

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD010720\
 Data File : VD064797.D
 Acq On : 07 Jan 2020 17:14
 Operator : VA/SY
 Sample : L1013-01
 Misc : 5.51G/5.00ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 08 07:38:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	460741	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	711944	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	594196	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	243981	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	171277	42.16	ug/l	0.00
Spiked Amount						
						Recovery = 84.32%
35) Dibromofluoromethane	7.92	113	204939	46.92	ug/l	0.00
Spiked Amount						
						Recovery = 93.84%
50) Toluene-d8	10.34	98	843378	50.42	ug/l	0.00
Spiked Amount						
						Recovery = 100.84%
62) 4-Bromofluorobenzene	12.64	95	230025	43.49	ug/l	0.00
Spiked Amount						
						Recovery = 86.98%

Target Compounds

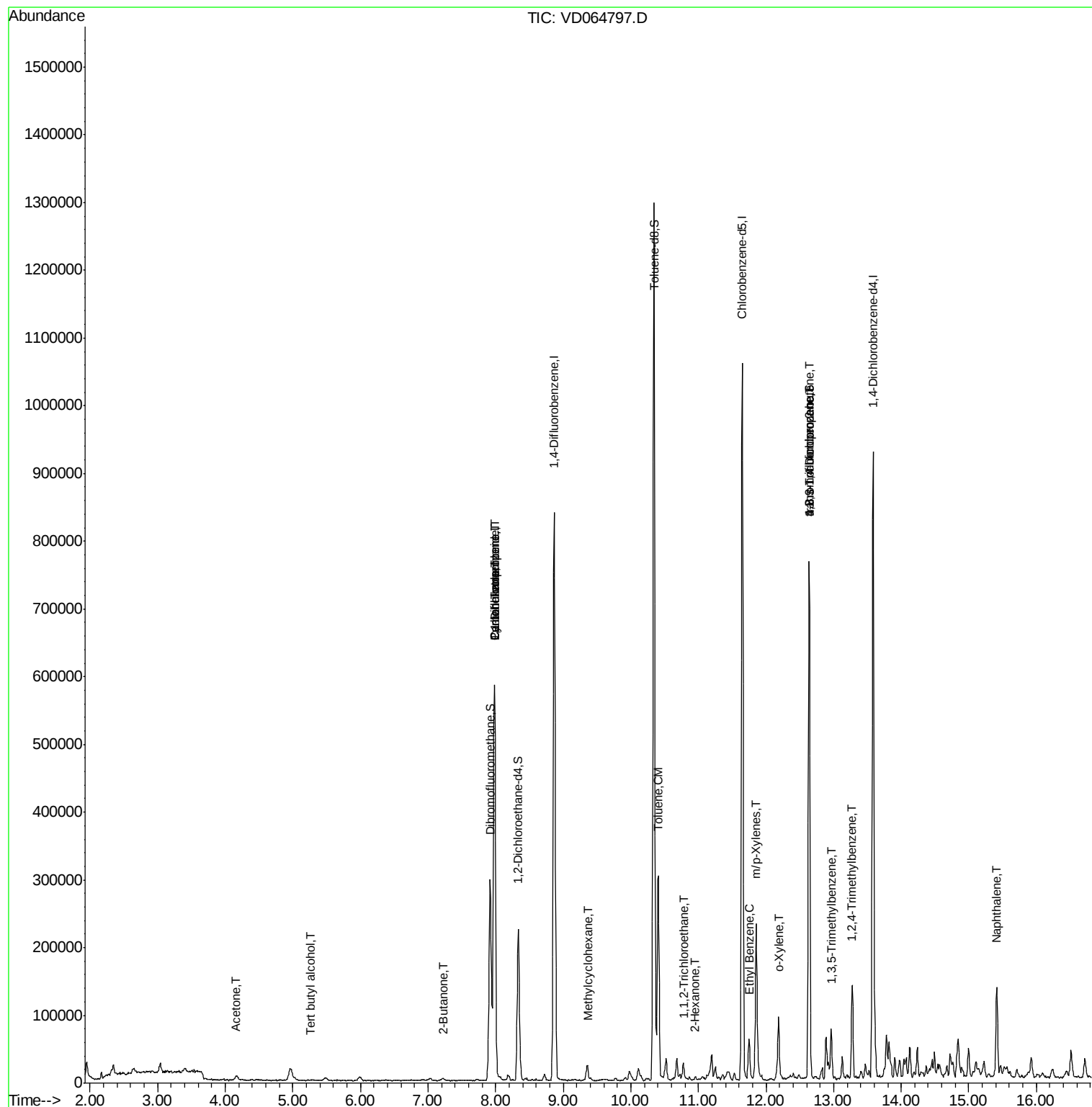
						Qvalue
11) Tert butyl alcohol	5.25	59	316	1.357	ug/l #	70
16) Acetone	4.17	43	13051	17.658	ug/l #	82
20) Methylene Chloride	4.96	84	12484	Below Cal		95
25) 2-Butanone	7.24	43	2473	2.214	ug/l #	79
31) Cyclohexane	7.98	56	13734	1.813	ug/l #	46
36) 1,1-Dichloropropene	7.99	75	33870	4.943	ug/l #	48
38) Carbon Tetrachloride	7.98	117	43463	5.948	ug/l #	16
39) Methylcyclohexane	9.36	83	8655	1.043	ug/l	90
52) Toluene	10.41	92	128118	10.439	ug/l	99
55) 1,1,2-Trichloroethane	10.77	97	9600	2.861	ug/l #	18
59) 2-Hexanone	10.95	43	2647	1.473	ug/l #	33
67) Ethyl Benzene	11.75	91	39227	1.752	ug/l	98
68) m/p-Xylenes	11.86	106	66931	7.747	ug/l	99
69) o-Xylene	12.19	106	25592	3.279	ug/l	97
76) 1,2,3-Trichloropropane	12.64	75	124437	64.588	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.97	105	29675	2.072	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.64	75	124437	135.084	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.27	105	77164	5.410	ug/l	98
95) Naphthalene	15.41	128	109876	13.545	ug/l	98

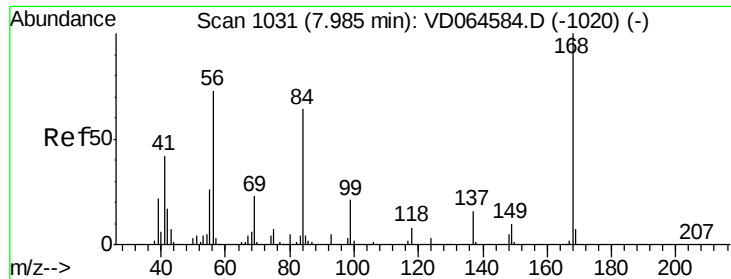
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD010720\
Data File : VD064797.D
Acq On : 07 Jan 2020 17:14
Operator : VA/SY
Sample : L1013-01
Misc : 5.51G/5.00ml/MSVOA D/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :

Quant Time: Jan 08 07:38:25 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 24 13:19:06 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064797.D

Acq: 07 Jan 2020 17:14

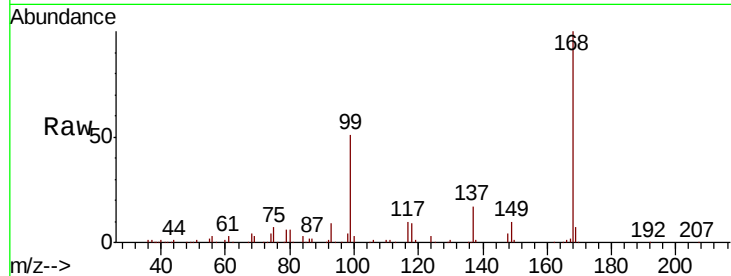
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 460741

Ion Ratio Lower Upper

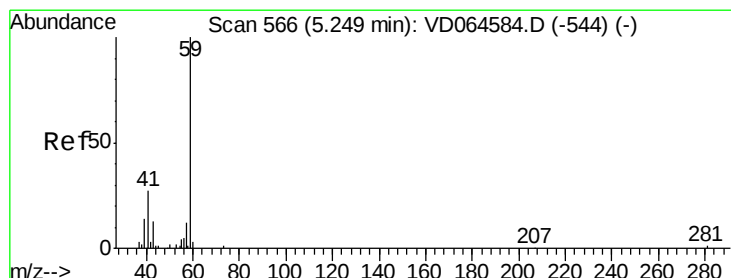
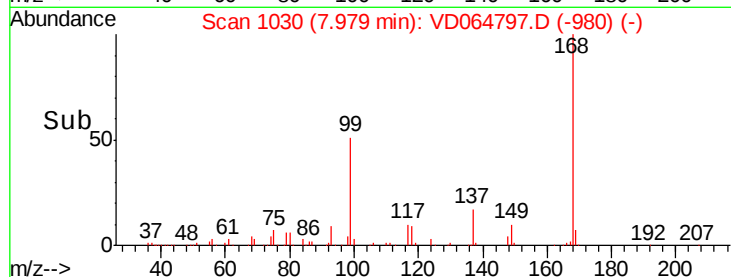
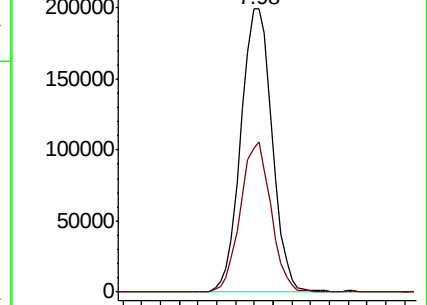
168 100

99 51.0 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 1.357 ug/l

RT: 5.25 min Scan# 566

Delta R.T. 0.00 min

Lab File: VD064797.D

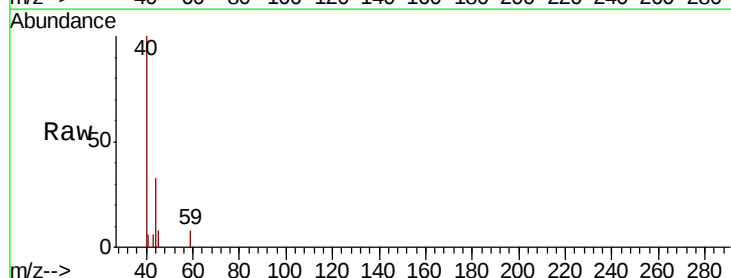
Acq: 07 Jan 2020 17:14

Tgt Ion: 59 Resp: 316

Ion Ratio Lower Upper

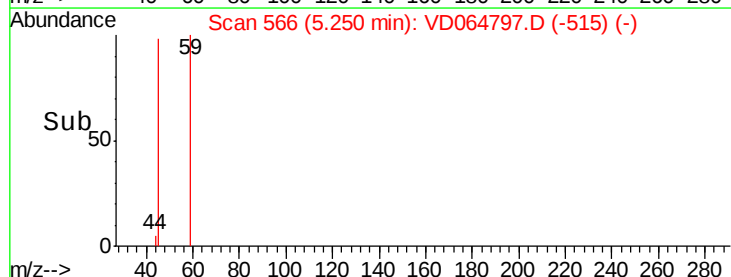
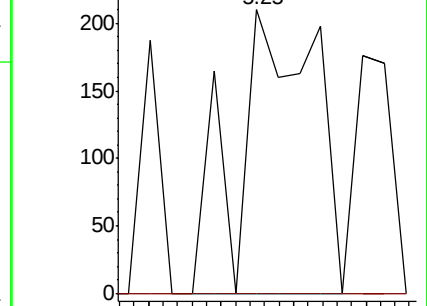
59 100

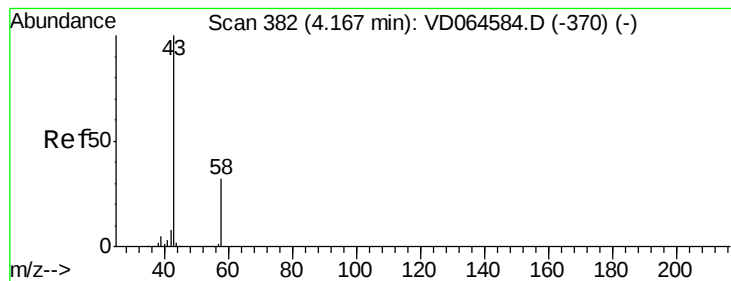
57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 17.658 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD064797.D

Acq: 07 Jan 2020 17:14

Instrument :

MSVOA_D

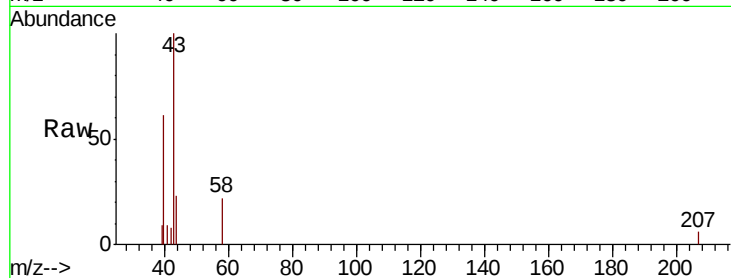
ClientSampleId :

Tot Ion: 43 Resp: 13051

Ion Ratio Lower Upper

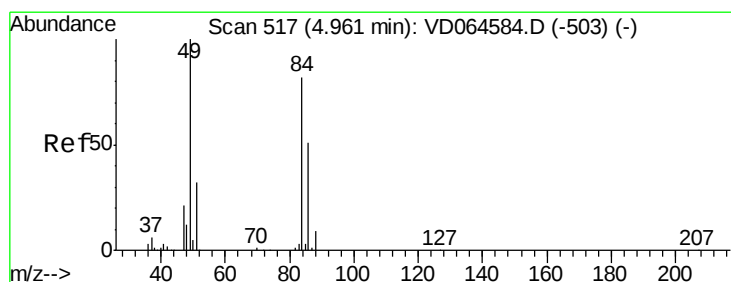
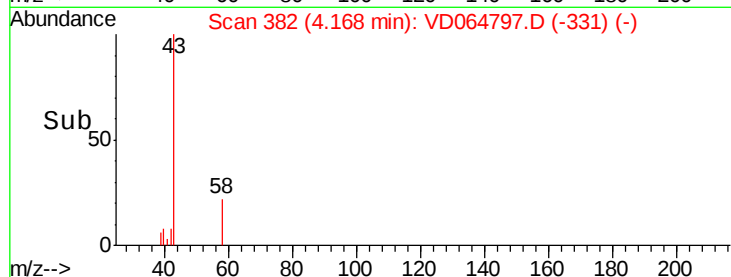
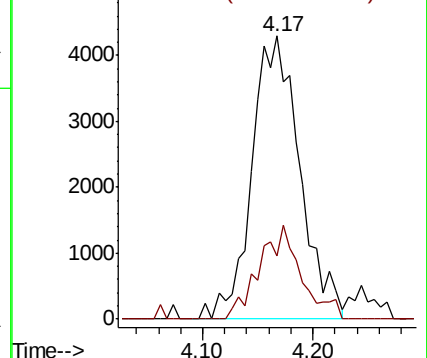
43 100

58 22.3 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD064797.D

Acq: 07 Jan 2020 17:14

Tgt Ion: 84 Resp: 12484

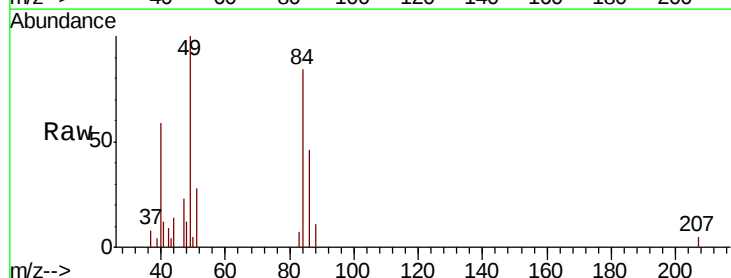
Ion Ratio Lower Upper

84 100

49 119.7 97.2 145.8

51 33.7 31.4 47.0

86 55.3 49.3 73.9

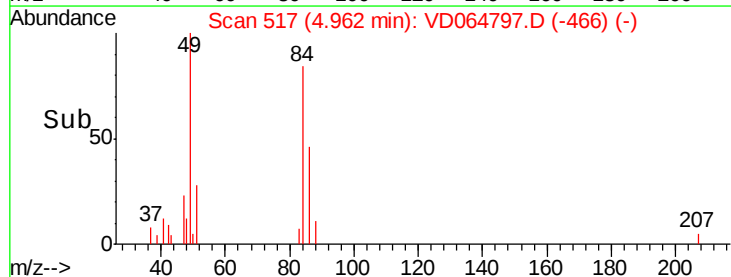
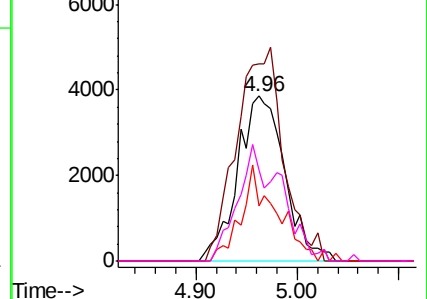


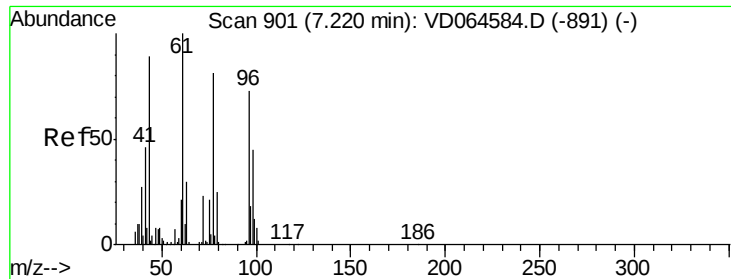
Abundance Ion 83.90 (83.60 to 84.60): VDC

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: 2.214 ug/l

RT: 7.24 min Scan# 904

Delta R.T. 0.02 min

Lab File: VD064797.D

Acq: 07 Jan 2020 17:14

Instrument :

MSVOA_D

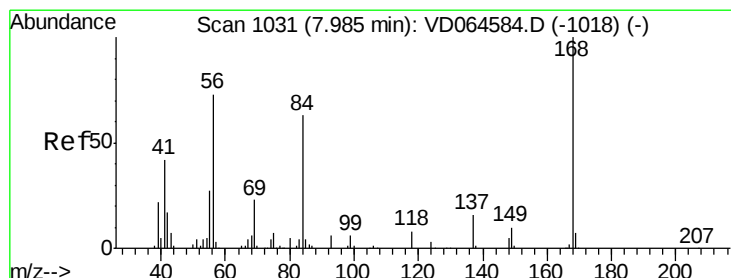
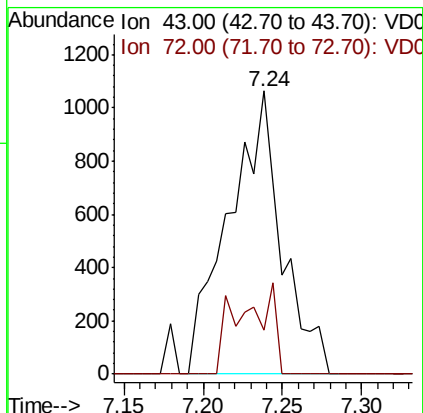
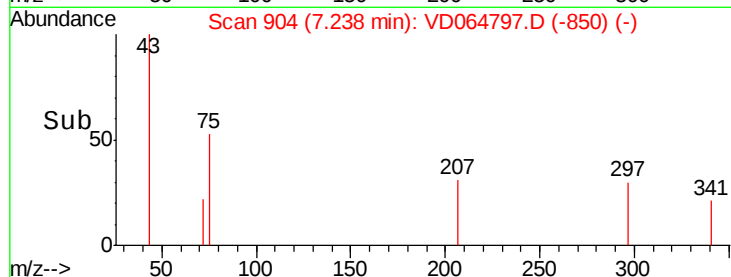
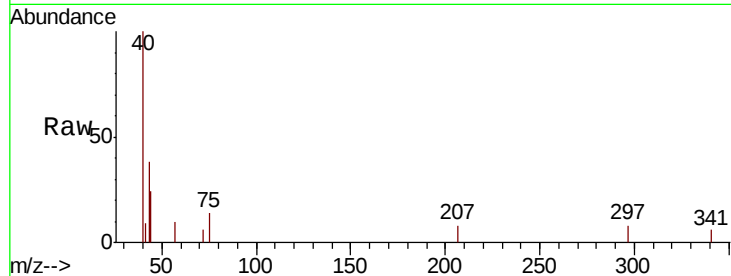
ClientSampleId :

Tot Ion: 43 Resp: 2473

Ion Ratio Lower Upper

43 100

72 15.3 20.7 31.1#



#31

Cyclohexane

Concen: 1.813 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064797.D

Acq: 07 Jan 2020 17:14

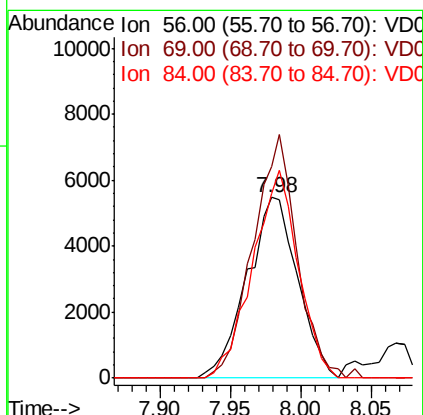
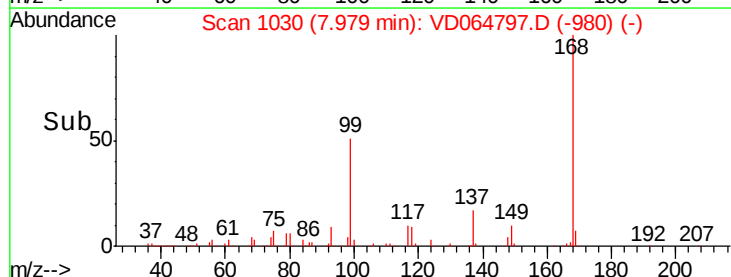
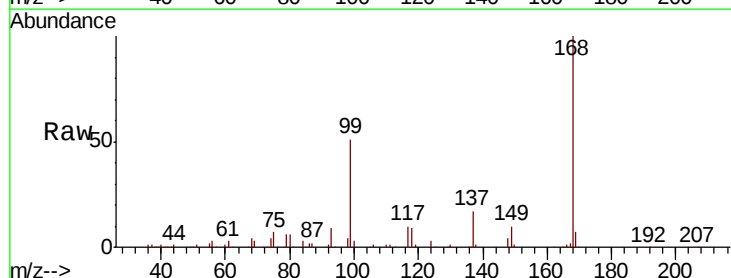
Tgt Ion: 56 Resp: 13734

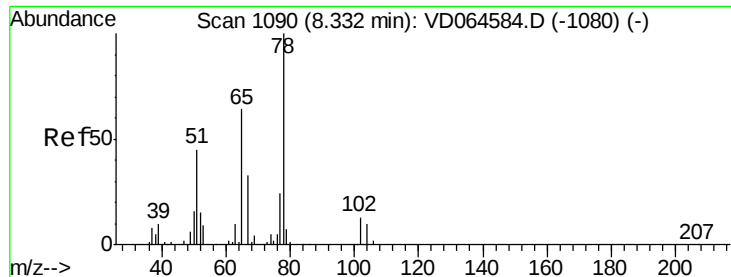
Ion Ratio Lower Upper

56 100

69 116.8 24.7 37.1#

84 102.5 69.4 104.2

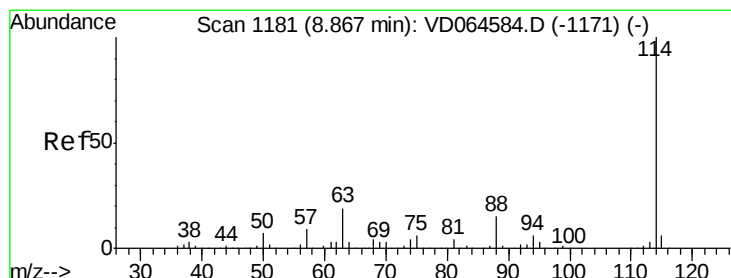
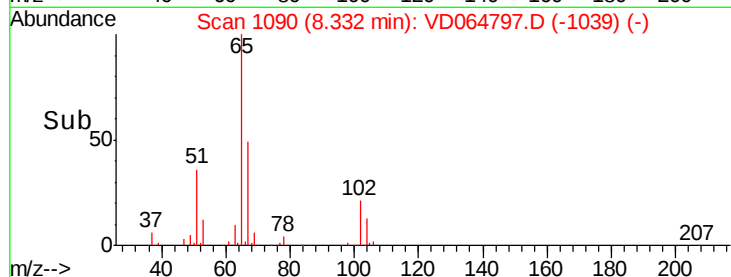
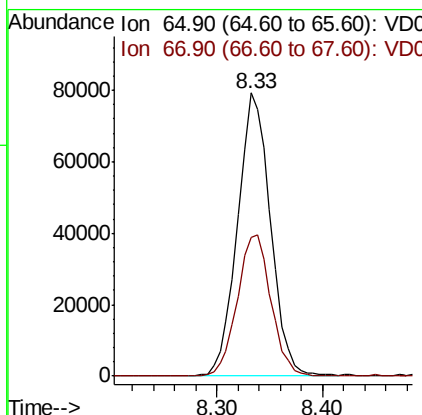
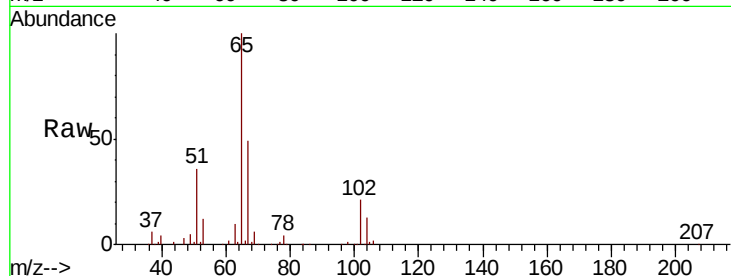




#33
 1,2-Dichloroethane-d4
 Concen: 42.158 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD064797.D
 Acq: 07 Jan 2020 17:14

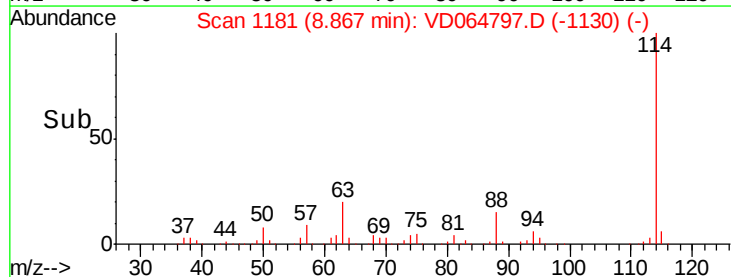
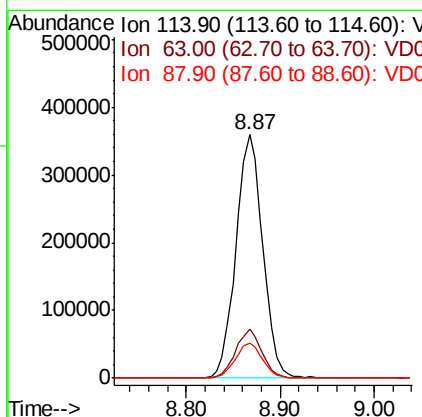
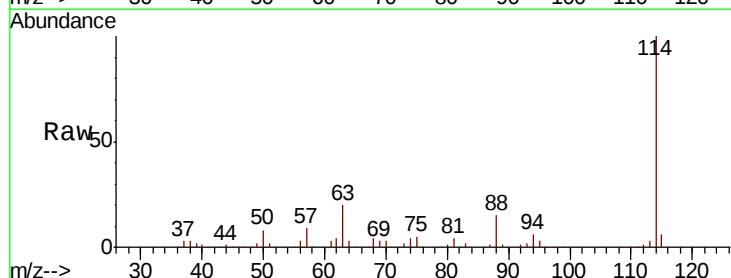
Instrument :
 MSVOA_D
 ClientSampled :

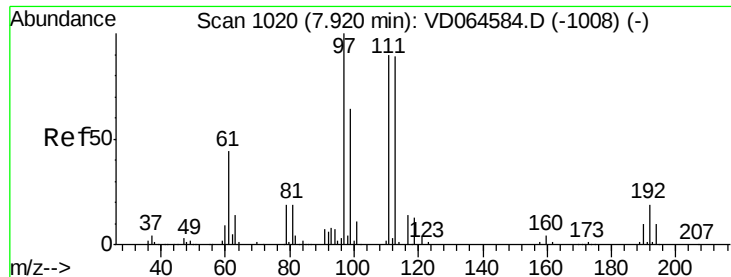
Tot Ion: 65 Resp: 171277
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064797.D
 Acq: 07 Jan 2020 17:14

Tgt Ion: 114 Resp: 711944
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 38.0
 88 14.5 0.0 29.2

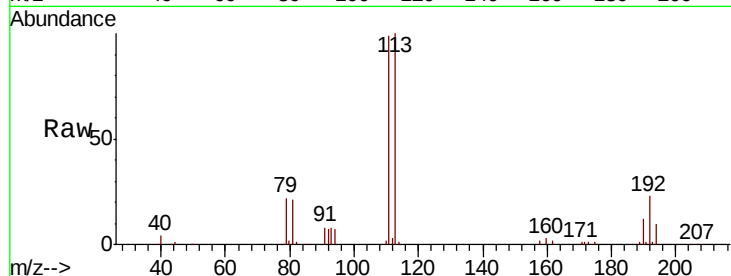




#35
 Dibromofluoromethane
 Concen: 46.919 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064797.D
 Acq: 07 Jan 2020 17:14

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.8	80.6	121.0
192	22.4	17.9	26.9

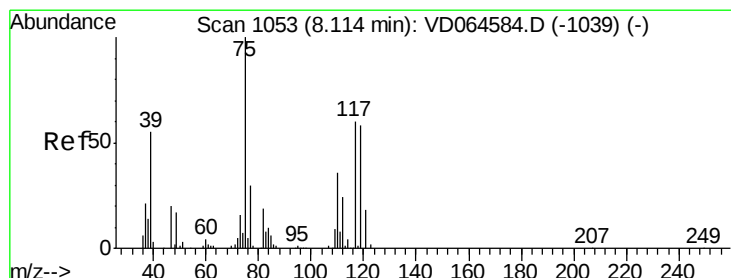
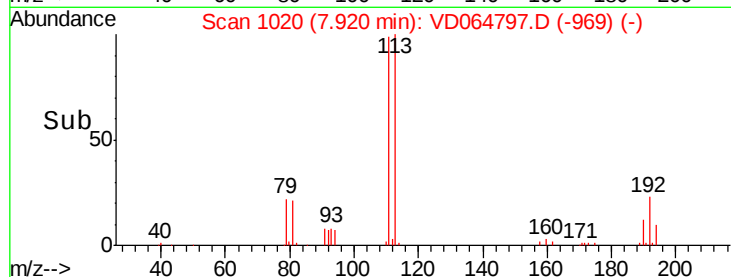
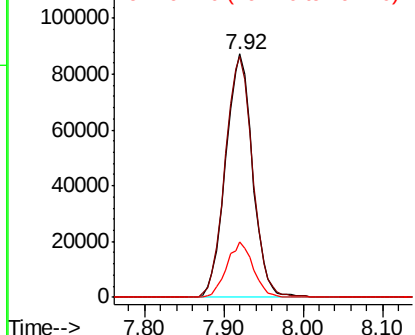


Abundance

Ion 112.80 (112.50 to 113.50): V

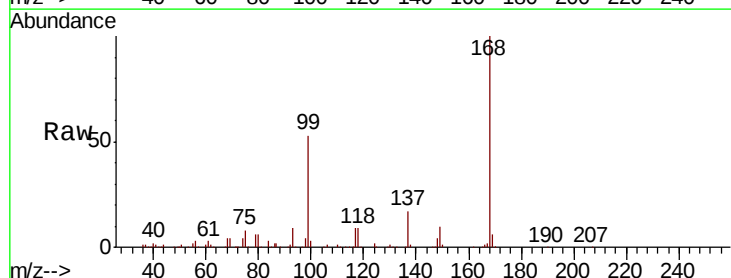
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.943 ug/l
 RT: 7.99 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064797.D
 Acq: 07 Jan 2020 17:14

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.8	18.1	54.1#
77	0.0	24.2	36.4#

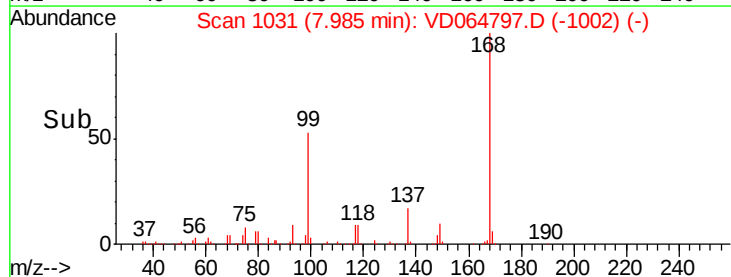
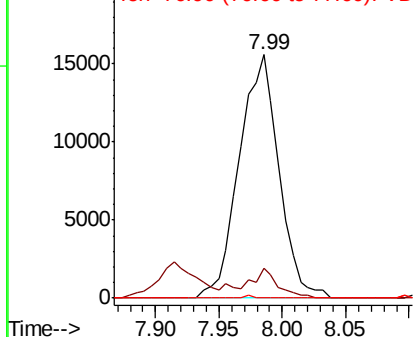


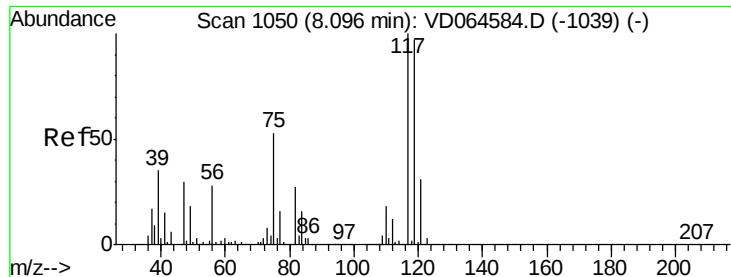
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.948 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064797.D

Acq: 07 Jan 2020 17:14

Instrument :

MSVOA_D

ClientSampleId :

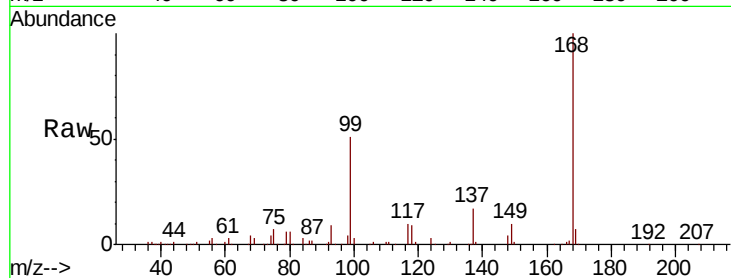
Tot Ion:117 Resp: 43463

Ion Ratio Lower Upper

117 100

119 6.0 77.3 115.9#

121 0.0 25.0 37.6#

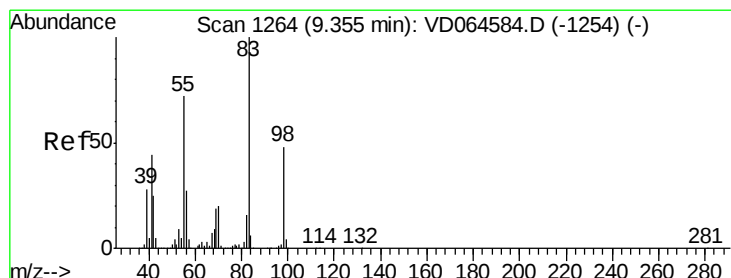
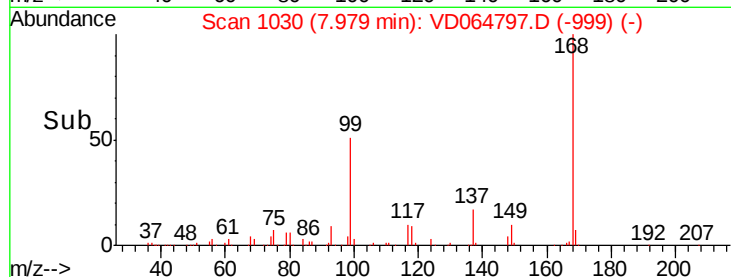
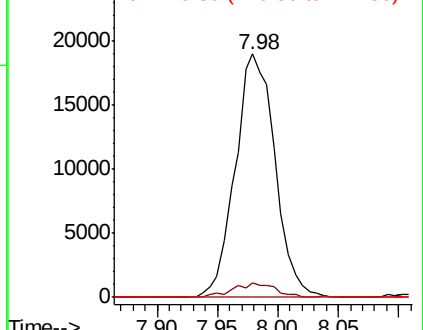


Abundance

Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 1.043 ug/l

RT: 9.36 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VD064797.D

Acq: 07 Jan 2020 17:14

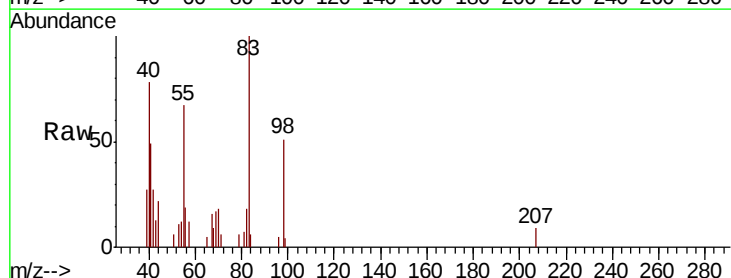
Tgt Ion: 83 Resp: 8655

Ion Ratio Lower Upper

83 100

55 61.0 57.8 86.6

98 51.2 38.7 58.1

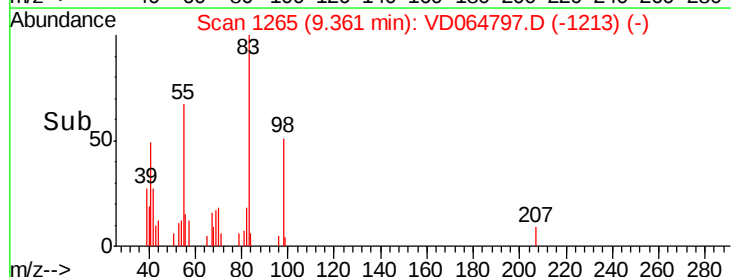
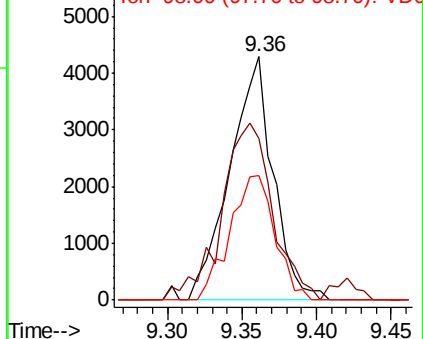


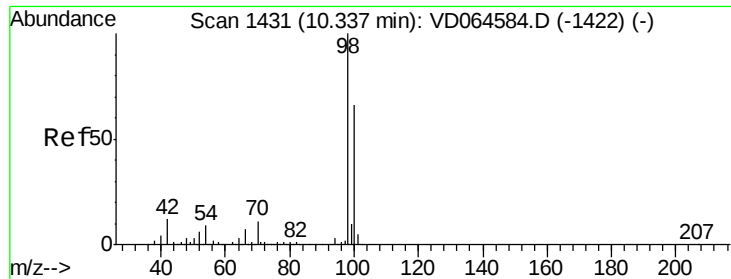
Abundance

Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V

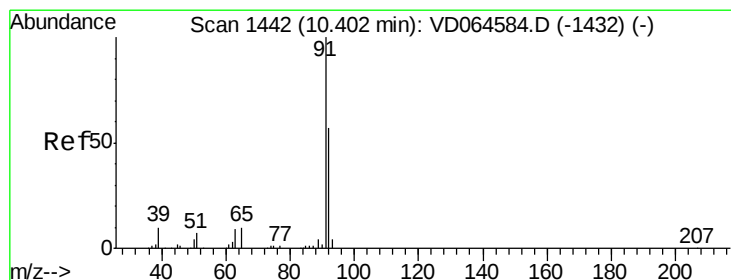
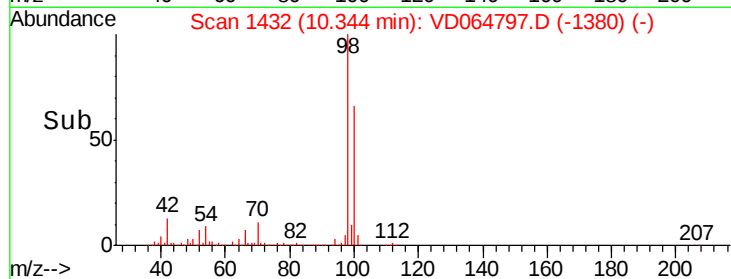
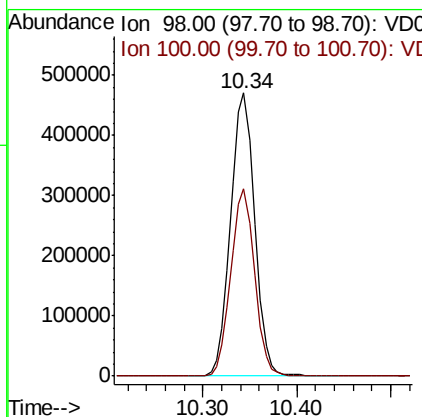
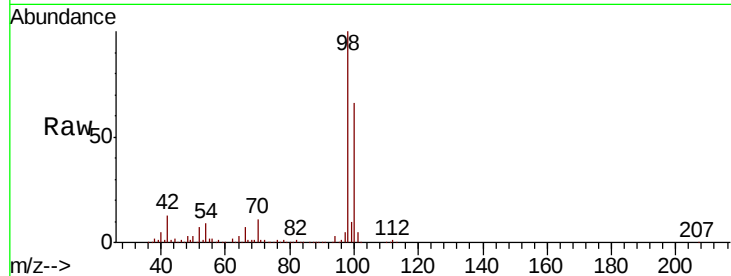




#50
Toluene-d8
Concen: 50.415 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064797.D
Acq: 07 Jan 2020 17:14

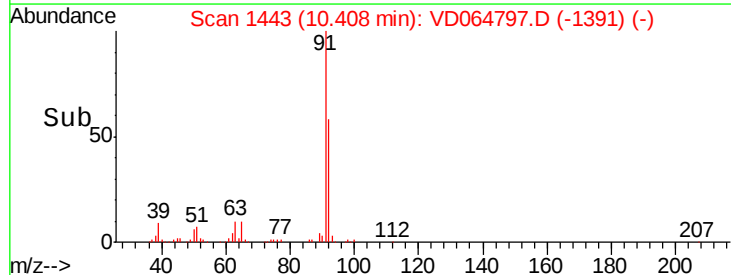
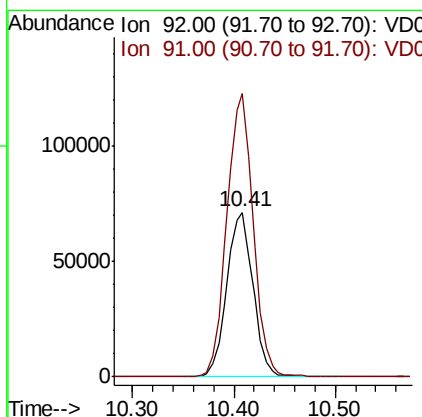
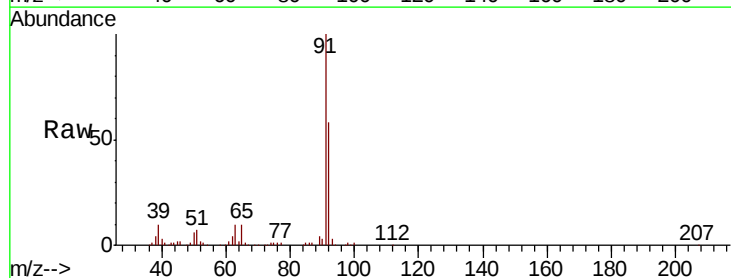
Instrument :
MSVOA_D
ClientSampleId :

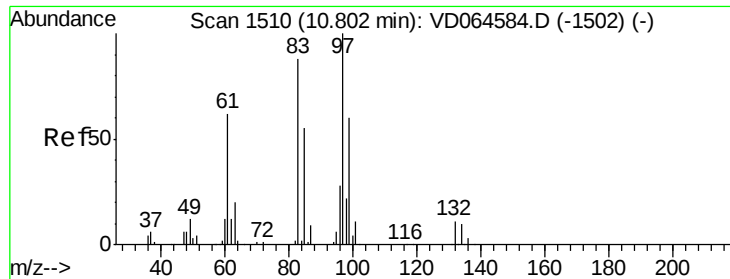
Tot Ion: 98 Resp: 843378
Ion Ratio Lower Upper
98 100
100 65.4 51.7 77.5



#52
Toluene
Concen: 10.439 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. 0.01 min
Lab File: VD064797.D
Acq: 07 Jan 2020 17:14

Tgt Ion: 92 Resp: 128118
Ion Ratio Lower Upper
92 100
91 172.3 138.7 208.1





#55

1,1,2-Trichloroethane

Concen: 2.861 ug/l

RT: 10.77 min Scan# 1505

Delta R.T. -0.03 min

Lab File: VD064797.D

Acq: 07 Jan 2020 17:14

Instrument :

MSVOA_D

ClientSampled :

Tot Ion: 97 Resp: 9600

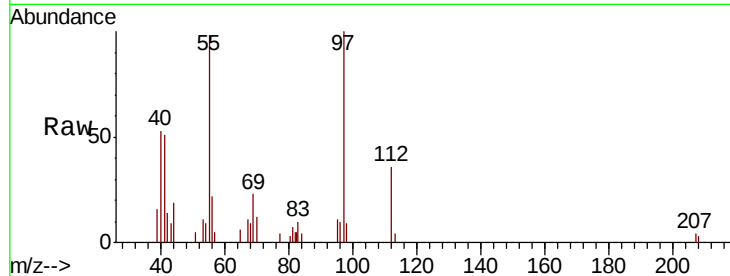
Ion Ratio Lower Upper

97 100

83 6.6 70.2 105.4#

85 0.0 44.0 66.0#

99 0.0 47.8 71.6#

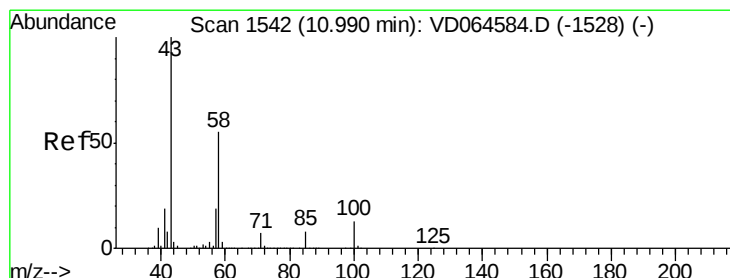
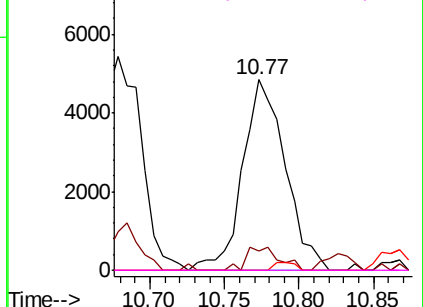
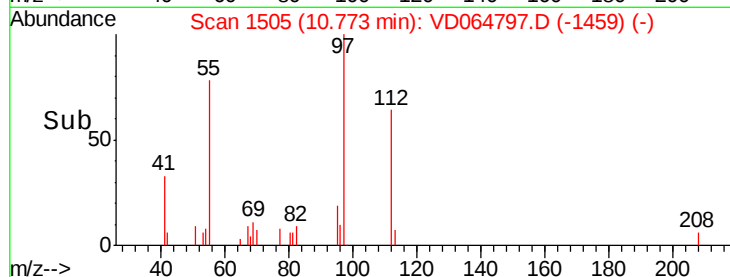


Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC



#59

2-Hexanone

Concen: 1.473 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. -0.04 min

Lab File: VD064797.D

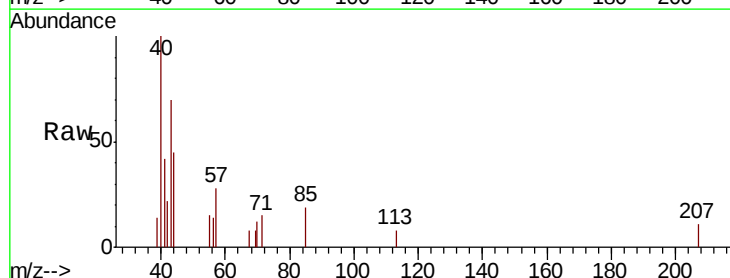
Acq: 07 Jan 2020 17:14

Tgt Ion: 43 Resp: 2647

Ion Ratio Lower Upper

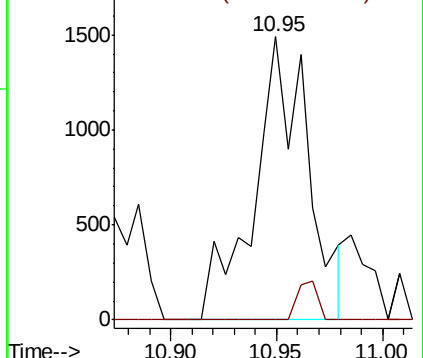
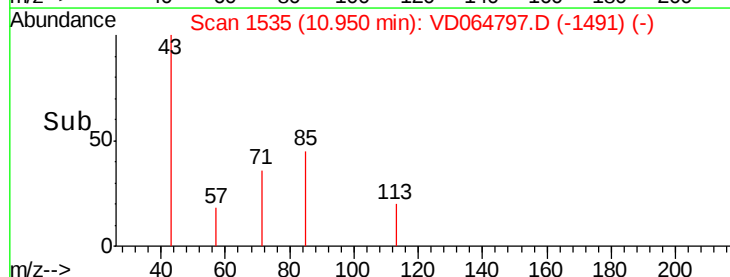
43 100

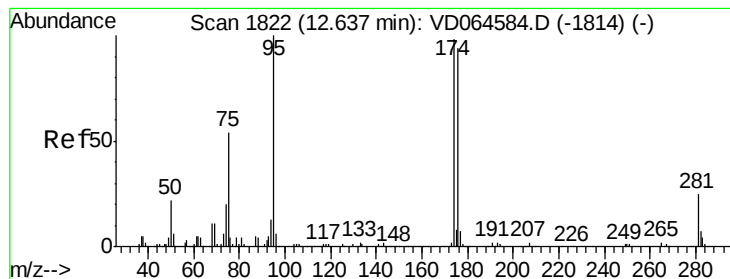
58 5.1 26.4 79.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#62

4-Bromofluorobenzene

Concen: 43.485 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064797.D

Acq: 07 Jan 2020 17:14

Instrument :

MSVOA_D

ClientSampleId :

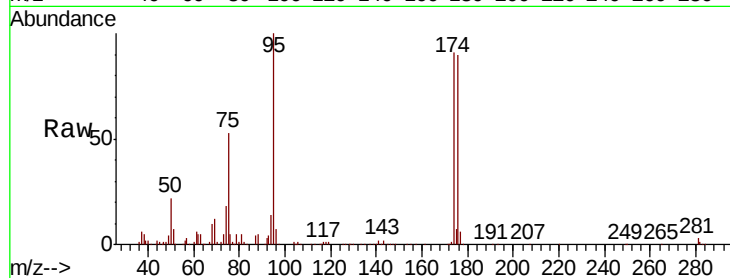
Tot Ion: 95 Resp: 230025

Ion Ratio Lower Upper

95 100

174 92.7 0.0 193.2

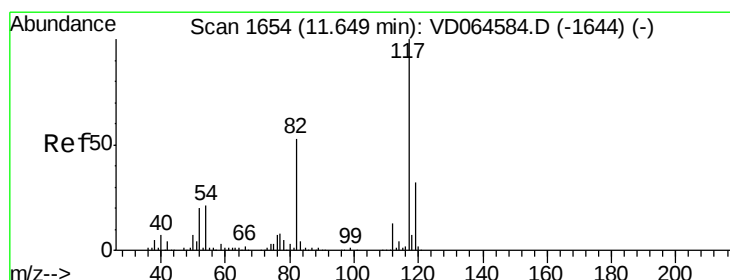
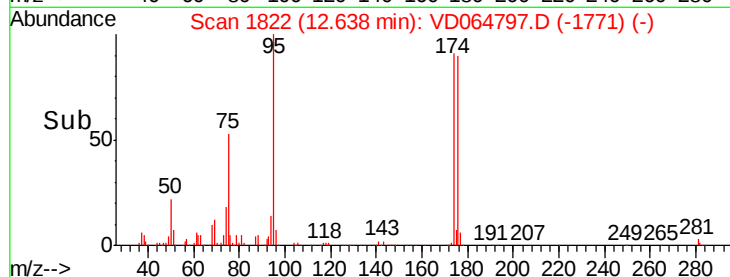
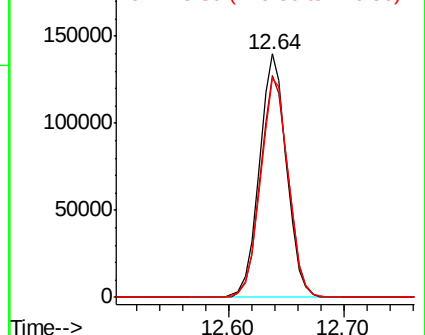
176 91.9 0.0 184.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD064797.D

Acq: 07 Jan 2020 17:14

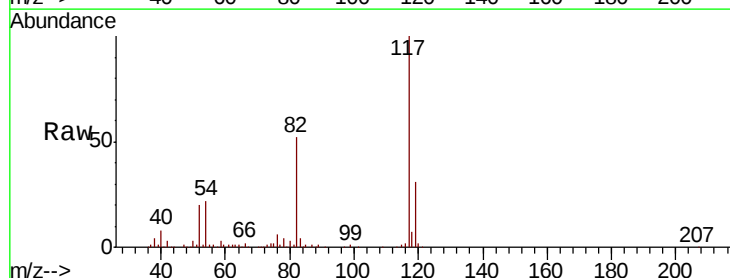
Tgt Ion: 117 Resp: 594196

Ion Ratio Lower Upper

117 100

82 52.4 42.2 63.4

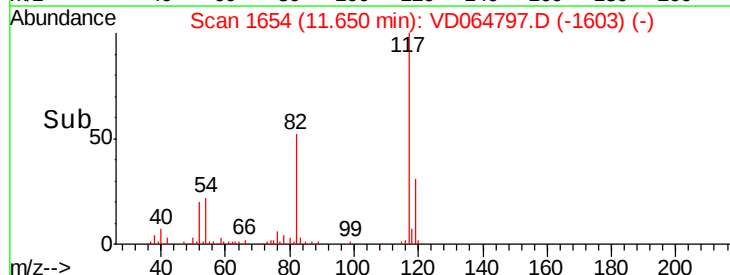
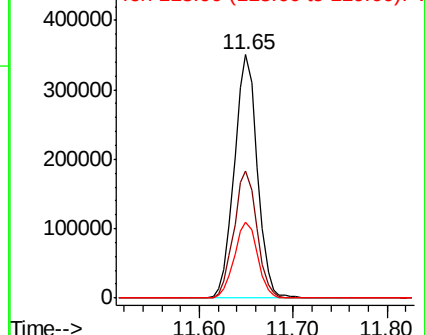
119 31.3 26.0 39.0

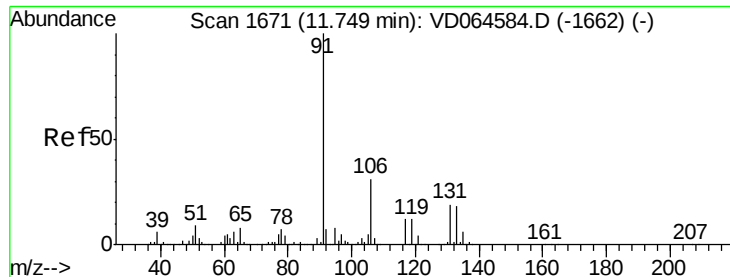


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#67

Ethyl Benzene

Concen: 1.752 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD064797.D

Acq: 07 Jan 2020 17:14

Instrument :

MSVOA_D

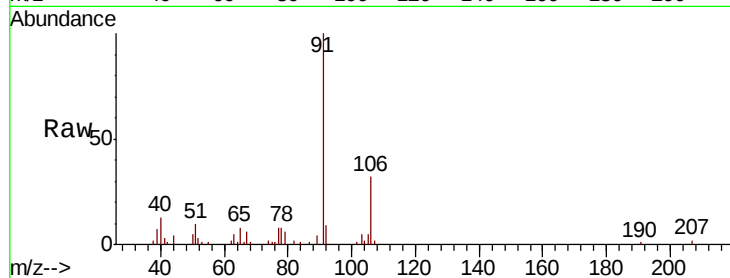
ClientSampleId :

Tot Ion: 91 Resp: 39227

Ion Ratio Lower Upper

91 100

106 31.8 24.6 36.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

50000

40000

30000

20000

10000

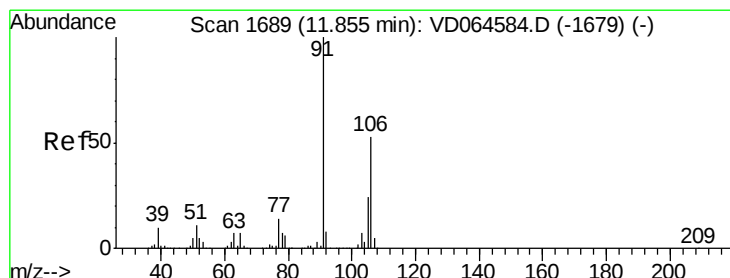
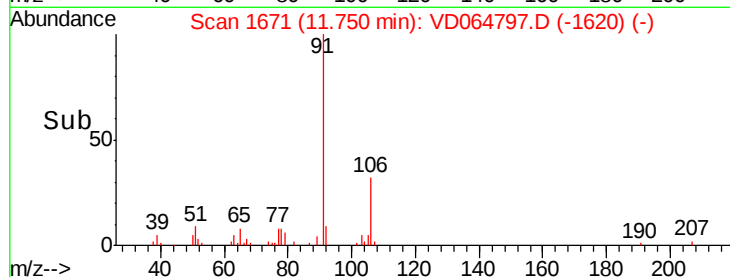
0

11.75

11.70

11.80

Time-->



#68

m/p-Xylenes

Concen: 7.747 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VD064797.D

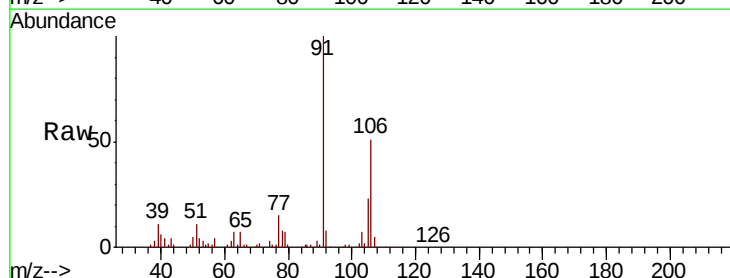
Acq: 07 Jan 2020 17:14

Tgt Ion: 106 Resp: 66931

Ion Ratio Lower Upper

106 100

91 197.5 156.3 234.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V

80000

60000

40000

20000

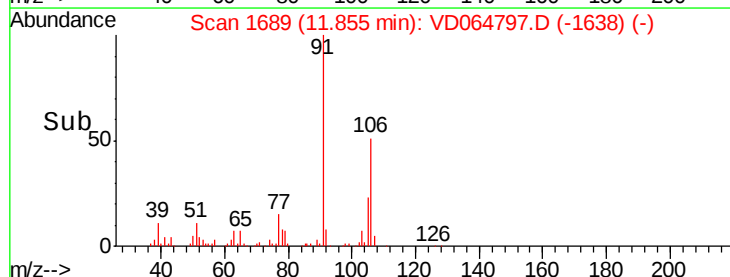
0

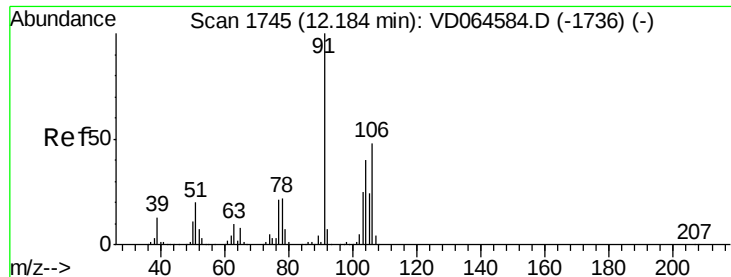
11.86

11.80

11.90

Time-->

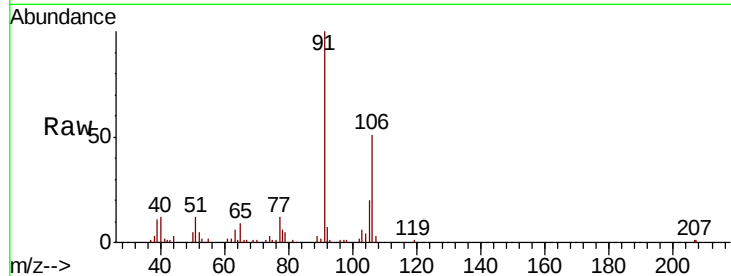




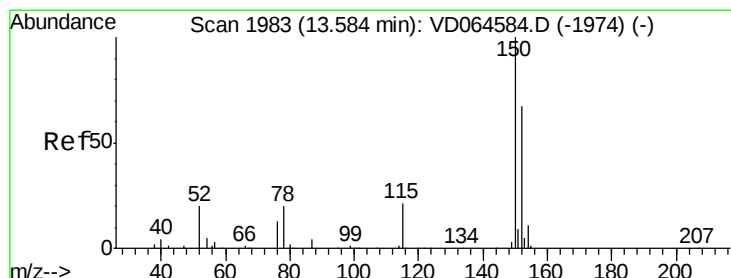
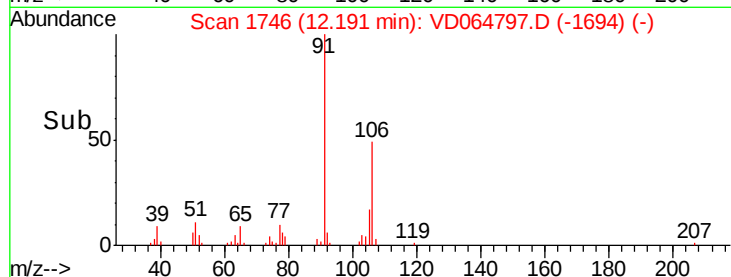
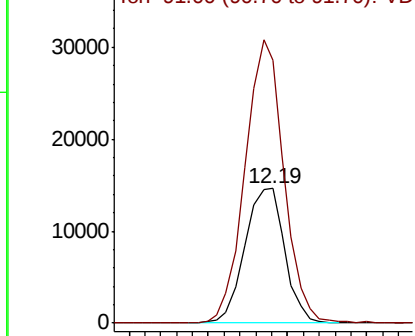
#69
o-Xylene
Concen: 3.279 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. 0.01 min
Lab File: VD064797.D
Acq: 07 Jan 2020 17:14

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 25592
Ion Ratio Lower Upper
106 100
91 204.5 104.8 314.4

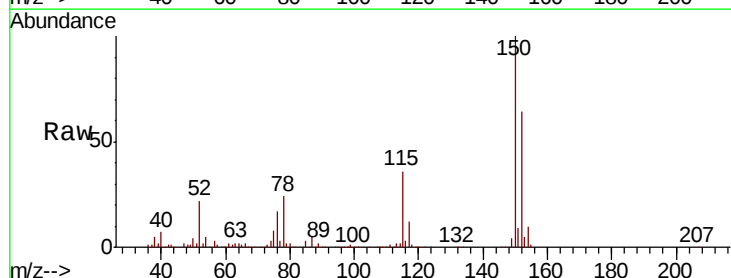


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

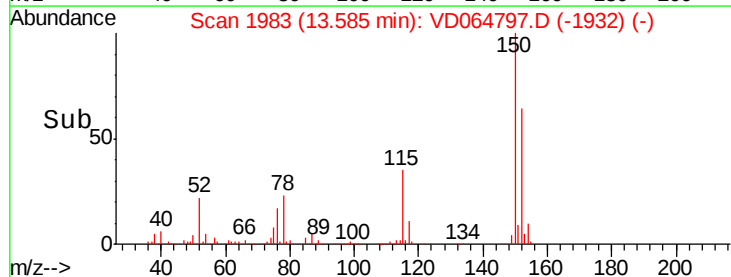
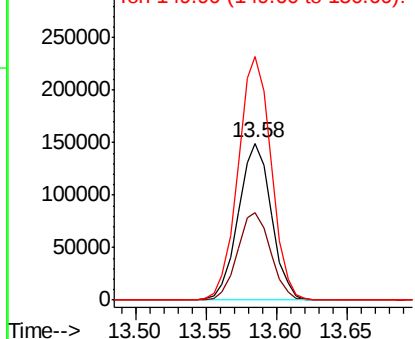


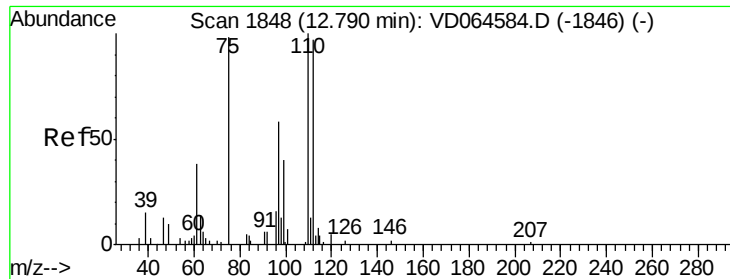
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064797.D
Acq: 07 Jan 2020 17:14

Tgt Ion:152 Resp: 243981
Ion Ratio Lower Upper
152 100
115 56.4 27.8 83.4
150 155.8 0.0 351.4



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

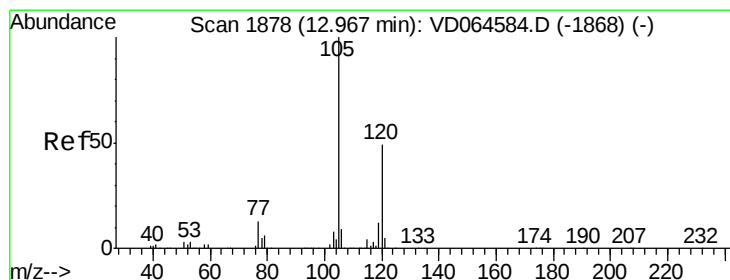
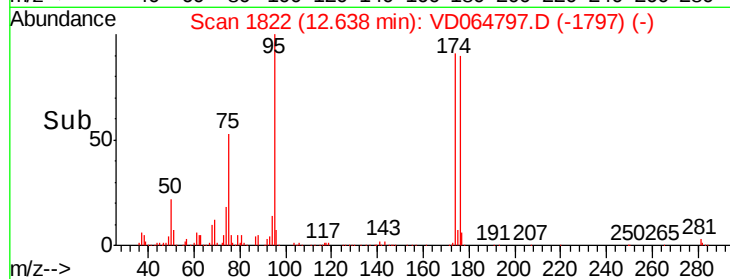
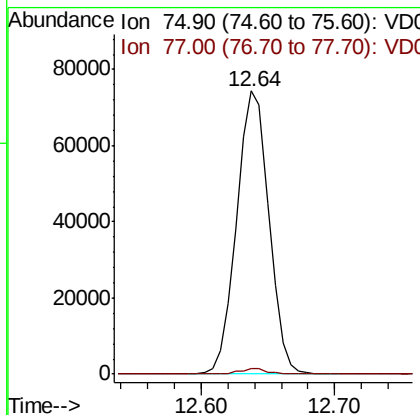
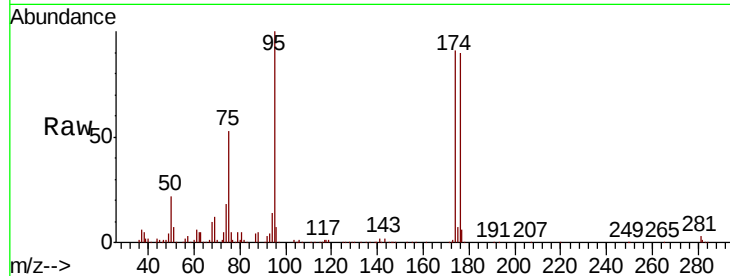




#76
 1,2,3-Trichloropropane
 Concen: 64.588 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD064797.D
 Acq: 07 Jan 2020 17:14

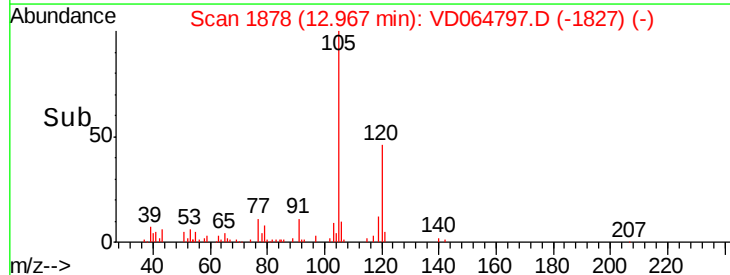
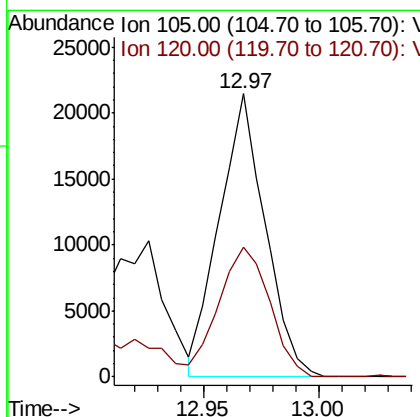
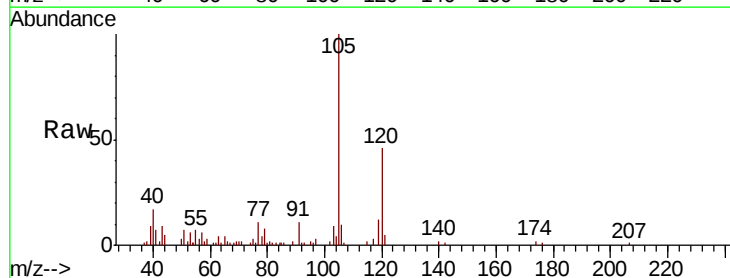
Instrument :
 MSVOA_D
 ClientSampled :

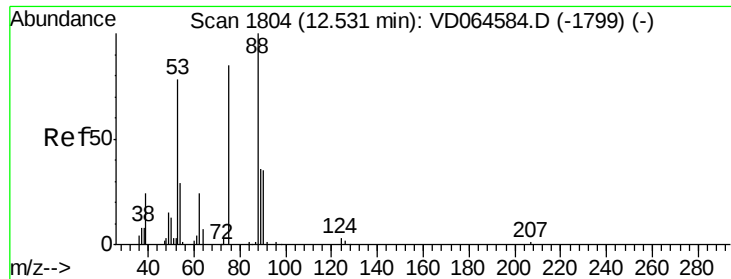
Tot Ion: 75 Resp: 124437
 Ion Ratio Lower Upper
 75 100
 77 1.6 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 2.072 ug/l
 RT: 12.97 min Scan# 1878
 Delta R.T. 0.00 min
 Lab File: VD064797.D
 Acq: 07 Jan 2020 17:14

Tgt Ion:105 Resp: 29675
 Ion Ratio Lower Upper
 105 100
 120 50.7 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 135.084 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064797.D

Acq: 07 Jan 2020 17:14

Instrument :

MSVOA_D

ClientSampleId :

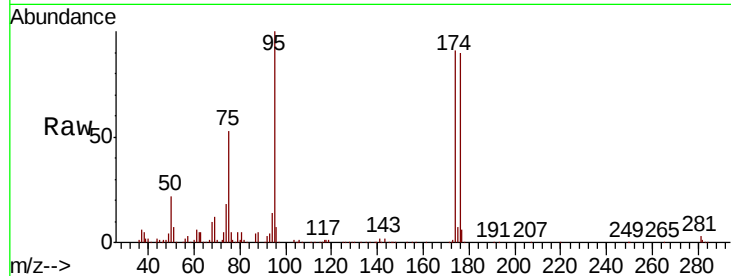
Tot Ion: 75 Resp: 124437

Ion Ratio Lower Upper

75 100

53 0.0 78.8 118.2#

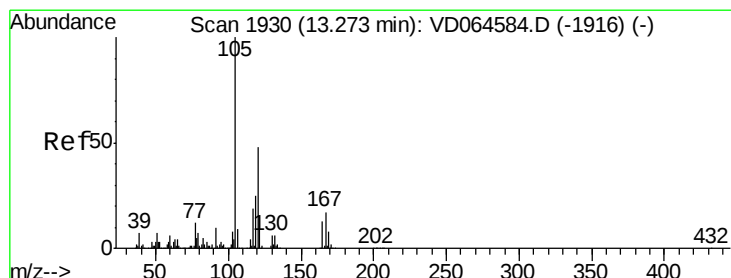
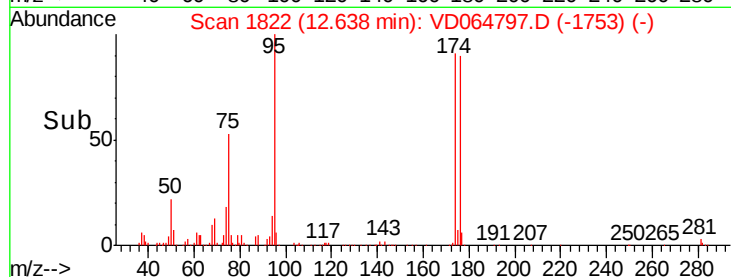
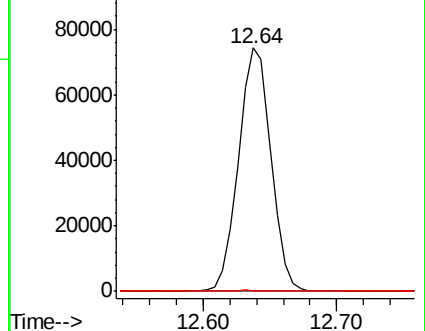
89 0.2 38.3 57.5#



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: 5.410 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VD064797.D

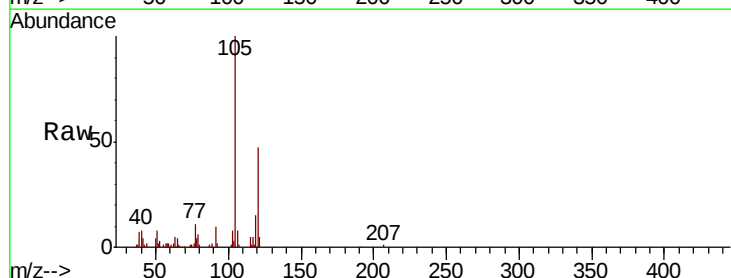
Acq: 07 Jan 2020 17:14

Tgt Ion:105 Resp: 77164

Ion Ratio Lower Upper

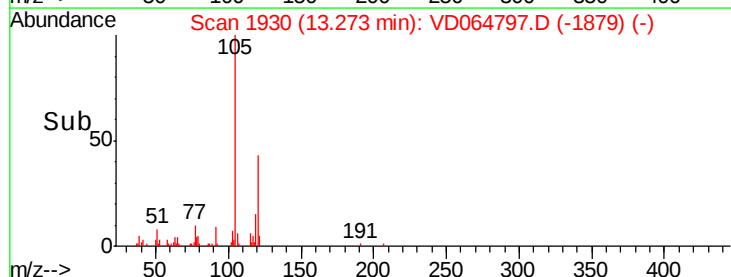
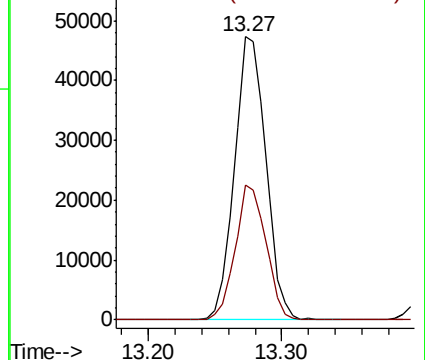
105 100

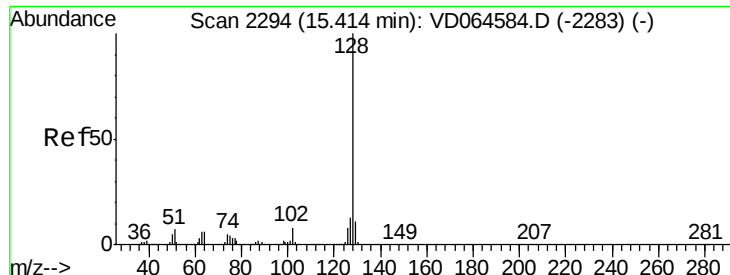
120 46.5 23.8 71.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 13.545 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD064797.D

Acq: 07 Jan 2020 17:14

Instrument :

MSVOA_D

ClientSampleId :

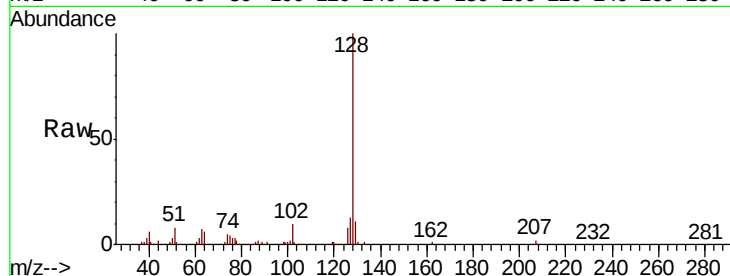
Tot Ion:128 Resp: 109876

Ion Ratio Lower Upper

128 100

127 13.4 10.3 15.5

129 11.3 8.5 12.7



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

