

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091420\
 Data File : VD066692.D
 Acq On : 15 Sep 2020 01:38
 Operator : VA/SY
 Sample : L3981-12
 Misc : 12.84G/5.00ml/MSVOA D/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 15 02:42:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D090320S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 04 01:57:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	359617	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	687266	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	649454	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	272777	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	239717	55.09	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.18%	
35) Dibromofluoromethane	7.91	113	235710	50.84	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.68%	
50) Toluene-d8	10.34	98	839363	50.65	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.30%	
62) 4-Bromofluorobenzene	12.63	95	279282	50.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.66%	

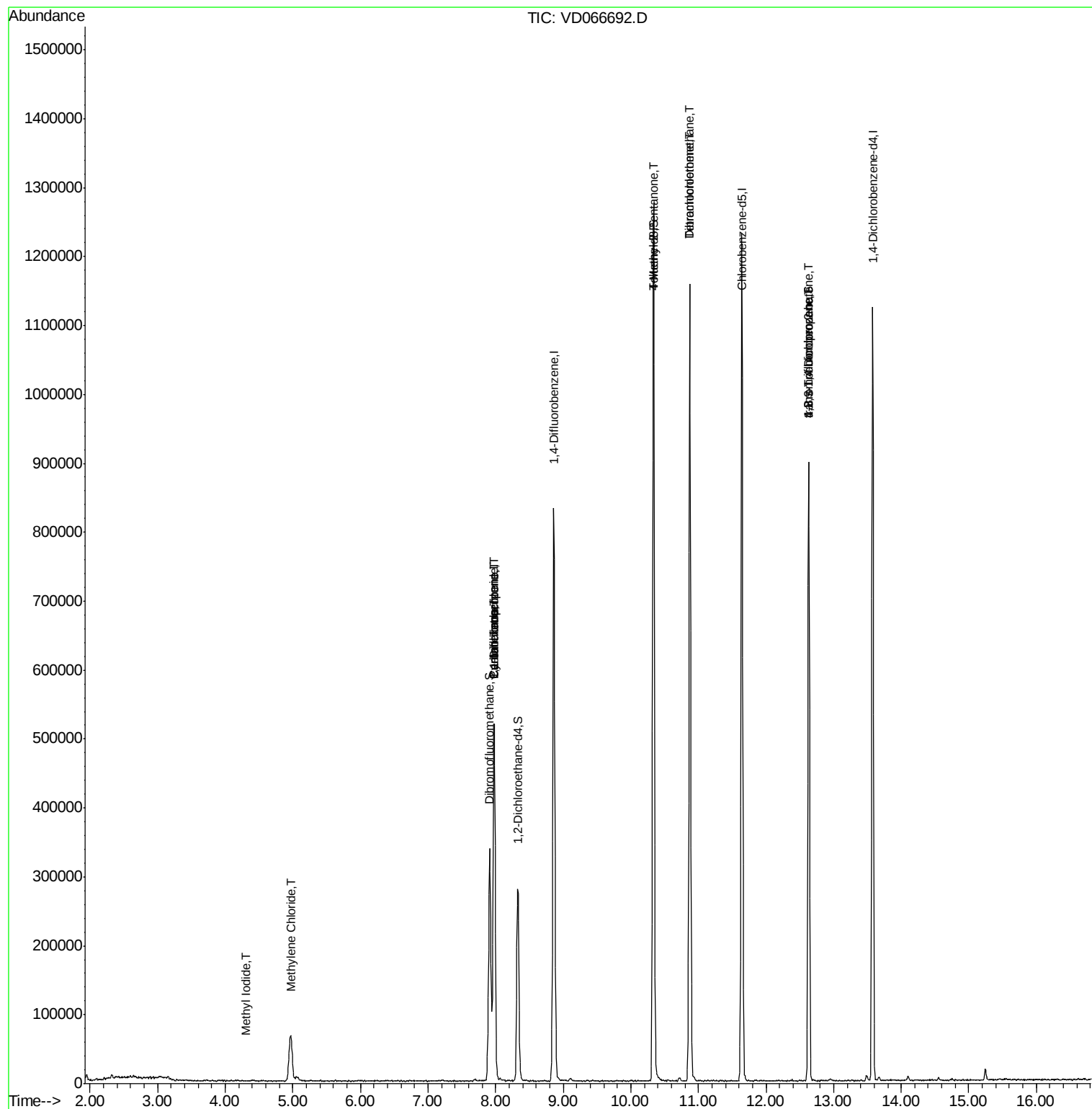
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.76	94	79	Below Cal	#	9
10) Methyl Iodide	4.31	142	127	4.055	ug/l #	35
11) Tert butyl alcohol	5.23	59	54	Below Cal	#	74
20) Methylene Chloride	4.97	84	54225	6.696	ug/l	93
31) Cyclohexane	7.97	56	10234	1.442	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	34716	4.854	ug/l #	50
38) Carbon Tetrachloride	7.97	117	39548	5.231	ug/l #	19
51) 4-Methyl-2-Pentanone	10.34	43	4125	1.499	ug/l #	1
60) Dibromochloromethane	10.87	129	233017	50.426	ug/l #	10
64) Tetrachloroethene	10.87	164	248606	56.853	ug/l	95
76) 1,2,3-Trichloropropane	12.63	75	157774	60.141	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	157774	140.409	ug/l #	7

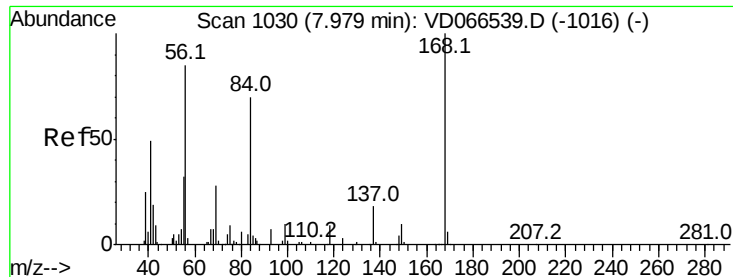
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Sep 04 01:57:04 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: VD066692.D

Acq: 15 Sep 2020 01:38

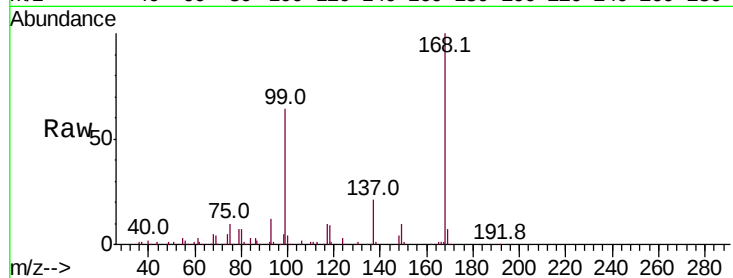
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 359617

Ion Ratio Lower Upper

168 100

99 64.0 50.5 75.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

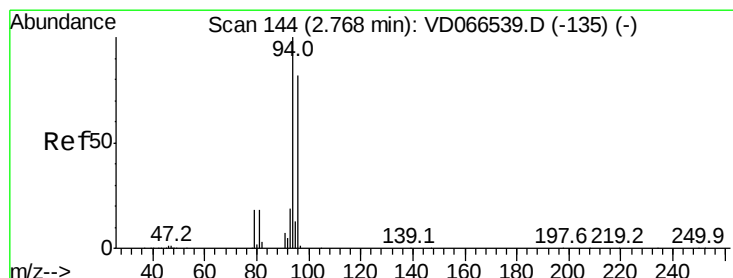
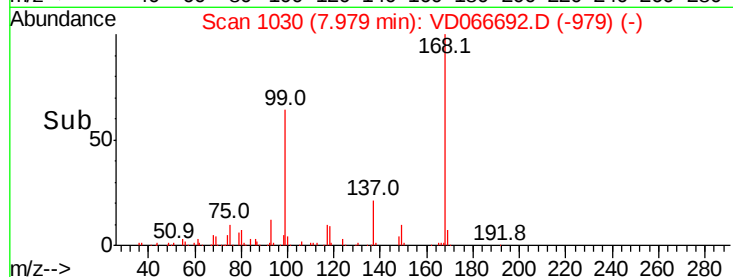
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.76 min Scan# 142

Delta R.T. -0.01 min

Lab File: VD066692.D

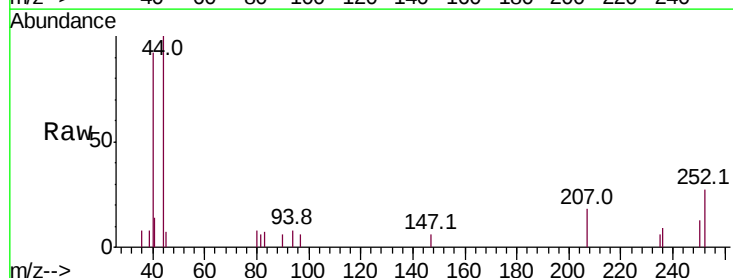
Acq: 15 Sep 2020 01:38

Tgt Ion: 94 Resp: 79

Ion Ratio Lower Upper

94 100

96 0.0 65.2 97.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

400

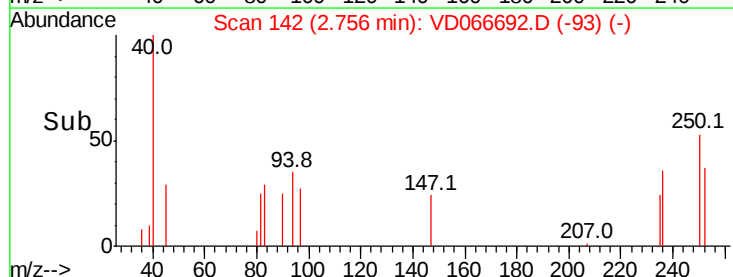
300

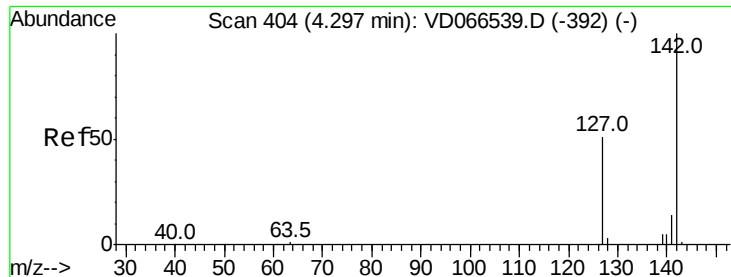
200

100

0

Time-->

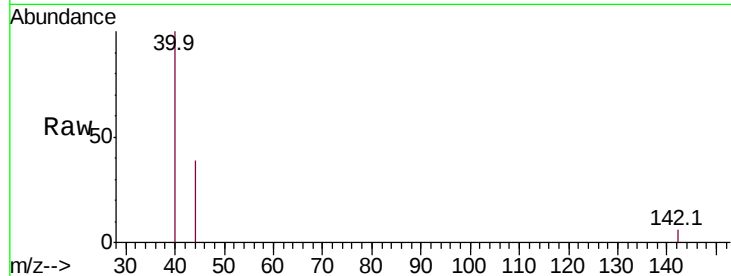




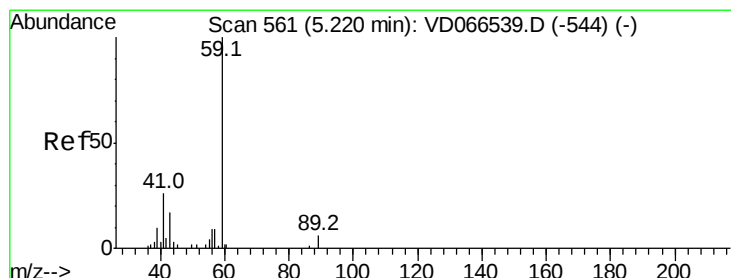
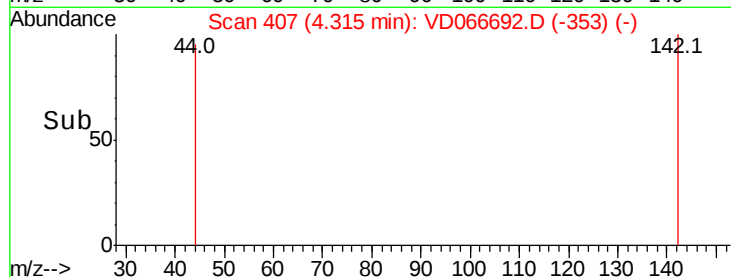
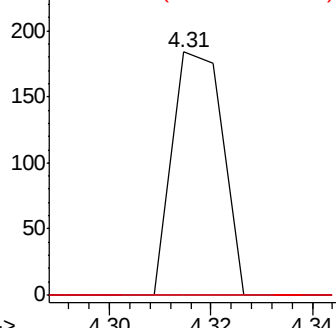
#10
Methyl Iodide
Concen: 4.055 ug/l
RT: 4.31 min Scan# 407
Delta R.T. 0.02 min
Lab File: VD066692.D
Acq: 15 Sep 2020 01:38

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:142 Resp: 127
Ion Ratio Lower Upper
142 100
127 0.0 40.6 61.0#
141 0.0 12.2 18.4#

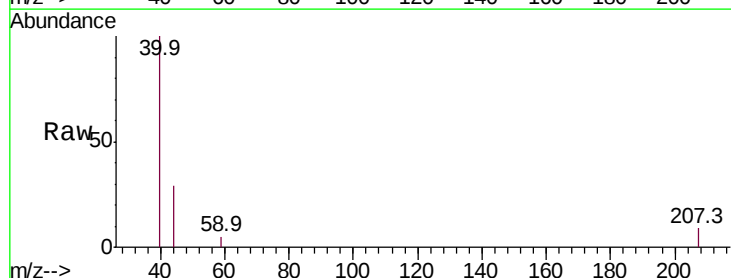


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

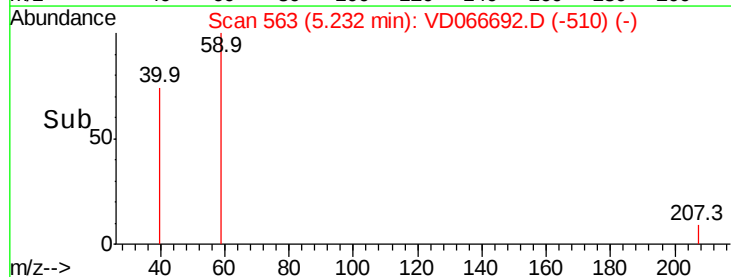
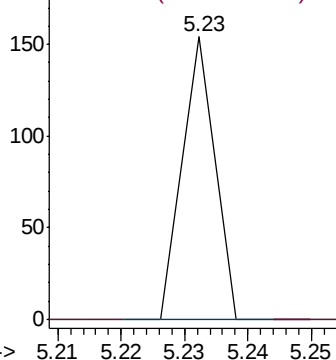


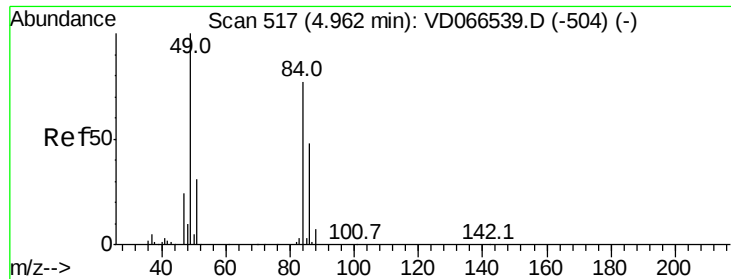
#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.23 min Scan# 563
Delta R.T. 0.01 min
Lab File: VD066692.D
Acq: 15 Sep 2020 01:38

Tgt Ion: 59 Resp: 54
Ion Ratio Lower Upper
59 100
57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): V
Ion 57.00 (56.70 to 57.70): V

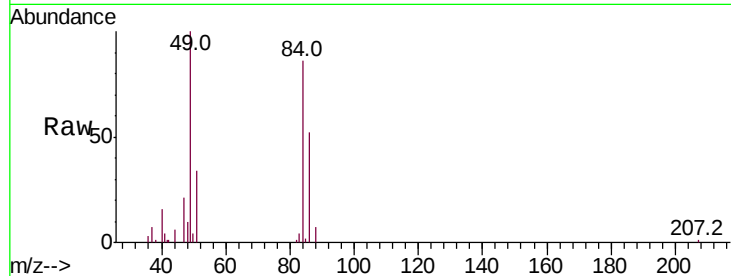




#20
Methylene Chloride
Concen: 6.696 ug/l
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD066692.D
Acq: 15 Sep 2020 01:38

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:	84	Resp:	54225
Ion	Ratio	Lower	Upper
84	100		
49	116.6	104.3	156.5
51	39.7	32.2	48.4
86	60.4	50.0	75.0



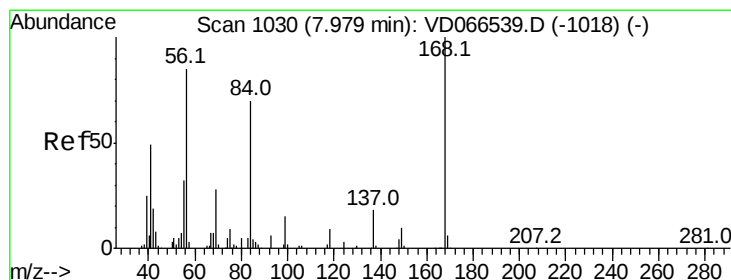
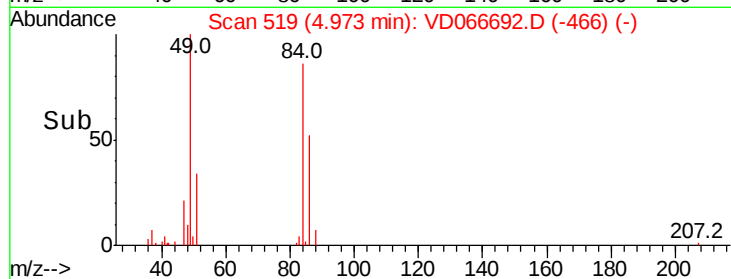
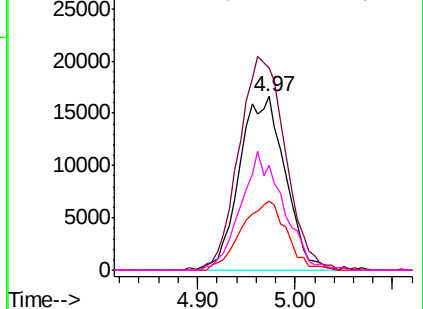
Abundance

Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

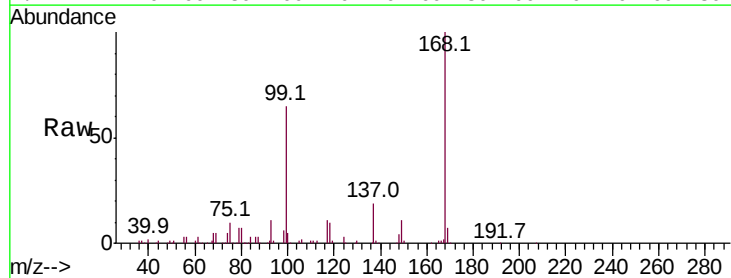
Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#31
Cyclohexane
Concen: 1.442 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD066692.D
Acq: 15 Sep 2020 01:38

Tgt Ion:	56	Resp:	10234
Ion	Ratio	Lower	Upper
56	100		
69	175.2	26.3	39.5#
84	121.8	66.1	99.1#

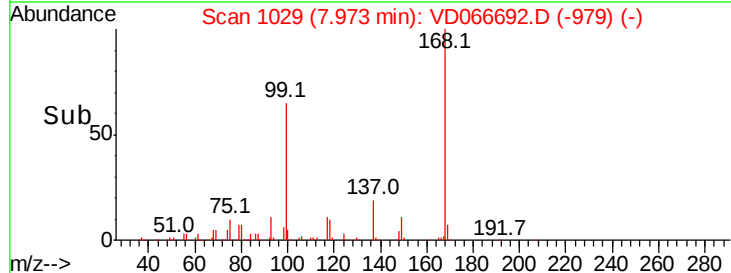
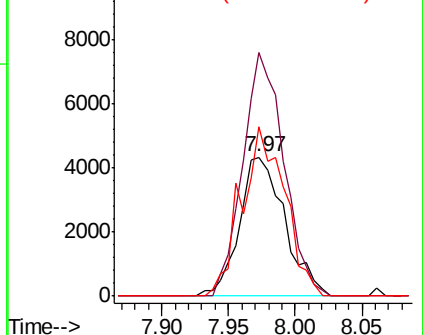


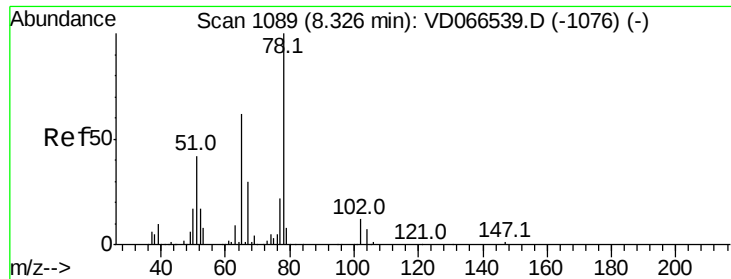
Abundance

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

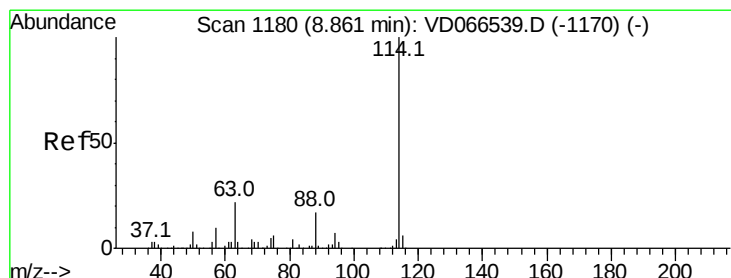
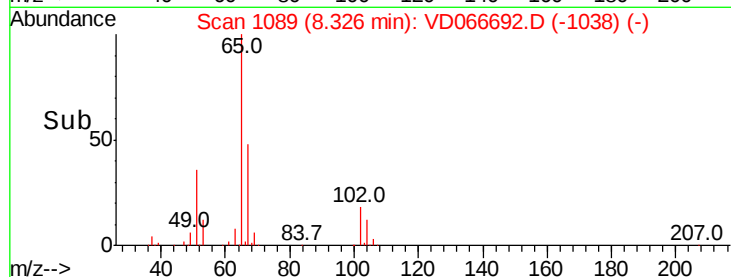
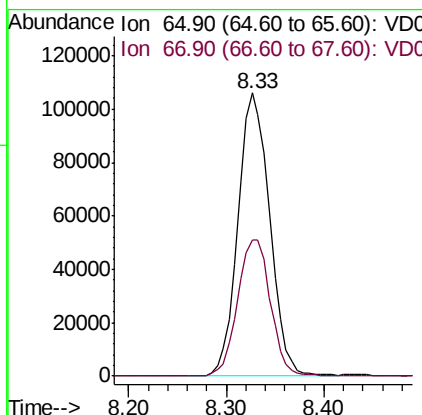
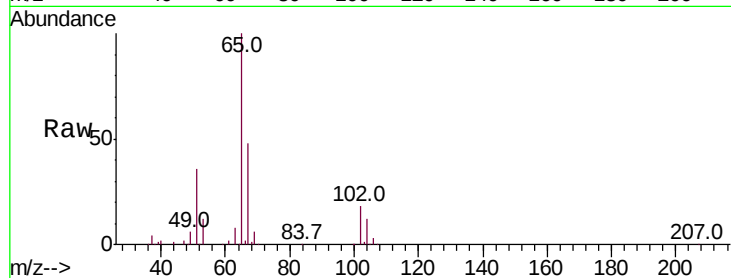




#33
 1,2-Dichloroethane-d4
 Concen: 55.094 ug/l
 RT: 8.33 min Scan# 1089
 Delta R.T. -0.00 min
 Lab File: VD066692.D
 Acq: 15 Sep 2020 01:38

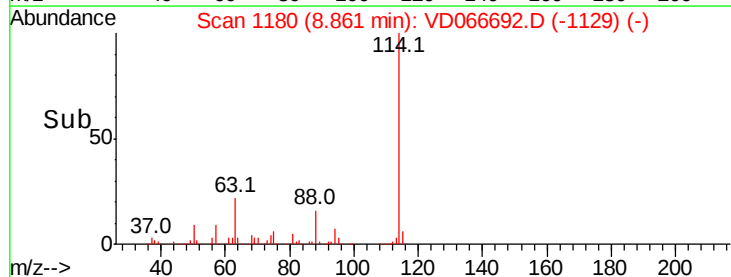
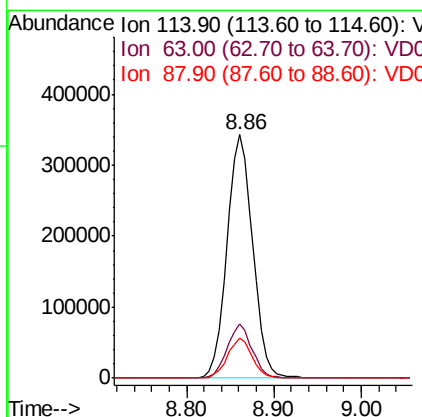
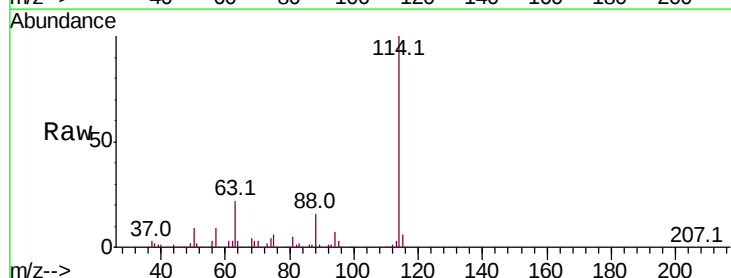
Instrument :
 MSVOA_D
 ClientSampleId :

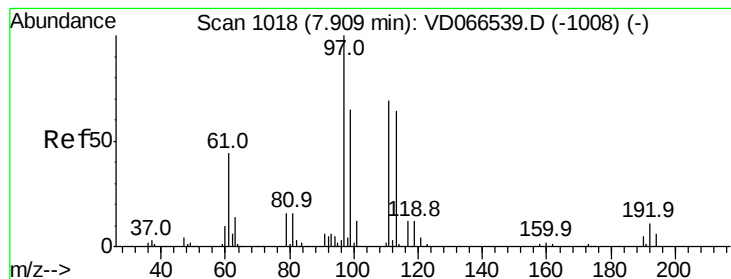
Tot Ion: 65 Resp: 239717
 Ion Ratio Lower Upper
 65 100
 67 49.8 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. -0.00 min
 Lab File: VD066692.D
 Acq: 15 Sep 2020 01:38

Tgt Ion: 114 Resp: 687266
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 43.2
 88 16.2 0.0 33.2





#35

Dibromofluoromethane

Concen: 50.839 ug/l

RT: 7.91 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VD066692.D

Acq: 15 Sep 2020 01:38

Instrument :
MSVOA_D
ClientSampled :

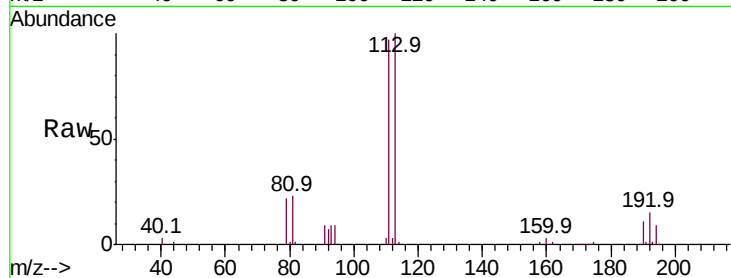
Tot Ion:113 Resp: 235710

Ion Ratio Lower Upper

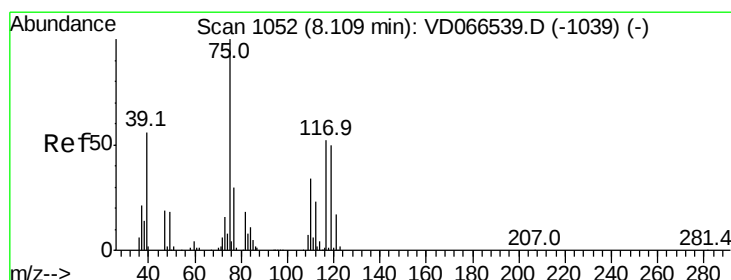
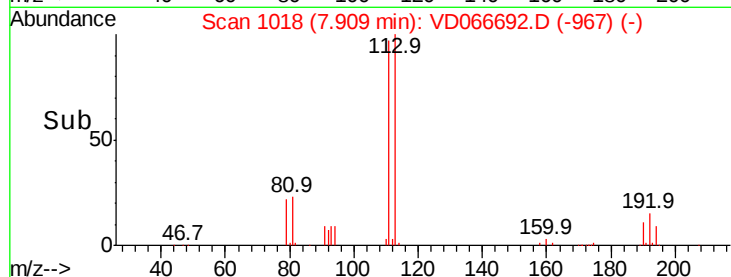
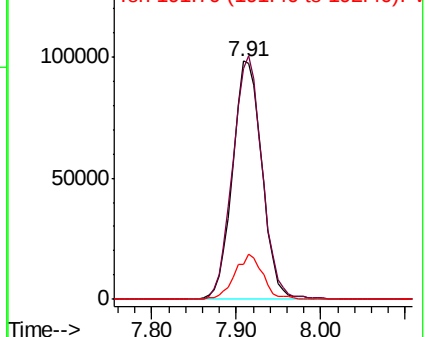
113 100

111 102.0 83.2 124.8

192 18.1 13.7 20.5



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: 4.854 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.13 min

Lab File: VD066692.D

Acq: 15 Sep 2020 01:38

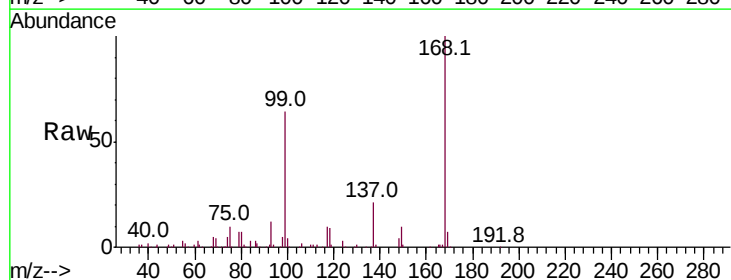
Tgt Ion: 75 Resp: 34716

Ion Ratio Lower Upper

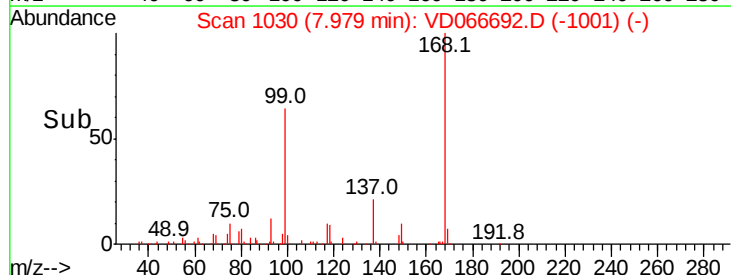
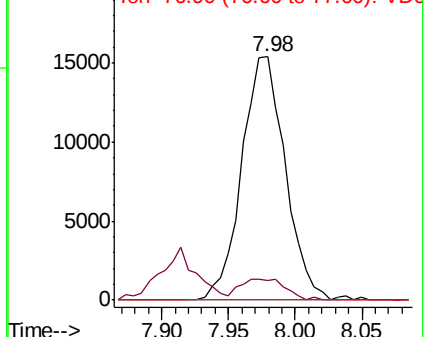
75 100

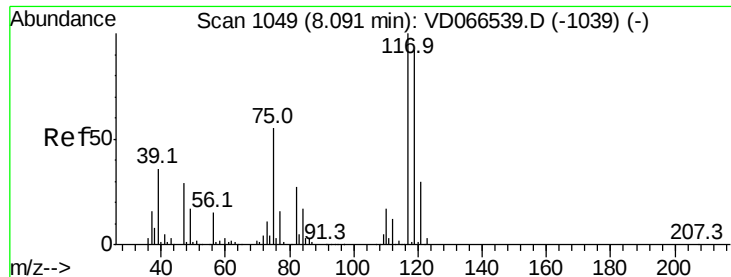
110 9.1 17.3 52.0#

77 0.0 25.1 37.7#



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: 5.231 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066692.D

Acq: 15 Sep 2020 01:38

Instrument :

MSVOA_D

ClientSampleId :

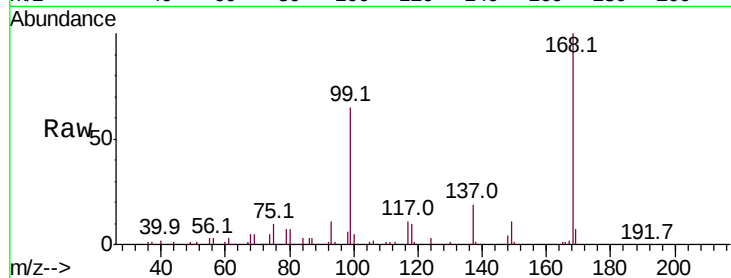
Tot Ion:117 Resp: 39548

Ion Ratio Lower Upper

117 100

119 6.6 73.9 110.9#

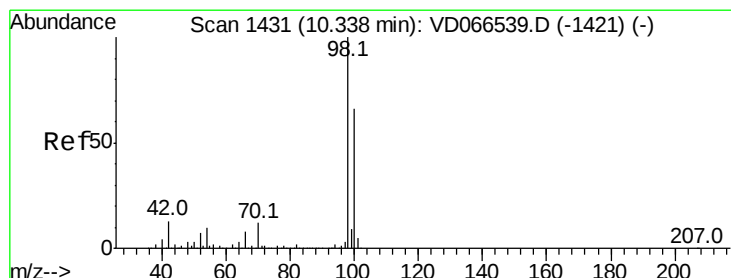
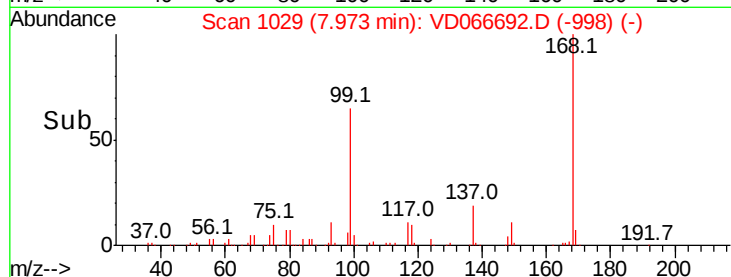
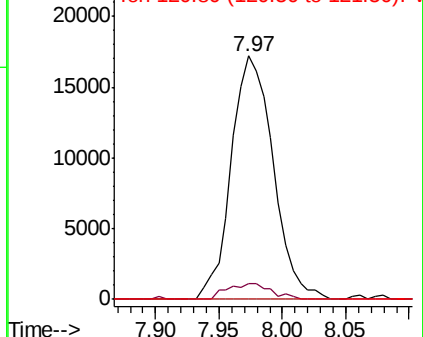
121 0.0 24.1 36.1#



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



#50

Toluene-d8

Concen: 50.652 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066692.D

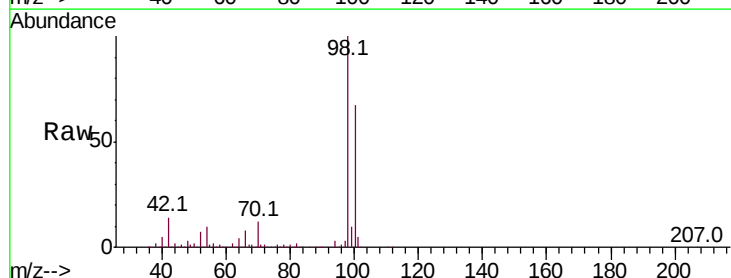
Acq: 15 Sep 2020 01:38

Tgt Ion: 98 Resp: 839363

Ion Ratio Lower Upper

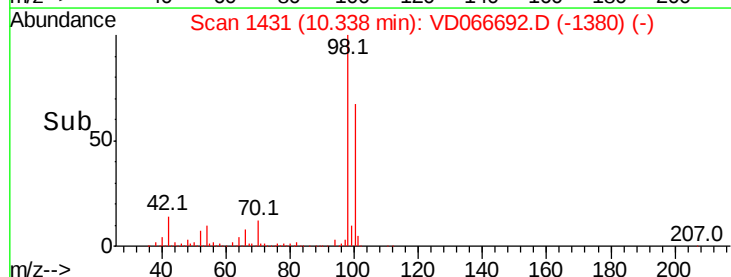
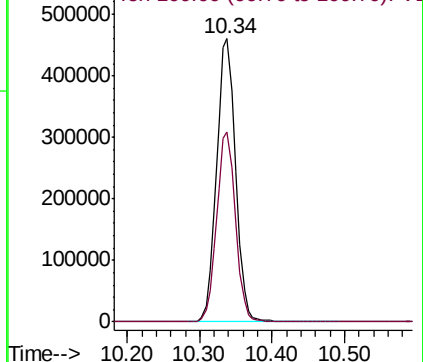
98 100

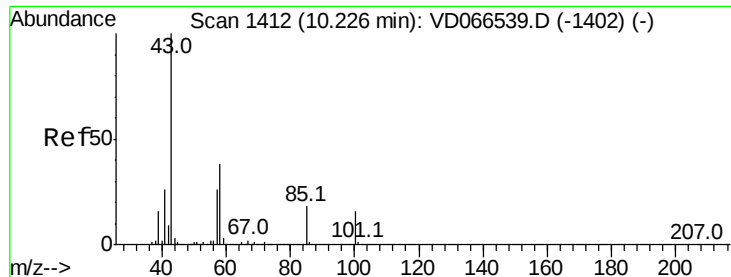
100 66.3 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 1.499 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.11 min

Lab File: VD066692.D

Acq: 15 Sep 2020 01:38

Instrument :

MSVOA_D

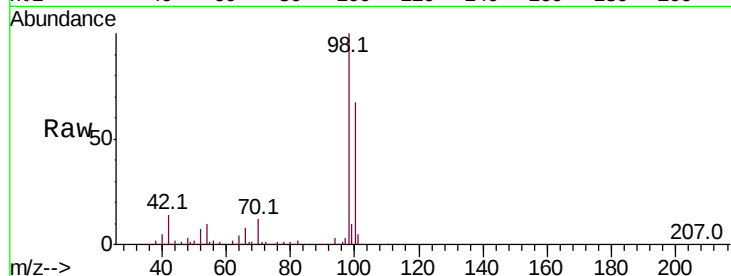
Client Sampled :

Tot Ion: 43 Resp: 4125

Ion Ratio Lower Upper

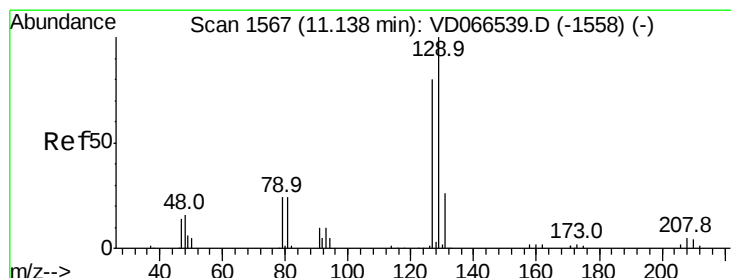
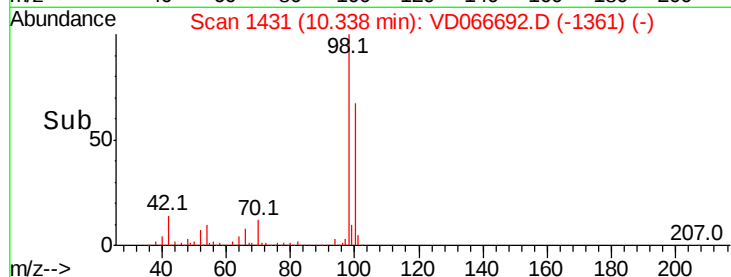
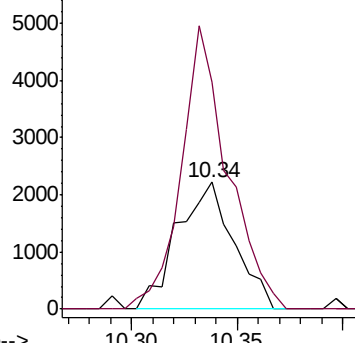
43 100

58 183.2 30.5 45.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#60

Dibromochloromethane

Concen: 50.426 ug/l

RT: 10.87 min Scan# 1522

Delta R.T. -0.26 min

Lab File: VD066692.D

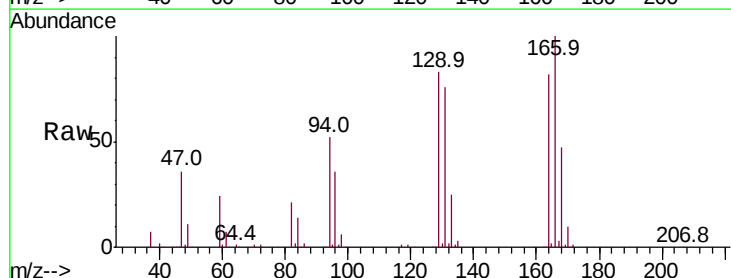
Acq: 15 Sep 2020 01:38

Tgt Ion: 129 Resp: 233017

Ion Ratio Lower Upper

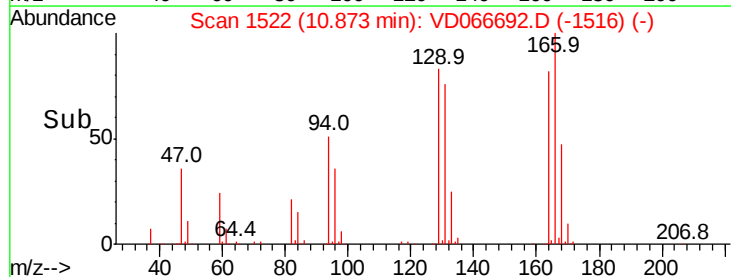
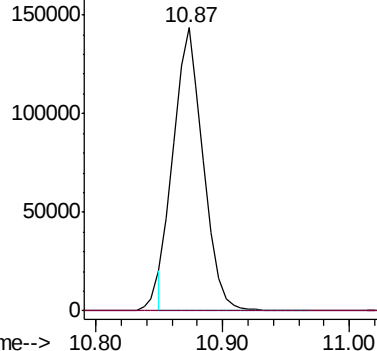
129 100

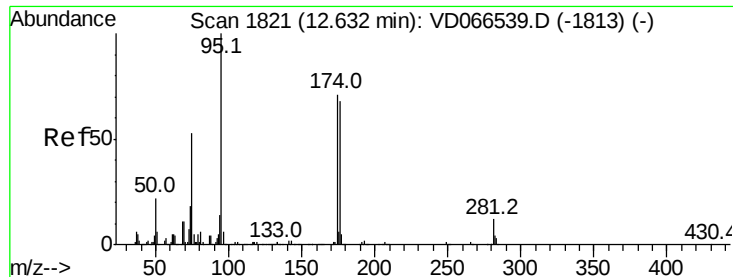
127 0.2 39.5 118.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 50.827 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066692.D

Acq: 15 Sep 2020 01:38

Instrument :

MSVOA_D

ClientSampleId :

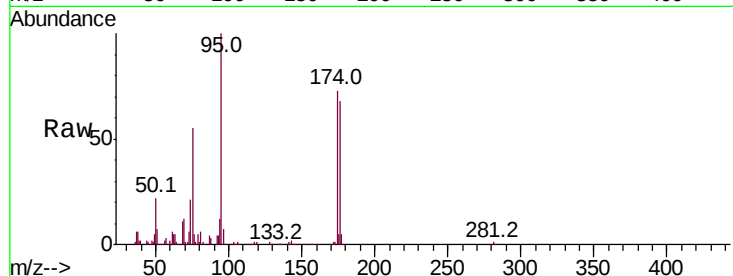
Tot Ion: 95 Resp: 279282

Ion Ratio Lower Upper

95 100

174 75.7 0.0 155.8

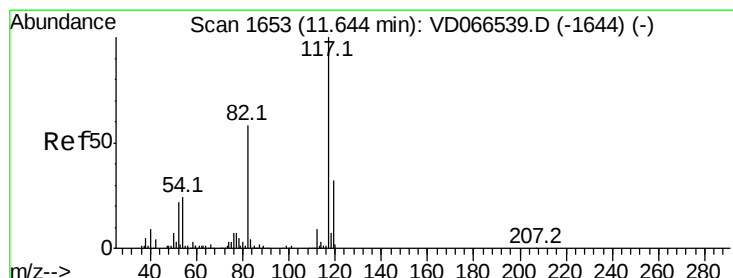
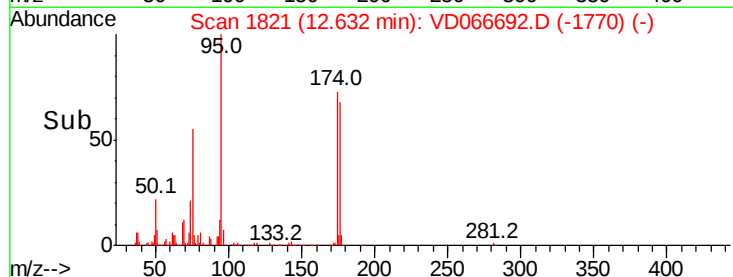
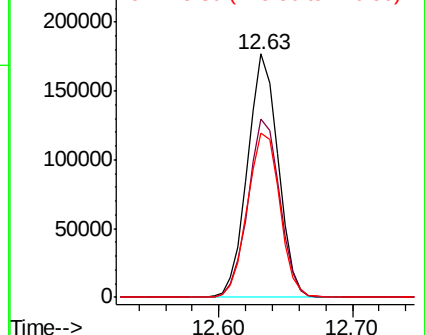
176 71.5 0.0 148.6



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: VD066692.D

Acq: 15 Sep 2020 01:38

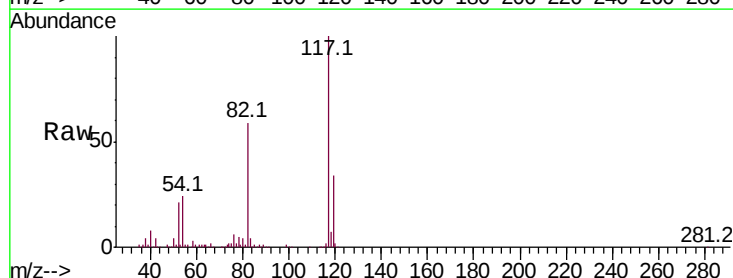
Tgt Ion: 117 Resp: 649454

Ion Ratio Lower Upper

117 100

82 59.3 46.2 69.2

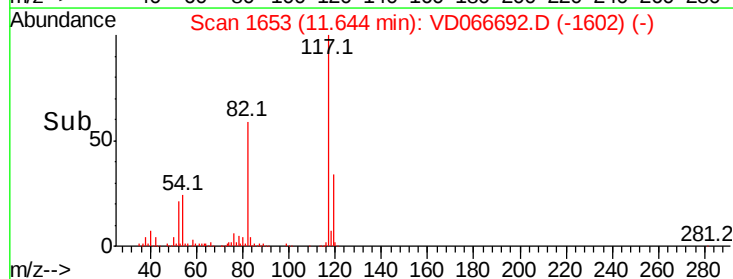
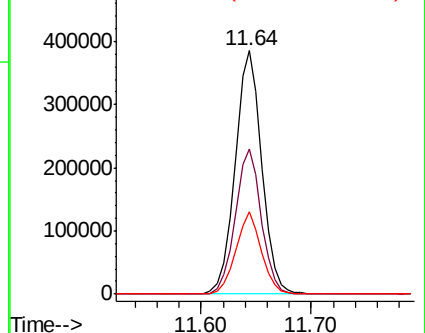
119 34.0 25.8 38.8

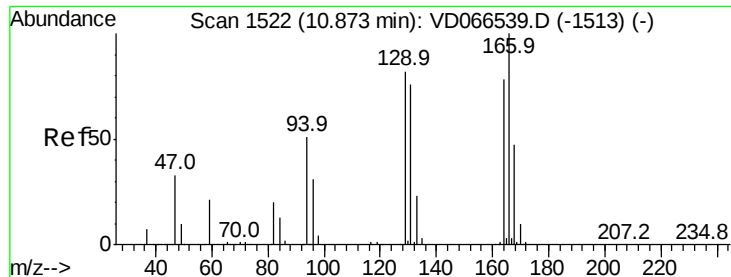


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

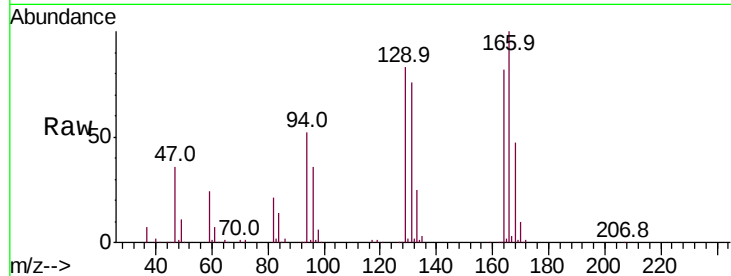




#64
Tetrachloroethene
Concen: 56.853 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. -0.00 min
Lab File: VD066692.D
Acq: 15 Sep 2020 01:38

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
166	122.5	103.2	154.8
129	101.5	84.5	126.7
131	93.2	78.9	118.3



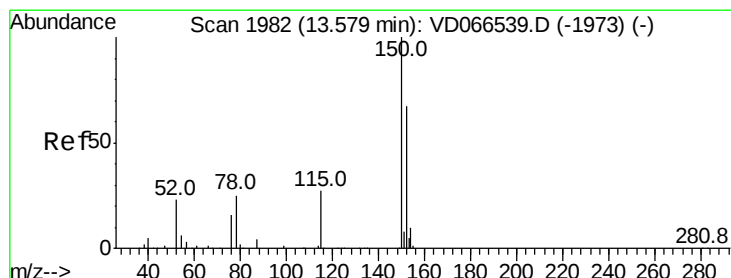
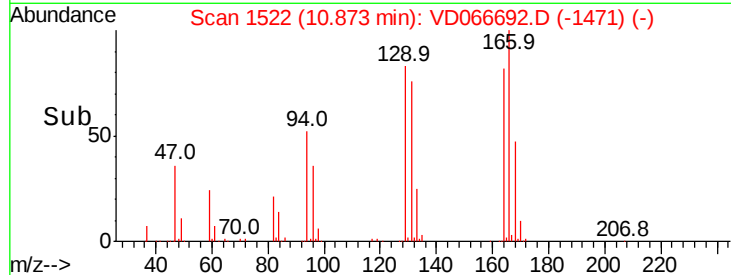
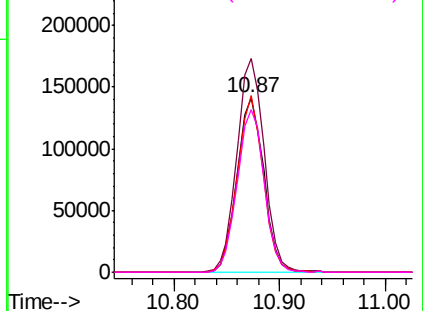
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

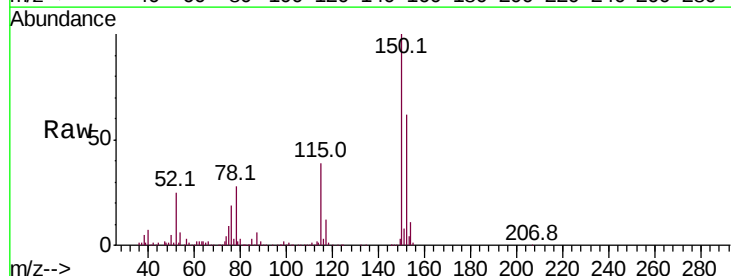
Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.00 min
Lab File: VD066692.D
Acq: 15 Sep 2020 01:38

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.1	30.4	91.2
150	159.7	0.0	345.8

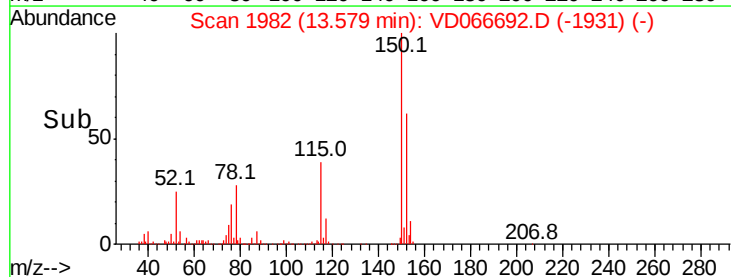
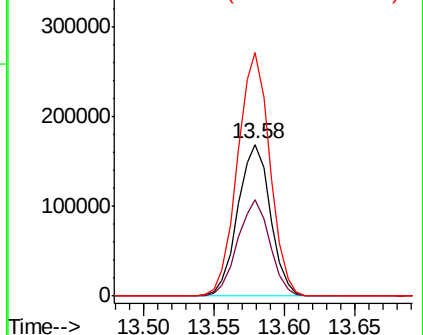


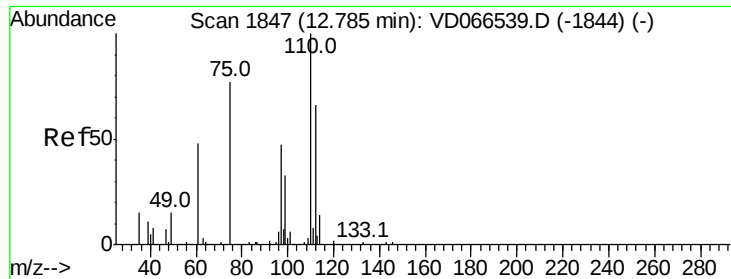
Abundance

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

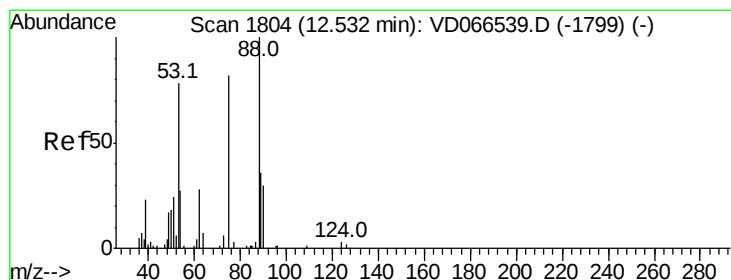
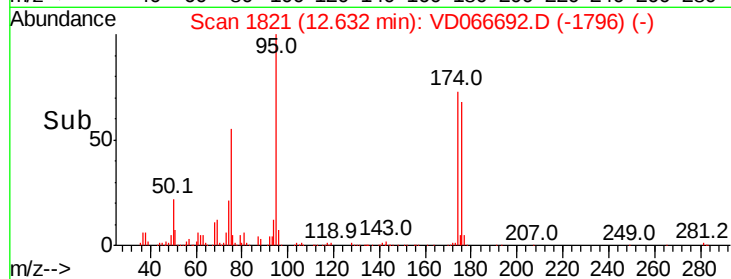
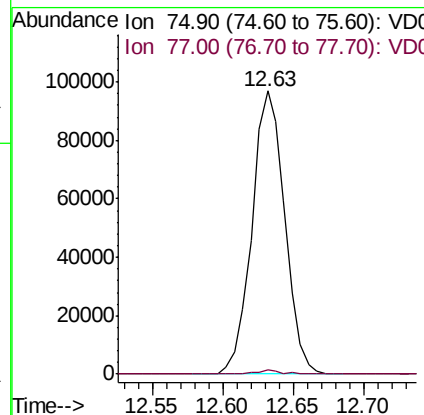
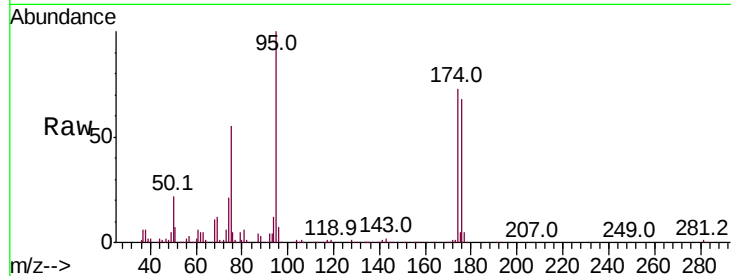




#76
 1,2,3-Trichloropropane
 Concen: 60.141 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.15 min
 Lab File: VD066692.D
 Acq: 15 Sep 2020 01:38

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion: 75 Resp: 157774
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 140.409 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. 0.10 min
 Lab File: VD066692.D
 Acq: 15 Sep 2020 01:38

Tgt Ion: 75 Resp: 157774
 Ion Ratio Lower Upper
 75 100
 53 0.2 87.0 130.4#
 89 0.0 37.1 55.7#

