

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091420\
 Data File : VD066684.D
 Acq On : 14 Sep 2020 21:58
 Operator : VA/SY
 Sample : L3863-01
 Misc : 9.59G/5.00ml/MSVOA D/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 15 02:41:19 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	385944	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	693676	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	638426	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	260720	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	235630	50.46	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.92%	
35) Dibromofluoromethane	7.91	113	237565	50.77	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.54%	
50) Toluene-d8	10.34	98	856806	51.23	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.46%	
62) 4-Bromofluorobenzene	12.63	95	276392	49.84	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.68%	

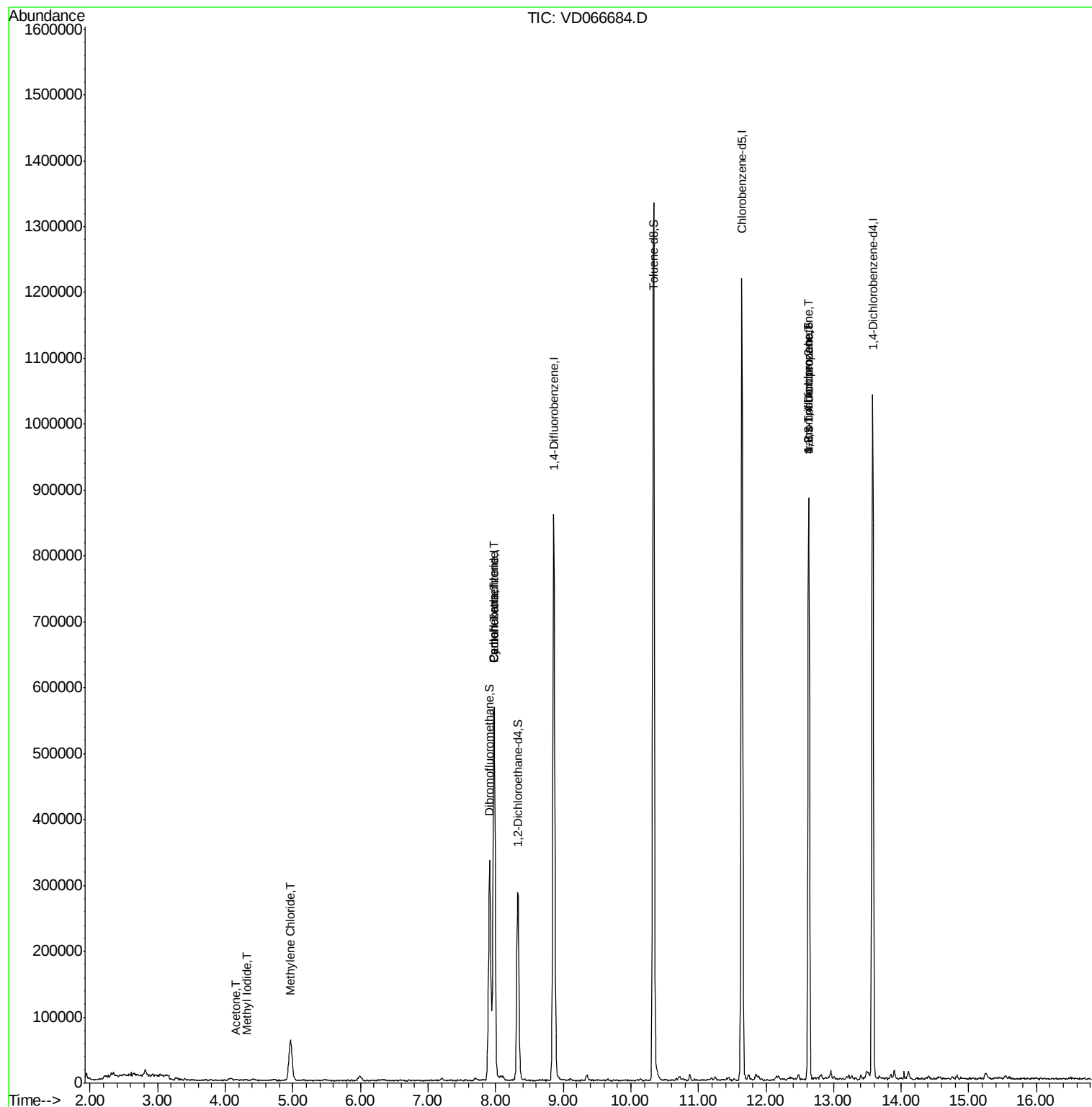
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	1459	Below Cal	#	42
5) Bromomethane	2.79	94	2062	Below Cal		83
10) Methyl Iodide	4.31	142	975	4.250	ug/l #	55
16) Acetone	4.17	43	3070	3.573	ug/l	92
20) Methylene Chloride	4.97	84	49138	4.467	ug/l #	83
31) Cyclohexane	7.99	56	12279	1.612	ug/l #	40
38) Carbon Tetrachloride	7.97	117	41895	5.490	ug/l #	17
76) 1,2,3-Trichloropropane	12.63	75	156525	62.425	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	156525	145.739	ug/l #	7

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

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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: VD066684.D

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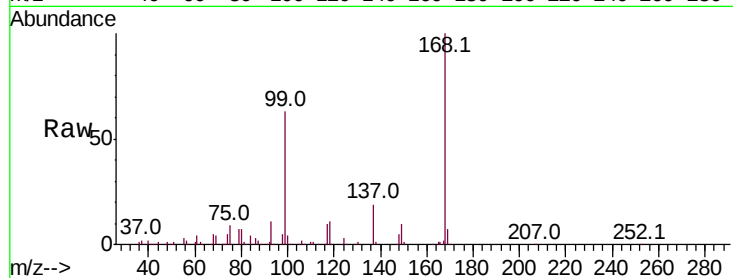
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 385944

Ion Ratio Lower Upper

168 100

99 62.3 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

200000

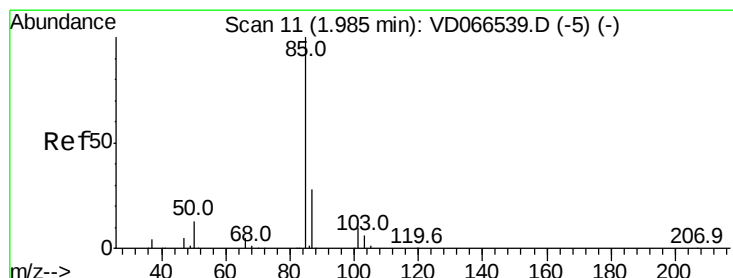
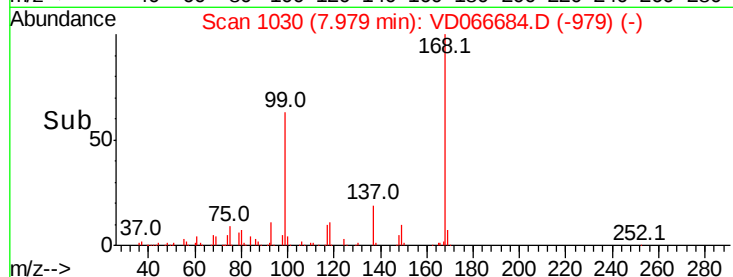
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD066684.D

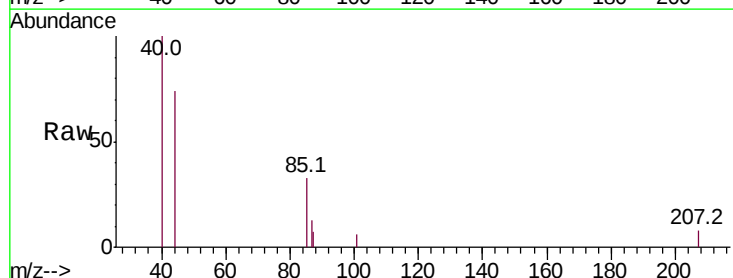
Acq: 14 Sep 2020 21:58

Tgt Ion: 85 Resp: 1459

Ion Ratio Lower Upper

85 100

87 59.3 14.2 42.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

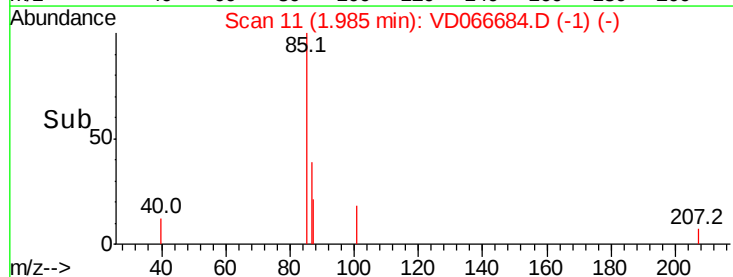
1.99

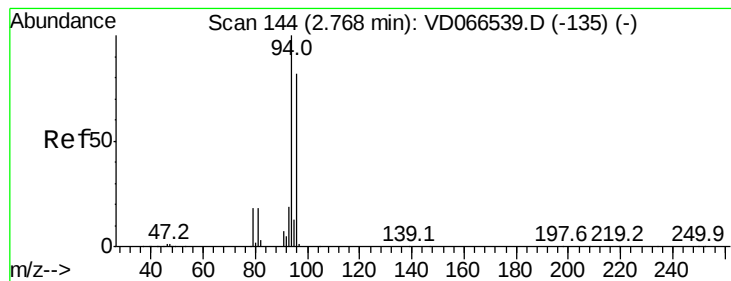
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 147

Delta R.T. 0.02 min

Lab File: VD066684.D

Acq: 14 Sep 2020 21:58

Instrument :

MSVOA_D

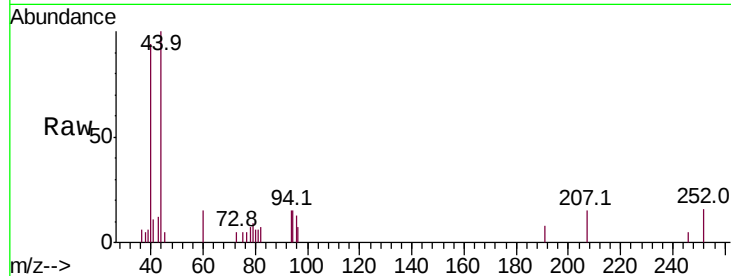
ClientSampleId :

Tot Ion: 94 Resp: 2062

Ion Ratio Lower Upper

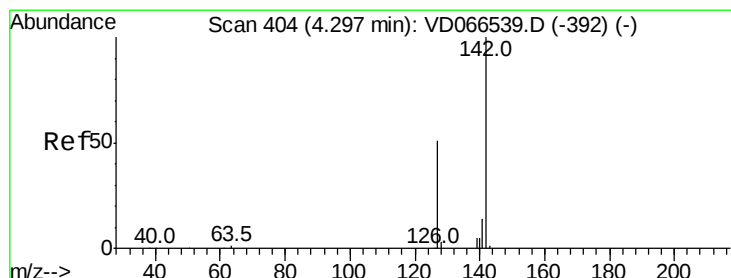
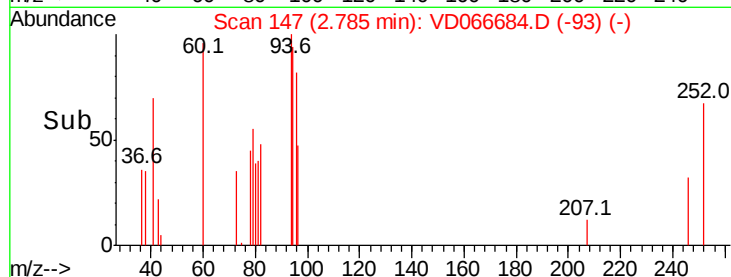
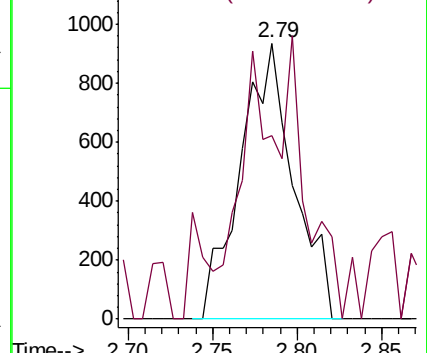
94 100

96 66.6 65.2 97.8



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#10

Methyl Iodide

Concen: 4.250 ug/l

RT: 4.31 min Scan# 407

Delta R.T. 0.02 min

Lab File: VD066684.D

Acq: 14 Sep 2020 21:58

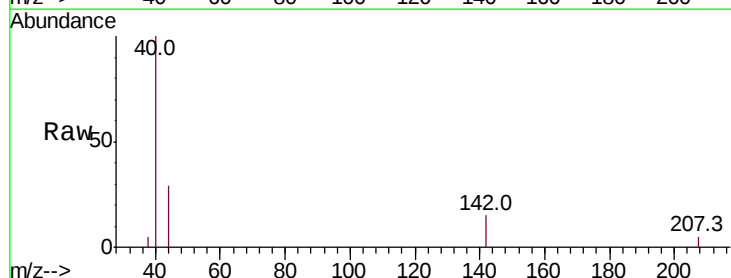
Tgt Ion: 142 Resp: 975

Ion Ratio Lower Upper

142 100

127 17.5 40.6 61.0#

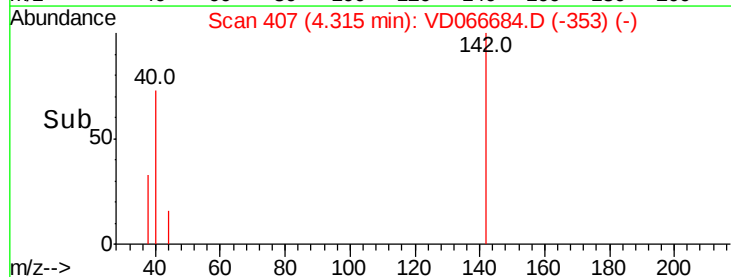
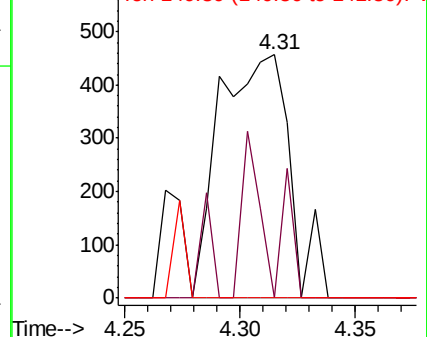
141 0.0 12.2 18.4#

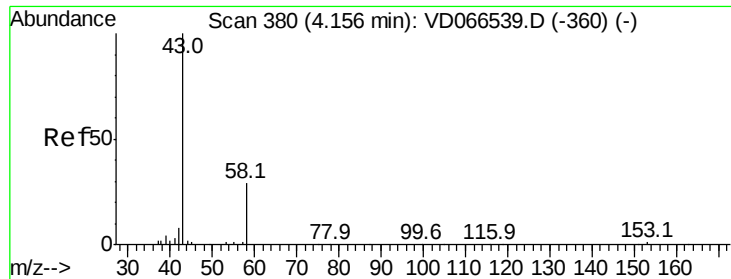


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#16

Acetone

Concen: 3.573 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD066684.D

Acq: 14 Sep 2020 21:58

Instrument :

MSVOA_D

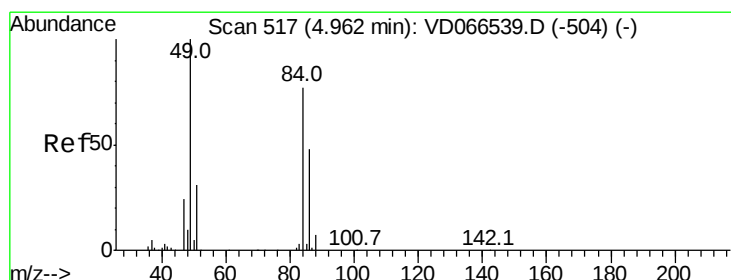
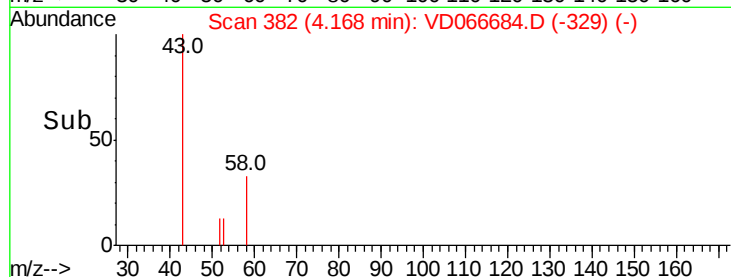
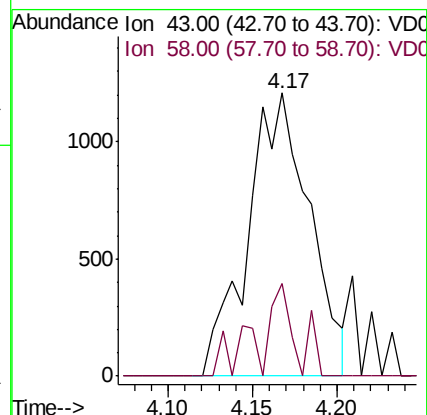
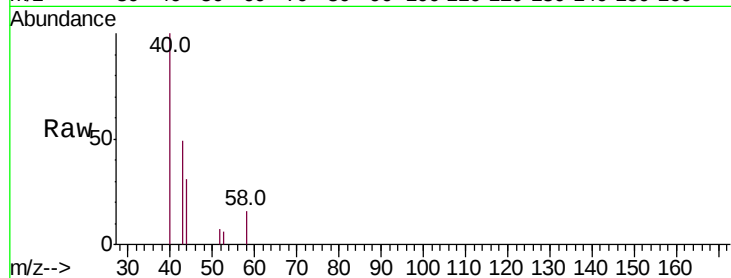
ClientSampled :

Tot Ion: 43 Resp: 3070

Ion Ratio Lower Upper

43 100

58 32.9 22.9 34.3



#20

Methylene Chloride

Concen: 4.467 ug/l

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD066684.D

Acq: 14 Sep 2020 21:58

Tgt Ion: 84 Resp: 49138

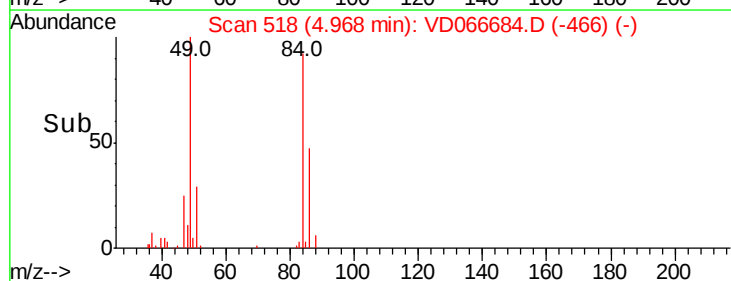
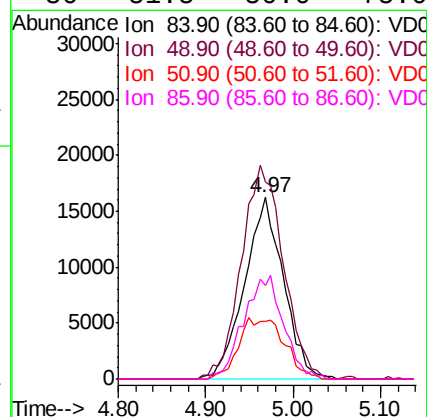
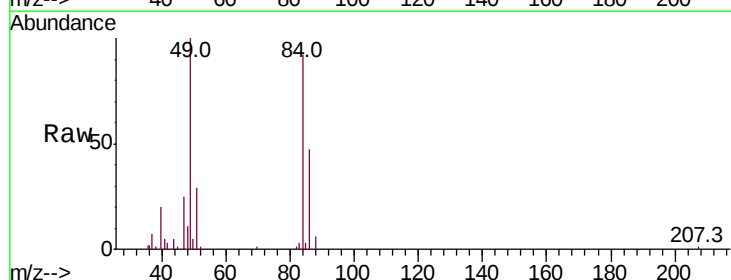
Ion Ratio Lower Upper

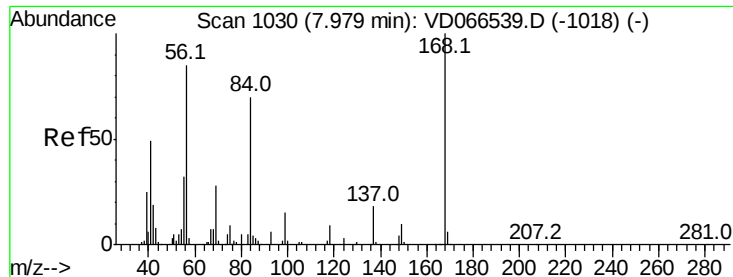
84 100

49 108.9 104.3 156.5

51 31.7 32.2 48.4#

86 51.5 50.0 75.0





#31

Cyclohexane

Concen: 1.612 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD066684.D

Acq: 14 Sep 2020 21:58

Instrument :
MSVOA_D
ClientSampled :

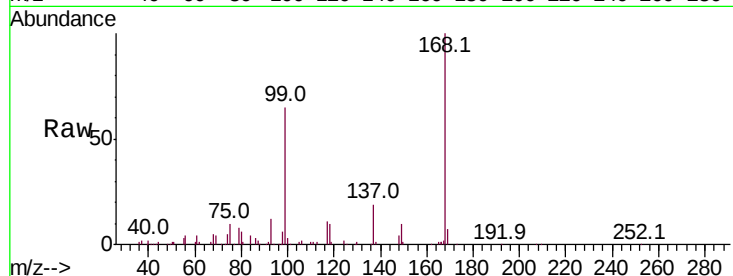
Tot Ion: 56 Resp: 12279

Ion Ratio Lower Upper

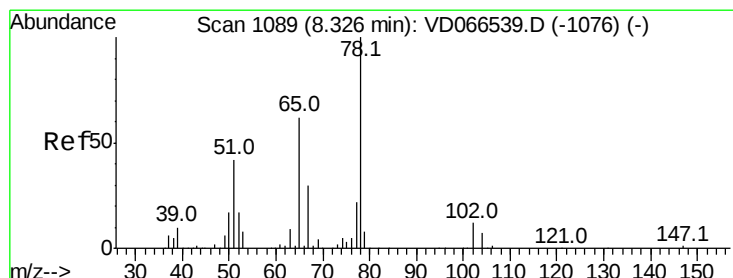
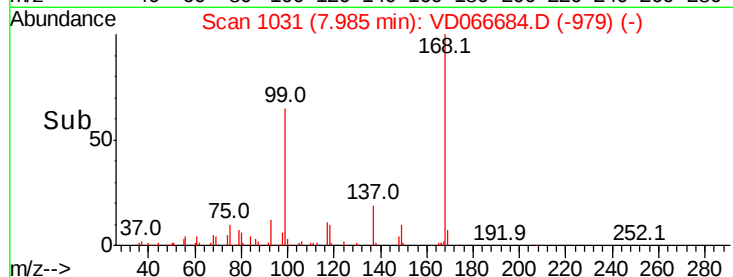
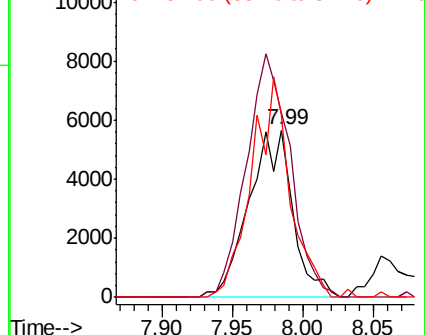
56 100

69 110.3 26.3 39.5#

84 109.0 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: 50.461 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. 0.00 min

Lab File: VD066684.D

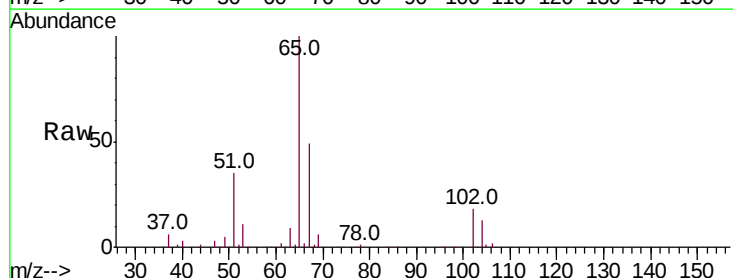
Acq: 14 Sep 2020 21:58

Tgt Ion: 65 Resp: 235630

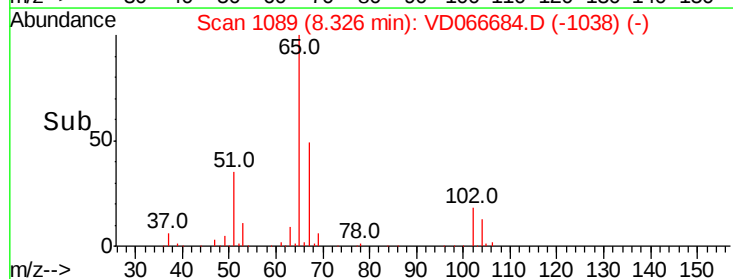
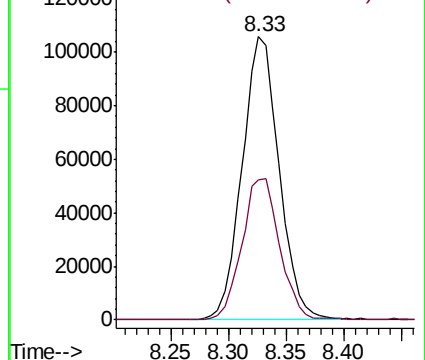
Ion Ratio Lower Upper

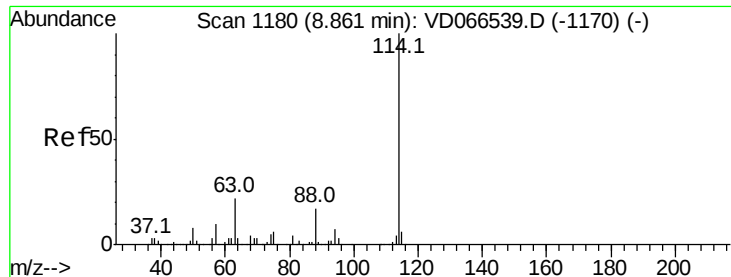
65 100

67 50.8 0.0 102.8



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

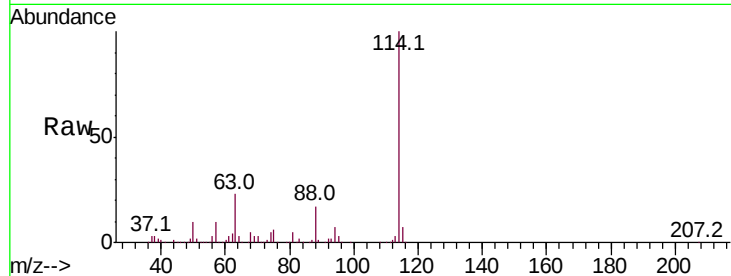




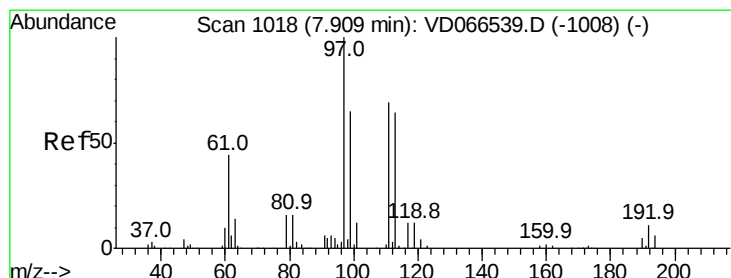
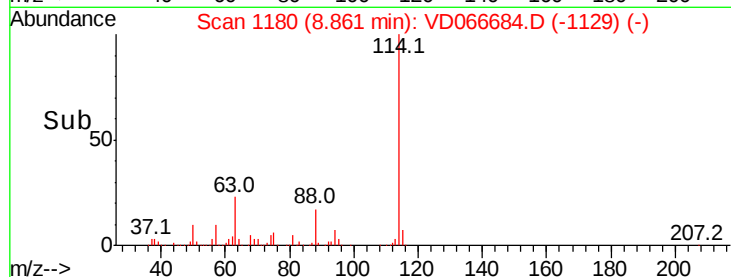
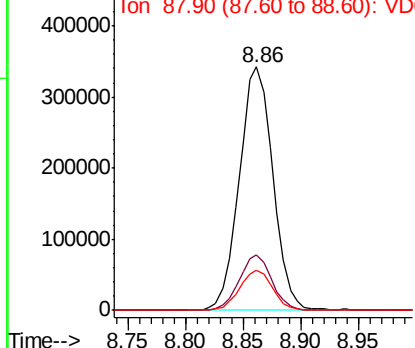
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.86 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VD066684.D
Acq: 14 Sep 2020 21:58

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:114 Resp: 693676
Ion Ratio Lower Upper
114 100
63 22.6 0.0 43.2
88 16.5 0.0 33.2

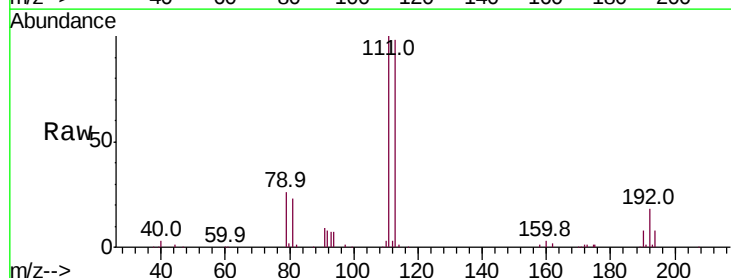


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

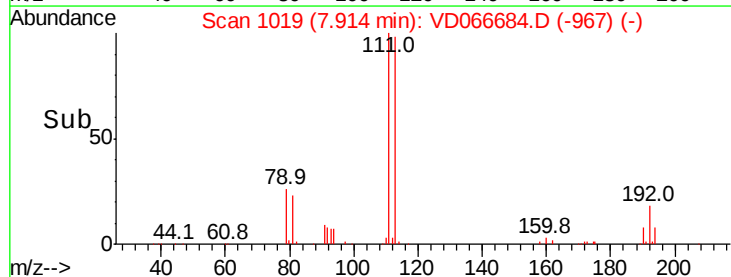
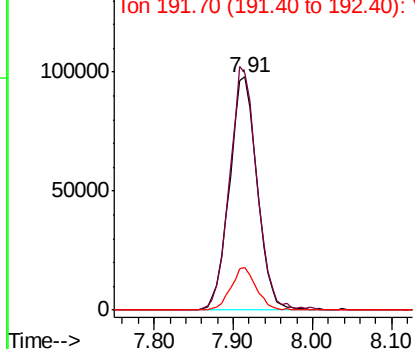


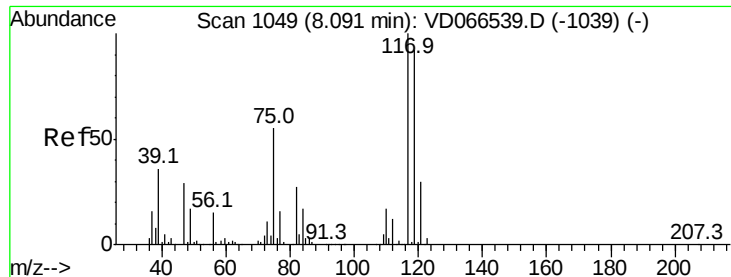
#35
Dibromofluoromethane
Concen: 50.766 ug/l
RT: 7.91 min Scan# 1019
Delta R.T. 0.01 min
Lab File: VD066684.D
Acq: 14 Sep 2020 21:58

Tgt Ion:113 Resp: 237565
Ion Ratio Lower Upper
113 100
111 102.0 83.2 124.8
192 16.9 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





#38

Carbon Tetrachloride

Concen: 5.490 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066684.D

Acq: 14 Sep 2020 21:58

Instrument :

MSVOA_D

ClientSampleId :

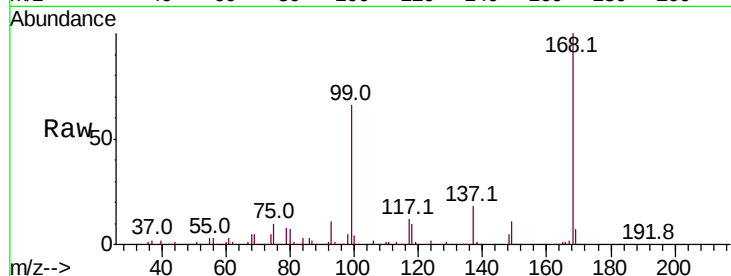
Tot Ion:117 Resp: 41895

Ion Ratio Lower Upper

117 100

119 5.1 73.9 110.9#

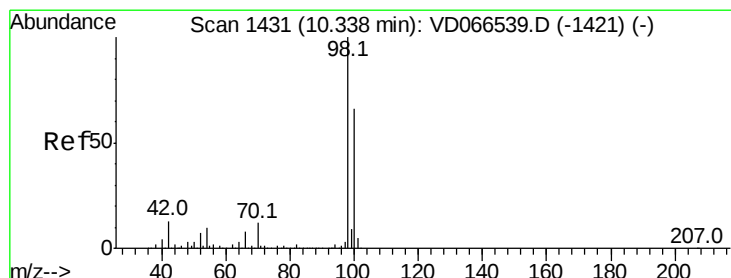
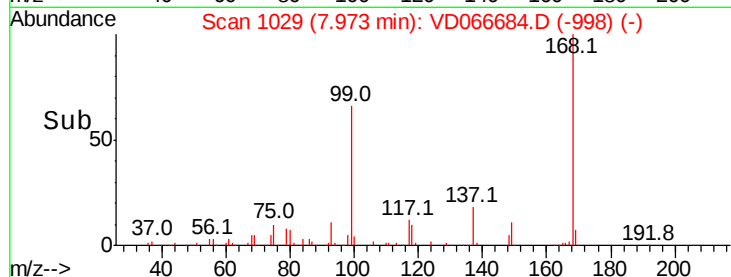
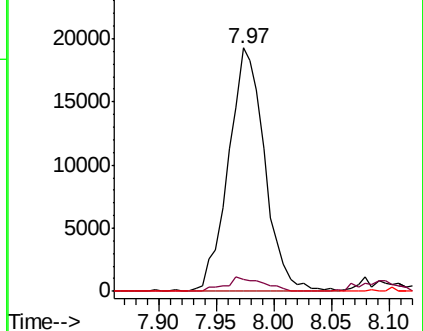
121 0.0 24.1 36.1#



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: 51.227 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066684.D

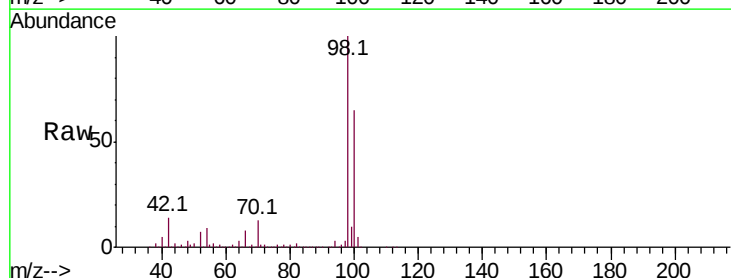
Acq: 14 Sep 2020 21:58

Tgt Ion: 98 Resp: 856806

Ion Ratio Lower Upper

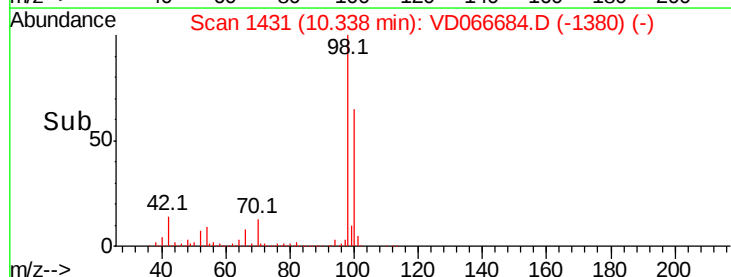
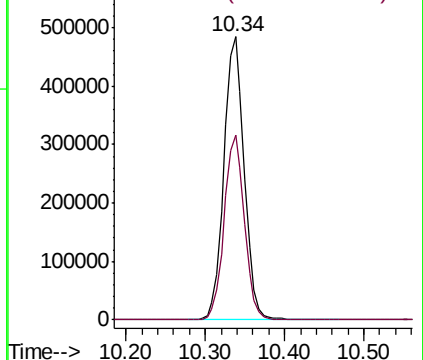
98 100

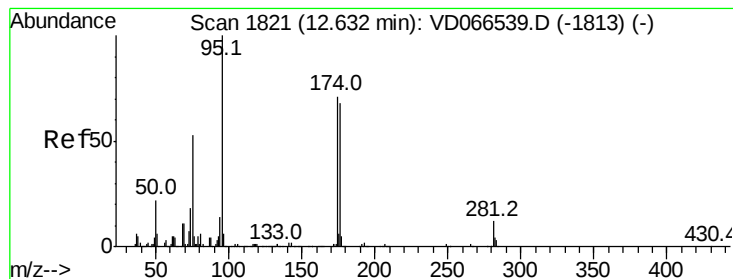
100 64.9 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 49.836 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD066684.D

Acq: 14 Sep 2020 21:58

Instrument :

MSVOA_D

ClientSampleId :

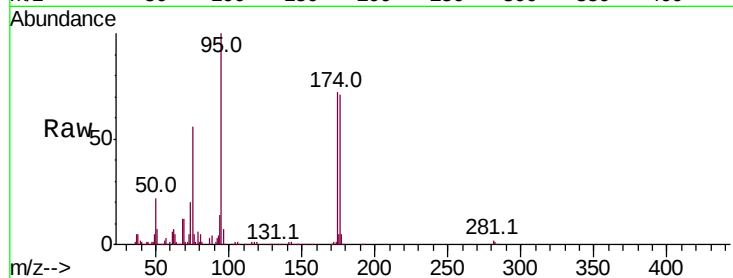
Tot Ion: 95 Resp: 276392

Ion Ratio Lower Upper

95 100

174 75.5 0.0 155.8

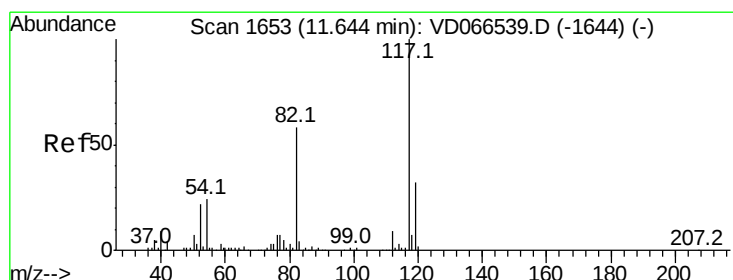
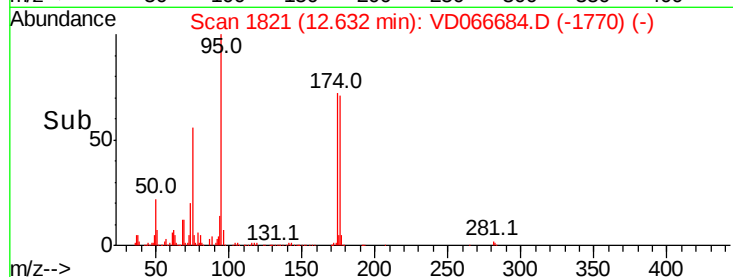
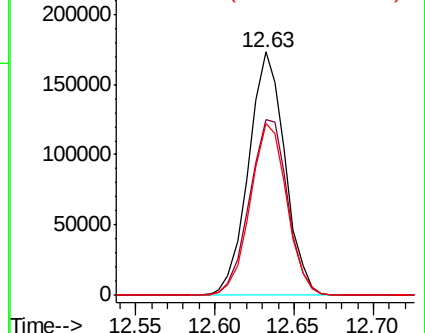
176 71.3 0.0 148.6



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: VD066684.D

Acq: 14 Sep 2020 21:58

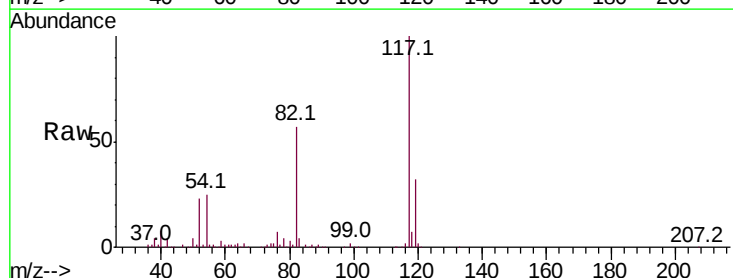
Tgt Ion: 117 Resp: 638426

Ion Ratio Lower Upper

117 100

82 56.7 46.2 69.2

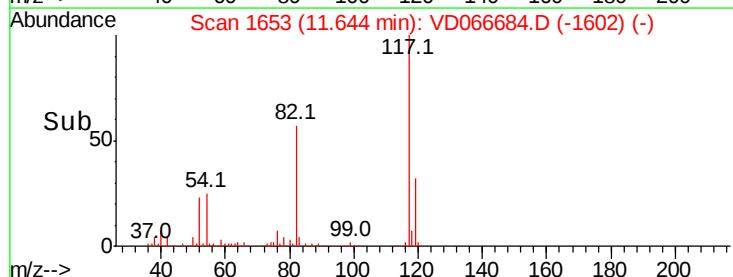
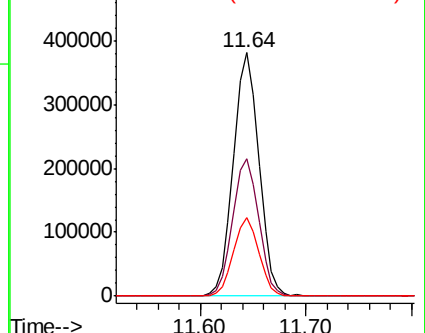
119 32.2 25.8 38.8

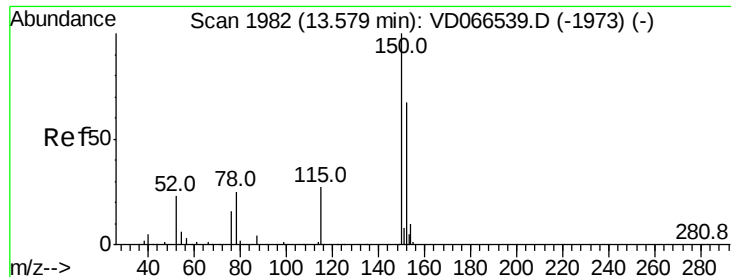


Abundance Ion 116.90 (116.60 to 117.60): V

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: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD066684.D

Acq: 14 Sep 2020 21:58

Instrument :

MSVOA_D

ClientSampleId :

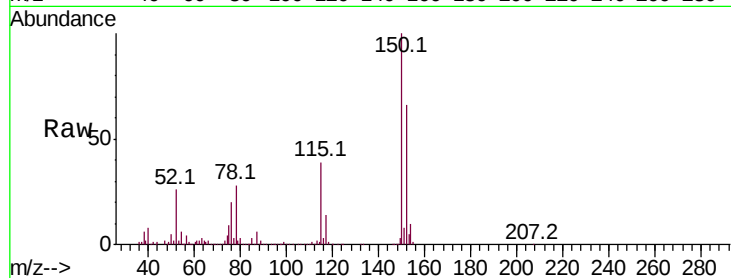
Tot Ion:152 Resp: 260720

Ion Ratio Lower Upper

152 100

115 62.7 30.4 91.2

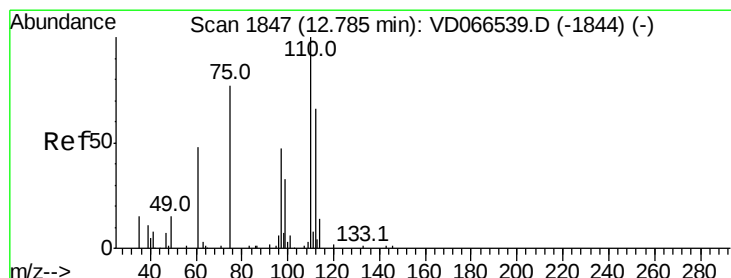
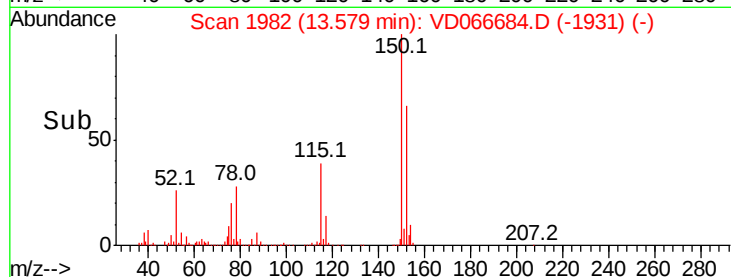
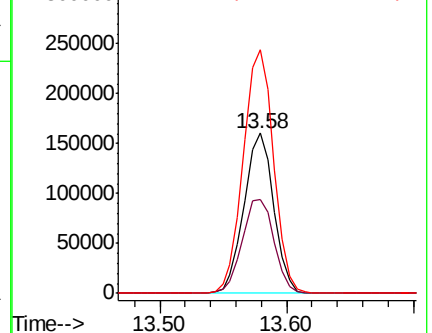
150 155.3 0.0 345.8



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: 62.425 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066684.D

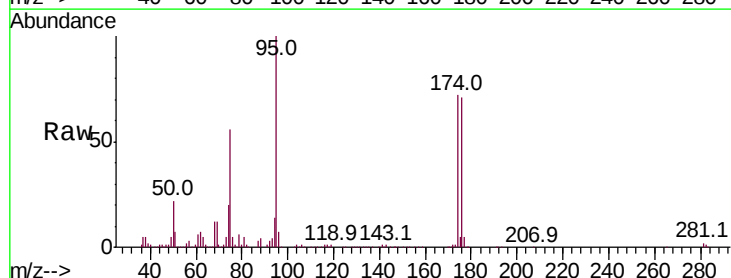
Acq: 14 Sep 2020 21:58

Tgt Ion: 75 Resp: 156525

Ion Ratio Lower Upper

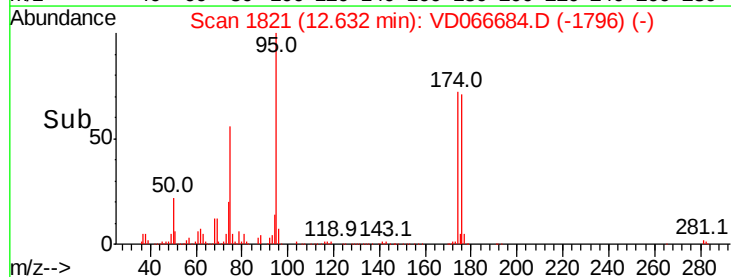
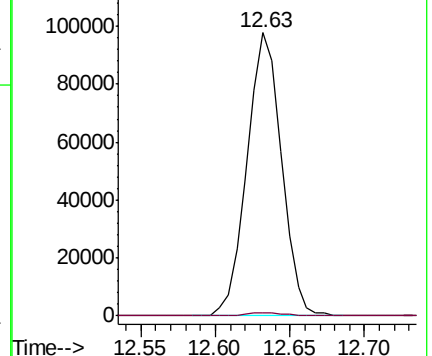
75 100

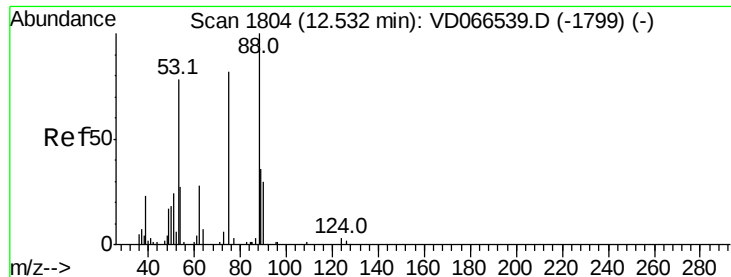
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 145.739 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066684.D

Acq: 14 Sep 2020 21:58

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 156525

Ion Ratio Lower Upper

75 100

53 0.1 87.0 130.4#

89 0.1 37.1 55.7#

