro-2-buten	12.64	75	104727	136.596 ug/l #		11
84) 1,2,4-Trimethylbenzene	13.28	105	49296	4.302 ug/l		94
90) Hexachloroethane	14.13	117	3230	1.227 ug/l #		15
95) Naphthalene	15.41	128	2694316	340.891 ug/l		99

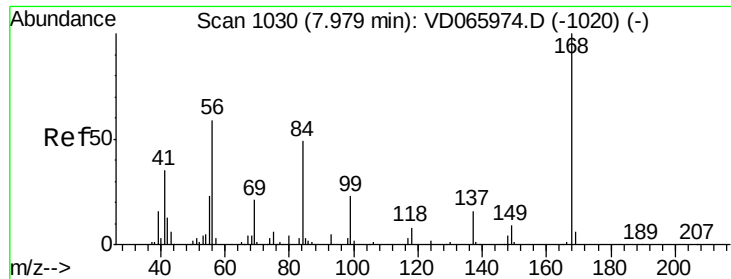
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 21 12:34:13 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD066077.D

Acq: 28 Jul 2020 13:49

Instrument :

MSVOA_D

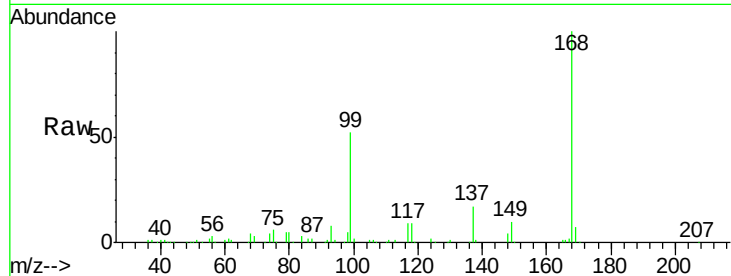
ClientSampleId :

Tot Ion:168 Resp: 264498

Ion Ratio Lower Upper

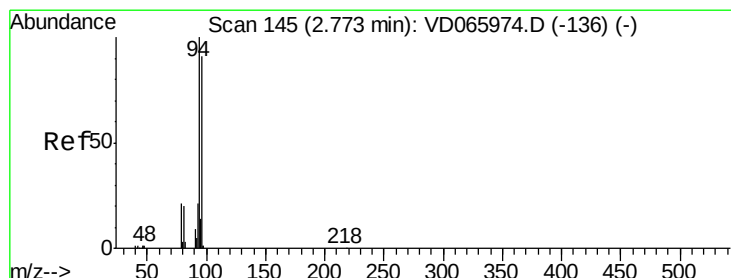
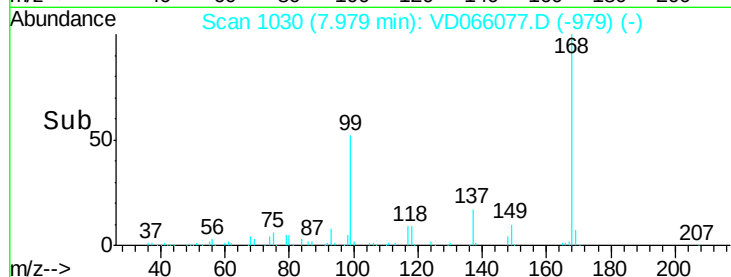
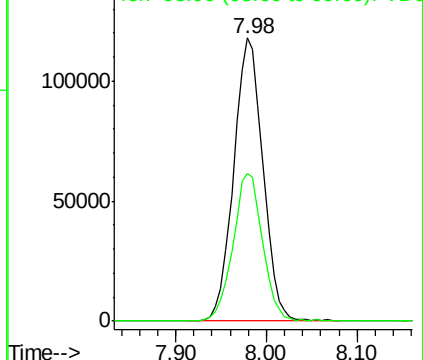
168 100

99 52.2 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD066077.D

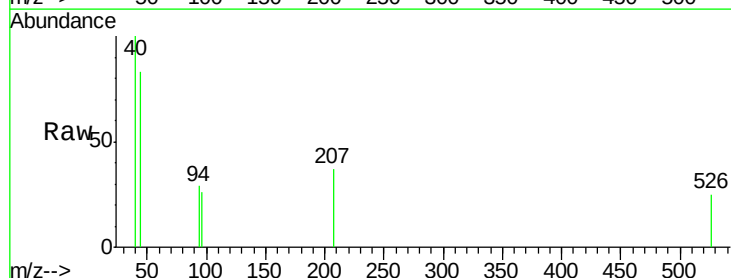
Acq: 28 Jul 2020 13:49

Tgt Ion: 94 Resp: 63

Ion Ratio Lower Upper

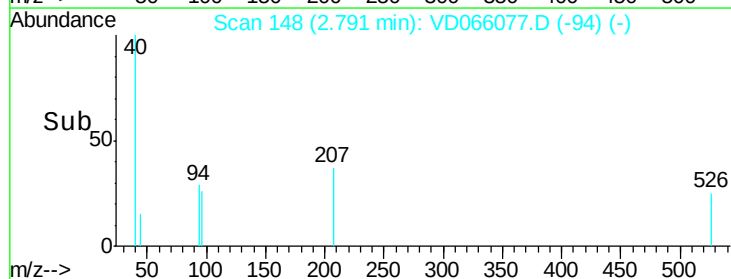
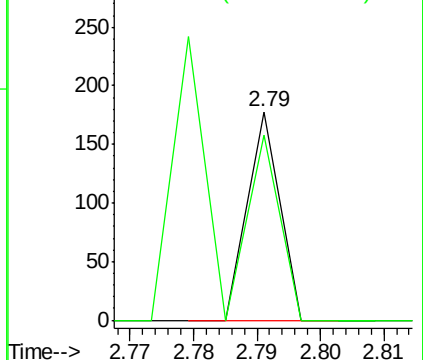
94 100

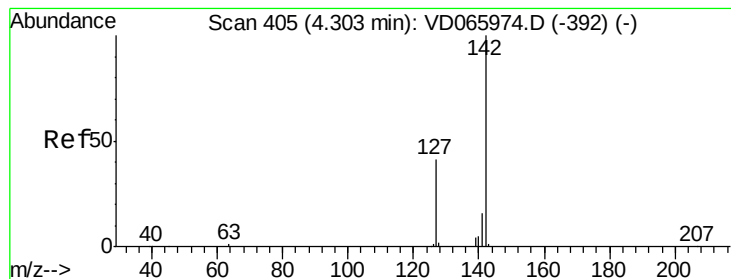
96 88.8 73.0 109.4



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#10

Methyl Iodide

Concen: 8.884 ug/l

RT: 4.30 min Scan# 405

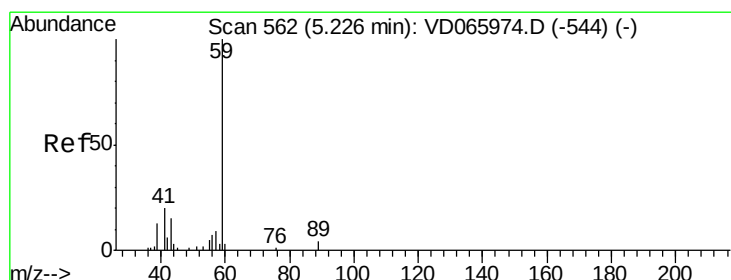
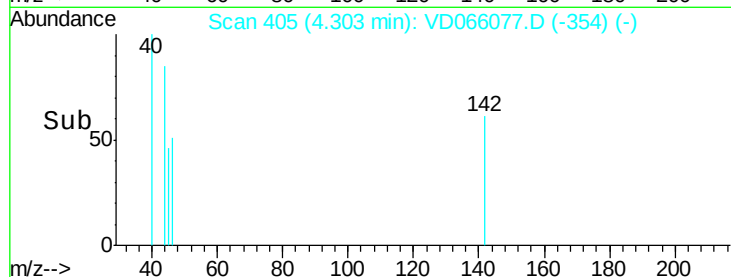
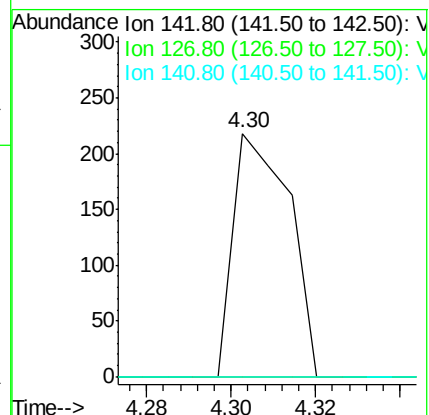
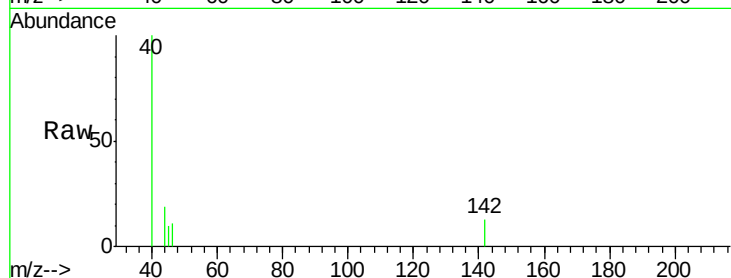
Delta R.T. 0.00 min

Lab File: VD066077.D

Acq: 28 Jul 2020 13:49

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:	142	Resp:	201
Ion	Ratio	Lower	Upper
142	100		
127	0.0	32.9	49.3#
141	0.0	11.8	17.6#



#11

Tert butyl alcohol

Concen: Below Cal

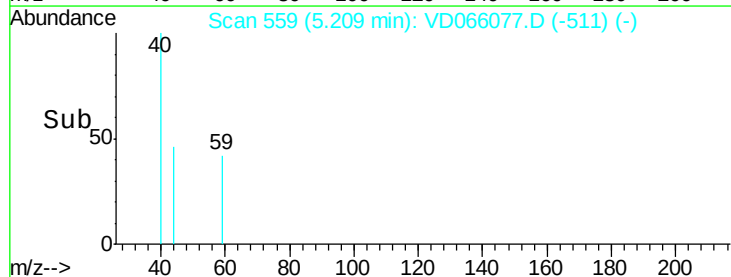
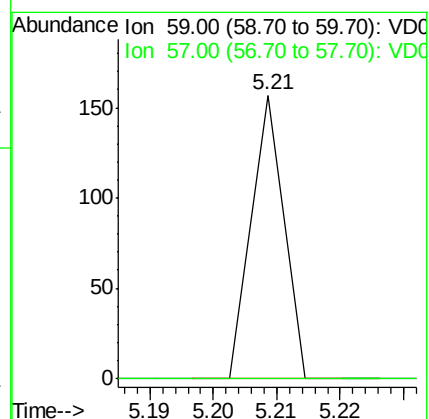
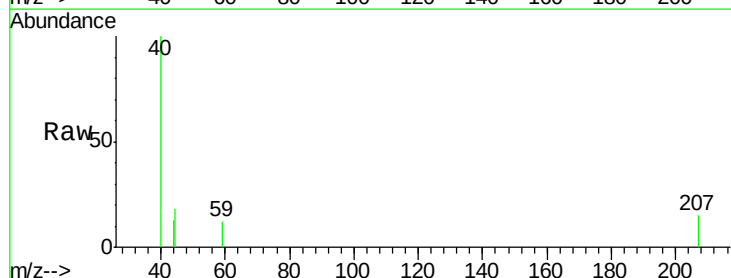
RT: 5.21 min Scan# 559

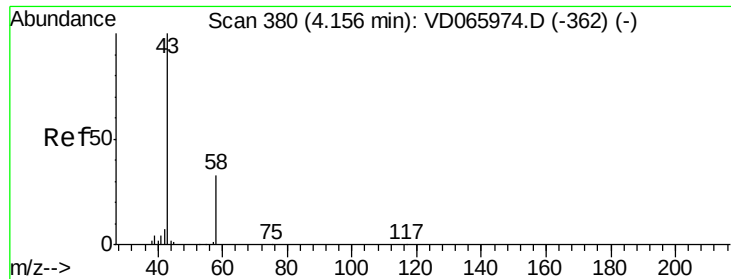
Delta R.T. -0.02 min

Lab File: VD066077.D

Acq: 28 Jul 2020 13:49

Tgt Ion:	59	Resp:	55
Ion	Ratio	Lower	Upper
59	100		
57	0.0	4.5	6.7#





#16

Acetone

Concen: 48.600 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.00 min

Lab File: VD066077.D

Acq: 28 Jul 2020 13:49

Instrument :

MSVOA_D

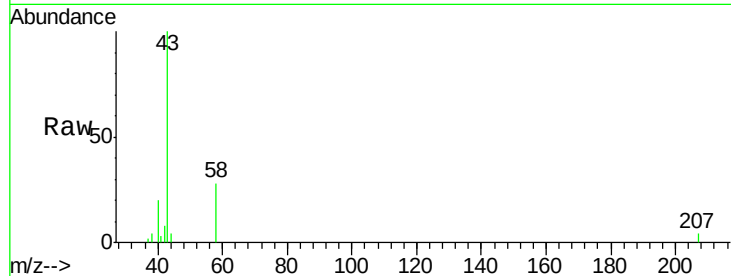
ClientSampleId :

Tot Ion: 43 Resp: 21172

Ion Ratio Lower Upper

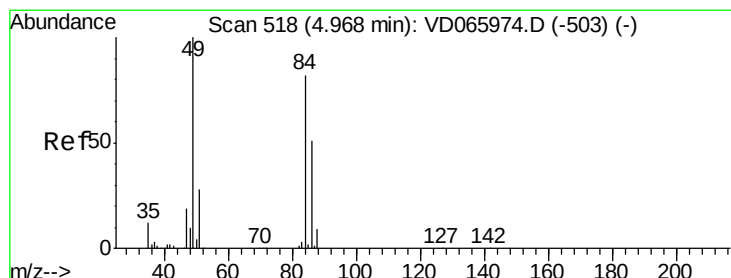
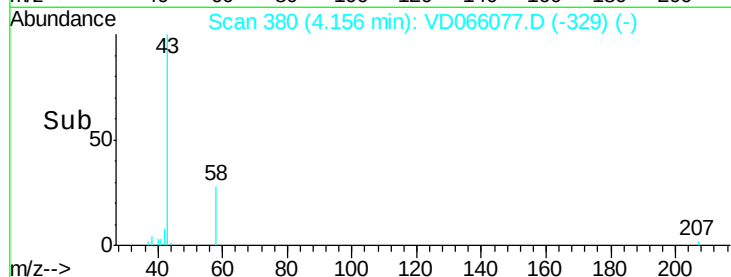
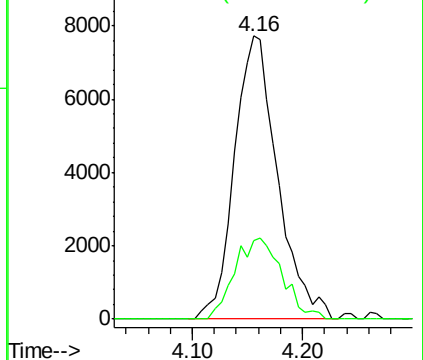
43 100

58 27.7 26.3 39.5



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: 5.235 ug/l

RT: 4.96 min Scan# 517

Delta R.T. -0.01 min

Lab File: VD066077.D

Acq: 28 Jul 2020 13:49

Tgt Ion: 84 Resp: 19005

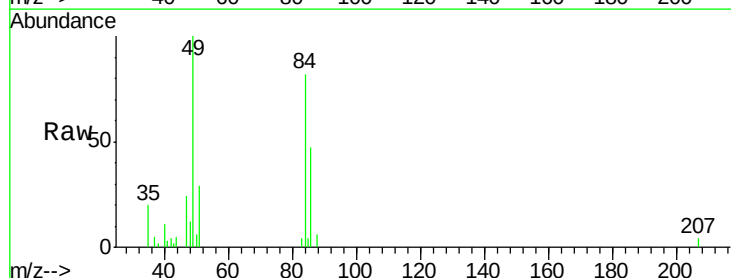
Ion Ratio Lower Upper

84 100

49 122.5 97.7 146.5

51 35.7 27.4 41.2

86 58.0 49.4 74.2

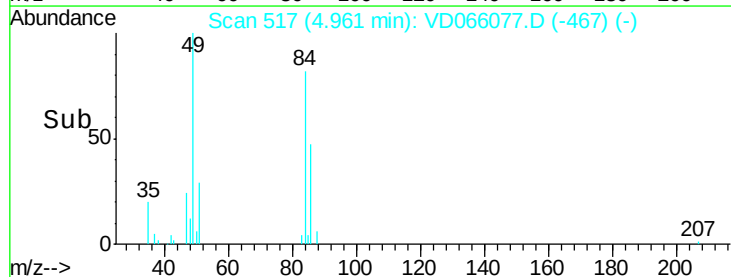
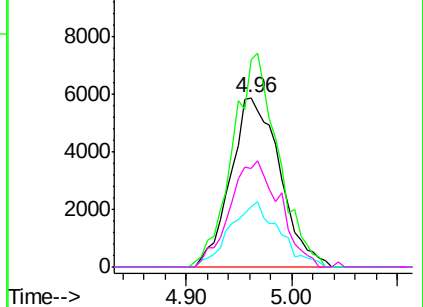


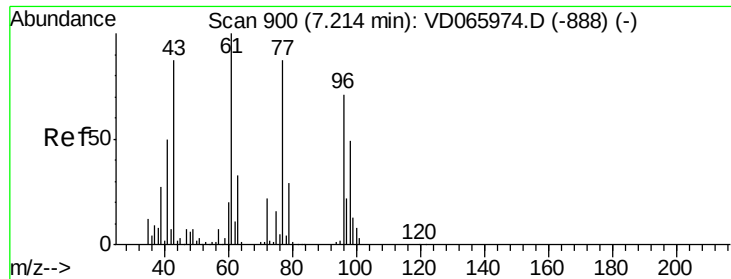
Abundance Ion 83.90 (83.60 to 84.60): VDC

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





#25

2-Butanone

Concen: 8.904 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD066077.D

Acq: 28 Jul 2020 13:49

Instrument :

MSVOA_D

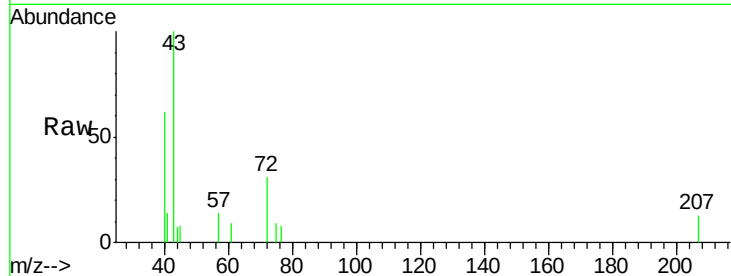
ClientSampleId :

Tot Ion: 43 Resp: 5147

Ion Ratio Lower Upper

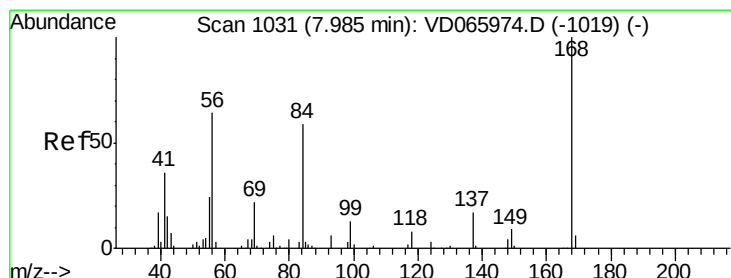
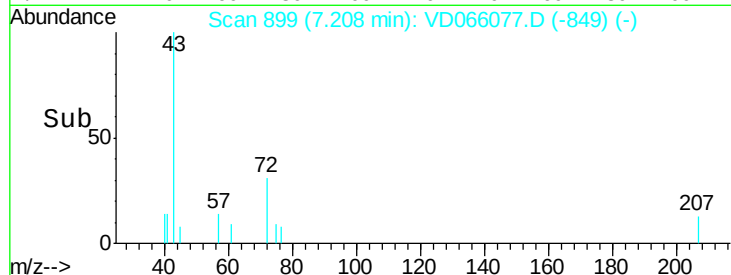
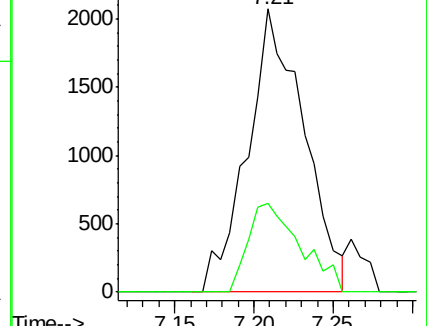
43 100

72 31.3 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 1.827 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD066077.D

Acq: 28 Jul 2020 13:49

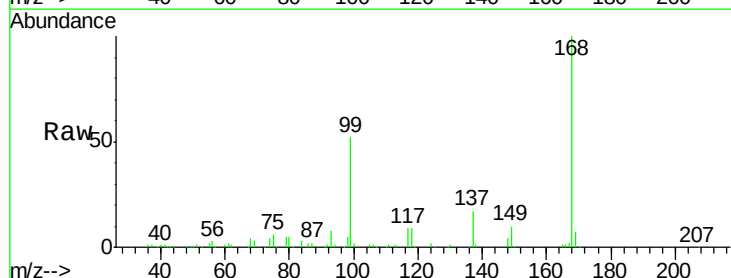
Tgt Ion: 56 Resp: 7073

Ion Ratio Lower Upper

56 100

69 118.0 28.0 42.0#

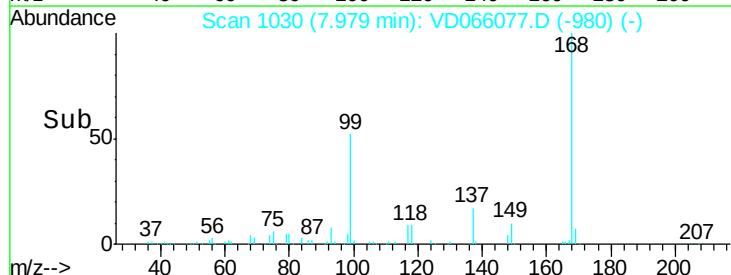
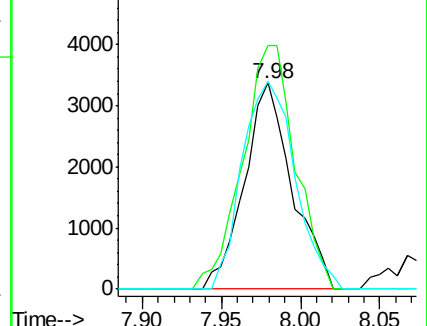
84 100.4 72.6 109.0

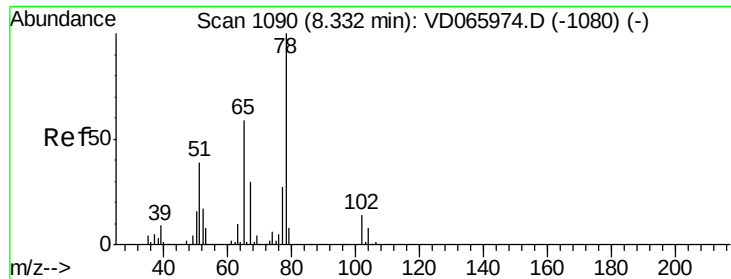


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

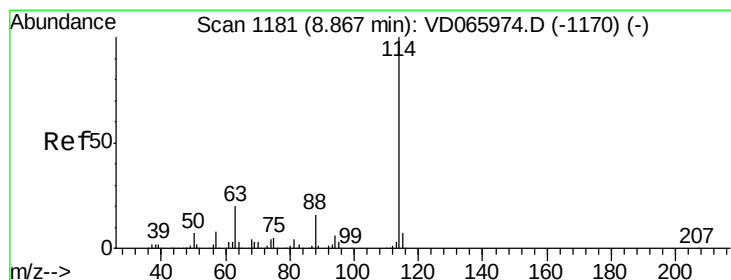
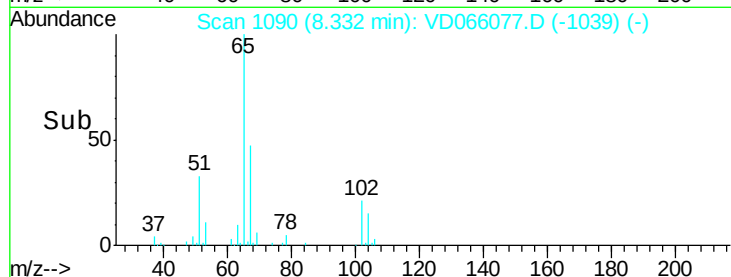
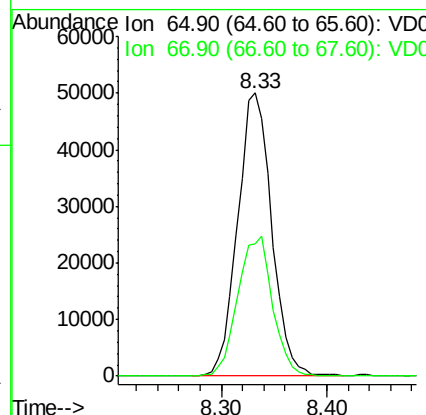
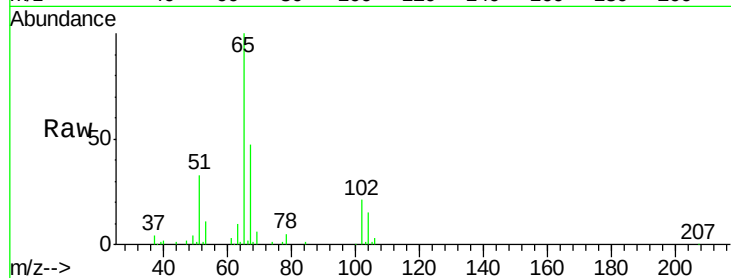




#33
 1,2-Dichloroethane-d4
 Concen: 51.731 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.00 min
 Lab File: VD066077.D
 Acq: 28 Jul 2020 13:49

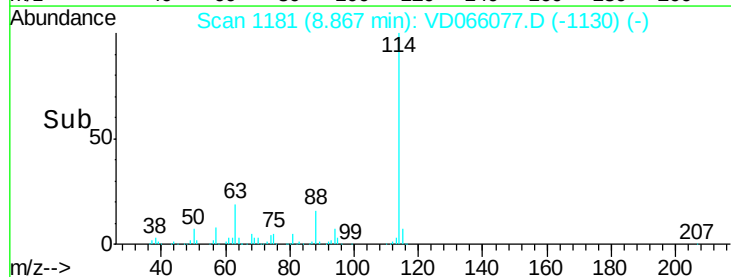
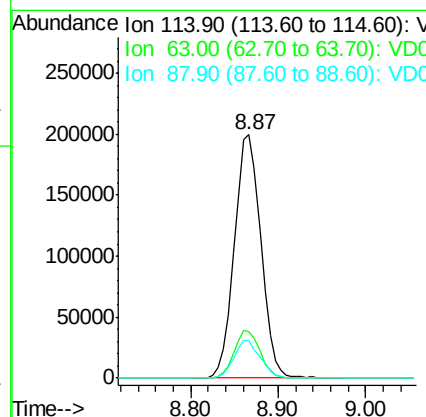
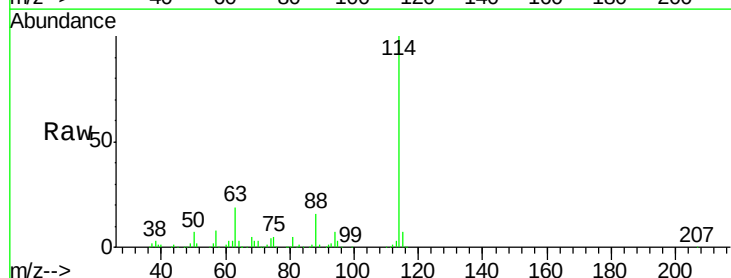
Instrument :
 MSVOA_D
 ClientSampled :

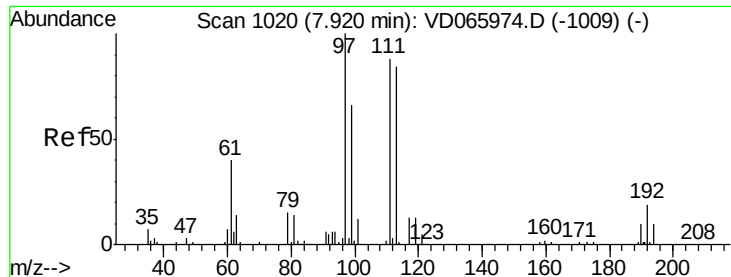
Tot Ion: 65 Resp: 111336
 Ion Ratio Lower Upper
 65 100
 67 50.5 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD066077.D
 Acq: 28 Jul 2020 13:49

Tgt Ion: 114 Resp: 410543
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 39.6
 88 15.6 0.0 31.2





#35

Dibromofluoromethane

Concen: 50.302 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.01 min

Lab File: VD066077.D

Acq: 28 Jul 2020 13:49

Instrument :
MSVOA_D
ClientSampleId :

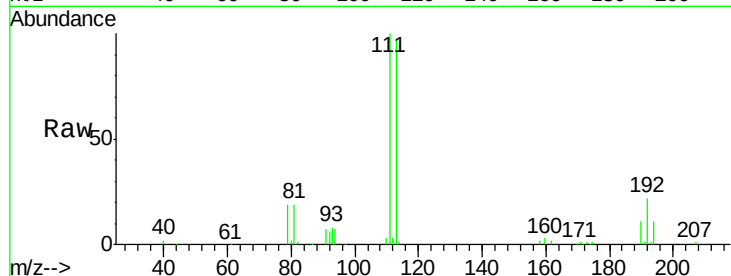
Tot Ion:113 Resp: 125256

Ion Ratio Lower Upper

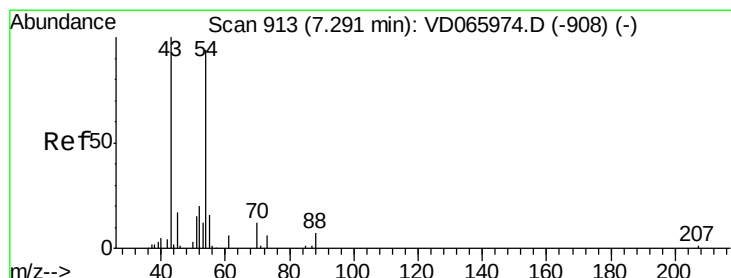
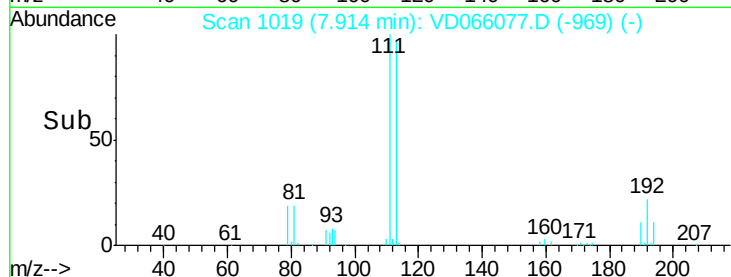
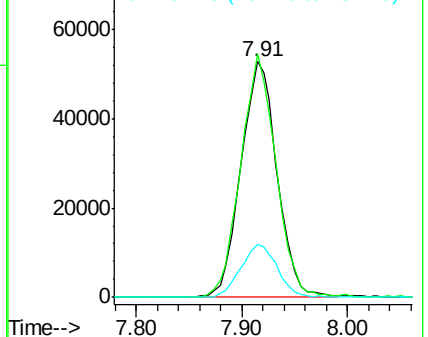
113 100

111 100.7 83.2 124.8

192 22.8 18.7 28.1



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#37

Ethyl Acetate

Concen: 3.846 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.08 min

Lab File: VD066077.D

Acq: 28 Jul 2020 13:49

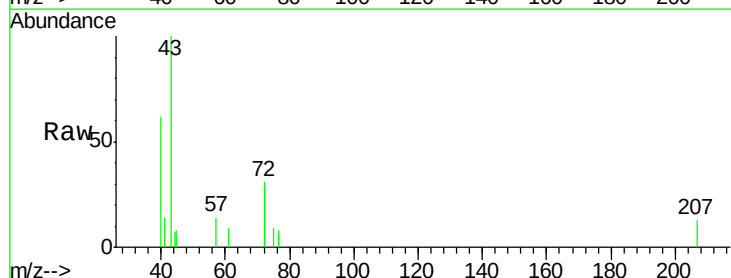
Tgt Ion: 43 Resp: 5147

Ion Ratio Lower Upper

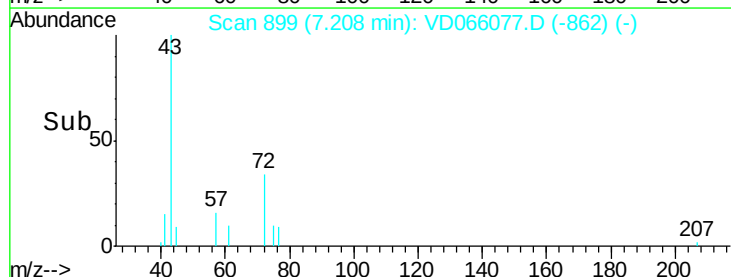
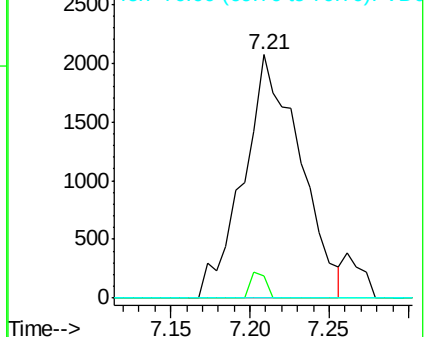
43 100

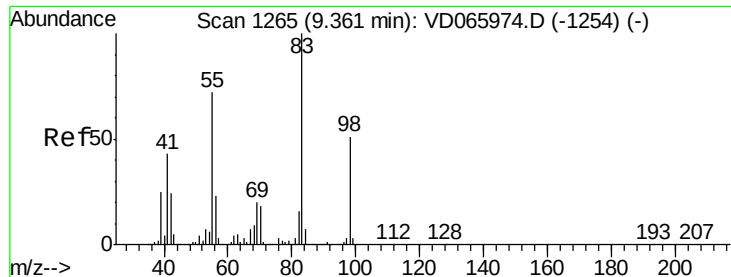
61 2.8 11.4 17.0#

70 0.0 9.3 13.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC

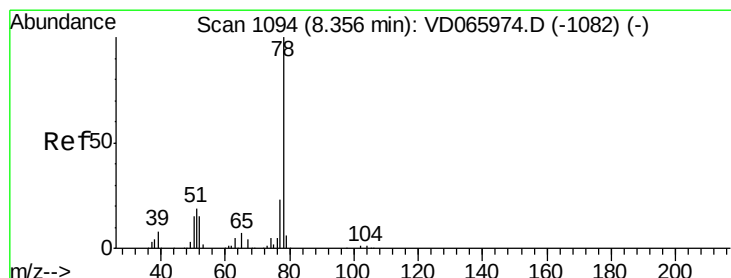
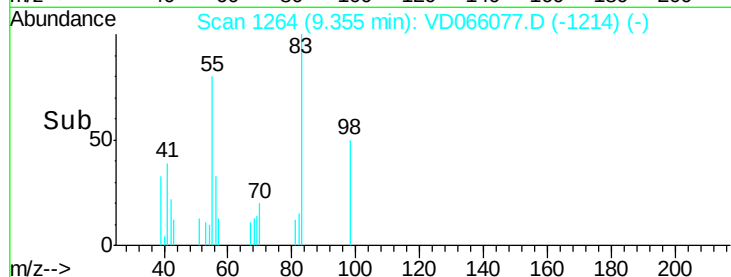
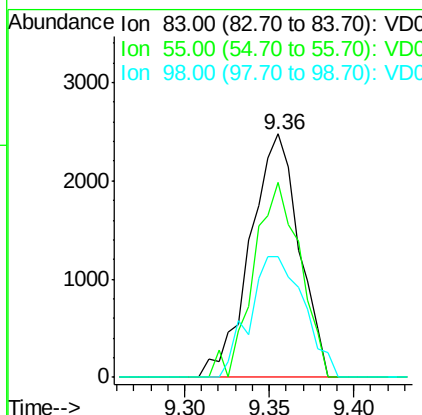
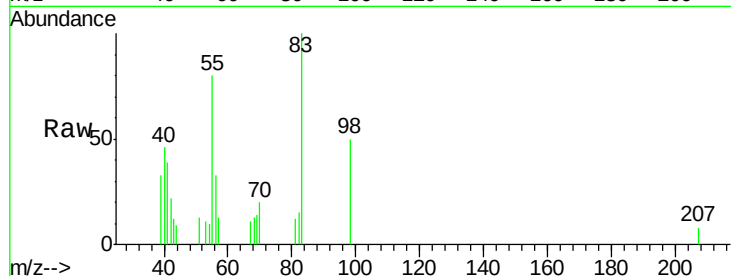




#39
Methylvlcyclohexane
Concen: 1.174 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VD066077.D
Acq: 28 Jul 2020 13:49

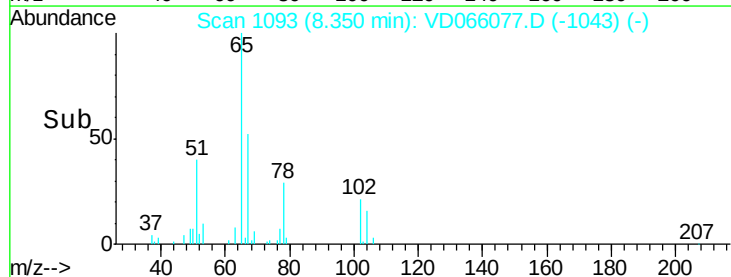
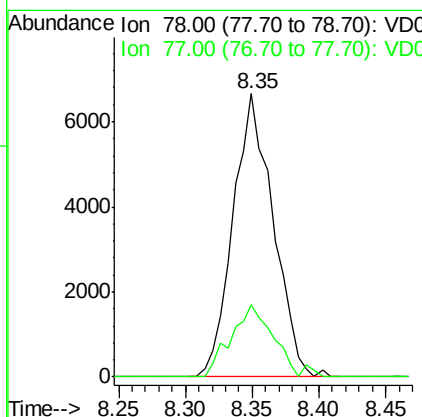
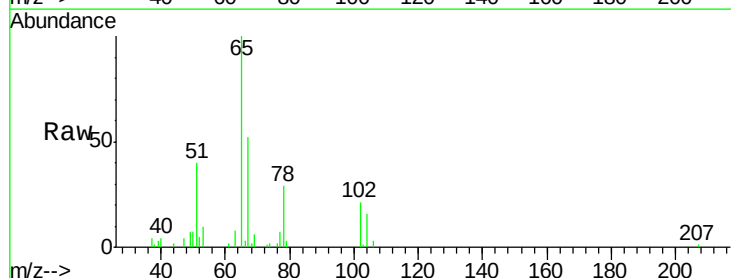
Instrument :
MSVOA_D
ClientSampled :

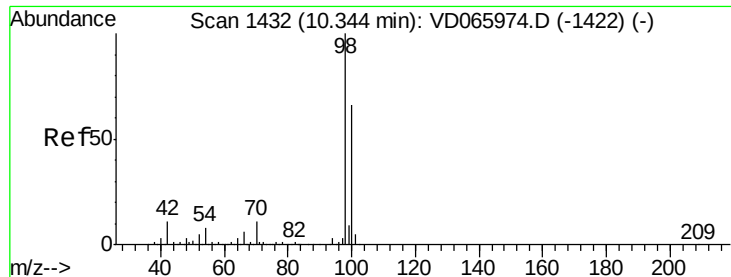
Tot Ion: 83 Resp: 4983
Ion Ratio Lower Upper
83 100
55 79.9 57.3 85.9
98 49.5 41.0 61.6



#40
Benzene
Concen: 1.420 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VD066077.D
Acq: 28 Jul 2020 13:49

Tgt Ion: 78 Resp: 13917
Ion Ratio Lower Upper
78 100
77 25.3 18.6 27.8

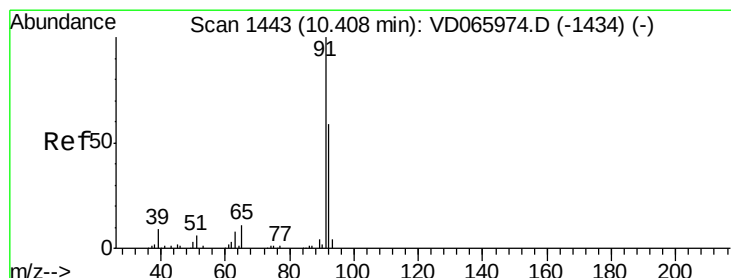
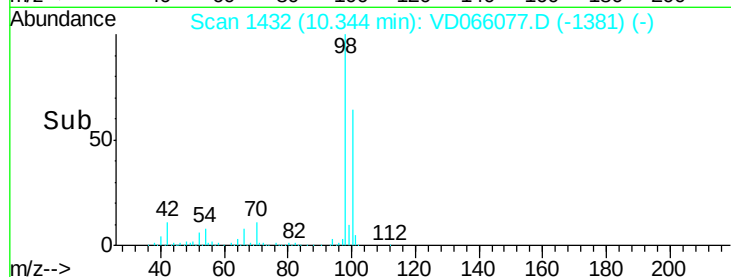
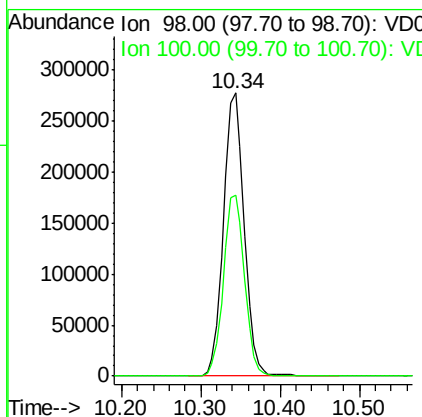
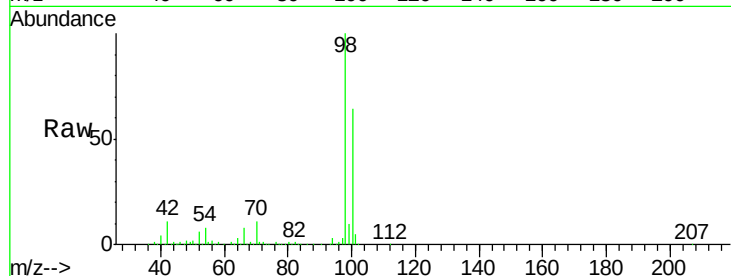




#50
Toluene-d8
Concen: 54.109 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD066077.D
Acq: 28 Jul 2020 13:49

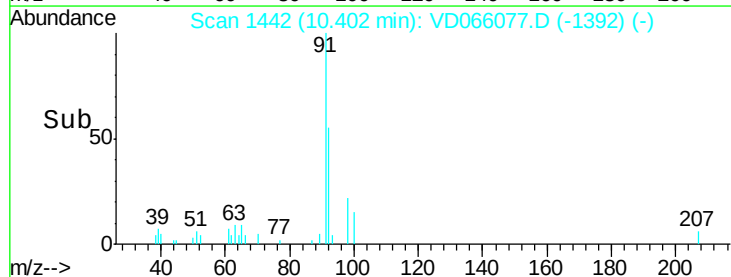
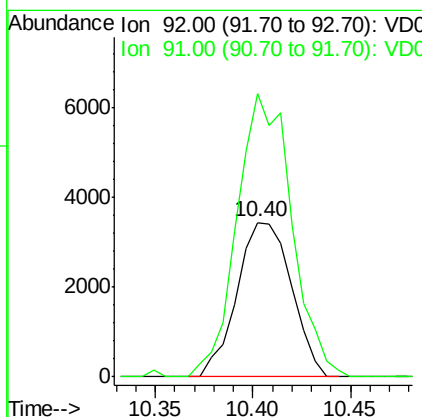
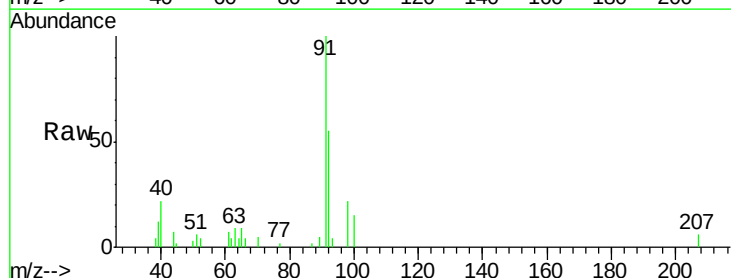
Instrument :
MSVOA_D
ClientSampled :

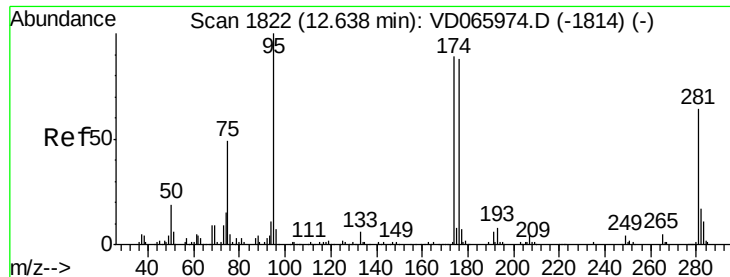
Tot Ion: 98 Resp: 501926
Ion Ratio Lower Upper
98 100
100 64.7 52.7 79.1



#52
Toluene
Concen: 1.039 ug/l
RT: 10.40 min Scan# 1442
Delta R.T. -0.01 min
Lab File: VD066077.D
Acq: 28 Jul 2020 13:49

Tgt Ion: 92 Resp: 6645
Ion Ratio Lower Upper
92 100
91 184.4 134.5 201.7

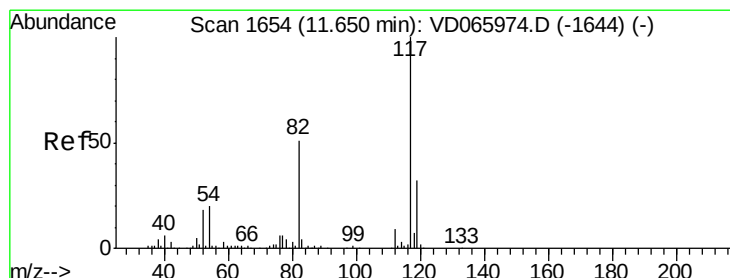
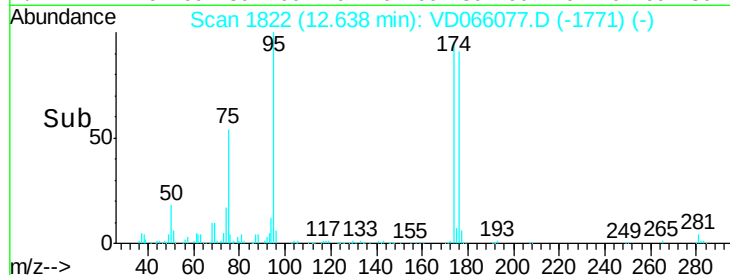
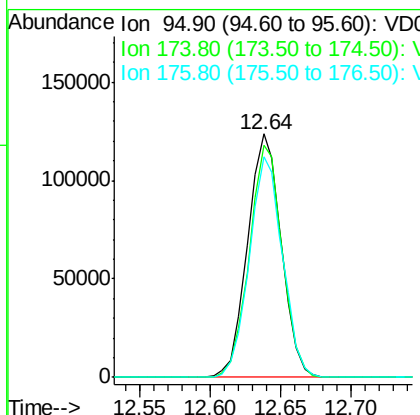
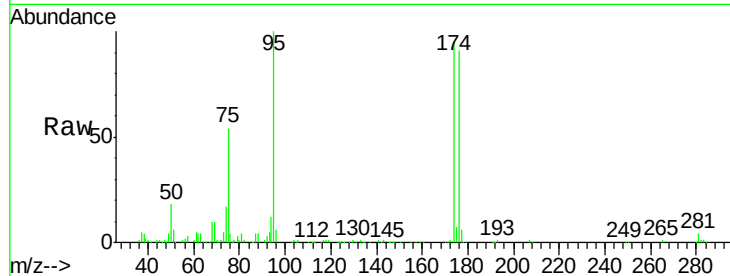




#62
4-Bromofluorobenzene
Concen: 64.193 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD066077.D
Acq: 28 Jul 2020 13:49

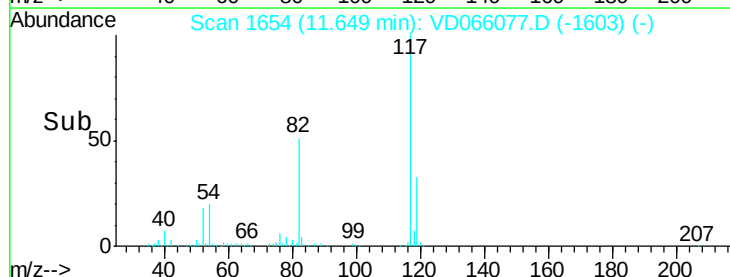
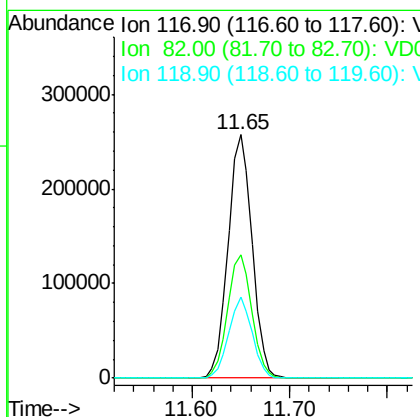
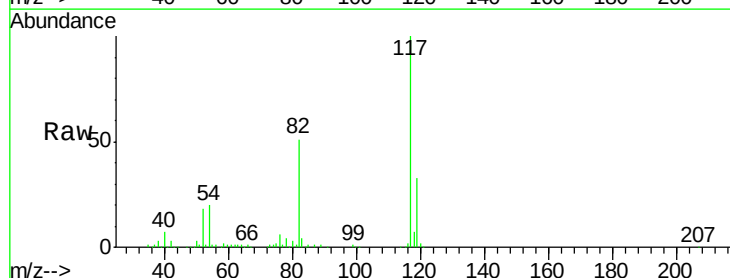
Instrument :
MSVOA_D
ClientSampleId :

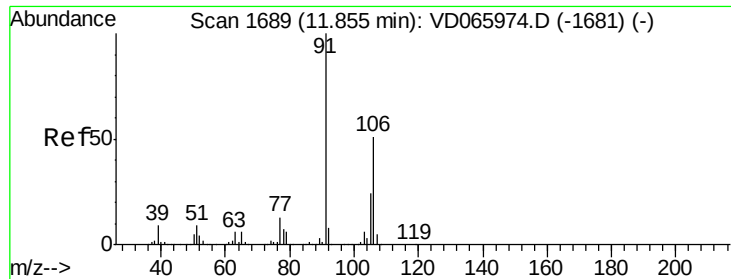
Tot Ion: 95 Resp: 206469
Ion Ratio Lower Upper
95 100
174 93.5 0.0 178.8
176 89.7 0.0 172.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD066077.D
Acq: 28 Jul 2020 13:49

Tgt Ion: 117 Resp: 440084
Ion Ratio Lower Upper
117 100
82 50.8 41.1 61.7
119 33.1 25.9 38.9

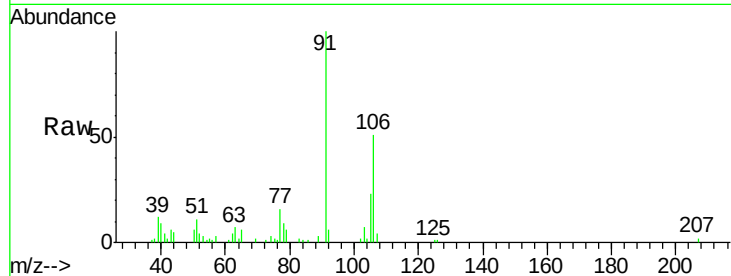




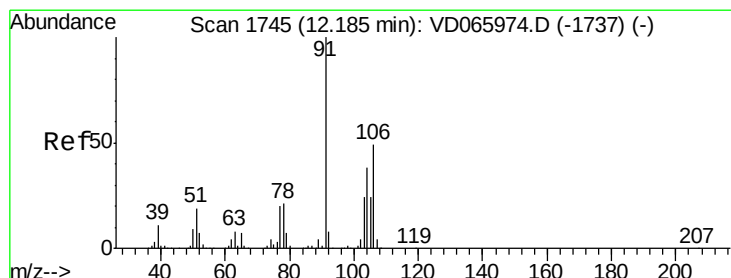
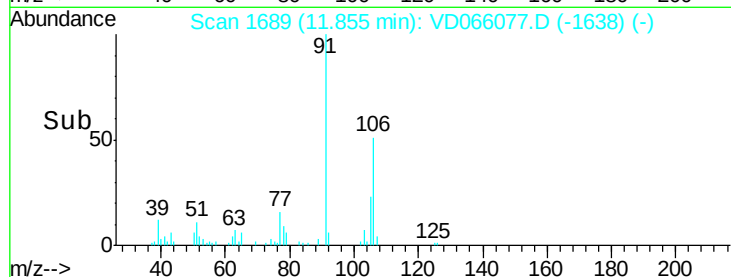
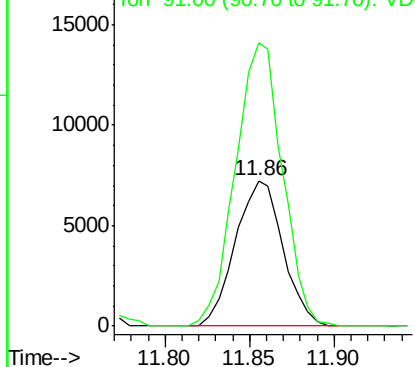
#68
m/p-Xylenes
Concen: 2.653 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VD066077.D
Acq: 28 Jul 2020 13:49

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 14142
Ion Ratio Lower Upper
106 100
91 192.9 157.0 235.6

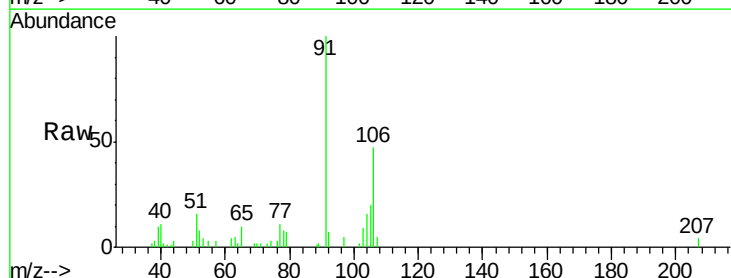


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

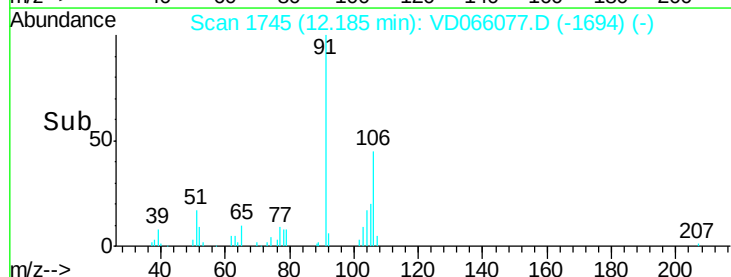
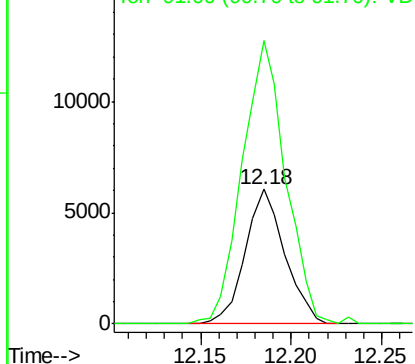


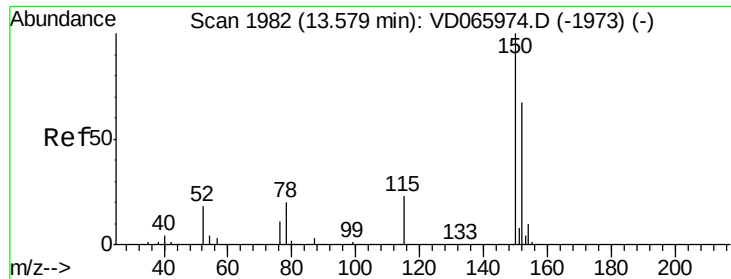
#69
o-Xylene
Concen: 1.899 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD066077.D
Acq: 28 Jul 2020 13:49

Tgt Ion:106 Resp: 9204
Ion Ratio Lower Upper
106 100
91 228.9 103.1 309.3



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

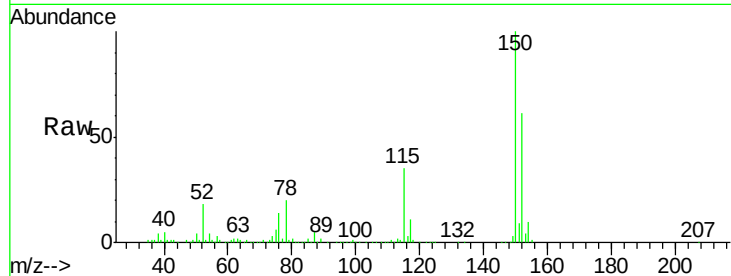




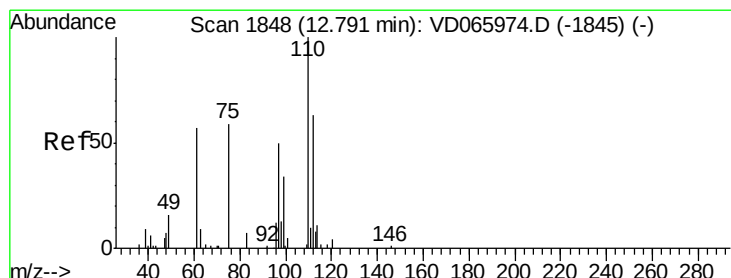
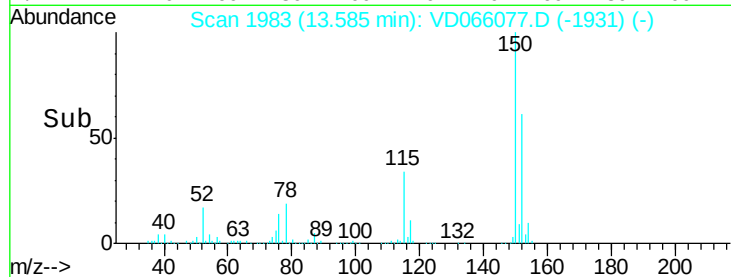
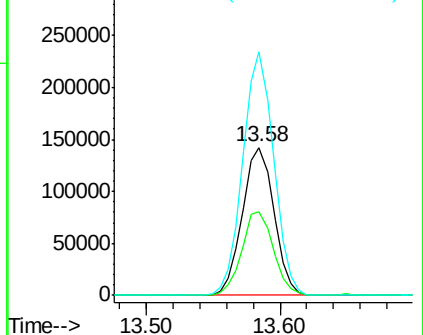
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.58 min Scan# 1983
 Delta R.T. 0.01 min
 Lab File: VD066077.D
 Acq: 28 Jul 2020 13:49

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:152 Resp: 233653
 Ion Ratio Lower Upper
 152 100
 115 56.5 27.9 83.7
 150 160.2 0.0 348.2

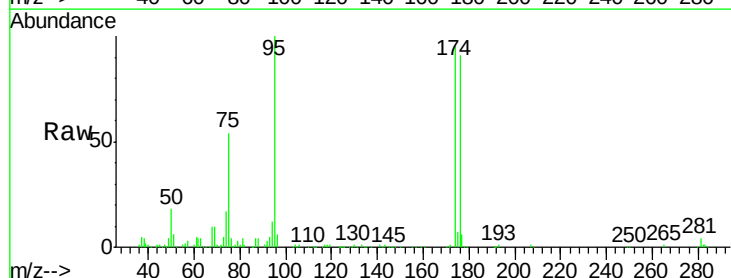


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

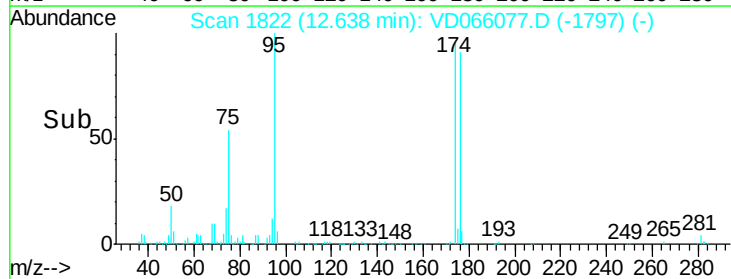
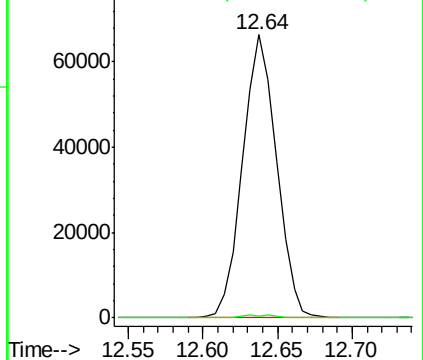


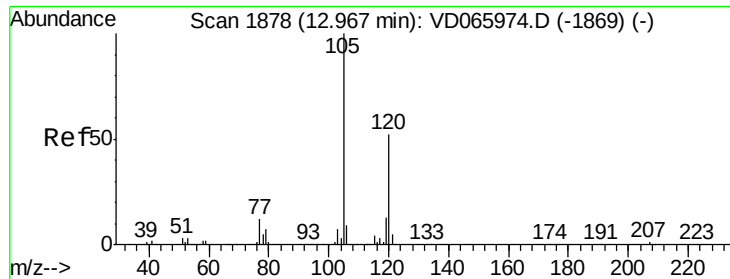
#76
 1,2,3-Trichloropropane
 Concen: 59.528 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD066077.D
 Acq: 28 Jul 2020 13:49

Tgt Ion: 75 Resp: 104727
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC
 Ion 77.00 (76.70 to 77.70): VDC





#80

1,3,5-Trimethylbenzene

Concen: 1.239 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. -0.00 min

Lab File: VD066077.D

Acq: 28 Jul 2020 13:49

Instrument :

MSVOA_D

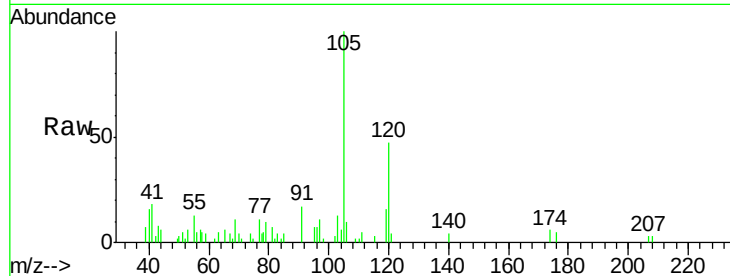
ClientSampled :

Tot Ion:105 Resp: 14389

Ion Ratio Lower Upper

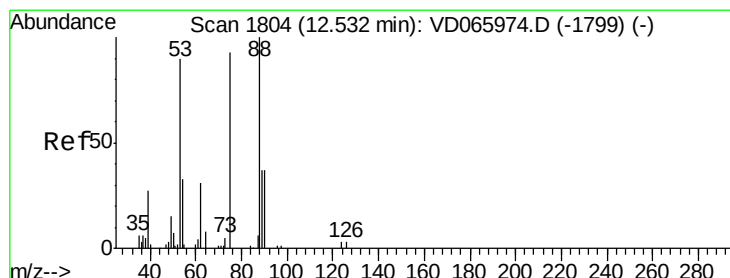
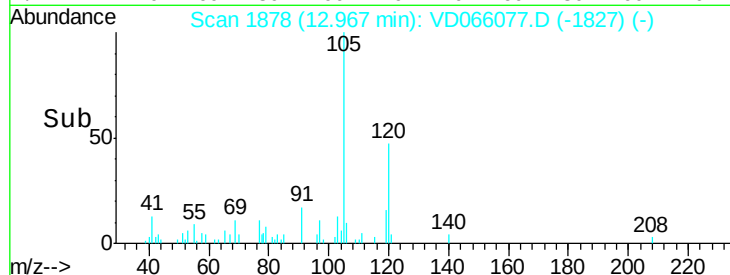
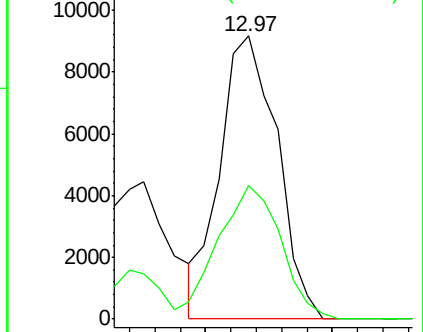
105 100

120 51.9 25.6 76.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 136.596 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD066077.D

Acq: 28 Jul 2020 13:49

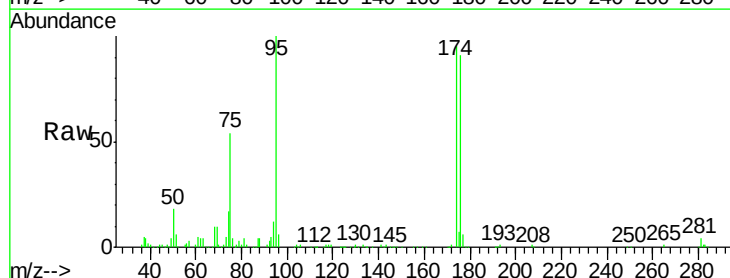
Tgt Ion: 75 Resp: 104727

Ion Ratio Lower Upper

75 100

53 0.1 76.8 115.2#

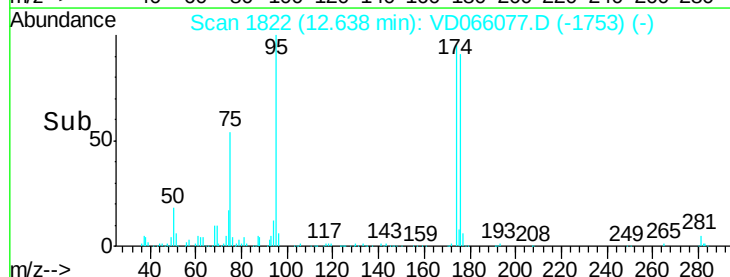
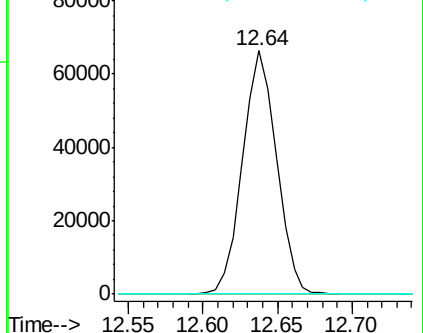
89 0.1 37.0 55.4#

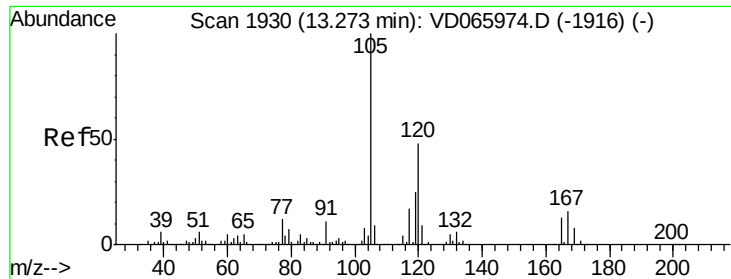


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

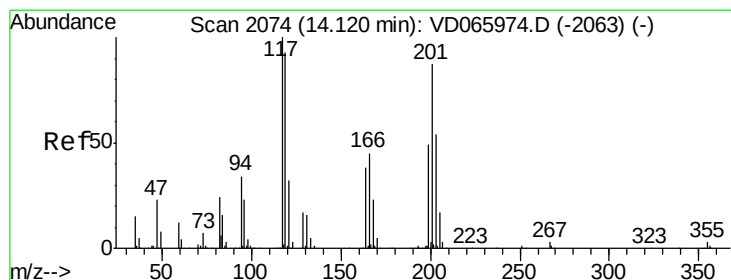
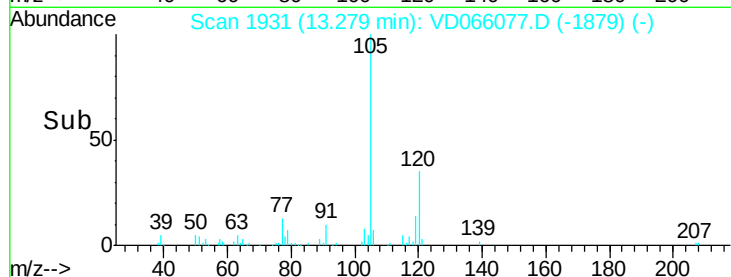
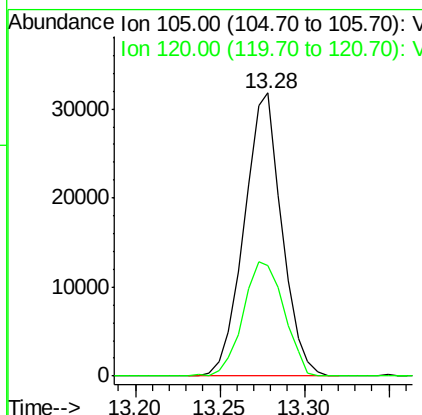
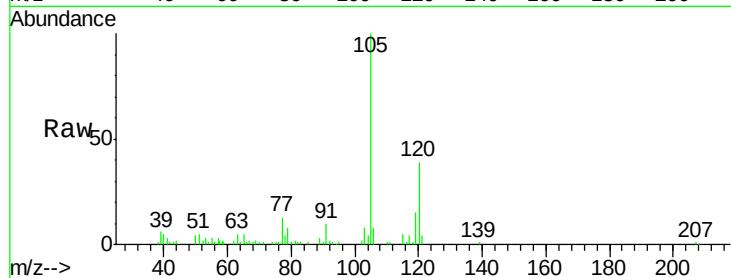




#84
 1,2,4-Trimethylbenzene
 Concen: 4.302 ug/l
 RT: 13.28 min Scan# 1931
 Delta R.T. 0.01 min
 Lab File: VD066077.D
 Acq: 28 Jul 2020 13:49

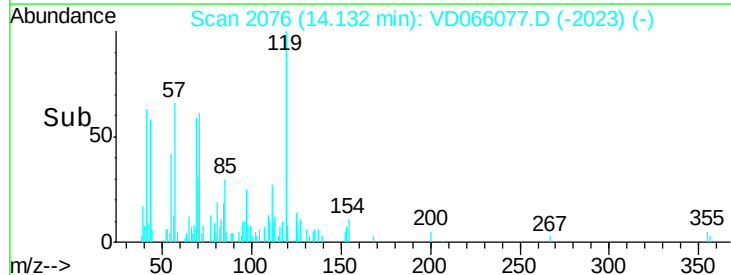
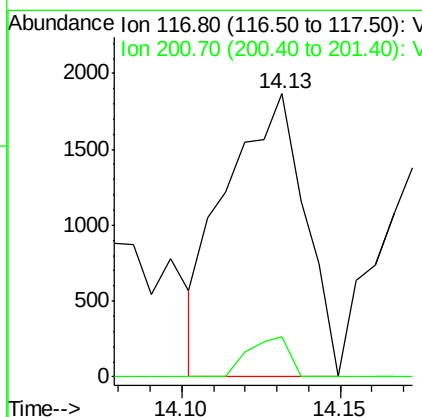
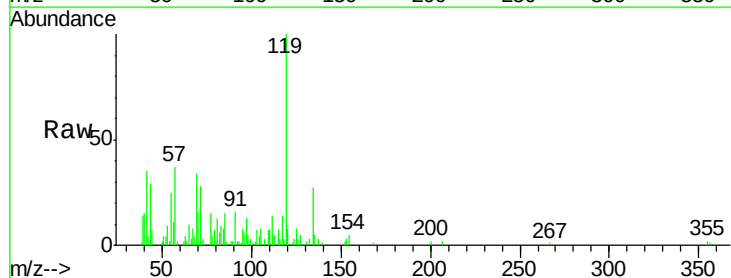
Instrument :
 MSVOA_D
 ClientSampleId :

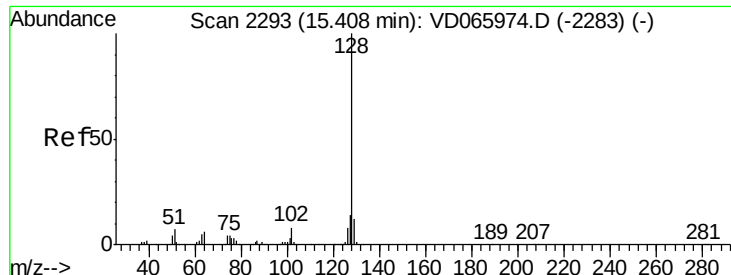
Tot Ion:105 Resp: 49296
 Ion Ratio Lower Upper
 105 100
 120 44.1 23.9 71.8



#90
 Hexachloroethane
 Concen: 1.227 ug/l
 RT: 14.13 min Scan# 2076
 Delta R.T. 0.01 min
 Lab File: VD066077.D
 Acq: 28 Jul 2020 13:49

Tgt Ion:117 Resp: 3230
 Ion Ratio Lower Upper
 117 100
 201 7.2 42.0 126.1#

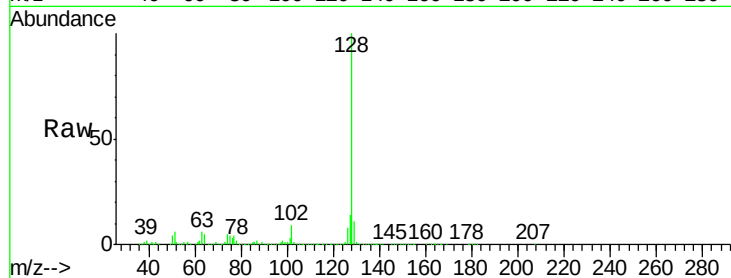




#95
Naphthalene
Concen: 340.891 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.01 min
Lab File: VD066077.D
Acq: 28 Jul 2020 13:49

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.8	16.2
129	11.3	8.9	13.3



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

