

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101620\
 Data File : VD067297.D
 Acq On : 16 Oct 2020 14:13
 Operator : VA/SY
 Sample : L4218-01
 Misc : 7.12G/5.00ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 HD-01-101520

Quant Time: Oct 17 00:40:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 14 03:30:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	331853	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	555595	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	518885	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	240199	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	179508	53.99	ug/l	0.00
Spiked Amount						
			Recovery	=	107.98%	
35) Dibromofluoromethane	7.91	113	180341	48.77	ug/l	0.00
Spiked Amount						
			Recovery	=	97.54%	
50) Toluene-d8	10.34	98	649897	48.57	ug/l	0.00
Spiked Amount						
			Recovery	=	97.14%	
62) 4-Bromofluorobenzene	12.64	95	222148	47.74	ug/l	0.00
Spiked Amount						
			Recovery	=	95.48%	

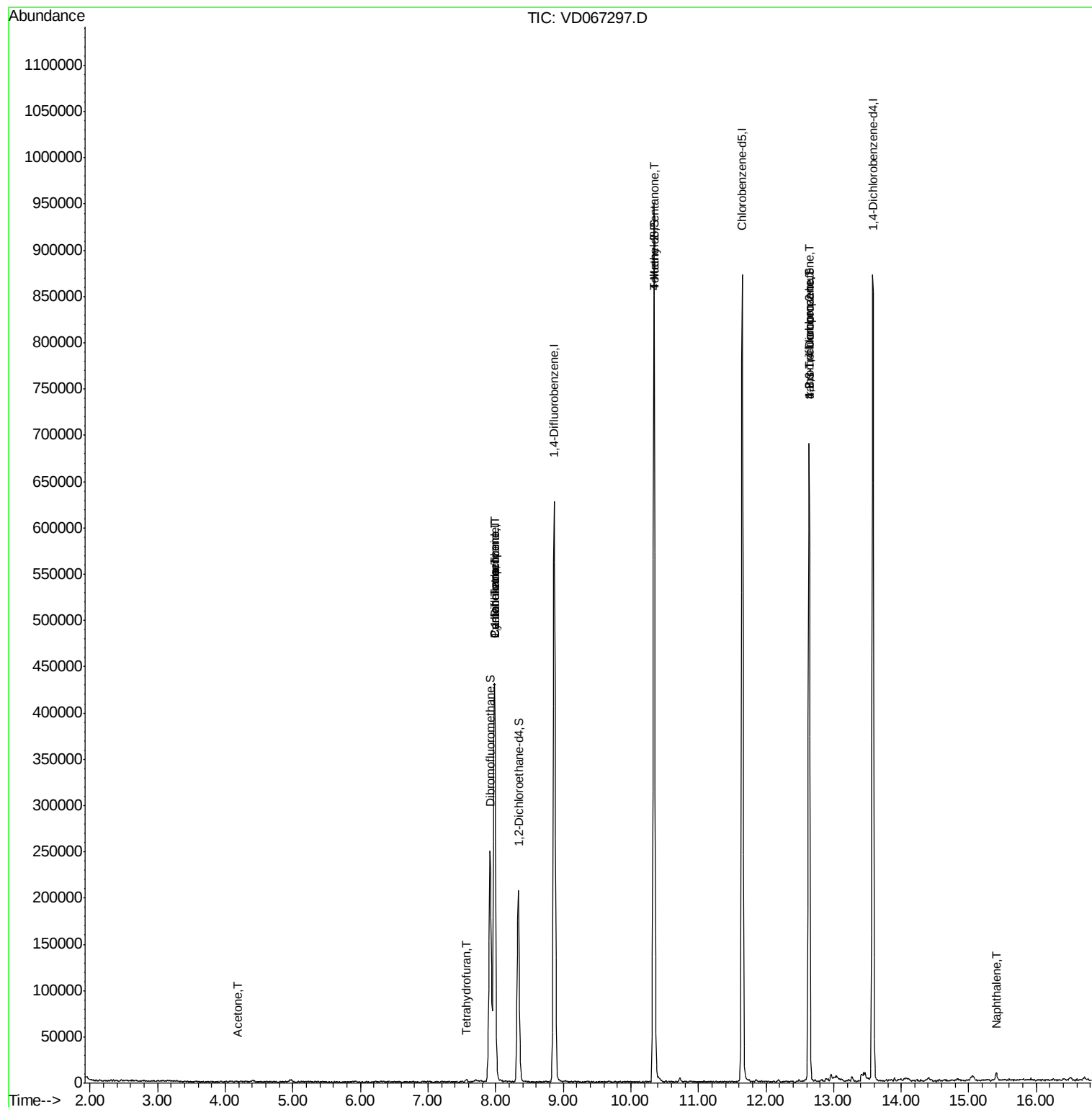
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	333	Below Cal	#	44
5) Bromomethane	2.77	94	174	Below Cal	#	3
11) Tert butyl alcohol	5.19	59	55	Below Cal	#	81
16) Acetone	4.18	43	674	1.448	ug/l #	42
20) Methylene Chloride	4.98	84	1648	Below Cal	#	81
29) Tetrahydrofuran	7.57	42	1494	5.064	ug/l #	74
31) Cyclohexane	7.98	56	6538	1.707	ug/l #	15
36) 1,1-Dichloropropene	7.98	75	23467	4.983	ug/l #	51
38) Carbon Tetrachloride	7.98	117	32689	5.431	ug/l #	18
51) 4-Methyl-2-Pentanone	10.34	43	2407	1.755	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	110007	66.078	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	110007	149.845	ug/l #	10
95) Naphthalene	15.41	128	8800	1.244	ug/l	97

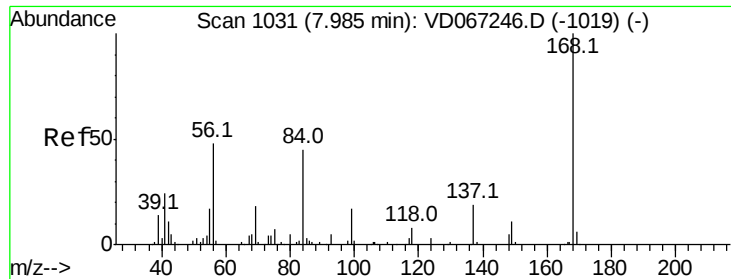
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067297.D

Acq: 16 Oct 2020 14:13

Instrument :

MSVOA_D

ClientSampleId :

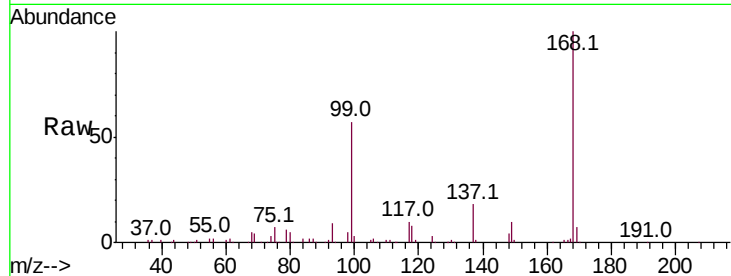
HD-01-101520

Tot Ion:168 Resp: 331853

Ion Ratio Lower Upper

168 100

99 57.4 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

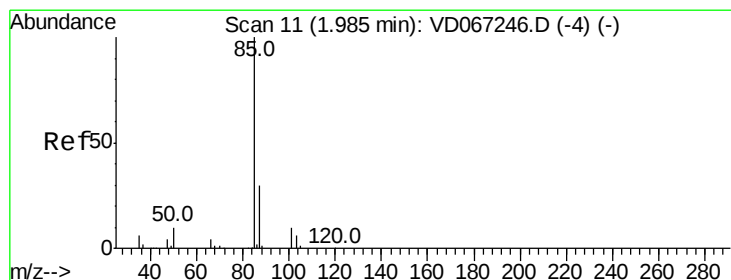
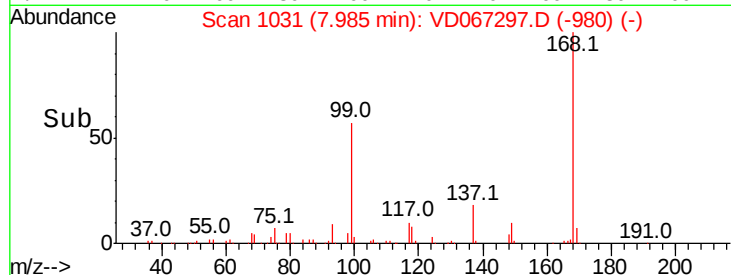
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD067297.D

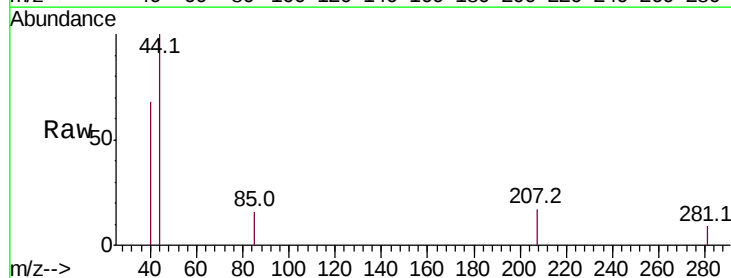
Acq: 16 Oct 2020 14:13

Tgt Ion: 85 Resp: 333

Ion Ratio Lower Upper

85 100

87 0.0 15.2 45.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

300

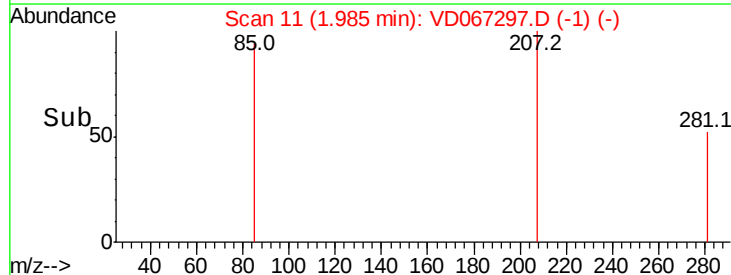
200

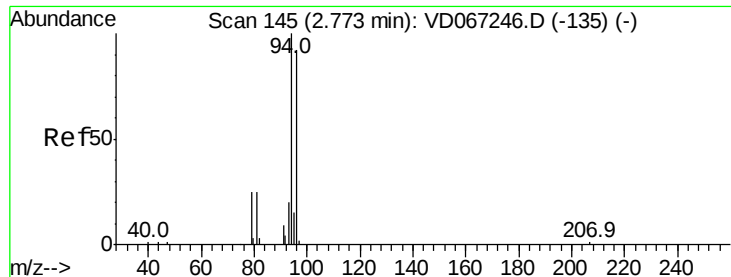
100

0

1.96 1.98 2.00 2.02

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD067297.D

Acq: 16 Oct 2020 14:13

Instrument :

MSVOA_D

ClientSampleId :

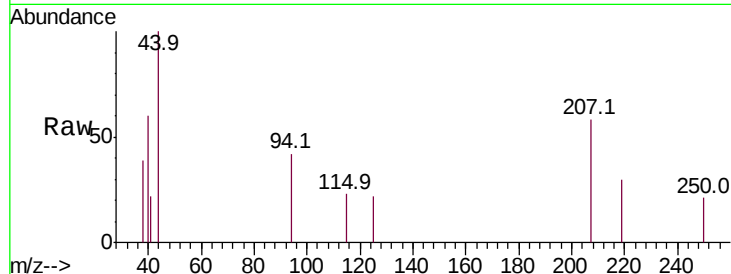
HD-01-101520

Tot Ion: 94 Resp: 174

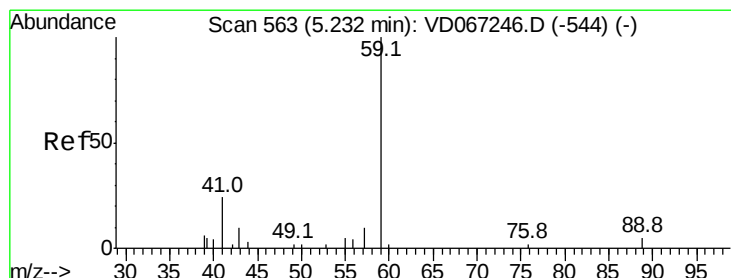
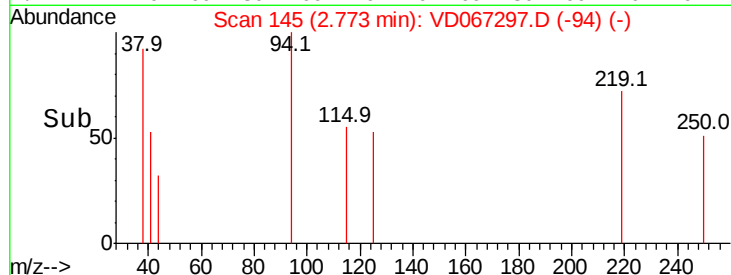
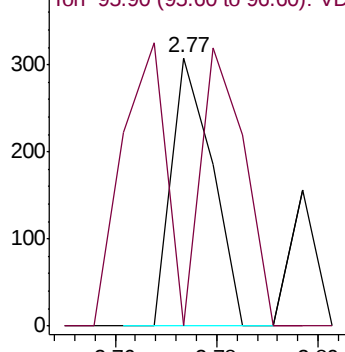
Ion Ratio Lower Upper

94 100

96 0.0 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.19 min Scan# 556

Delta R.T. -0.04 min

Lab File: VD067297.D

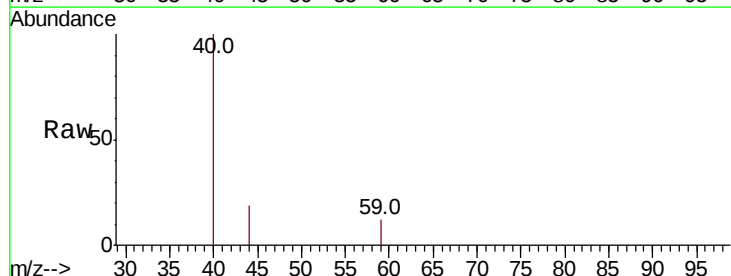
Acq: 16 Oct 2020 14:13

Tgt Ion: 59 Resp: 55

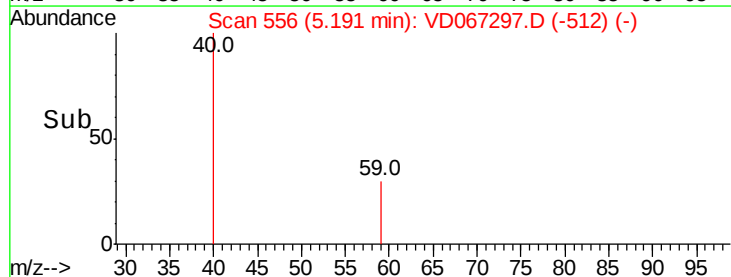
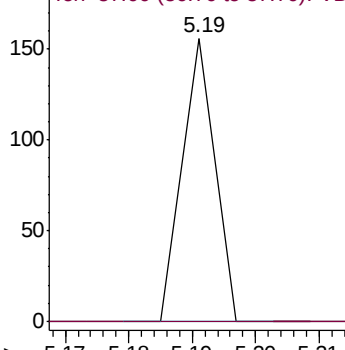
Ion Ratio Lower Upper

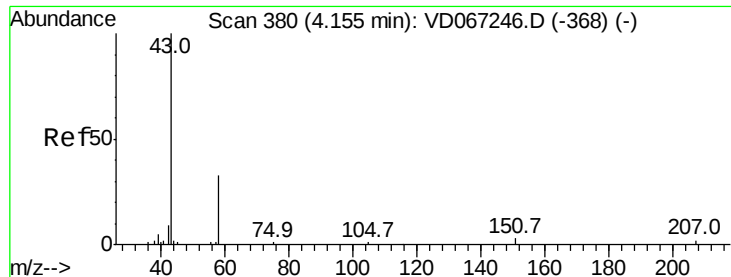
59 100

57 0.0 5.1 7.7#



Abundance Ion 59.00 (58.70 to 59.70): VDC





#16

Acetone

Concen: 1.448 ug/l

RT: 4.18 min Scan# 384

Delta R.T. 0.02 min

Lab File: VD067297.D

Acq: 16 Oct 2020 14:13

Instrument :

MSVOA_D

ClientSampleId :

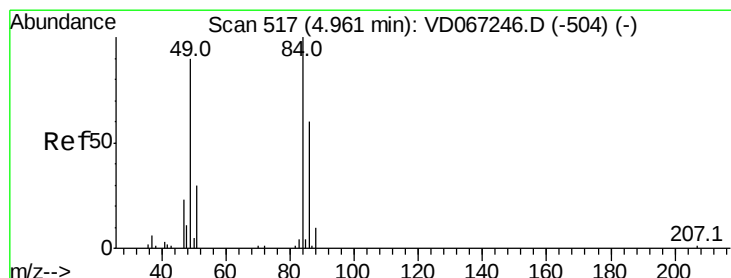
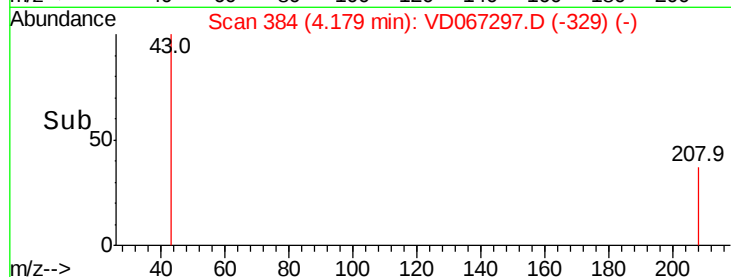
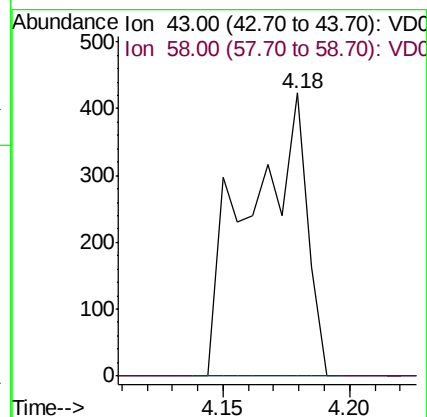
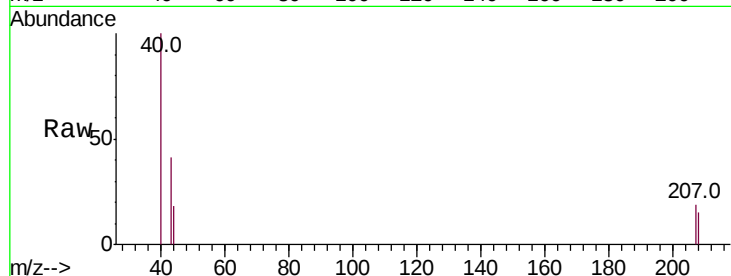
HD-01-101520

Tot Ion: 43 Resp: 674

Ion Ratio Lower Upper

43 100

58 0.0 26.1 39.1#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.98 min Scan# 520

Delta R.T. 0.02 min

Lab File: VD067297.D

Acq: 16 Oct 2020 14:13

Tgt Ion: 84 Resp: 1648

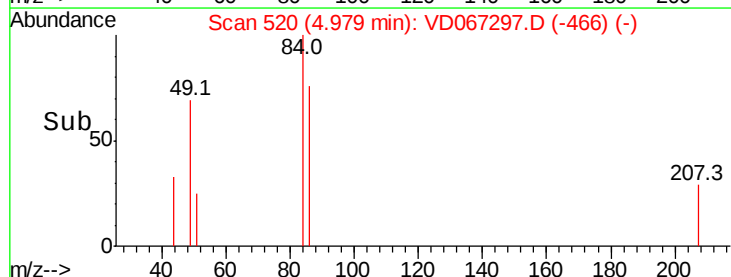
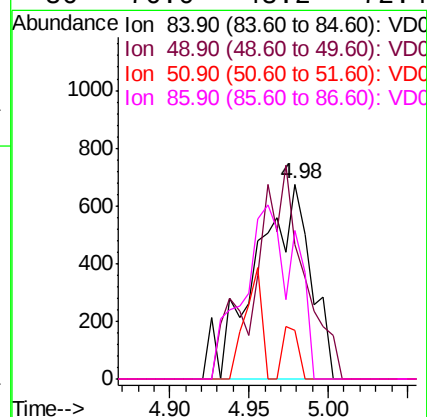
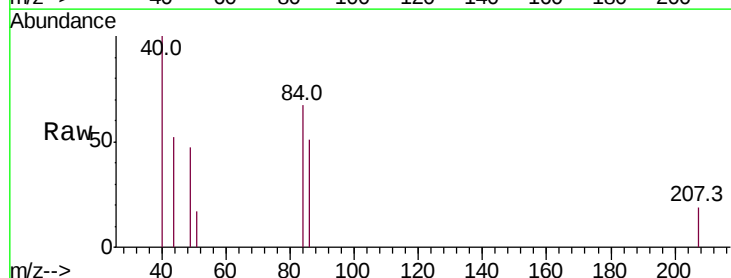
Ion Ratio Lower Upper

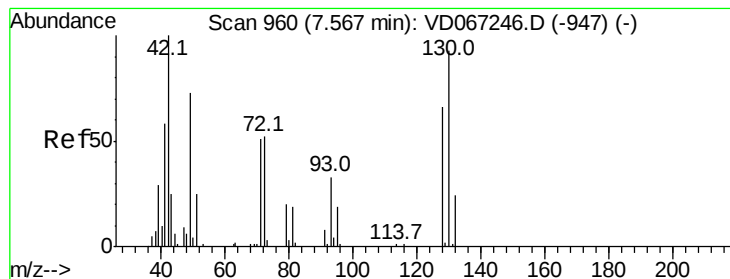
84 100

49 69.2 72.2 108.2#

51 25.1 23.8 35.8

86 76.0 48.2 72.4#





#29

Tetrahydrofuran

Concen: 5.064 ug/l

RT: 7.57 min Scan# 960

Delta R.T. 0.00 min

Lab File: VD067297.D

Acq: 16 Oct 2020 14:13

Instrument :

MSVOA_D

ClientSampleId :

HD-01-101520

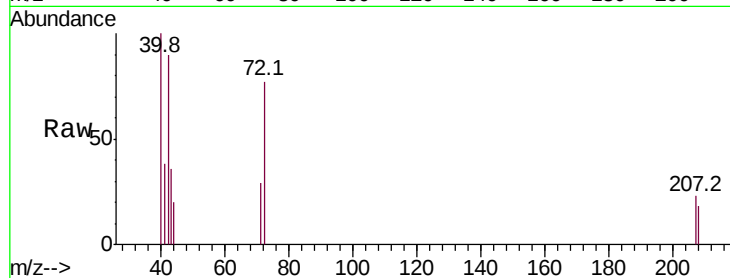
Tot Ion: 42 Resp: 1494

Ion Ratio Lower Upper

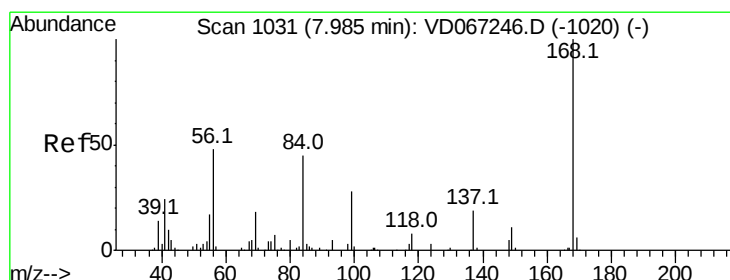
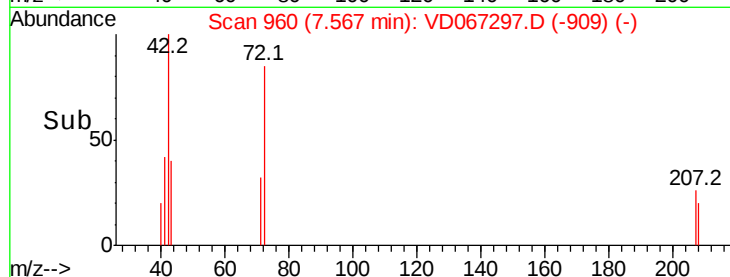
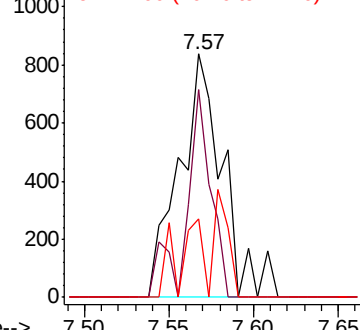
42 100

72 48.1 43.2 64.8

71 17.8 39.4 59.0#



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 1.707 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067297.D

Acq: 16 Oct 2020 14:13

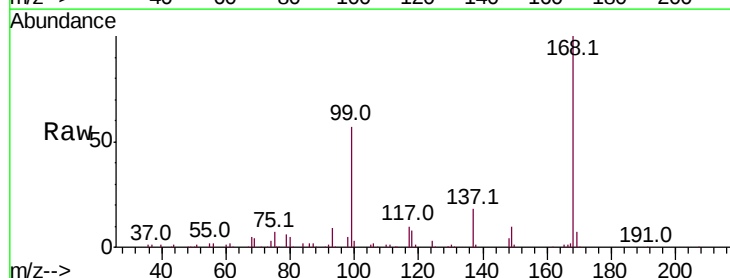
Tgt Ion: 56 Resp: 6538

Ion Ratio Lower Upper

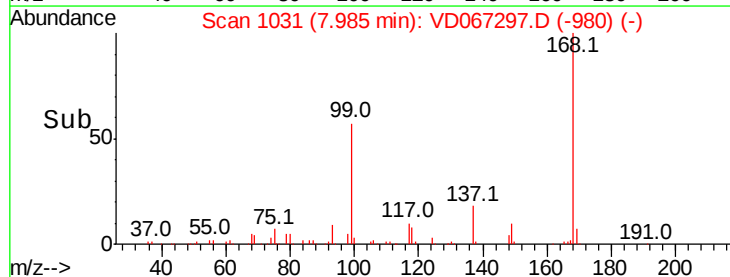
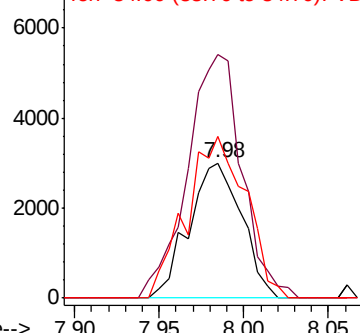
56 100

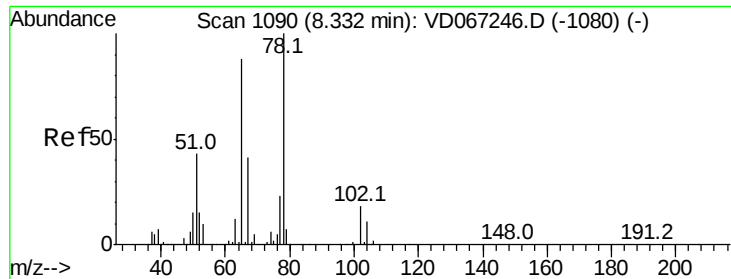
69 180.2 29.8 44.6#

84 119.5 76.6 114.8#



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: 53.993 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD067297.D

Acq: 16 Oct 2020 14:13

Instrument :

MSVOA_D

ClientSampleId :

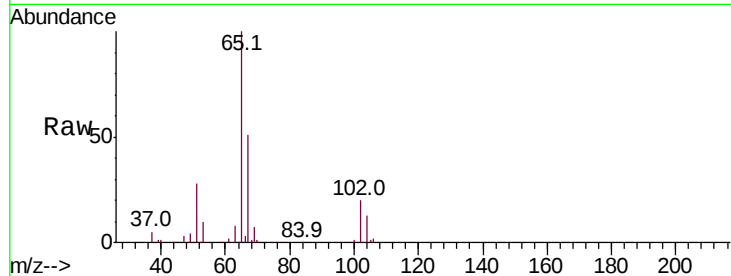
HD-01-101520

Tot Ion: 65 Resp: 179508

Ion Ratio Lower Upper

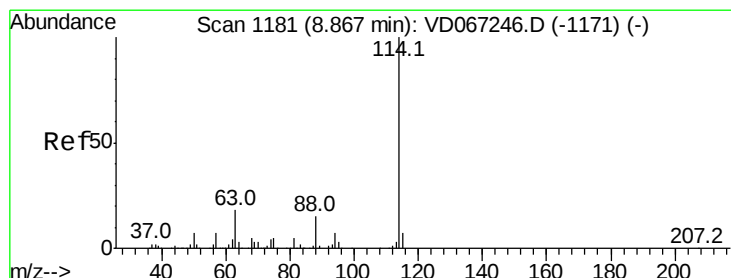
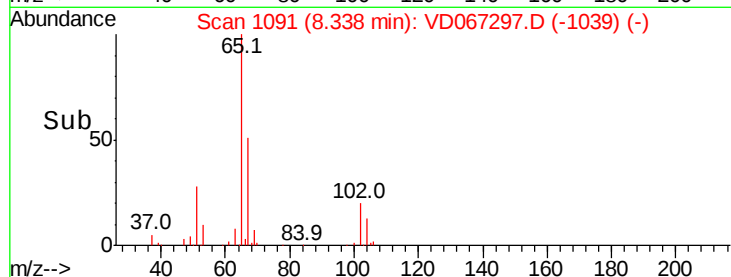
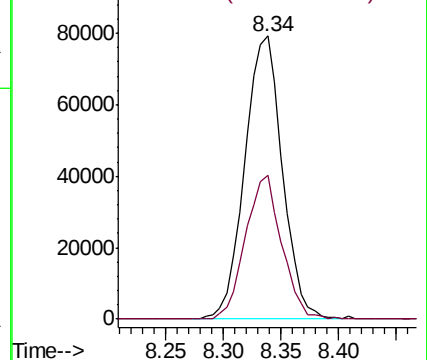
65 100

67 48.9 0.0 103.8



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: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD067297.D

Acq: 16 Oct 2020 14:13

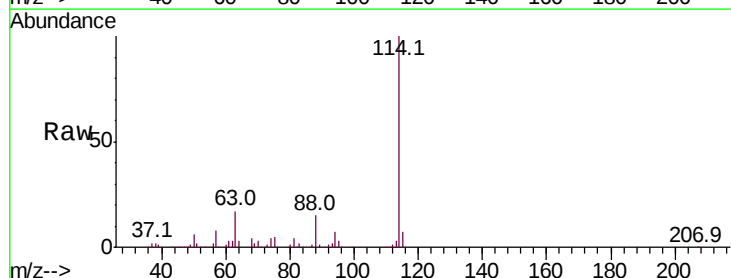
Tgt Ion: 114 Resp: 555595

Ion Ratio Lower Upper

114 100

63 17.3 0.0 35.0

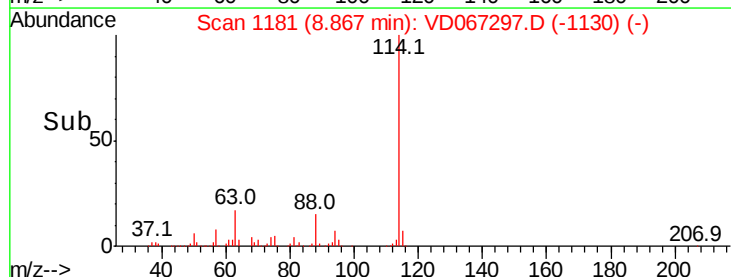
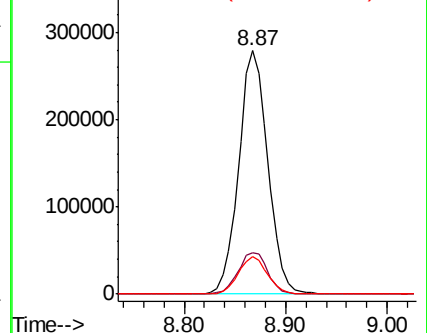
88 15.3 0.0 30.6

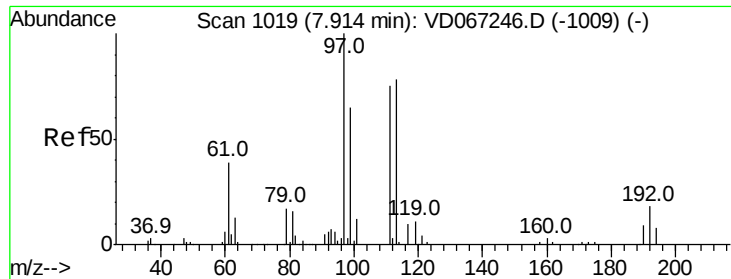


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

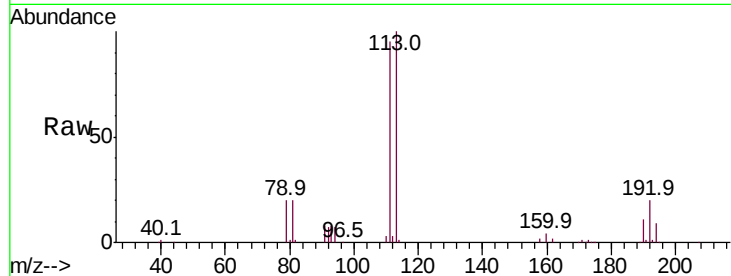




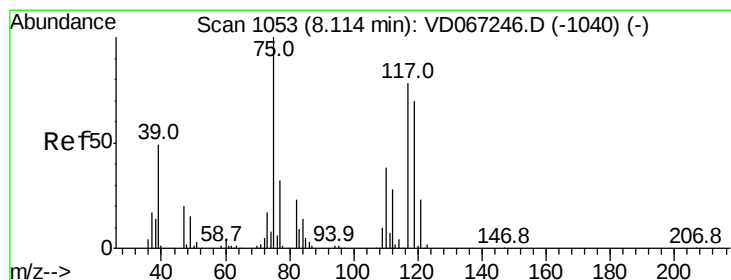
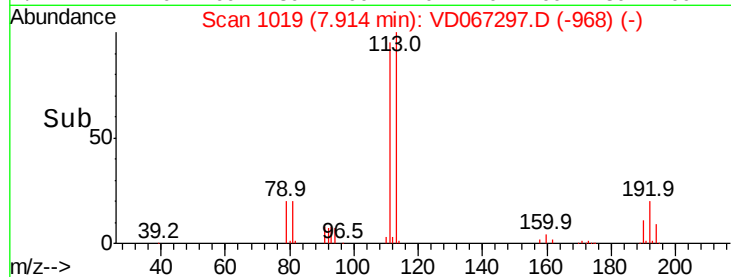
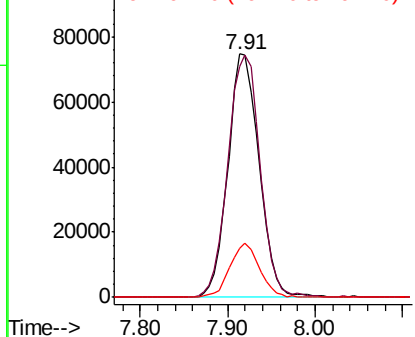
#35
 Dibromofluoromethane
 Concen: 48.774 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VD067297.D
 Acq: 16 Oct 2020 14:13

Instrument :
 MSVOA_D
 ClientSampleId :
 HD-01-101520

Tot Ion:113 Resp: 180341
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.6 122.4
 192 21.0 17.0 25.4

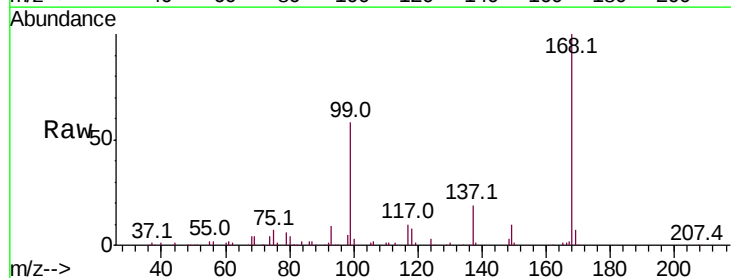


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

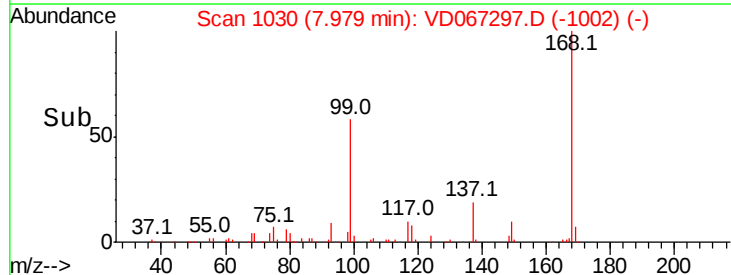
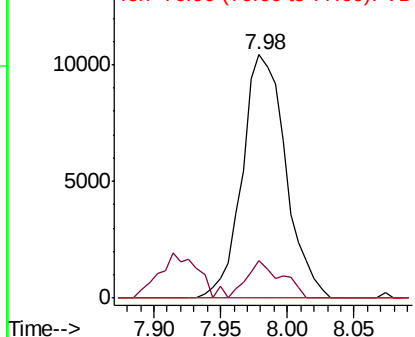


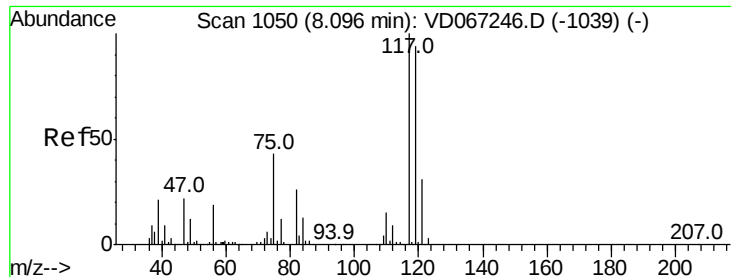
#36
 1,1-Dichloropropene
 Concen: 4.983 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.13 min
 Lab File: VD067297.D
 Acq: 16 Oct 2020 14:13

Tgt Ion: 75 Resp: 23467
 Ion Ratio Lower Upper
 75 100
 110 12.3 19.6 58.7#
 77 0.0 24.6 37.0#



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: 5.431 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD067297.D

Acq: 16 Oct 2020 14:13

Instrument :

MSVOA_D

ClientSampleId :

HD-01-101520

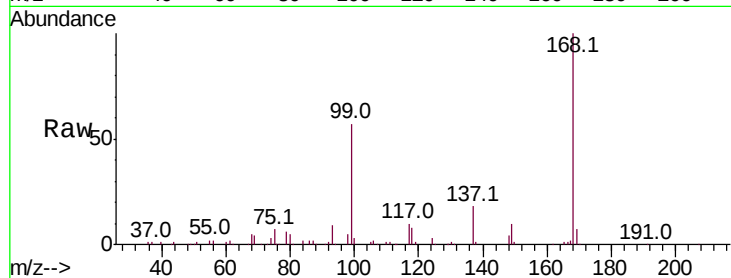
Tot Ion:117 Resp: 32689

Ion Ratio Lower Upper

117 100

119 6.0 75.0 112.4#

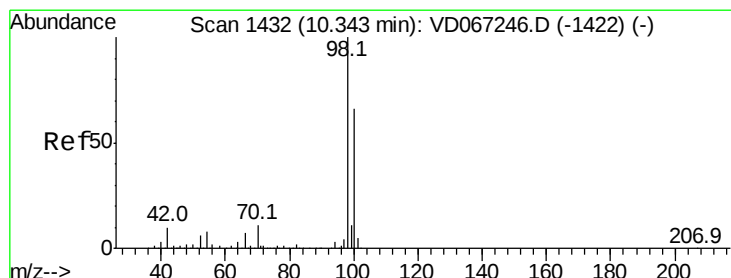
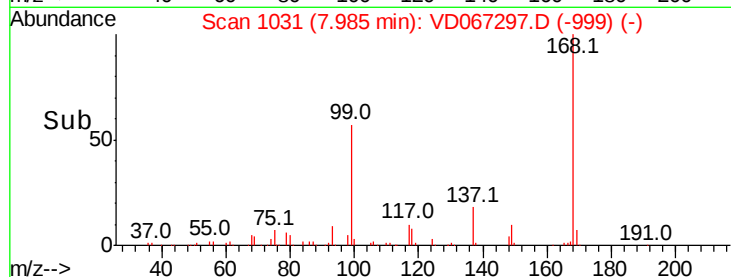
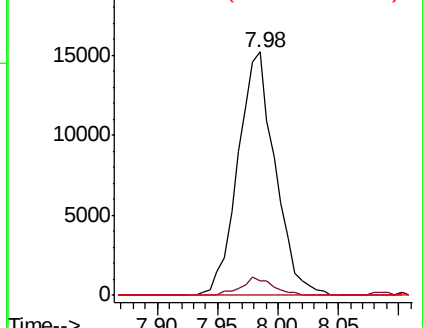
121 0.0 24.9 37.3#



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: 48.569 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067297.D

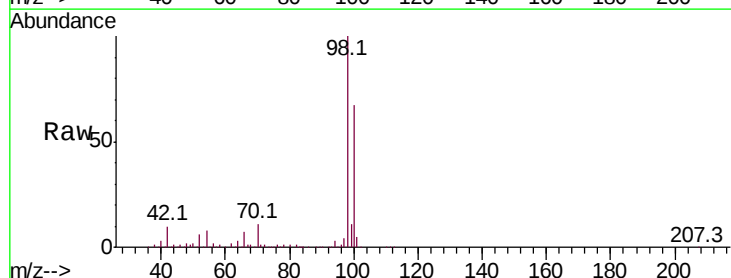
Acq: 16 Oct 2020 14:13

Tgt Ion: 98 Resp: 649897

Ion Ratio Lower Upper

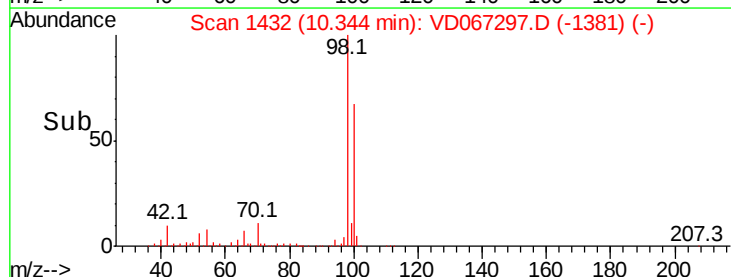
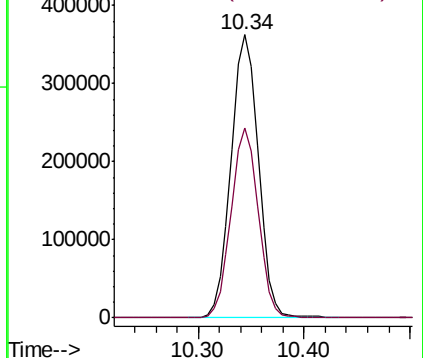
98 100

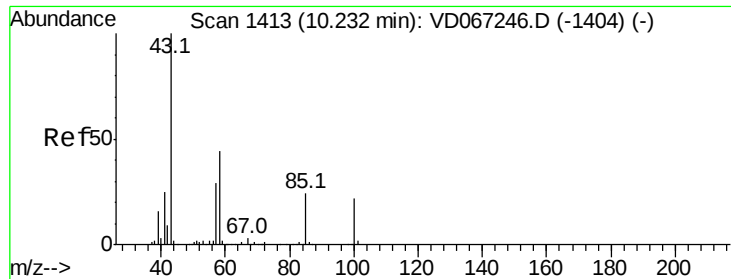
100 66.6 53.1 79.7



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: 1.755 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.11 min

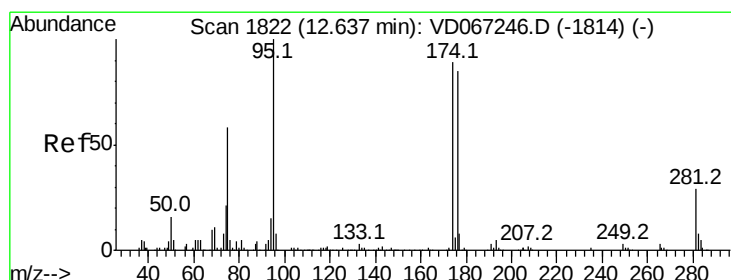
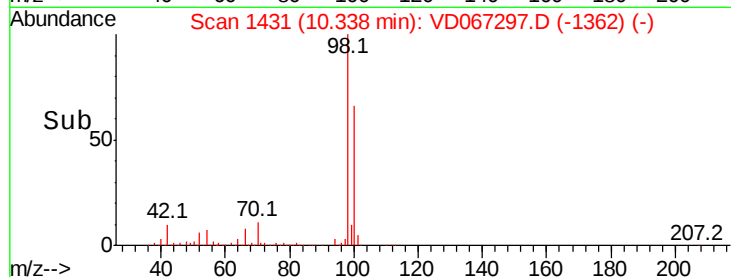
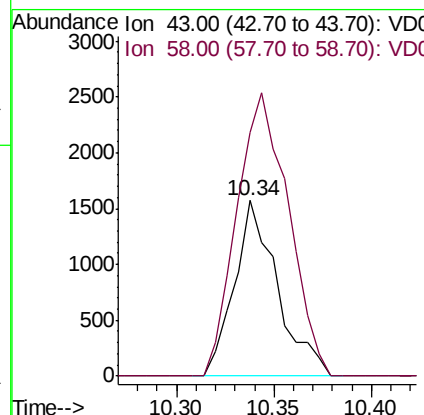
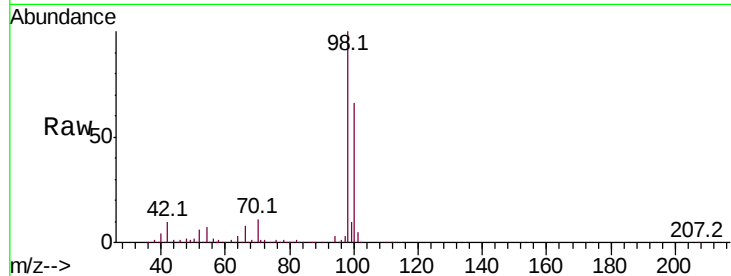
Lab File: VD067297.D

Acq: 16 Oct 2020 14:13

Instrument :
MSVOA_D
ClientSampleId :
HD-01-101520

Tot Ion: 43 Resp: 2407

Ion	Ratio	Lower	Upper
43	100		
58	193.0	35.7	53.5#



#62

4-Bromofluorobenzene

Concen: 47.745 ug/l

RT: 12.64 min Scan# 1822

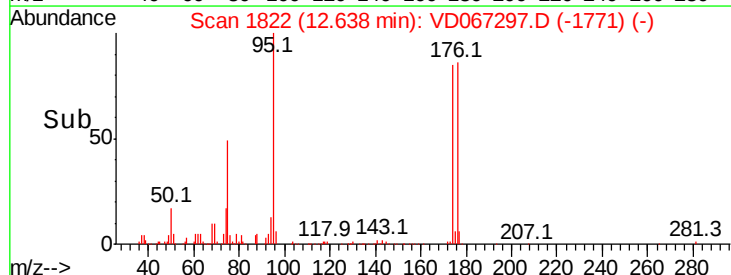
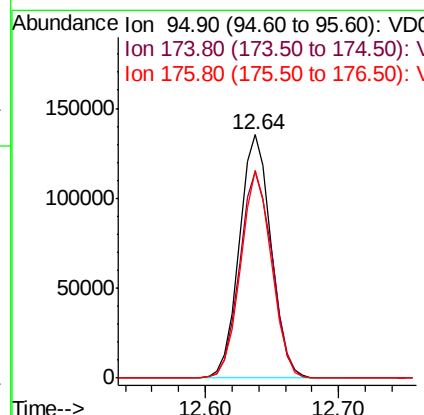
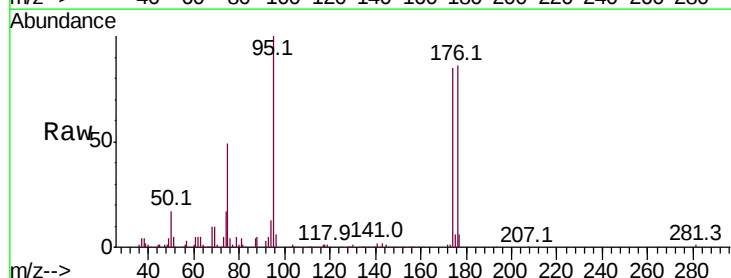
Delta R.T. 0.00 min

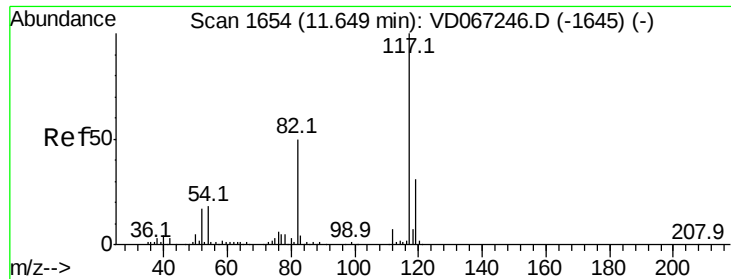
Lab File: VD067297.D

Acq: 16 Oct 2020 14:13

Tgt Ion: 95 Resp: 222148

Ion	Ratio	Lower	Upper
95	100		
174	87.0	0.0	175.2
176	83.0	0.0	168.6

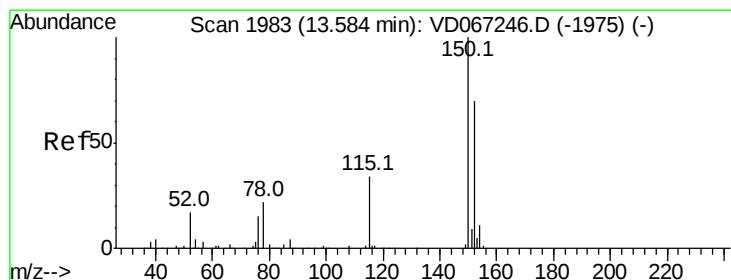
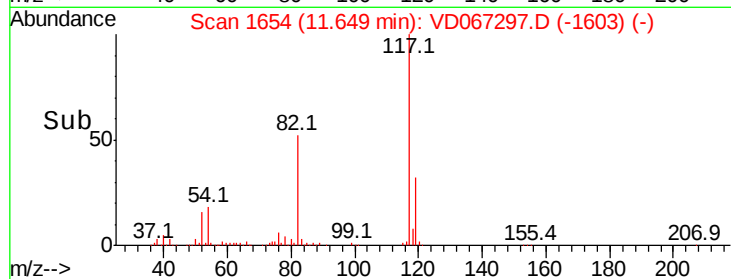
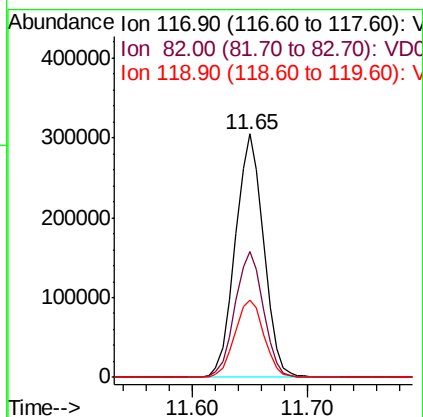
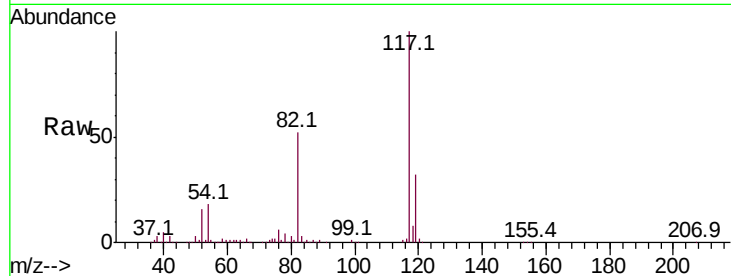




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067297.D
Acq: 16 Oct 2020 14:13

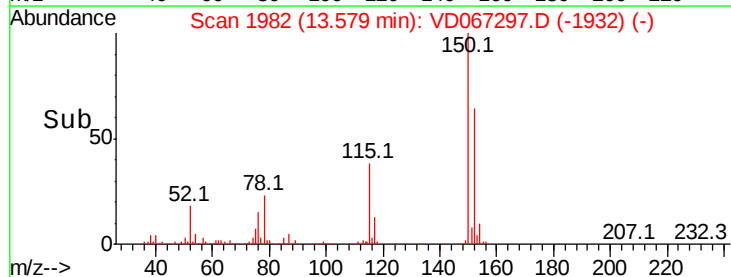
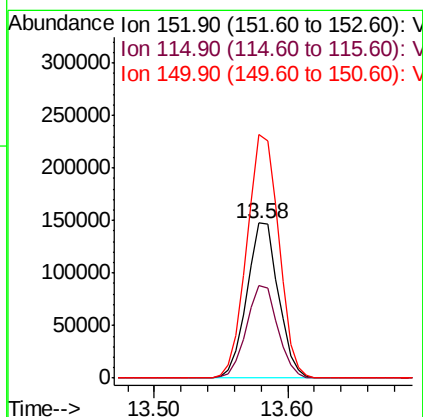
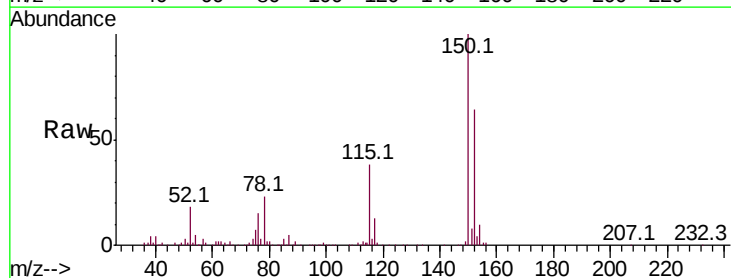
Instrument :
MSVOA_D
ClientSampleId :
HD-01-101520

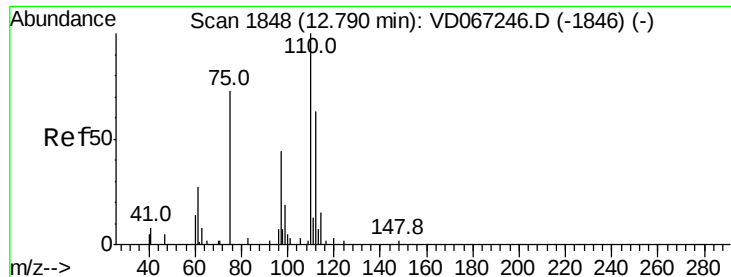
Tot Ion:117 Resp: 518885
Ion Ratio Lower Upper
117 100
82 51.6 39.9 59.9
119 31.6 24.9 37.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD067297.D
Acq: 16 Oct 2020 14:13

Tgt Ion:152 Resp: 240199
Ion Ratio Lower Upper
152 100
115 59.4 29.3 87.9
150 159.4 0.0 339.0





#76

1,2,3-Trichloropropane

Concen: 66.078 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067297.D

Acq: 16 Oct 2020 14:13

Instrument :

MSVOA_D

ClientSampleId :

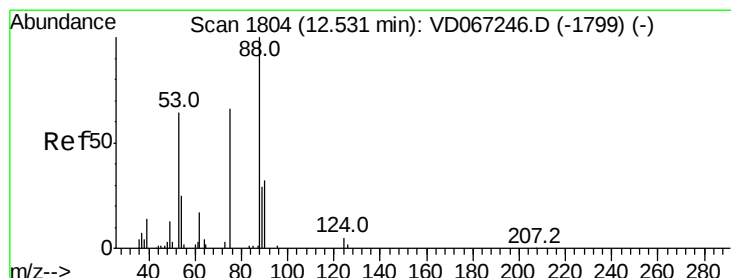
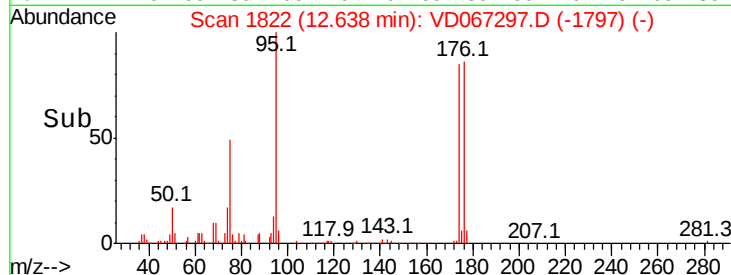
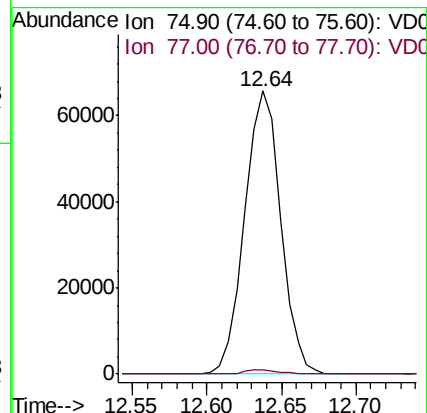
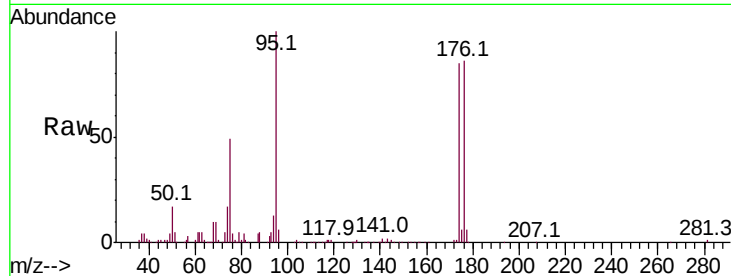
HD-01-101520

Tot Ion: 75 Resp: 110007

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 149.845 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067297.D

Acq: 16 Oct 2020 14:13

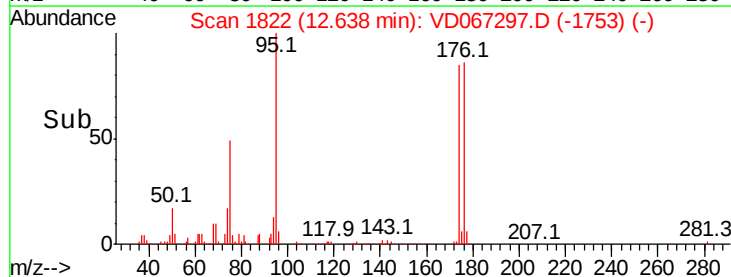
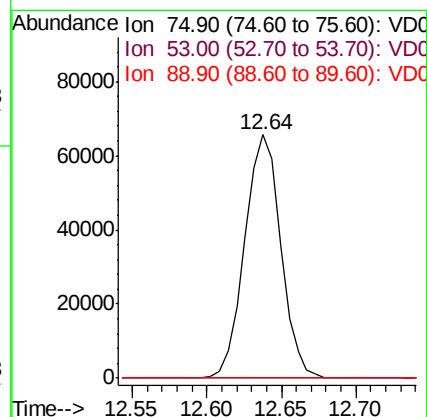
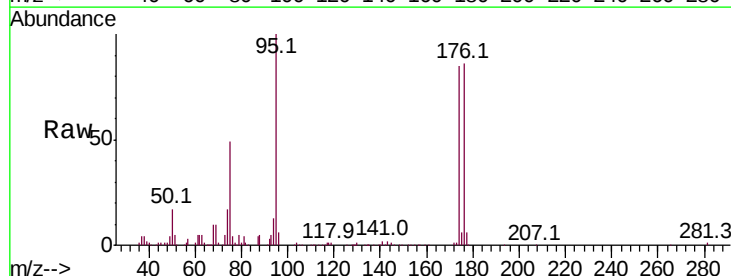
Tgt Ion: 75 Resp: 110007

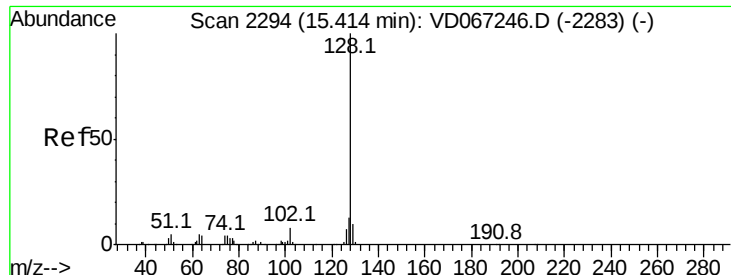
Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.1 39.9 59.9#





#95

Naphthalene

Concen: 1.244 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.01 min

Lab File: VD067297.D

Acq: 16 Oct 2020 14:13

Instrument :

MSVOA_D

ClientSampleId :

HD-01-101520

Tot Ion:128 Resp: 8800

Ion Ratio Lower Upper

128 100

127 13.5 10.4 15.6

129 12.7 8.6 12.8

