

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082420\
 Data File : VD066390.D
 Acq On : 24 Aug 2020 19:26
 Operator : VA/SY
 Sample : L3786-05
 Misc : 6.34G/5.00ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 129

Quant Time: Aug 25 02:43:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082120S.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 13:36:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.97	168	236440	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	362594	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	324377	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	134606	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	123979	53.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.96%	
35) Dibromofluoromethane	7.91	113	117888	51.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.98%	
50) Toluene-d8	10.33	98	420548	50.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.38%	
62) 4-Bromofluorobenzene	12.63	95	140108	47.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.20%	

Target Compounds

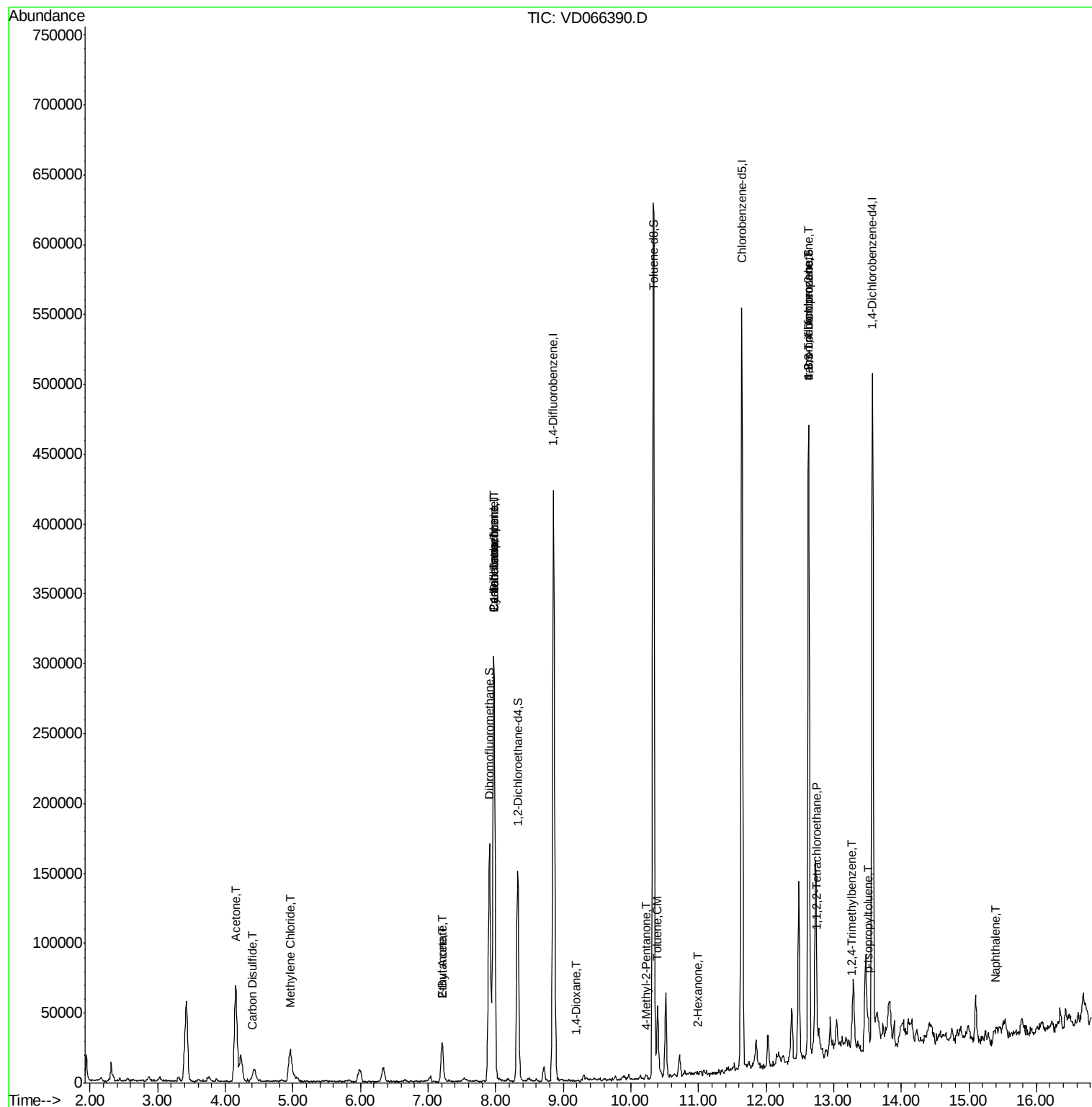
						Qvalue
11) Tert butyl alcohol	5.19	59	178	Below Cal	#	71
16) Acetone	4.16	43	124272	297.368	ug/l	94
17) Carbon Disulfide	4.40	76	7225	1.237	ug/l #	72
20) Methylene Chloride	4.95	84	17555	1.750	ug/l	94
25) 2-Butanone	7.21	43	42131	88.804	ug/l	94
31) Cyclohexane	7.98	56	5404	1.679	ug/l #	33
36) 1,1-Dichloropropene	7.97	75	15274	4.617	ug/l #	51
37) Ethyl Acetate	7.21	43	42131	37.441	ug/l #	67
38) Carbon Tetrachloride	7.98	117	23545	5.462	ug/l #	14
49) 1,4-Dioxane	9.19	88	86	6.029	ug/l #	29
51) 4-Methyl-2-Pentanone	10.23	43	2204	2.017	ug/l #	76
52) Toluene	10.40	92	20885	3.542	ug/l	98
59) 2-Hexanone	10.98	43	1312	1.702	ug/l	87
75) 1,1,2,2-Tetrachloroethane	12.76	83	2133	1.656	ug/l #	30
76) 1,2,3-Trichloropropane	12.63	75	73650	77.775	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.63	75	73650	165.092	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.27	105	7686	1.005	ug/l	97
86) p-Isopropyltoluene	13.51	119	11380	1.332	ug/l	88
95) Naphthalene	15.40	128	8982	1.992	ug/l #	87

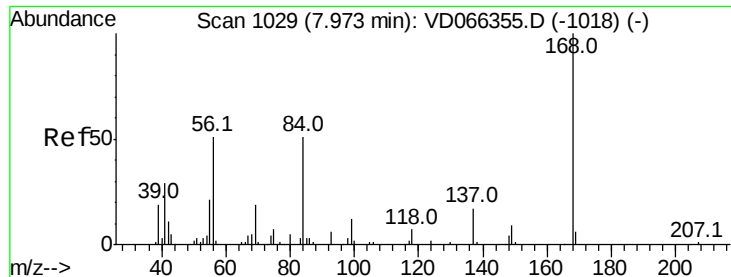
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 21 13:36:12 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VD066390.D

Acq: 24 Aug 2020 19:26

Instrument :

MSVOA_D

ClientSampleId :

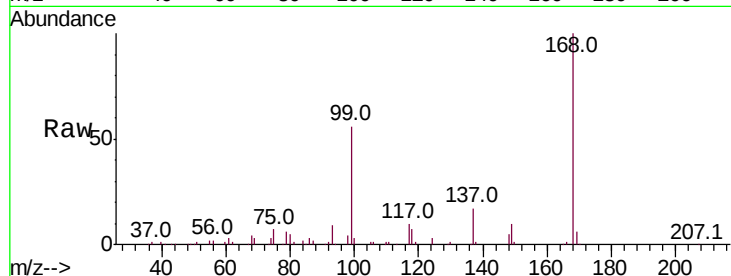
129

Tot Ion:168 Resp: 236440

Ion Ratio Lower Upper

168 100

99 56.2 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.97

120000

100000

80000

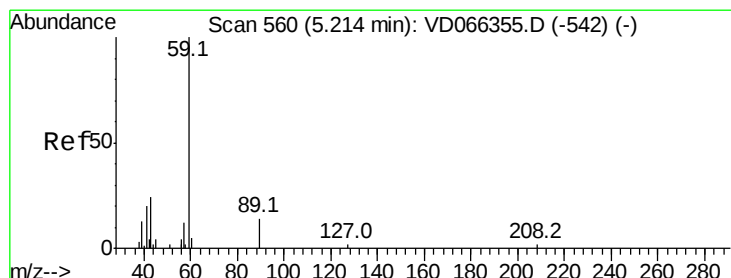
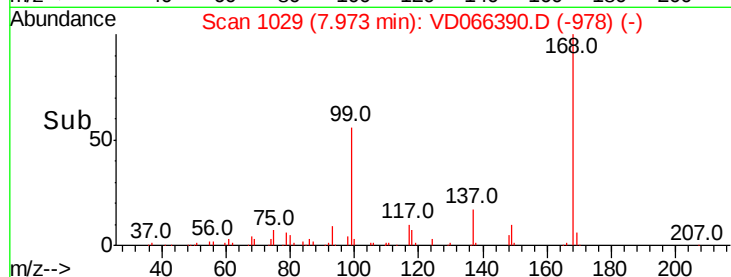
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.19 min Scan# 556

Delta R.T. -0.02 min

Lab File: VD066390.D

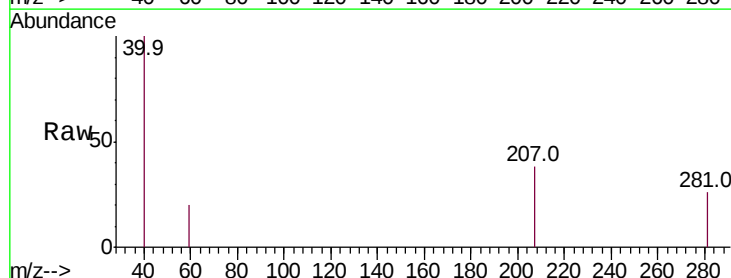
Acq: 24 Aug 2020 19:26

Tgt Ion: 59 Resp: 178

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.19

300

250

200

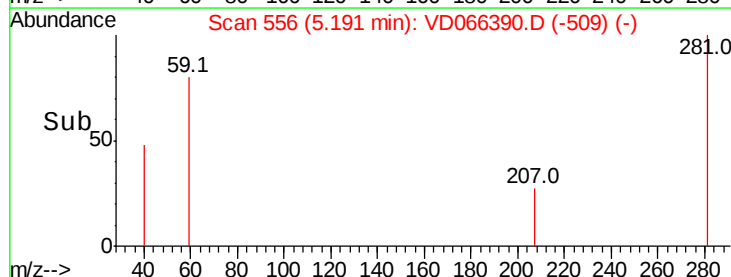
150

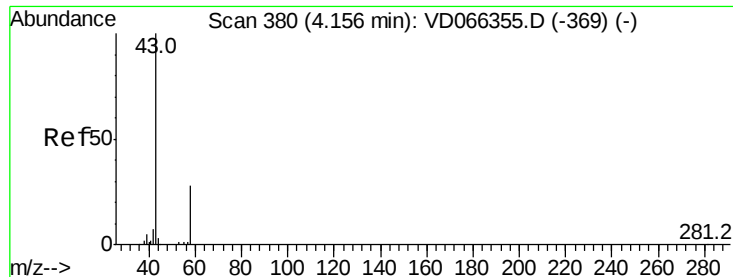
100

50

0

Time-->





#16

Acetone

Concen: 297.368 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.00 min

Lab File: VD066390.D

Acq: 24 Aug 2020 19:26

Instrument :

MSVOA_D

ClientSampleId :

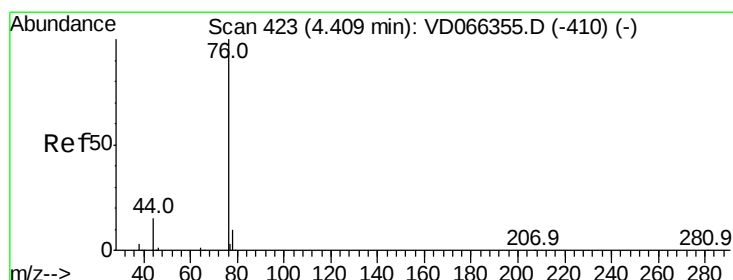
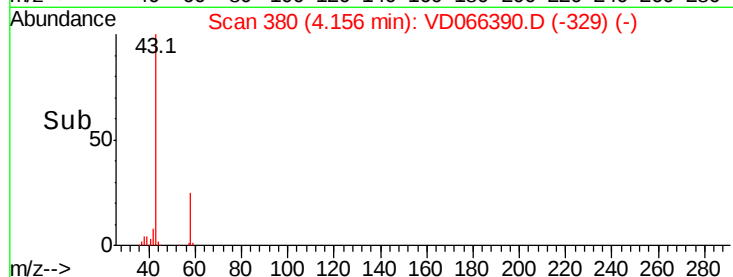
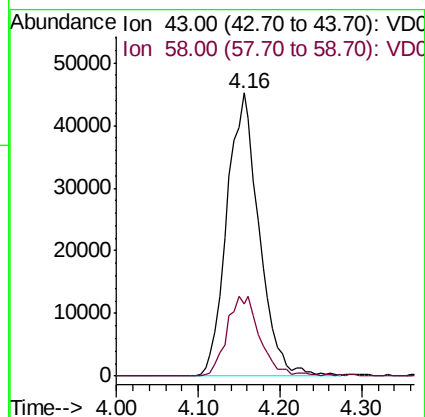
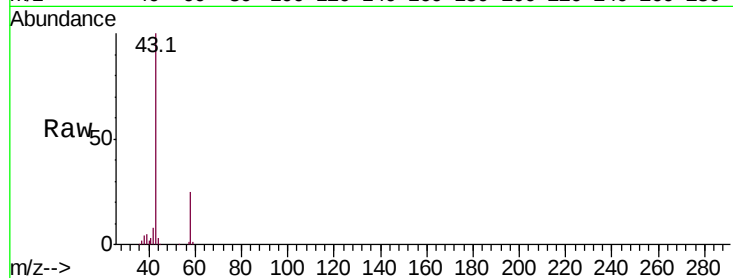
129

Tot Ion: 43 Resp: 124272

Ion Ratio Lower Upper

43 100

58 25.4 22.7 34.1



#17

Carbon Disulfide

Concen: 1.237 ug/l

RT: 4.40 min Scan# 421

Delta R.T. -0.01 min

Lab File: VD066390.D

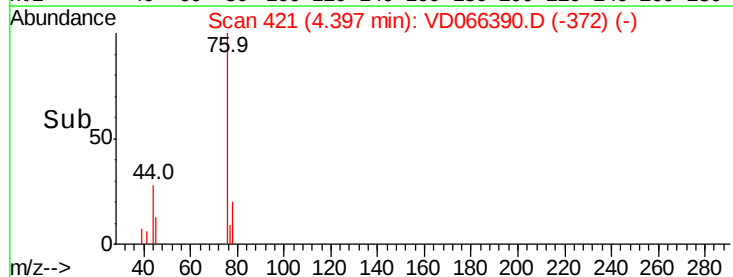
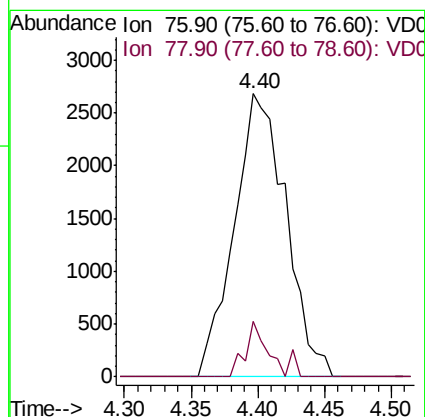
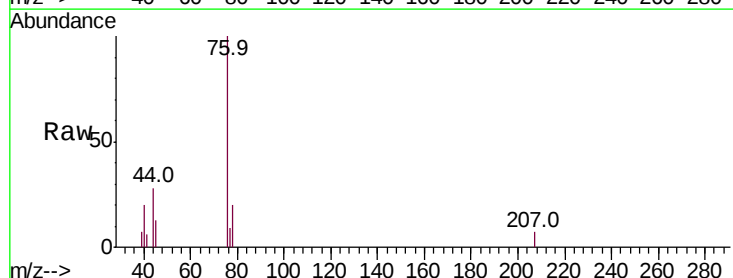
Acq: 24 Aug 2020 19:26

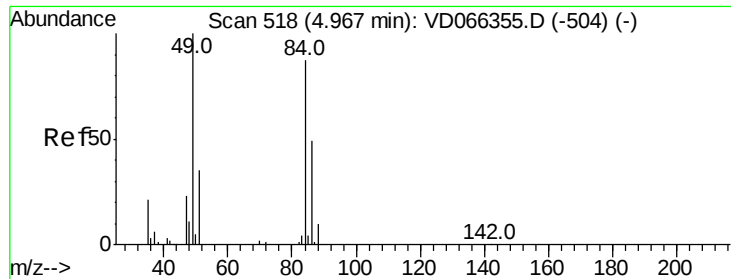
Tgt Ion: 76 Resp: 7225

Ion Ratio Lower Upper

76 100

78 19.8 7.7 11.5#





#20

Methylene Chloride

Concen: 1.750 ug/l

RT: 4.95 min Scan# 515

Delta R.T. -0.02 min

Lab File: VD066390.D

Acq: 24 Aug 2020 19:26

Instrument :
MSVOA_D
ClientSampleId :
129

Tot Ion: 84 Resp: 17555

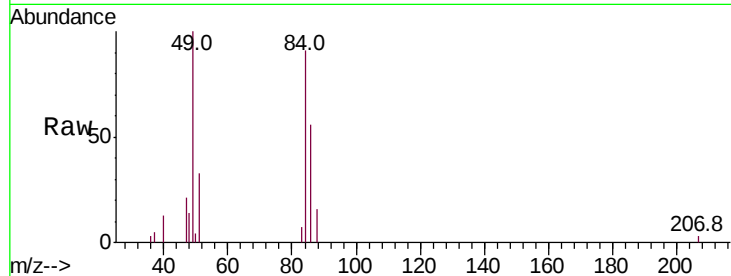
Ion Ratio Lower Upper

84 100

49 110.0 92.5 138.7

51 36.9 32.5 48.7

86 61.3 45.0 67.6

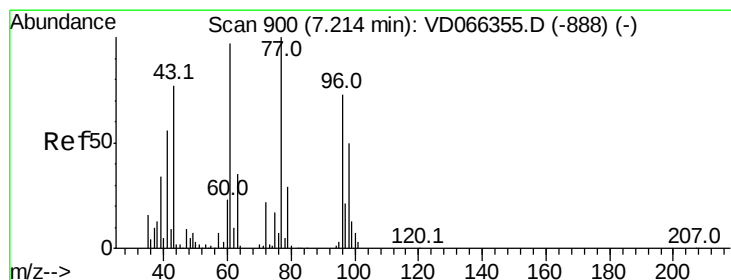
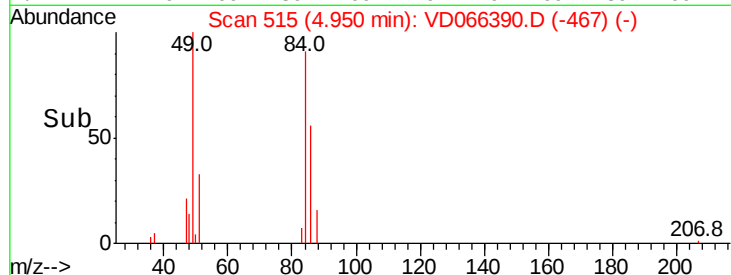
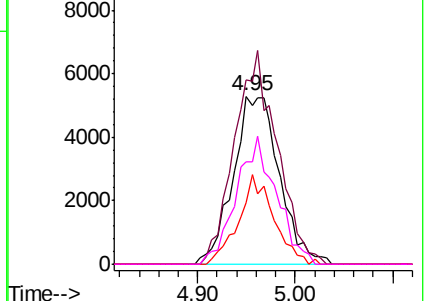


Abundance Ion 83.90 (83.60 to 84.60): VDC

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: 88.804 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD066390.D

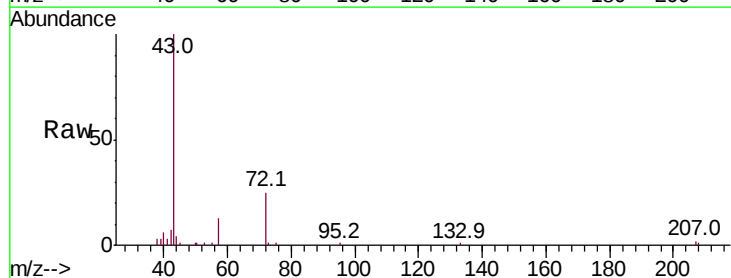
Acq: 24 Aug 2020 19:26

Tgt Ion: 43 Resp: 42131

Ion Ratio Lower Upper

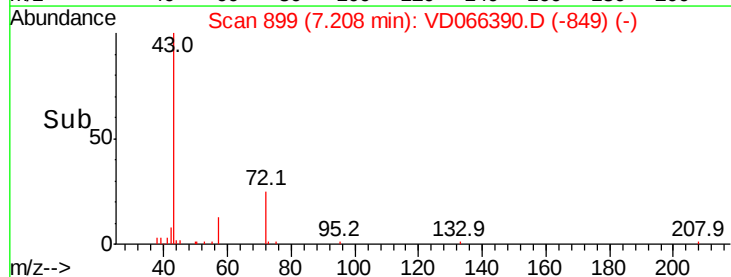
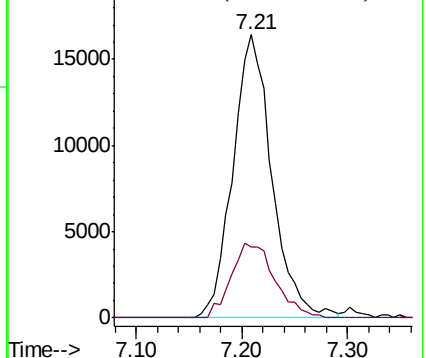
43 100

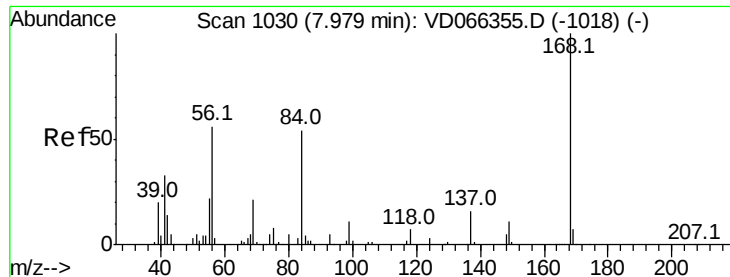
72 25.0 22.5 33.7



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC





#31

Cyclohexane

Concen: 1.679 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

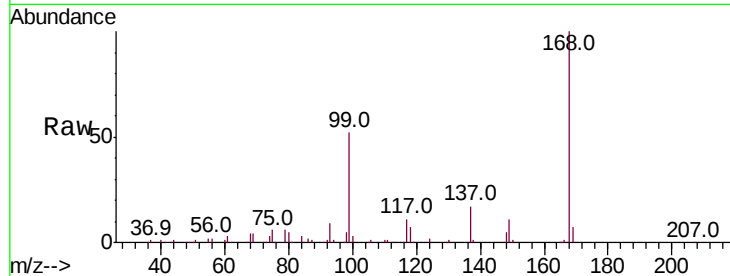
Lab File: VD066390.D

Acq: 24 Aug 2020 19:26

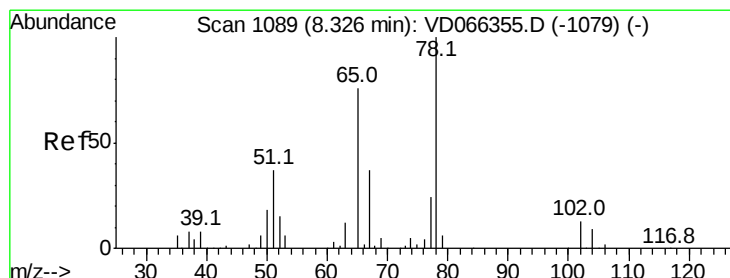
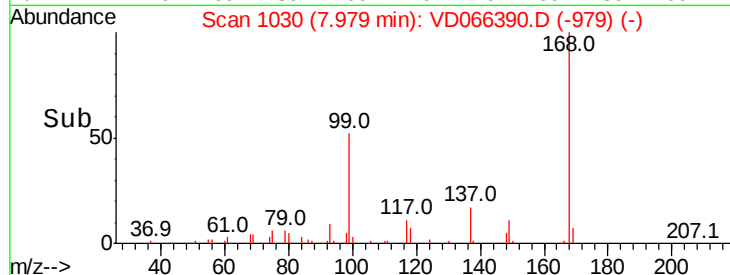
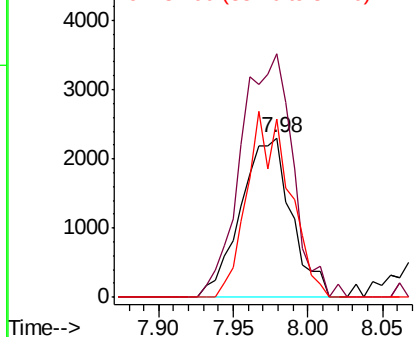
Instrument :
MSVOA_D
ClientSampled :
129

Tot Ion: 56 Resp: 5404

Ion	Ratio	Lower	Upper
56	100		
69	153.0	29.6	44.4#
84	112.4	76.6	115.0



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: 53.484 ug/l

RT: 8.33 min Scan# 1089

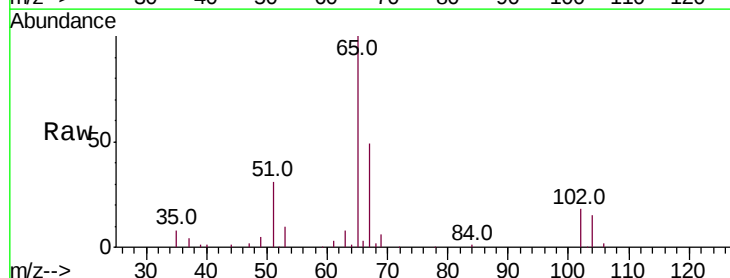
Delta R.T. -0.00 min

Lab File: VD066390.D

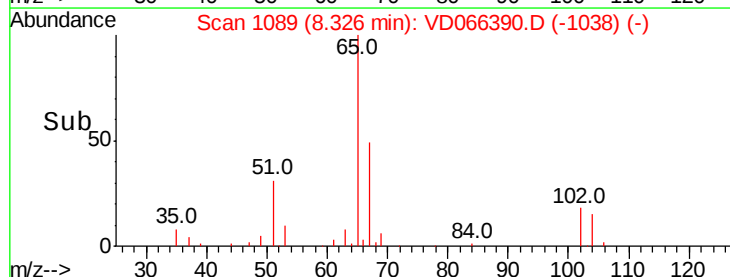
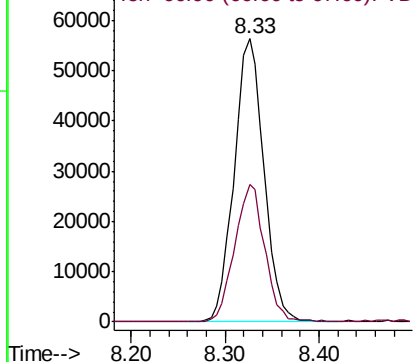
Acq: 24 Aug 2020 19:26

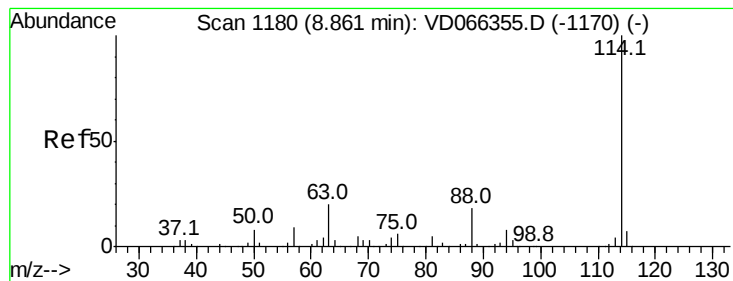
Tgt Ion: 65 Resp: 123979

Ion	Ratio	Lower	Upper
65	100		
67	48.7	0.0	101.6



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD066390.D

Acq: 24 Aug 2020 19:26

Instrument :

MSVOA_D

ClientSampleId :

129

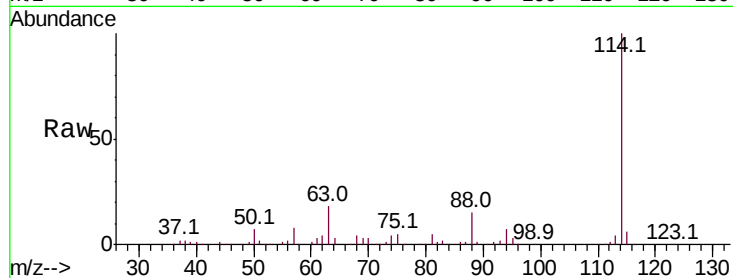
Tot Ion:114 Resp: 362594

Ion Ratio Lower Upper

114 100

63 17.7 0.0 40.8

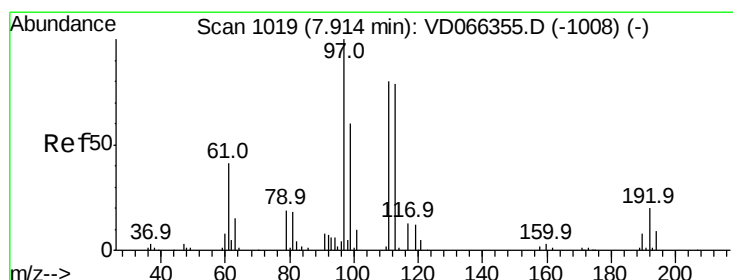
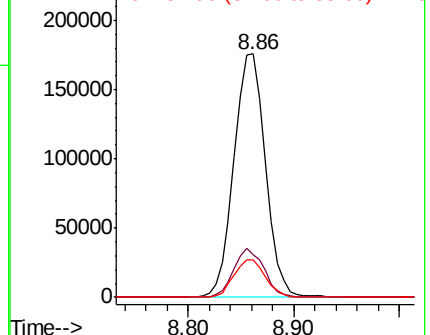
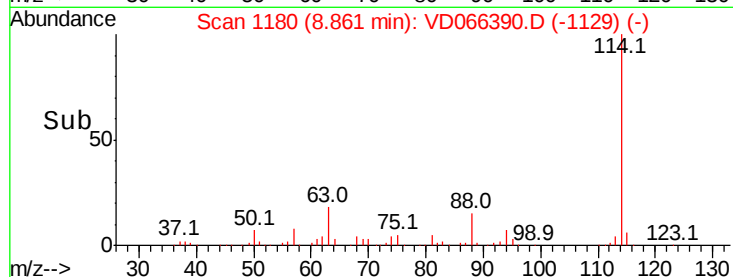
88 15.2 0.0 35.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 51.994 ug/l

RT: 7.91 min Scan# 1018

Delta R.T. -0.01 min

Lab File: VD066390.D

Acq: 24 Aug 2020 19:26

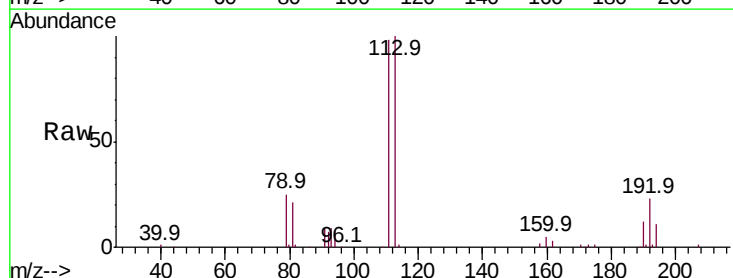
Tgt Ion:113 Resp: 117888

Ion Ratio Lower Upper

113 100

111 103.8 80.3 120.5

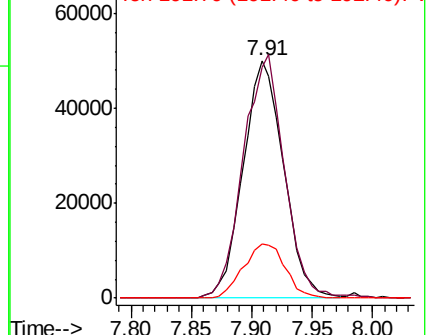
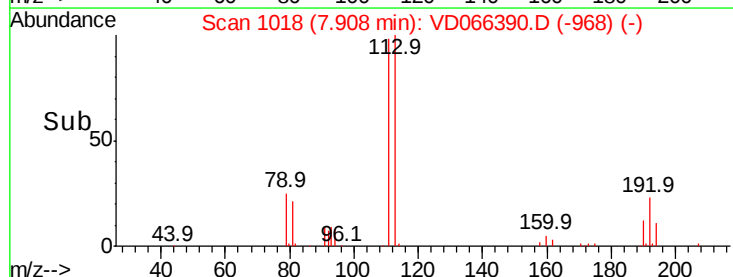
192 23.4 19.0 28.6

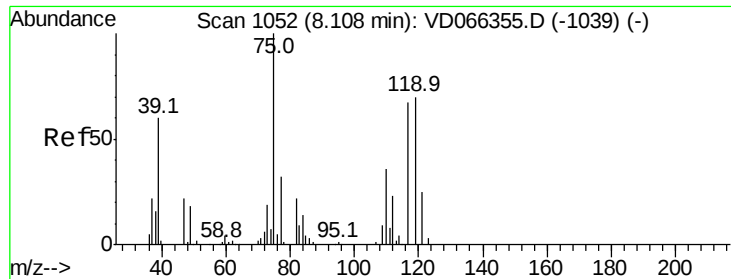


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.617 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD066390.D

Acq: 24 Aug 2020 19:26

Instrument :

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ClientSampleId :

129

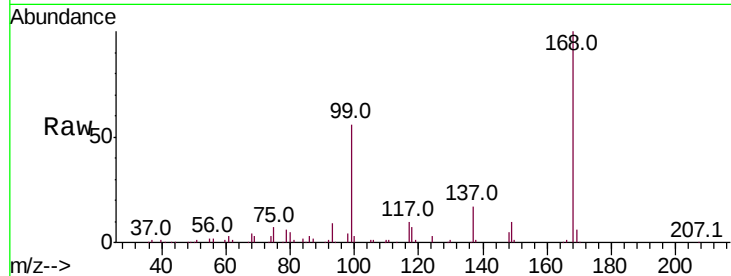
Tot Ion: 75 Resp: 15274

Ion Ratio Lower Upper

75 100

110 12.6 18.7 56.1#

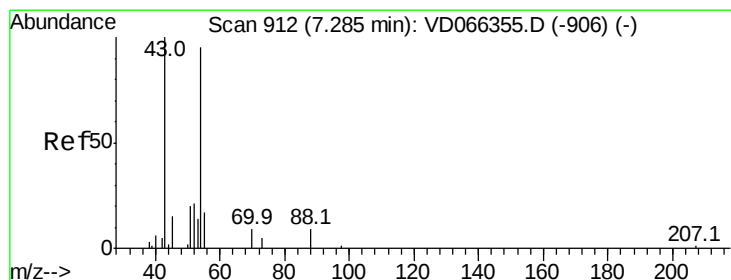
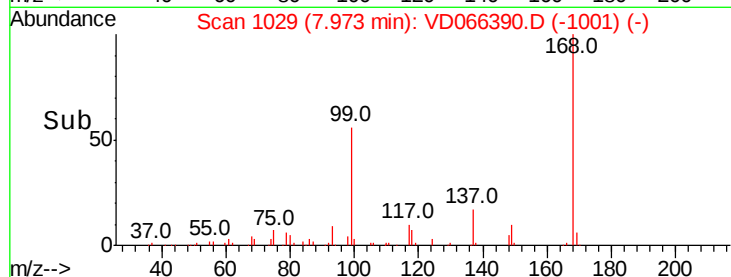
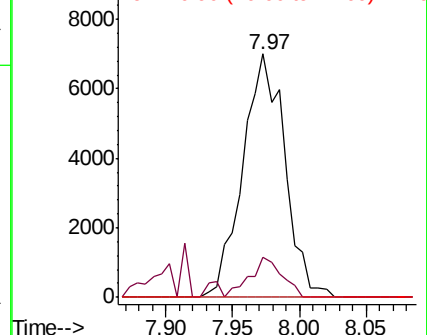
77 0.0 25.2 37.8#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#37

Ethyl Acetate

Concen: 37.441 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.08 min

Lab File: VD066390.D

Acq: 24 Aug 2020 19:26

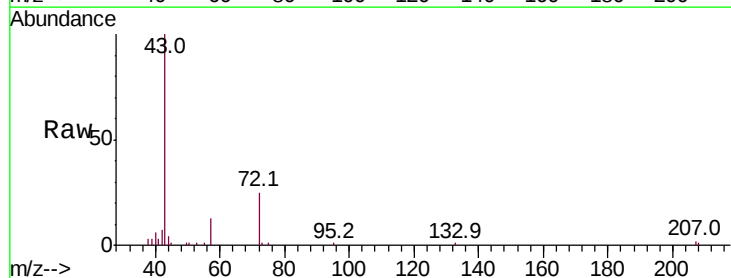
Tgt Ion: 43 Resp: 42131

Ion Ratio Lower Upper

43 100

61 0.0 13.3 19.9#

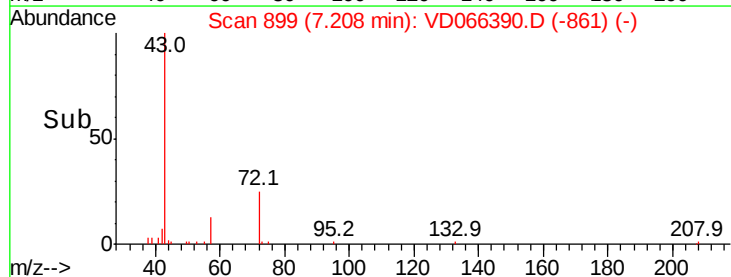
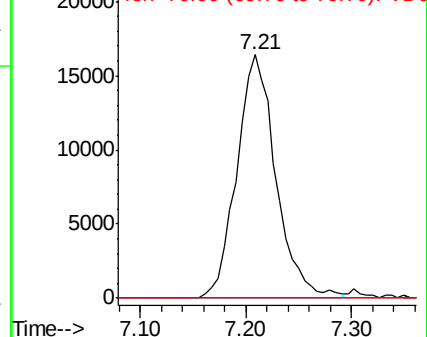
70 0.0 3.5 5.3#

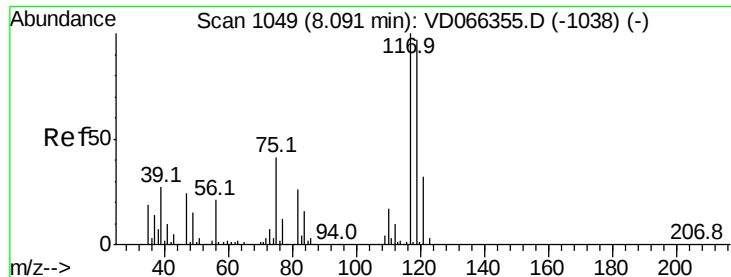


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.462 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066390.D

Acq: 24 Aug 2020 19:26

Instrument :

MSVOA_D

ClientSampled :

129

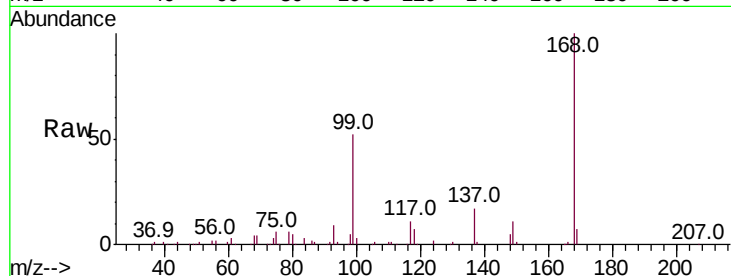
Tot Ion:117 Resp: 23545

Ion Ratio Lower Upper

117 100

119 3.3 77.2 115.8#

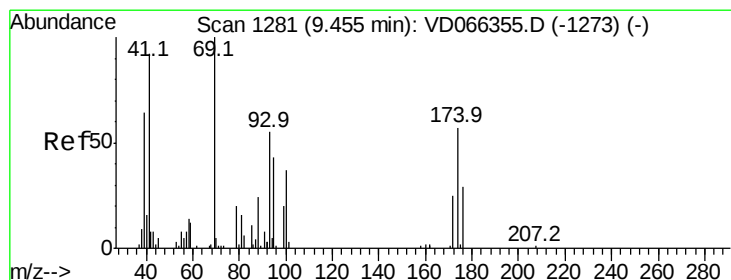
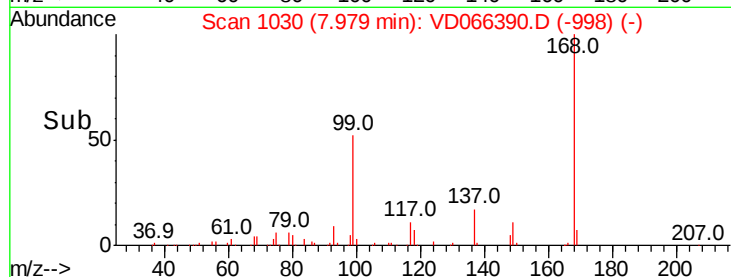
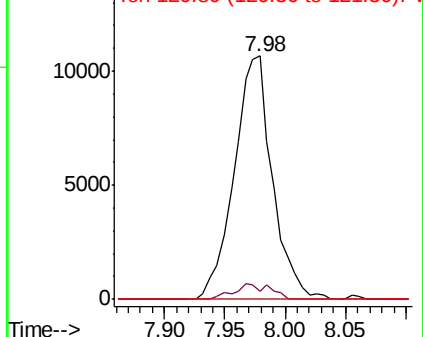
121 0.0 25.8 38.8#



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



#49

1,4-Dioxane

Concen: 6.029 ug/l

RT: 9.19 min Scan# 1236

Delta R.T. -0.26 min

Lab File: VD066390.D

Acq: 24 Aug 2020 19:26

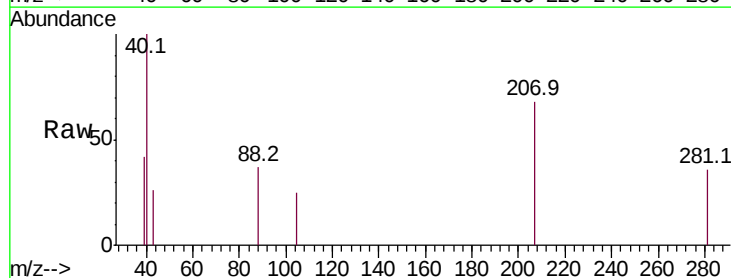
Tgt Ion: 88 Resp: 86

Ion Ratio Lower Upper

88 100

43 0.0 29.4 44.0#

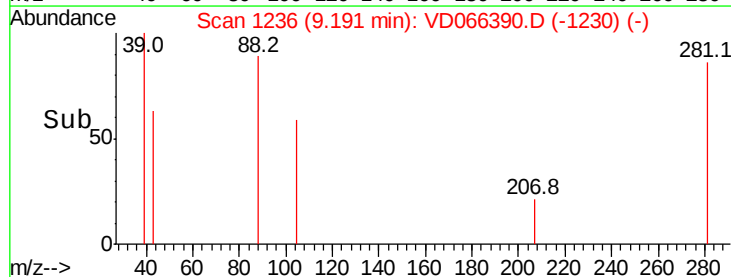
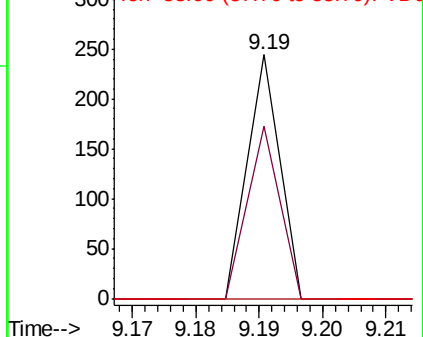
58 0.0 45.4 68.2#

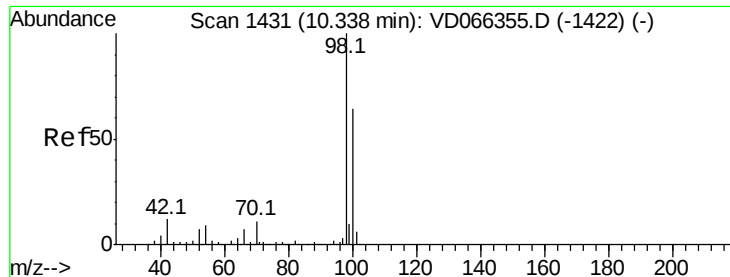


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

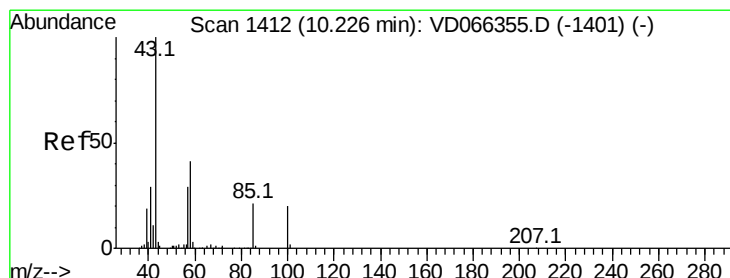
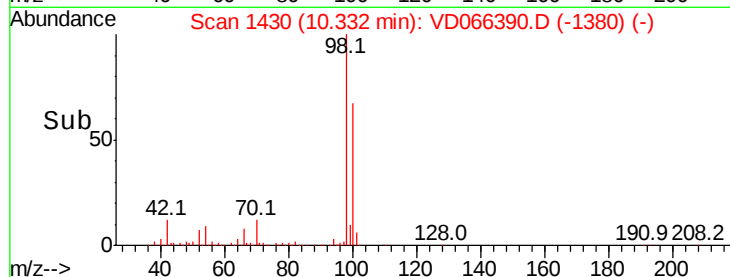
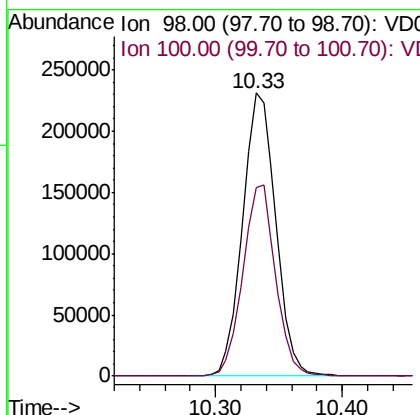
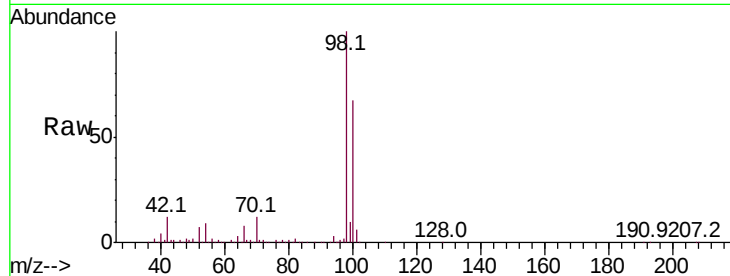




#50
Toluene-d8
Concen: 50.694 ug/l
RT: 10.33 min Scan# 1430
Delta R.T. -0.01 min
Lab File: VD066390.D
Acq: 24 Aug 2020 19:26

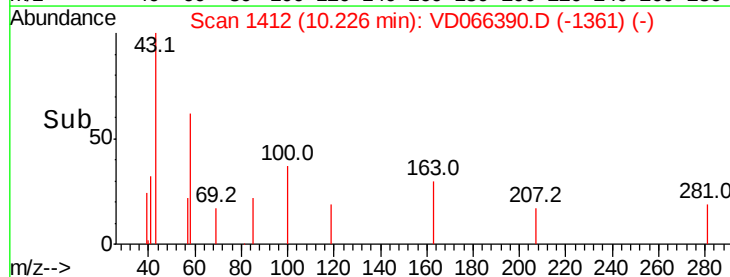
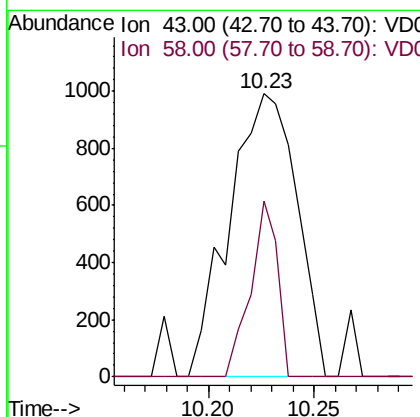
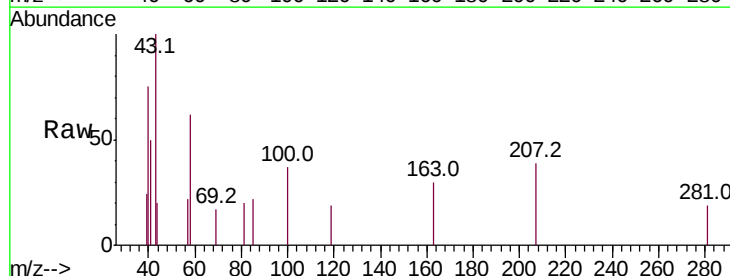
Instrument :
MSVOA_D
ClientSampleId :
129

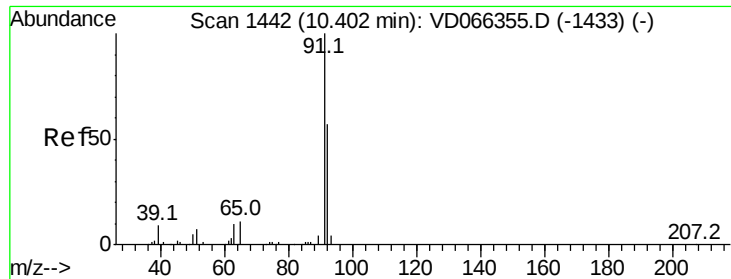
Tot Ion: 98 Resp: 420548
Ion Ratio Lower Upper
98 100
100 66.6 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 2.017 ug/l
RT: 10.23 min Scan# 1412
Delta R.T. -0.00 min
Lab File: VD066390.D
Acq: 24 Aug 2020 19:26

Tgt Ion: 43 Resp: 2204
Ion Ratio Lower Upper
43 100
58 24.8 31.4 47.2#





#52

Toluene

Concen: 3.542 ug/l

RT: 10.40 min Scan# 1441

Delta R.T. -0.01 min

Lab File: VD066390.D

Acq: 24 Aug 2020 19:26

Instrument :

MSVOA_D

ClientSampled :

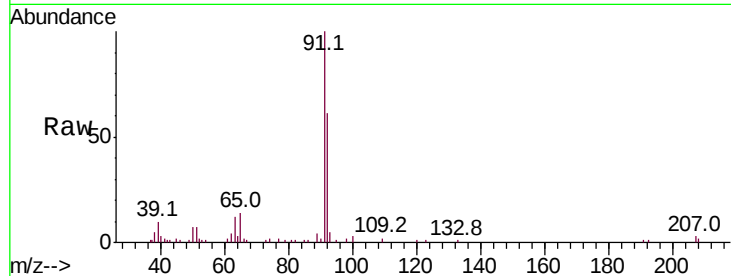
129

Tot Ion: 92 Resp: 20885

Ion Ratio Lower Upper

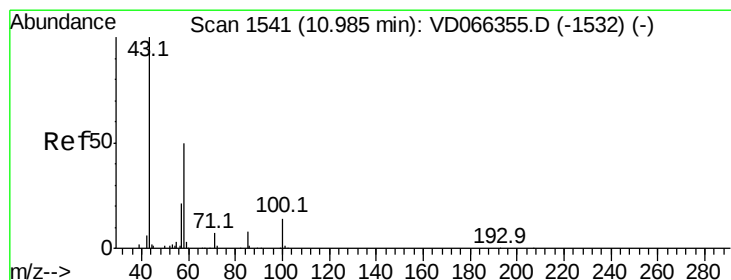
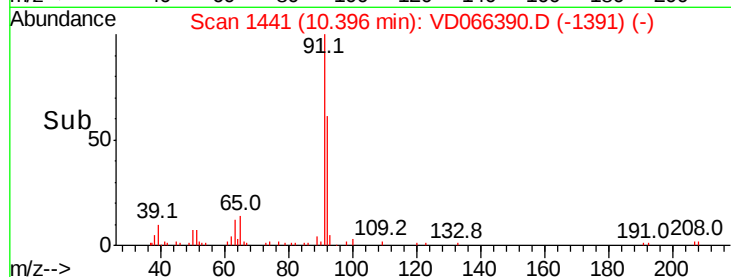
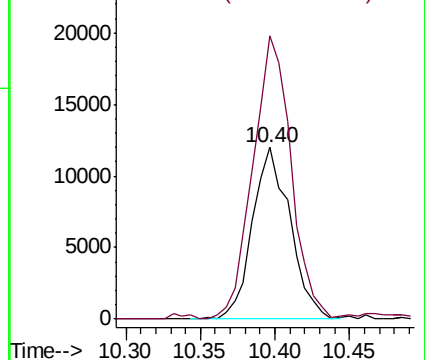
92 100

91 167.6 135.8 203.6



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#59

2-Hexanone

Concen: 1.702 ug/l

RT: 10.98 min Scan# 1540

Delta R.T. -0.01 min

Lab File: VD066390.D

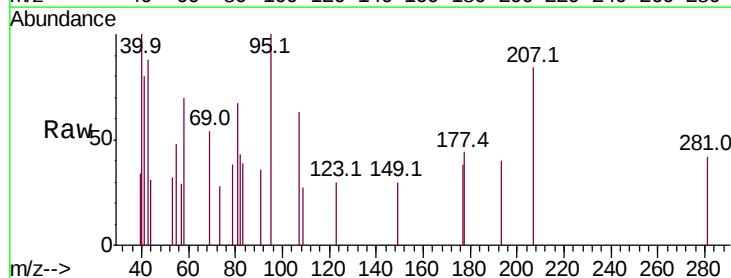
Acq: 24 Aug 2020 19:26

Tgt Ion: 43 Resp: 1312

Ion Ratio Lower Upper

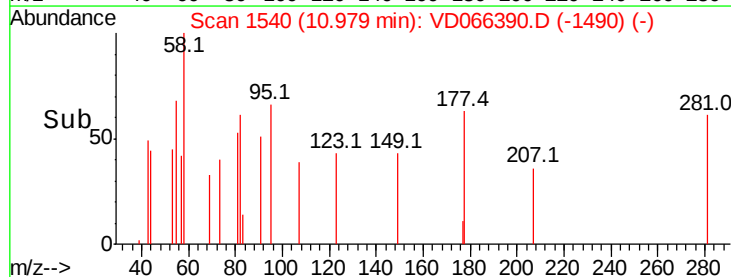
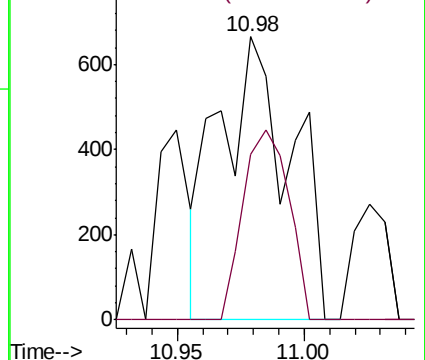
43 100

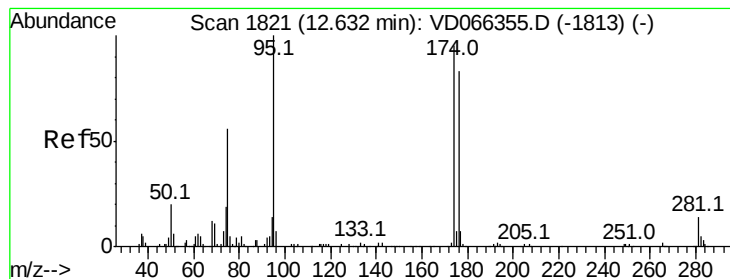
58 43.1 26.3 78.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#62

4-Bromofluorobenzene

Concen: 47.595 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066390.D

Acq: 24 Aug 2020 19:26

Instrument :

MSVOA_D

ClientSampleId :

129

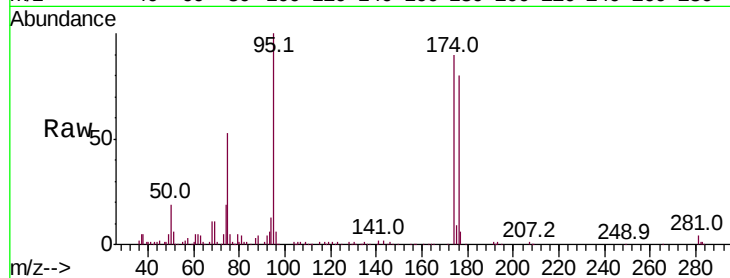
Tot Ion: 95 Resp: 140108

Ion Ratio Lower Upper

95 100

174 92.9 0.0 183.4

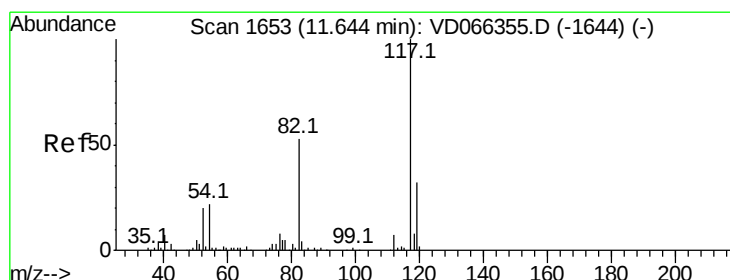
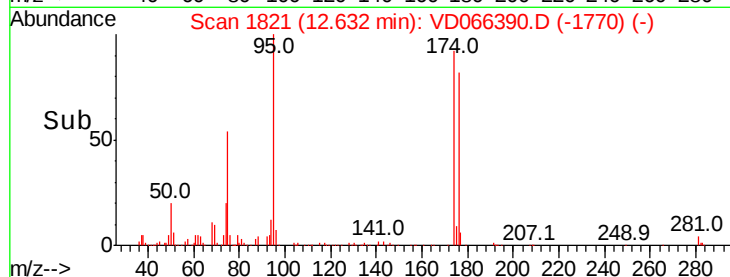
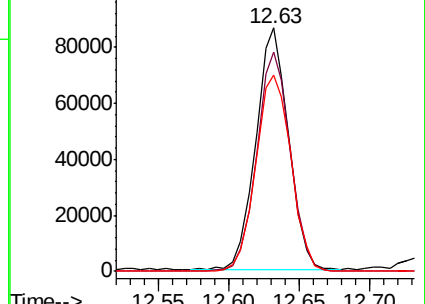
176 87.4 0.0 173.8



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: 11.64 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VD066390.D

Acq: 24 Aug 2020 19:26

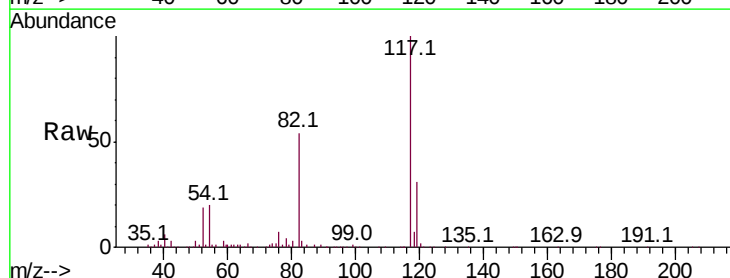
Tgt Ion: 117 Resp: 324377

Ion Ratio Lower Upper

117 100

82 53.6 42.8 64.2

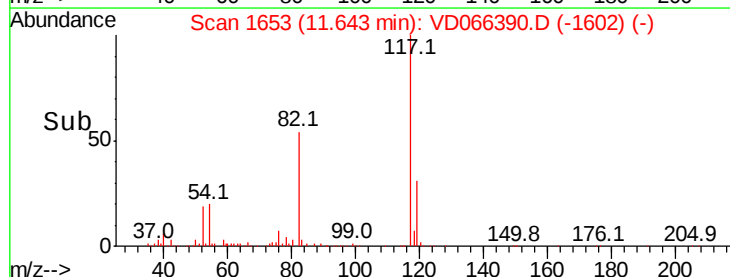
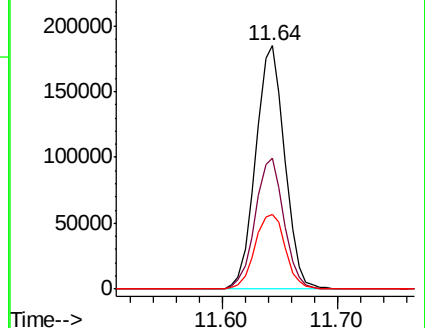
119 30.6 25.8 38.8

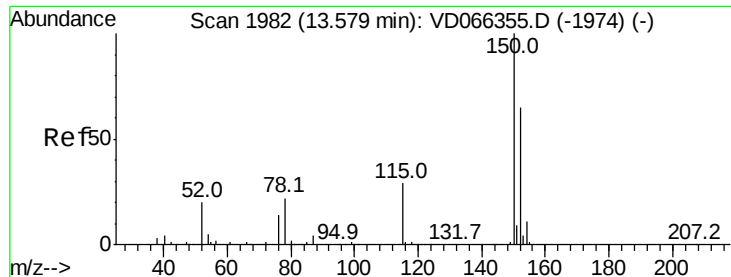


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1981

Delta R.T. -0.01 min

Lab File: VD066390.D

Acq: 24 Aug 2020 19:26

Instrument :

MSVOA_D

ClientSampleId :

129

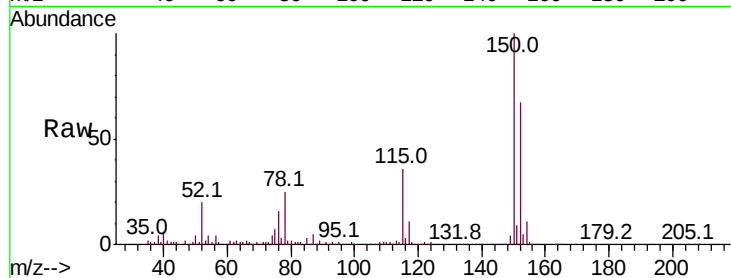
Tot Ion:152 Resp: 134606

Ion Ratio Lower Upper

152 100

115 57.5 28.3 85.0

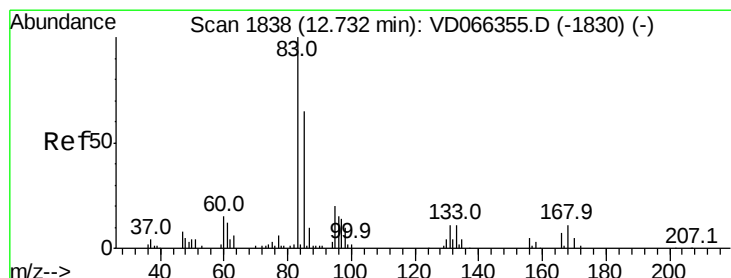
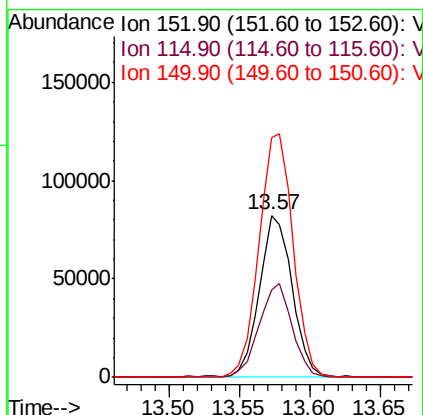
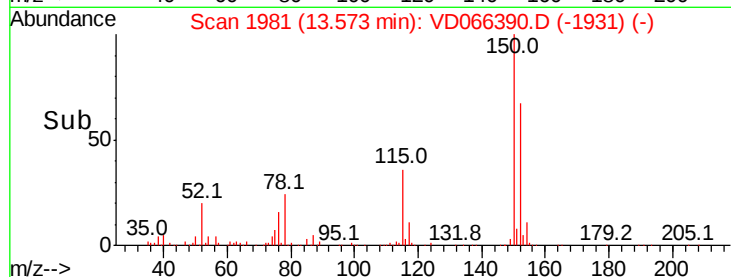
150 156.1 0.0 343.2



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



#75

1,1,2,2-Tetrachloroethane

Concen: 1.656 ug/l

RT: 12.76 min Scan# 1842

Delta R.T. 0.02 min

Lab File: VD066390.D

Acq: 24 Aug 2020 19:26

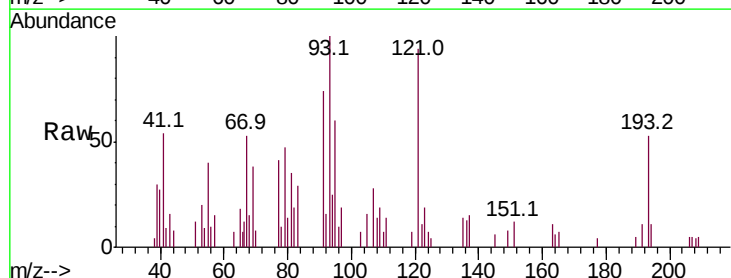
Tgt Ion: 83 Resp: 2133

Ion Ratio Lower Upper

83 100

131 7.8 7.0 20.9

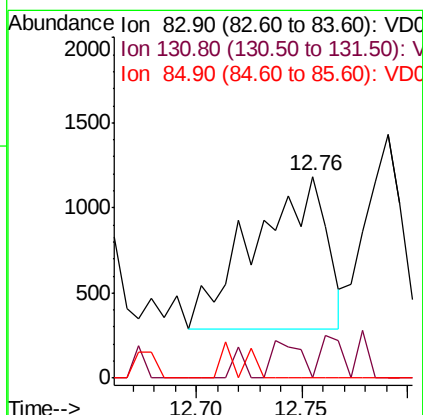
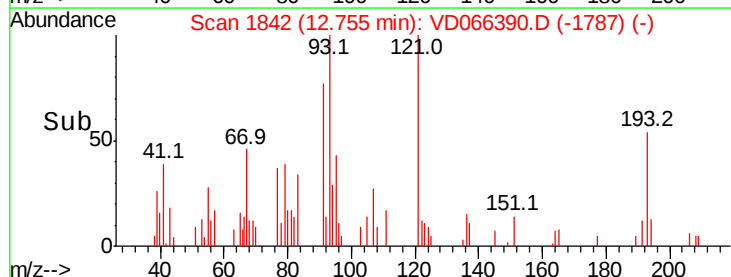
85 0.0 32.4 97.0#

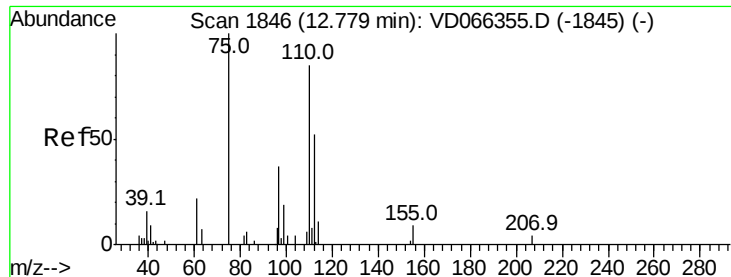


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 77.775 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066390.D

Acq: 24 Aug 2020 19:26

Instrument :

MSVOA_D

ClientSampled :

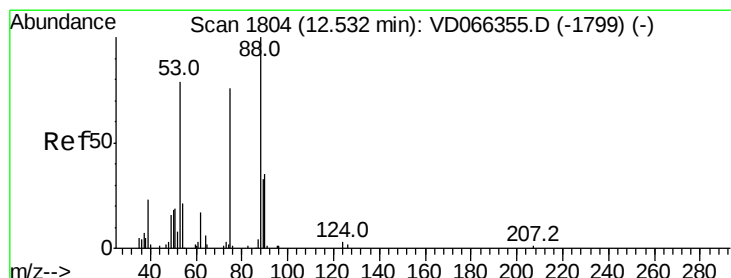
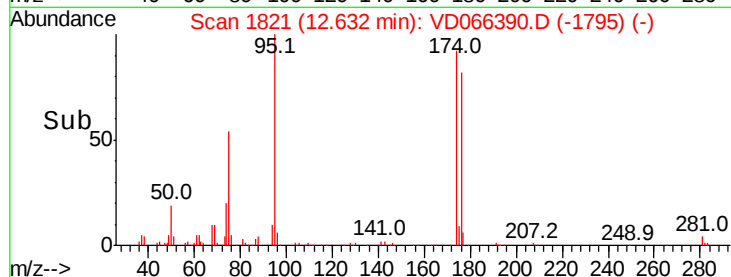
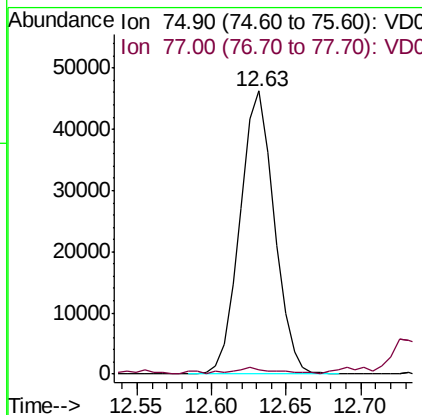
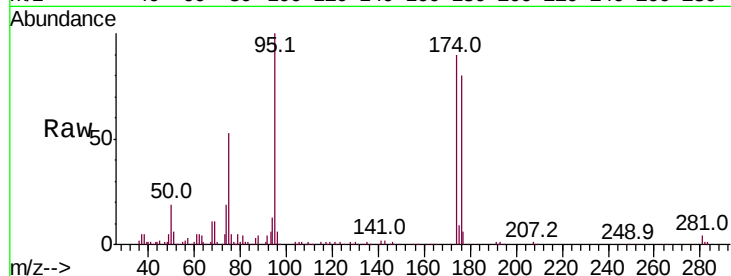
129

Tot Ion: 75 Resp: 73650

Ion Ratio Lower Upper

75 100

77 2.9 182.9 548.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 165.092 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066390.D

Acq: 24 Aug 2020 19:26

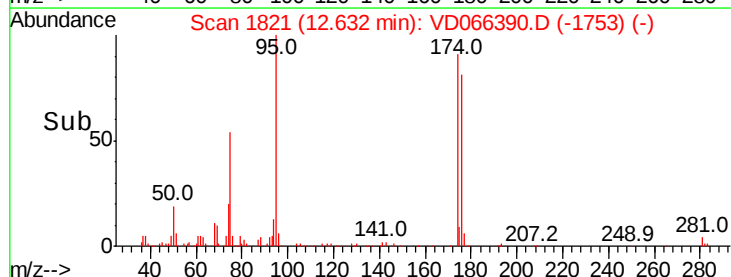
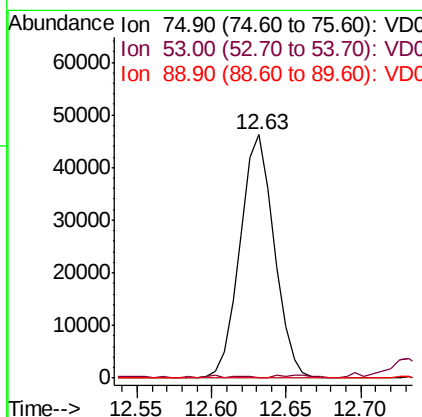
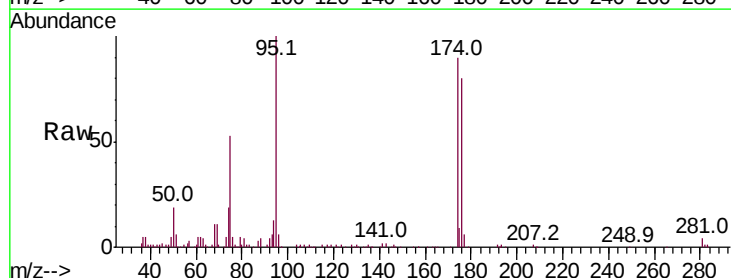
Tgt Ion: 75 Resp: 73650

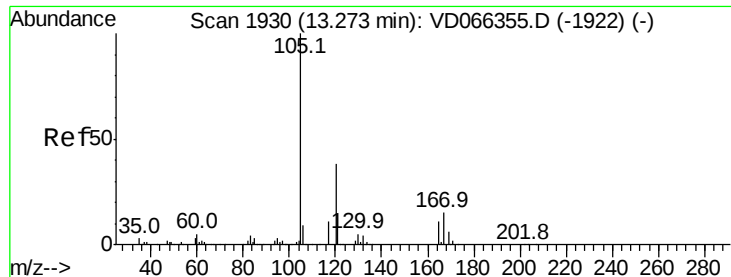
Ion Ratio Lower Upper

75 100

53 1.2 87.4 131.2#

89 0.0 39.4 59.0#

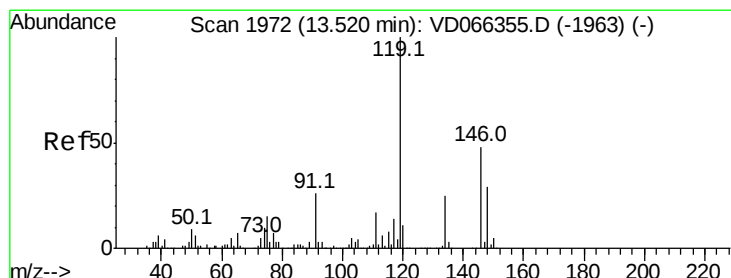
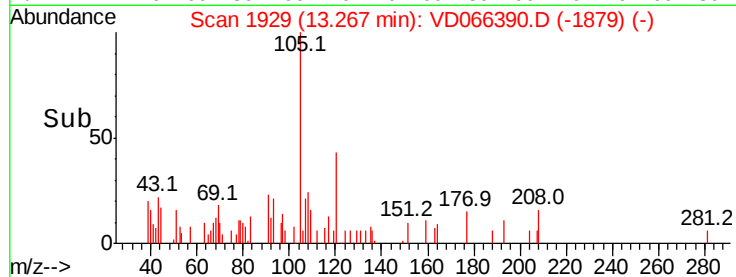
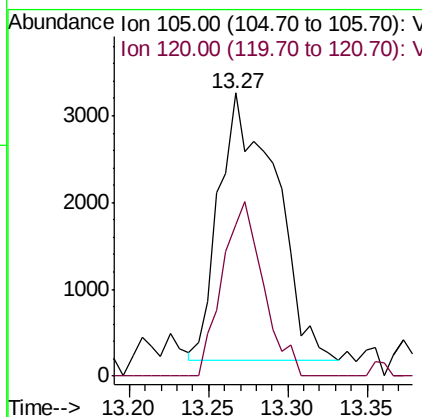
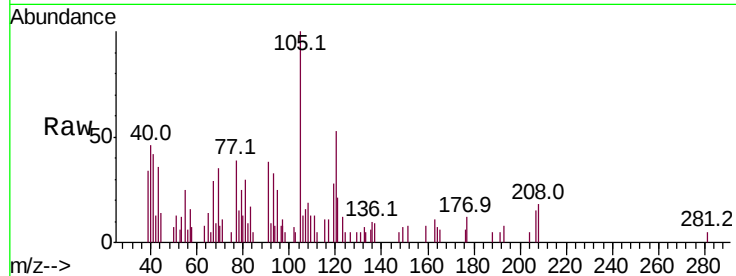




#84
 1,2,4-Trimethylbenzene
 Concen: 1.005 ug/l
 RT: 13.27 min Scan# 1929
 Delta R.T. -0.01 min
 Lab File: VD066390.D
 Acq: 24 Aug 2020 19:26

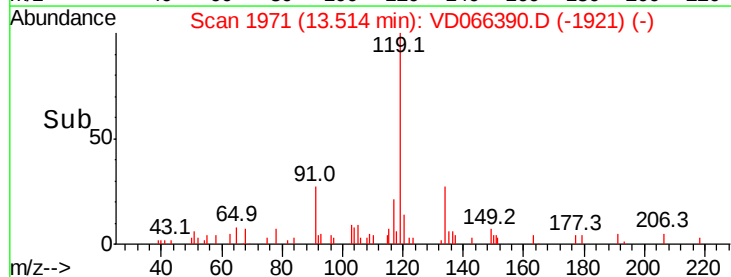
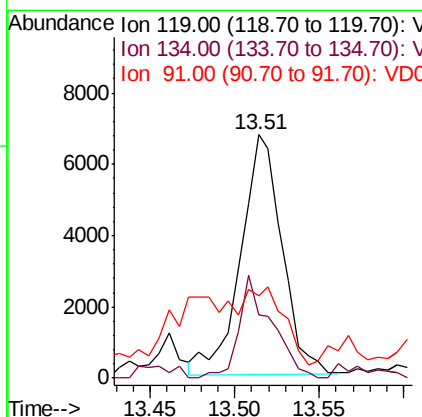
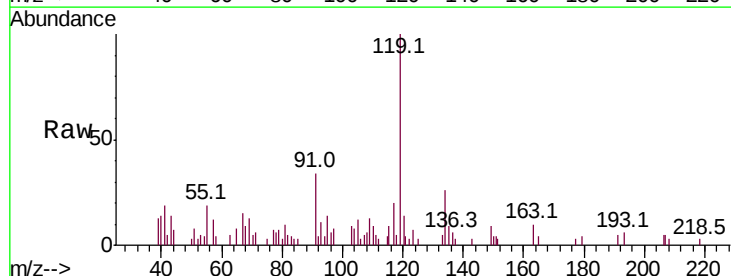
Instrument :
 MSVOA_D
 ClientSampleID :
 129

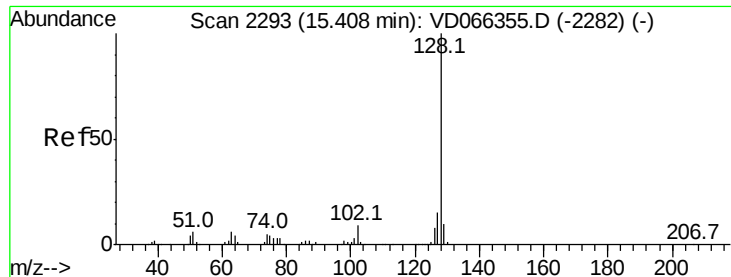
Tot Ion:105 Resp: 7686
 Ion Ratio Lower Upper
 105 100
 120 46.9 22.6 67.7



#86
 p-Isopropyltoluene
 Concen: 1.332 ug/l
 RT: 13.51 min Scan# 1971
 Delta R.T. -0.01 min
 Lab File: VD066390.D
 Acq: 24 Aug 2020 19:26

Tgt Ion:119 Resp: 11380
 Ion Ratio Lower Upper
 119 100
 134 33.8 12.8 38.3
 91 29.5 12.7 38.0





#95
Naphthalene
Concen: 1.992 ug/l
RT: 15.40 min Scan# 2292
Delta R.T. -0.01 min
Lab File: VD066390.D
Acq: 24 Aug 2020 19:26

Instrument :
MSVOA_D
ClientSampleId :
129

Tot Ion:128 Resp: 8982
Ion Ratio Lower Upper
128 100
127 16.0 10.7 16.1
129 18.7 8.6 12.8#

