

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102720\
 Data File : VD067416.D
 Acq On : 27 Oct 2020 17:19
 Operator : VA/SY
 Sample : L4527-01
 Misc : 2.52G/5.00ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 26414-26215

Quant Time: Oct 28 00:46:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 19 19:13:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	294641	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	507207	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	520393	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	251638	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	158571	53.72	ug/l	0.00
Spiked Amount			Recovery	=	107.44%	
35) Dibromofluoromethane	7.92	113	161486	47.84	ug/l	0.00
Spiked Amount			Recovery	=	95.68%	
50) Toluene-d8	10.34	98	614401	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	
62) 4-Bromofluorobenzene	12.64	95	242870	57.18	ug/l	0.00
Spiked Amount			Recovery	=	114.36%	

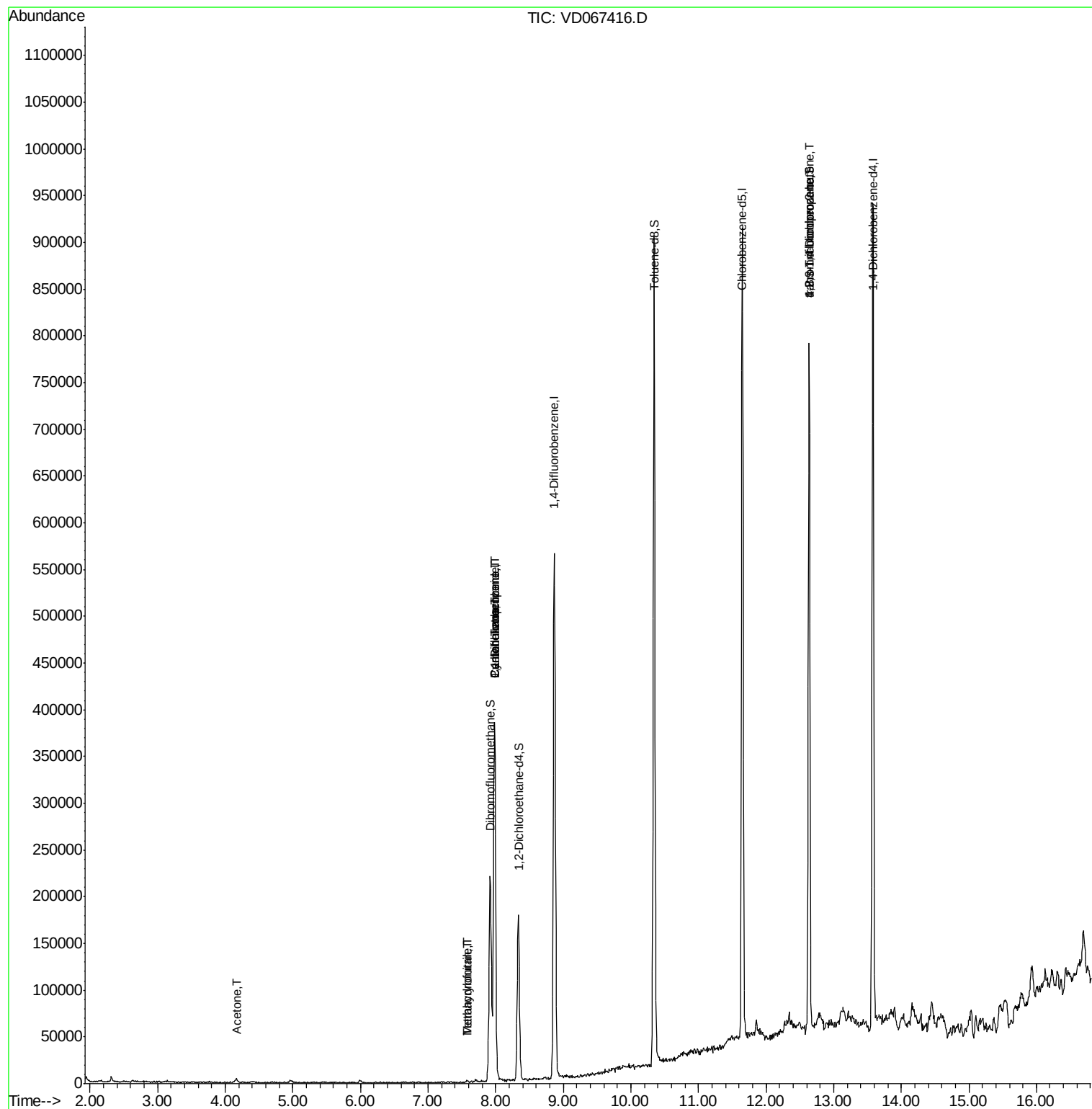
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	138	Below Cal	#	44
5) Bromomethane	2.78	94	140	Below Cal	#	3
11) Tert butyl alcohol	5.21	59	356	Below Cal	#	81
16) Acetone	4.17	43	6183	14.956	ug/l #	52
20) Methylene Chloride	4.96	84	884	Below Cal	#	86
29) Tetrahydrofuran	7.58	42	578	2.206	ug/l #	67
31) Cyclohexane	7.98	56	5256	1.546	ug/l #	39
36) 1,1-Dichloropropene	7.98	75	20747	4.826	ug/l #	51
38) Carbon Tetrachloride	7.98	117	29350	5.342	ug/l #	17
41) Methacrylonitrile	7.58	41	944	1.381	ug/l #	25
76) 1,2,3-Trichloropropane	12.64	75	121696	69.776	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	121696	158.232	ug/l #	11

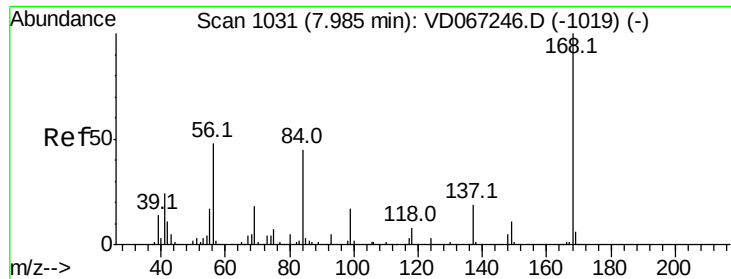
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067416.D

Acq: 27 Oct 2020 17:19

Instrument :

MSVOA_D

ClientSampleId :

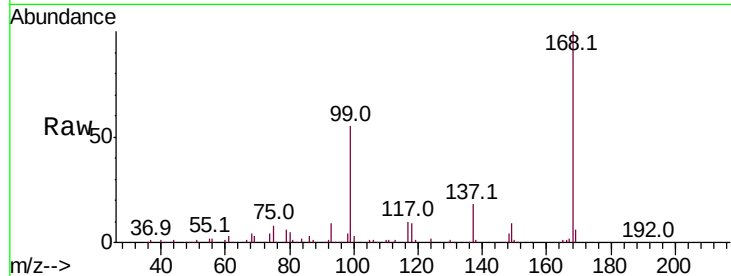
26414-26215

Tot Ion:168 Resp: 294641

Ion Ratio Lower Upper

168 100

99 55.2 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

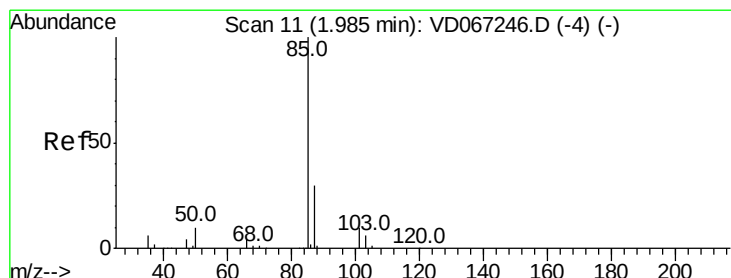
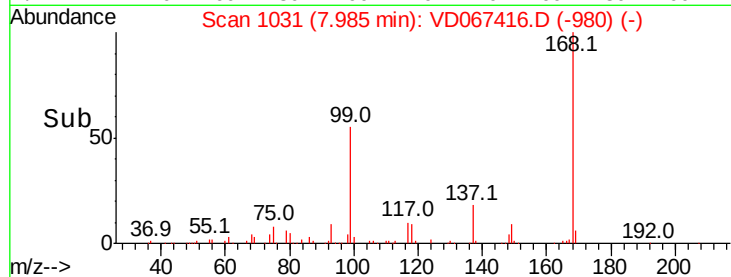
100000

50000

0

Time-->

7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067416.D

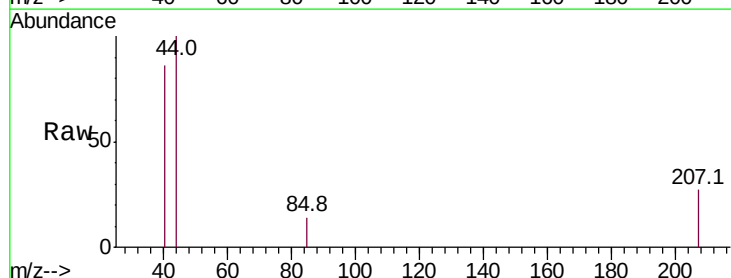
Acq: 27 Oct 2020 17:19

Tgt Ion: 85 Resp: 138

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

200

150

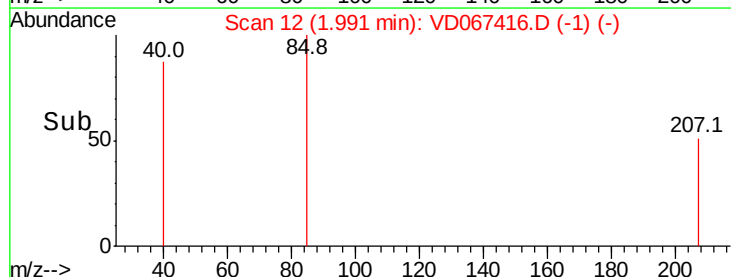
100

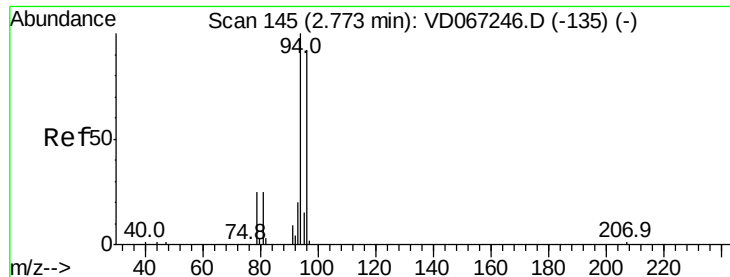
50

0

Time-->

1.96 1.98 2.00





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD067416.D

Acq: 27 Oct 2020 17:19

Instrument :

MSVOA_D

ClientSampleId :

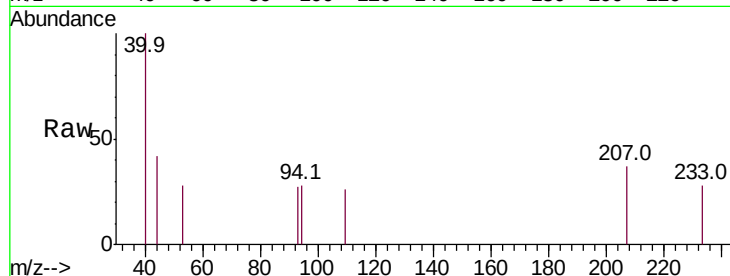
26414-26215

Tot Ion: 94 Resp: 140

Ion Ratio Lower Upper

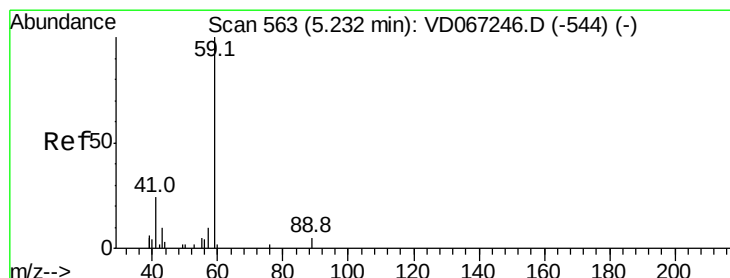
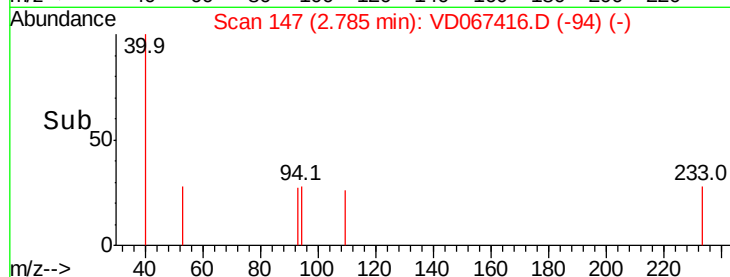
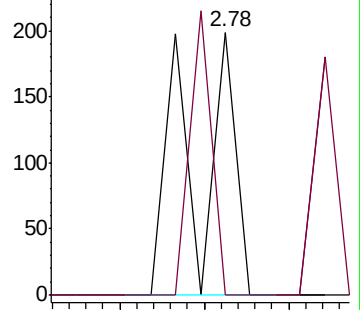
94 100

96 0.0 73.8 110.6#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 560

Delta R.T. -0.02 min

Lab File: VD067416.D

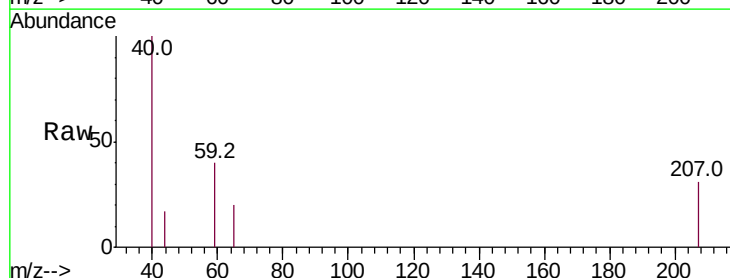
Acq: 27 Oct 2020 17:19

Tgt Ion: 59 Resp: 356

Ion Ratio Lower Upper

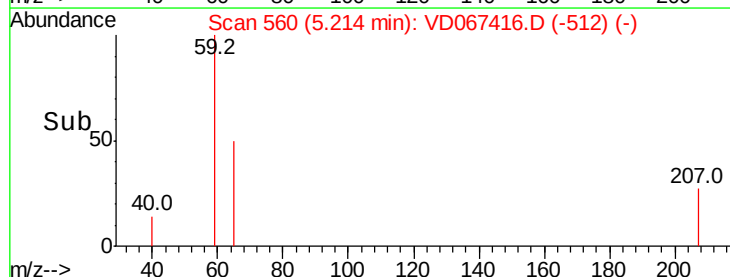
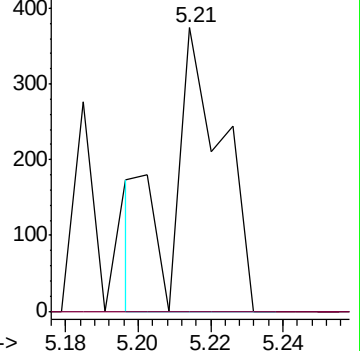
59 100

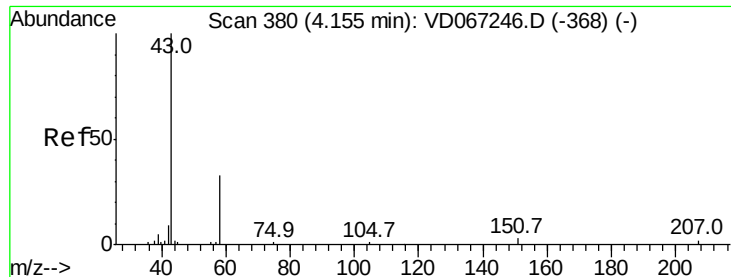
57 0.0 5.1 7.7#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 14.956 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD067416.D

Acq: 27 Oct 2020 17:19

Instrument :

MSVOA_D

ClientSampleId :

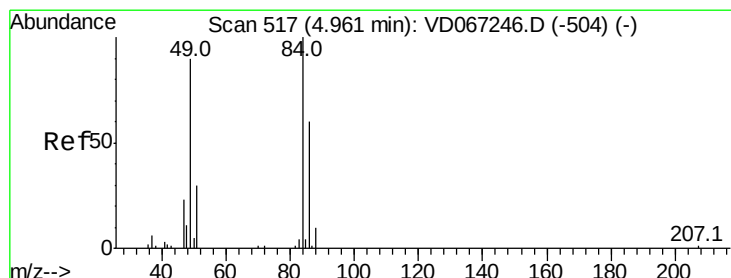
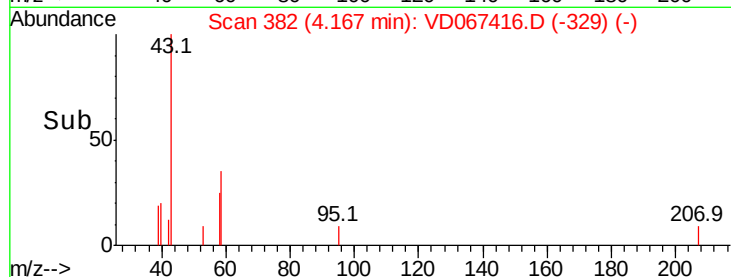
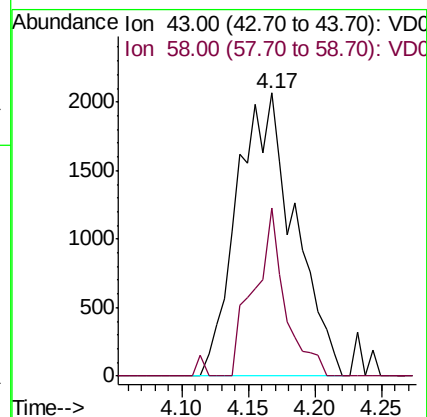
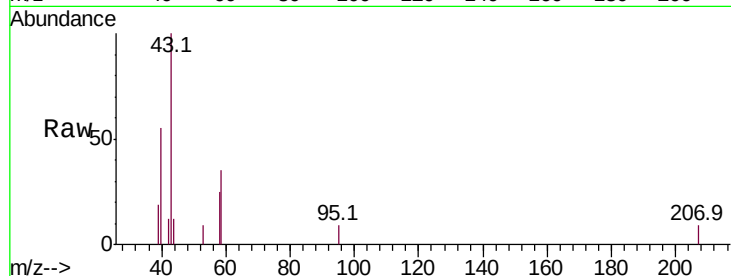
26414-26215

Tot Ion: 43 Resp: 6183

Ion Ratio Lower Upper

43 100

58 59.6 26.1 39.1#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 516

Delta R.T. -0.01 min

Lab File: VD067416.D

Acq: 27 Oct 2020 17:19

Tgt Ion: 84 Resp: 884

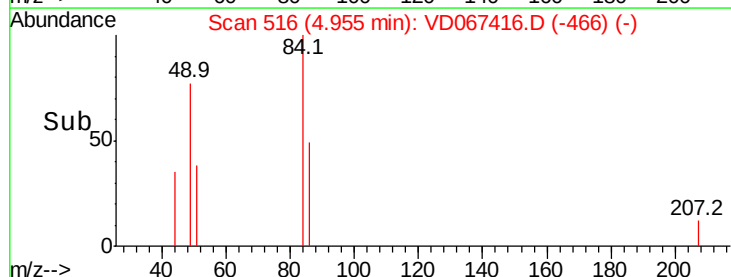
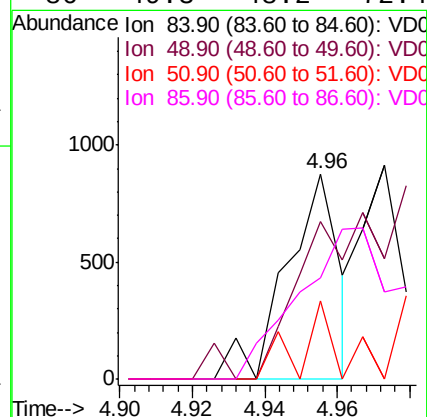
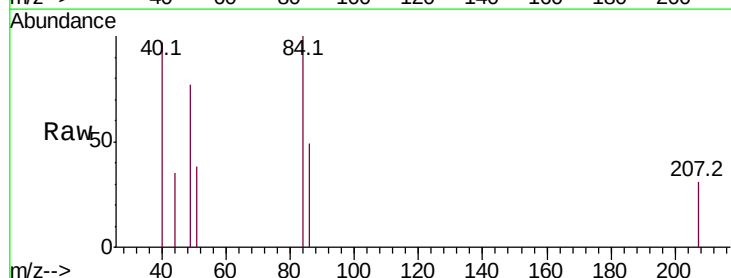
Ion Ratio Lower Upper

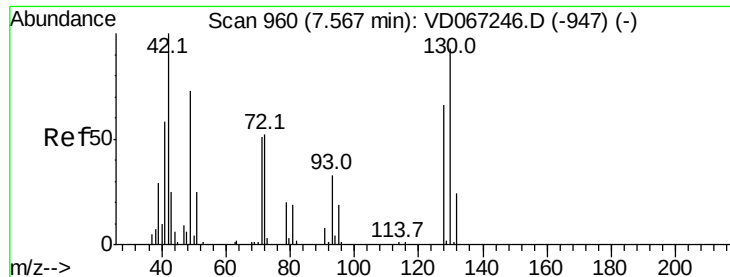
84 100

49 76.9 72.2 108.2

51 37.9 23.8 35.8#

86 49.3 48.2 72.4





#29

Tetrahydrofuran

Concen: 2.206 ug/l

RT: 7.58 min Scan# 962

Delta R.T. 0.01 min

Lab File: VD067416.D

Acq: 27 Oct 2020 17:19

Instrument :

MSVOA_D

ClientSampleId :

26414-26215

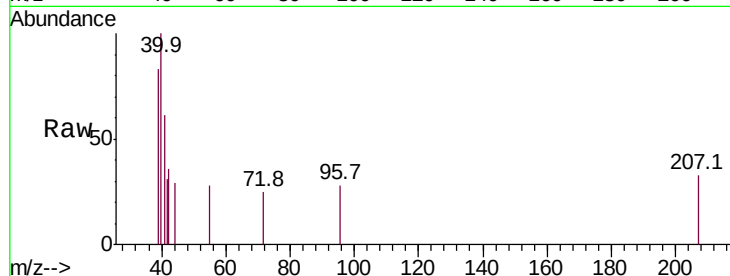
Tot Ion: 42 Resp: 578

Ion Ratio Lower Upper

42 100

72 73.9 43.2 64.8#

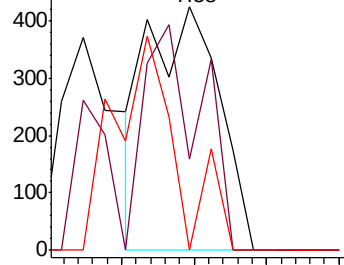
71 75.4 39.4 59.0#



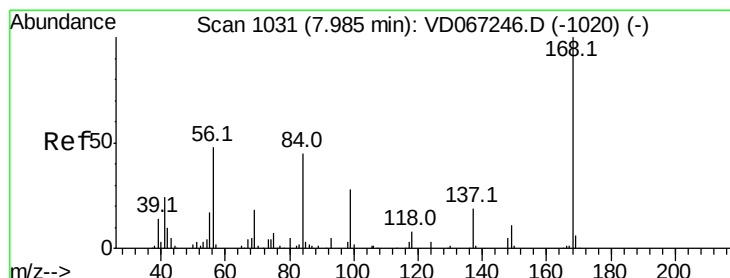
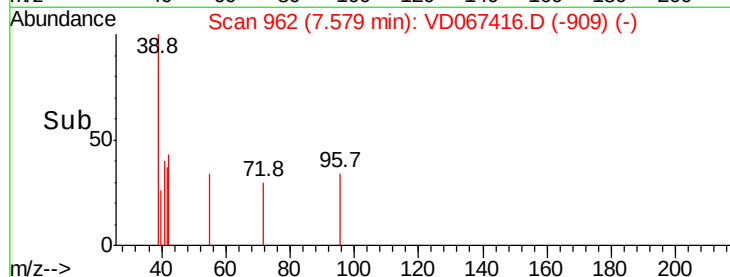
Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



Time-->



#31

Cyclohexane

Concen: 1.546 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067416.D

Acq: 27 Oct 2020 17:19

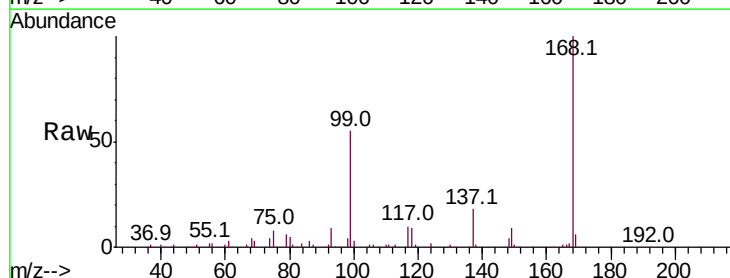
Tgt Ion: 56 Resp: 5256

Ion Ratio Lower Upper

56 100

69 165.2 29.8 44.6#

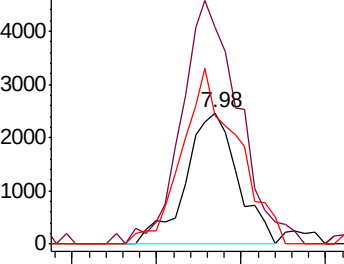
84 97.5 76.6 114.8



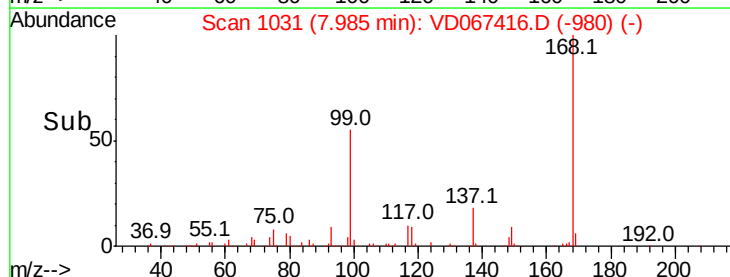
Abundance Ion 56.00 (55.70 to 56.70): VDC

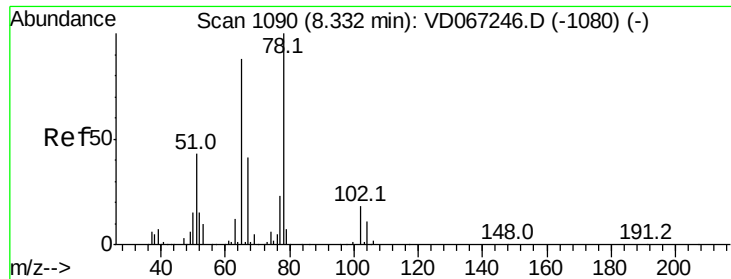
Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC



Time-->

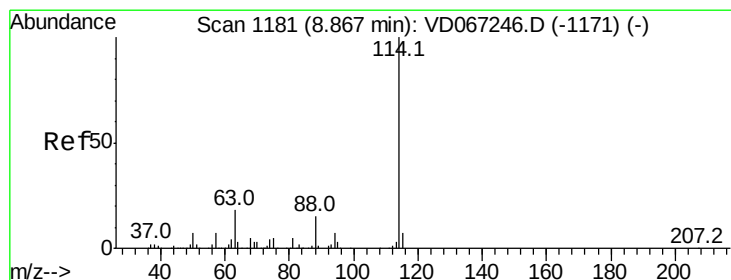
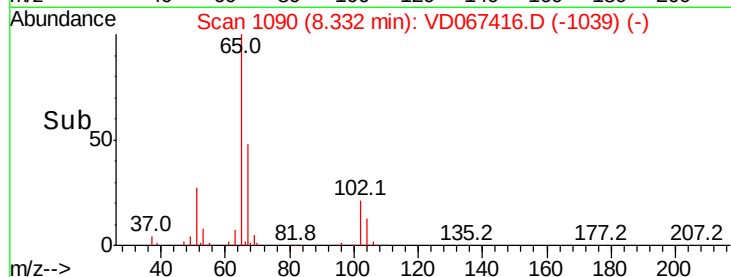
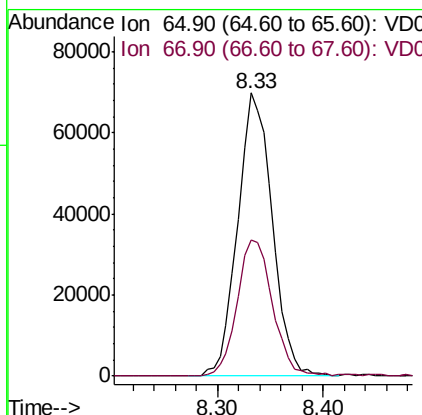
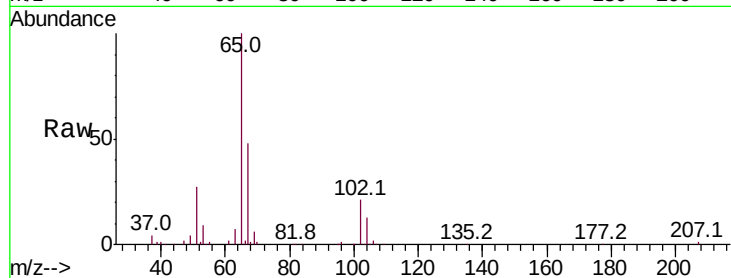




#33
 1,2-Dichloroethane-d4
 Concen: 53.719 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD067416.D
 Acq: 27 Oct 2020 17:19

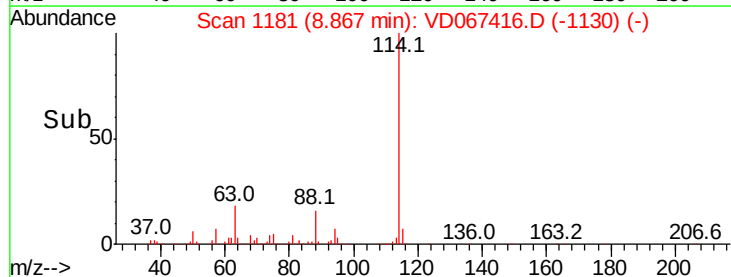
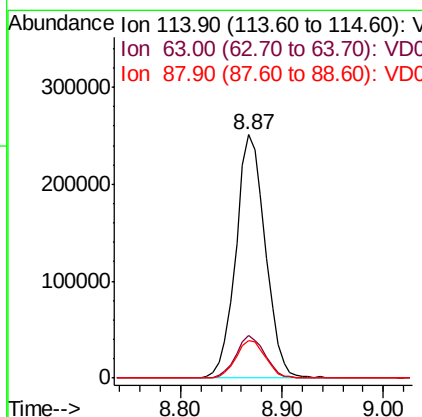
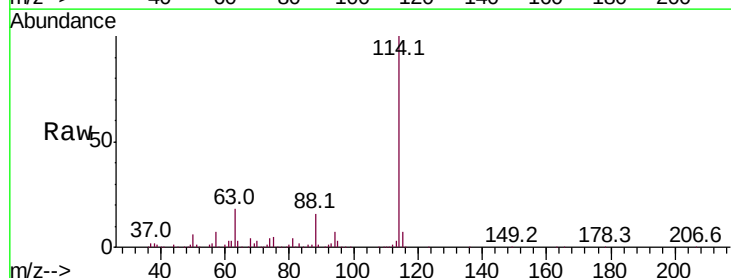
Instrument :
 MSVOA_D
 ClientSampleId :
 26414-26215

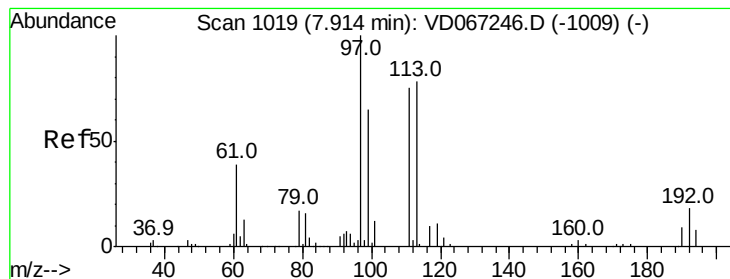
Tot Ion: 65 Resp: 158571
 Ion Ratio Lower Upper
 65 100
 67 49.4 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD067416.D
 Acq: 27 Oct 2020 17:19

Tgt Ion: 114 Resp: 507207
 Ion Ratio Lower Upper
 114 100
 63 17.7 0.0 35.0
 88 15.6 0.0 30.6





#35

Dibromofluoromethane

Concen: 47.841 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD067416.D

Acq: 27 Oct 2020 17:19

Instrument :

MSVOA_D

ClientSampleId :

26414-26215

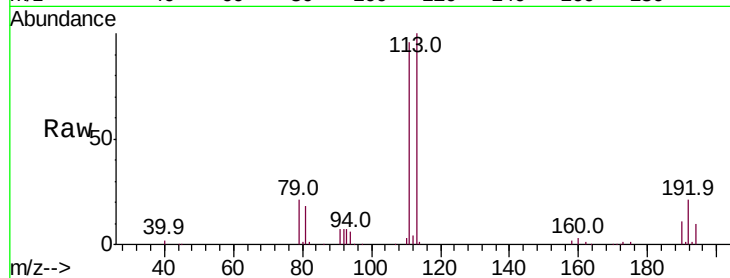
Tot Ion:113 Resp: 161486

Ion Ratio Lower Upper

113 100

111 101.1 81.6 122.4

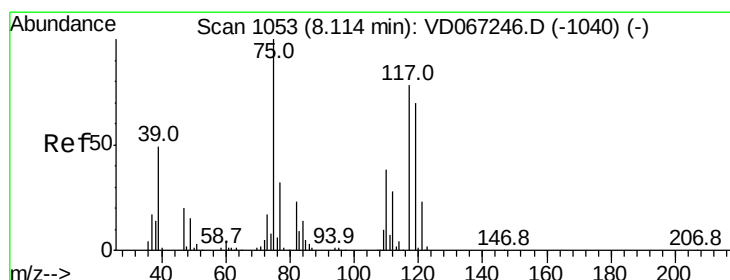
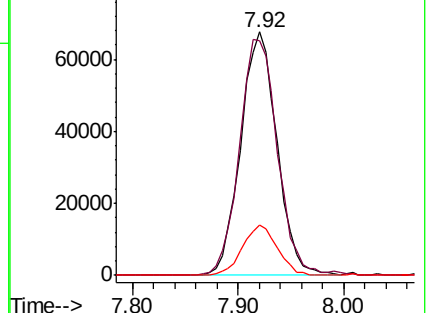
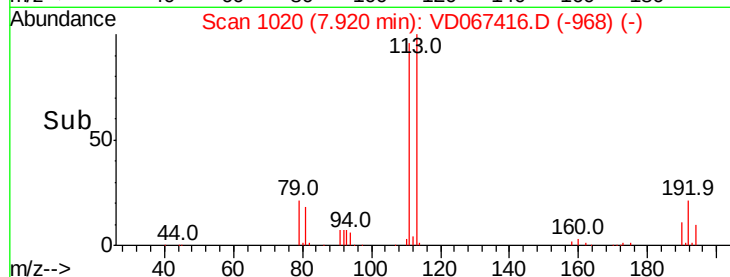
192 20.0 17.0 25.4



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: 4.826 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD067416.D

Acq: 27 Oct 2020 17:19

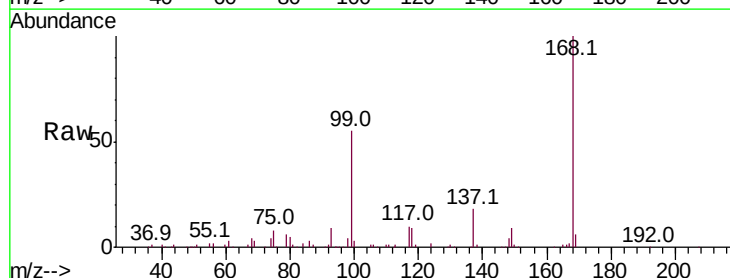
Tgt Ion: 75 Resp: 20747

Ion Ratio Lower Upper

75 100

110 11.9 19.6 58.7#

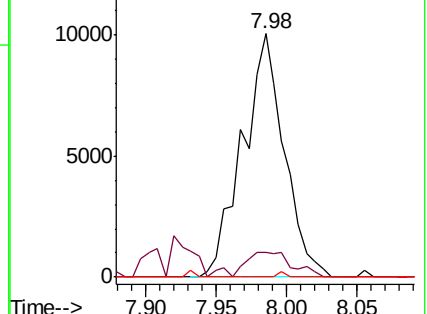
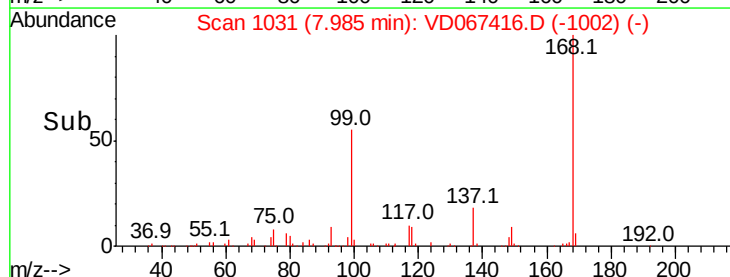
77 0.3 24.6 37.0#

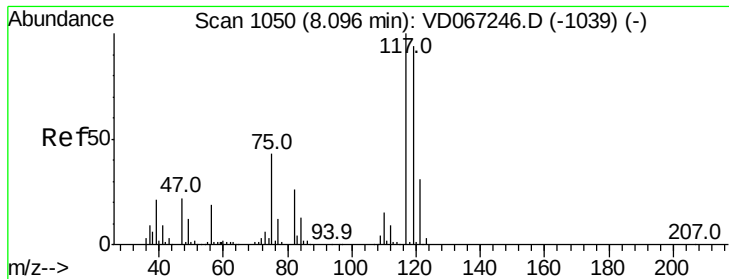


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.342 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD067416.D

Acq: 27 Oct 2020 17:19

Instrument :

MSVOA_D

ClientSampleId :

26414-26215

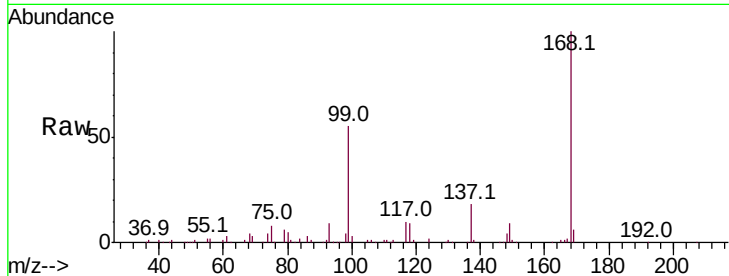
Tot Ion:117 Resp: 29350

Ion Ratio Lower Upper

117 100

119 5.5 75.0 112.4#

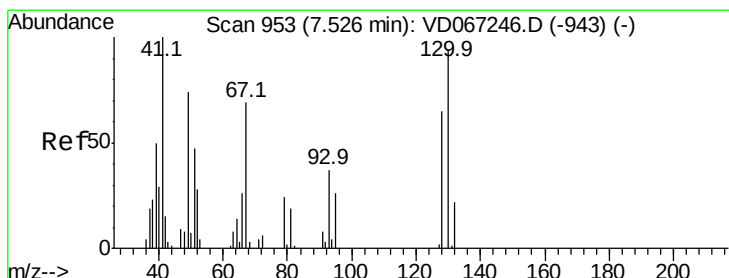
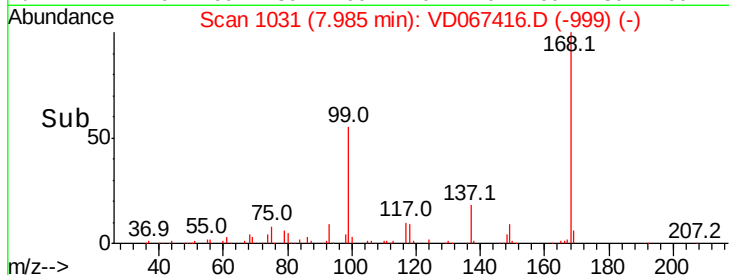
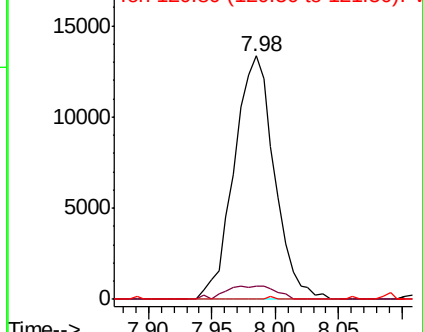
121 0.0 24.9 37.3#



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



#41

Methacrylonitrile

Concen: 1.381 ug/l

RT: 7.58 min Scan# 962

Delta R.T. 0.05 min

Lab File: VD067416.D

Acq: 27 Oct 2020 17:19

Tgt Ion: 41 Resp: 944

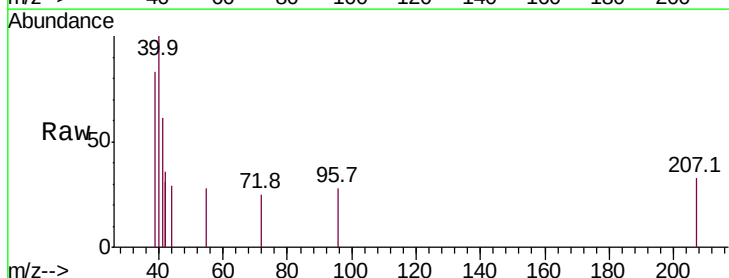
Ion Ratio Lower Upper

41 100

39 46.2 60.0 90.0#

67 0.0 88.9 133.3#

52 0.0 36.9 55.3#

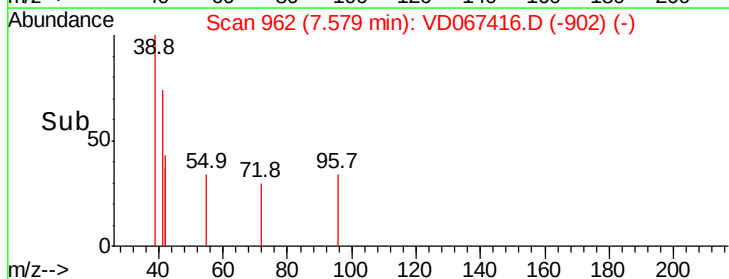
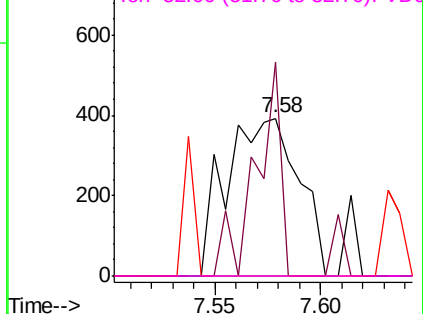


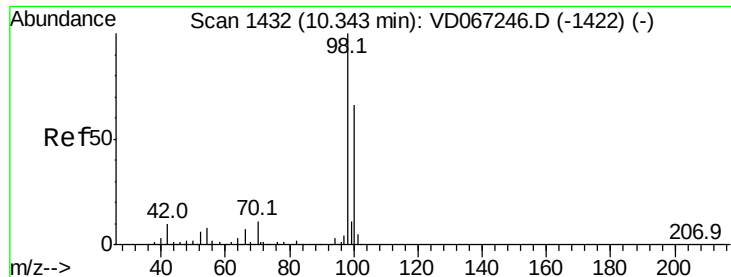
Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC





#50

Toluene-d8

Concen: 50.297 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067416.D

Acq: 27 Oct 2020 17:19

Instrument :

MSVOA_D

ClientSampleId :

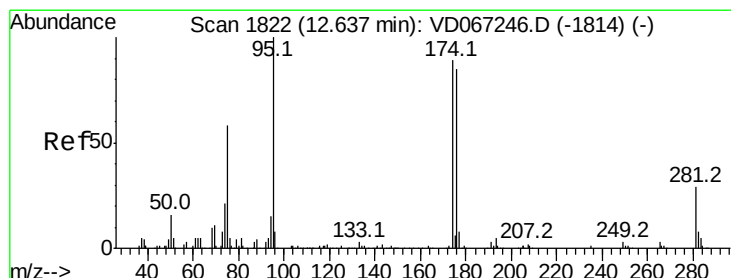
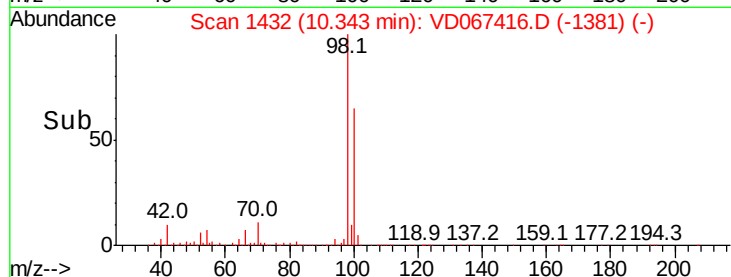
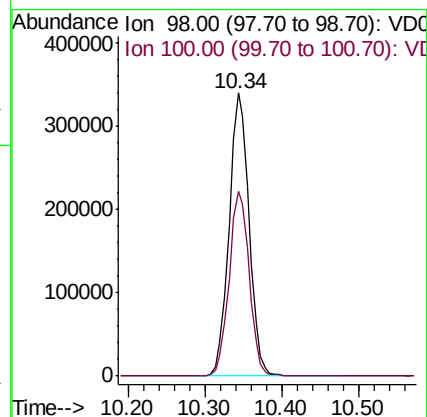
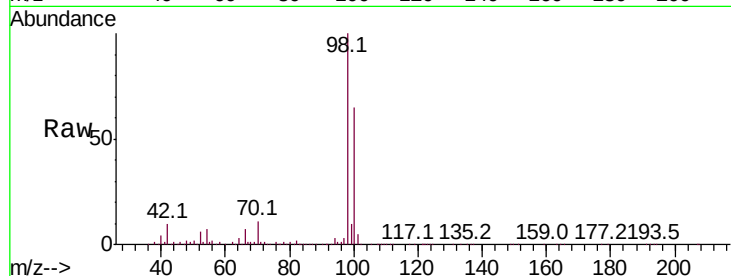
26414-26215

Tot Ion: 98 Resp: 614401

Ion Ratio Lower Upper

98 100

100 66.0 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 57.178 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067416.D

Acq: 27 Oct 2020 17:19

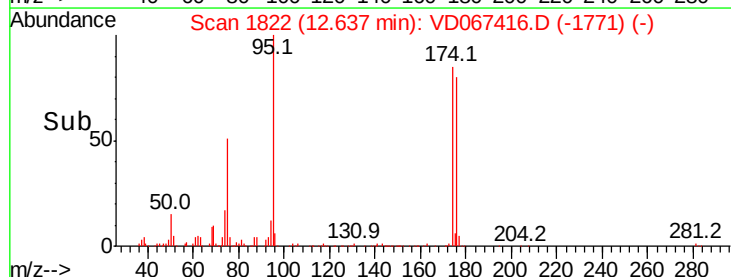
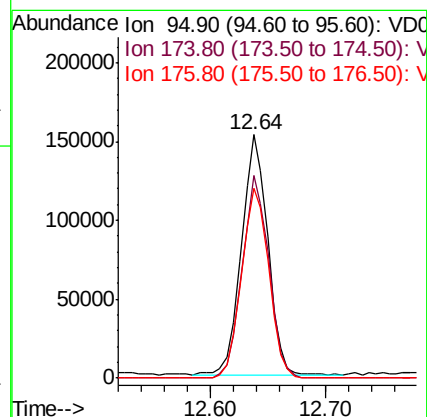
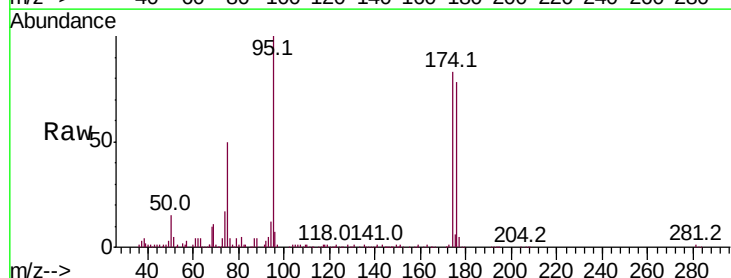
Tgt Ion: 95 Resp: 242870

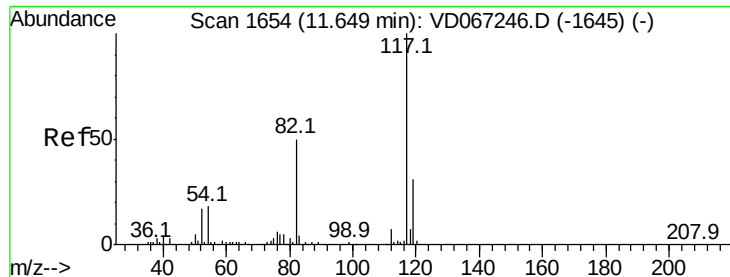
Ion Ratio Lower Upper

95 100

174 84.6 0.0 175.2

176 80.9 0.0 168.6

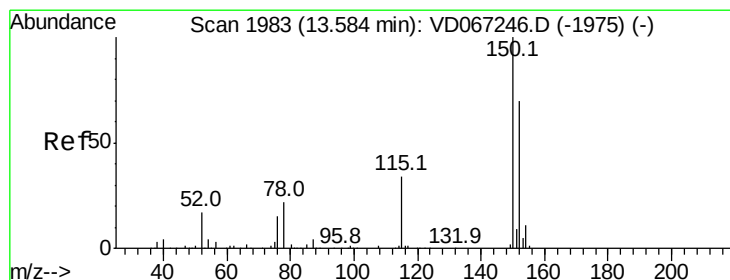
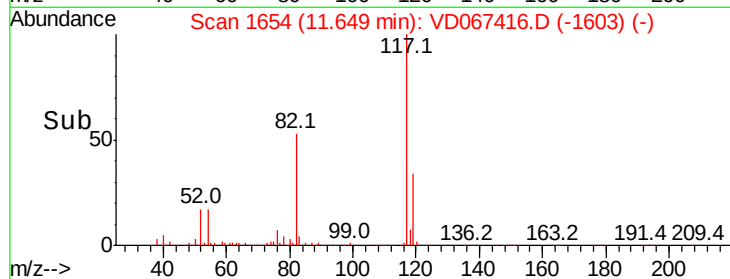
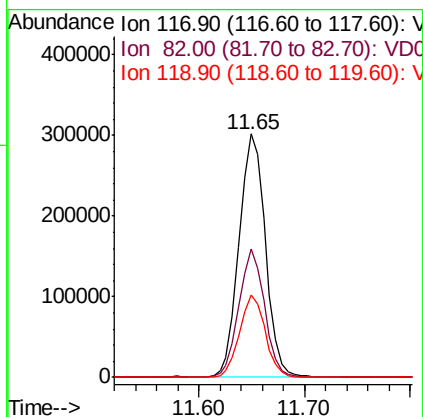
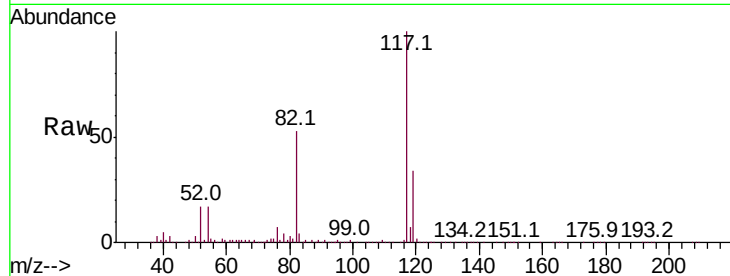




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067416.D
Acq: 27 Oct 2020 17:19

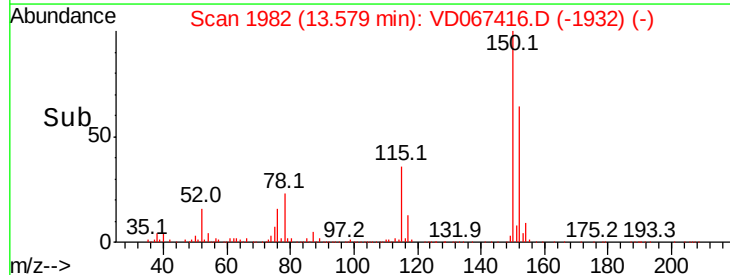
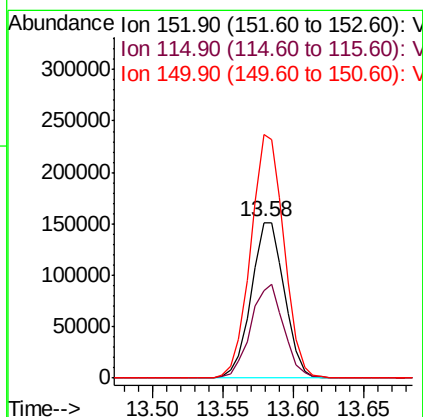
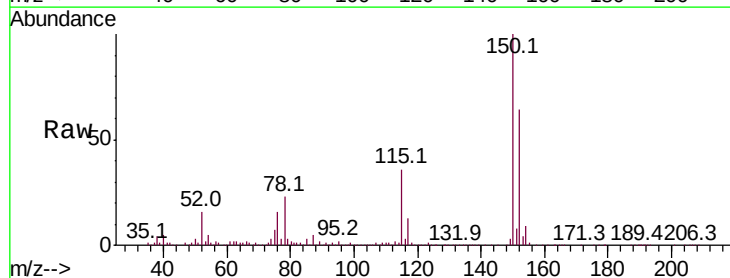
Instrument :
MSVOA_D
ClientSampleId :
26414-26215

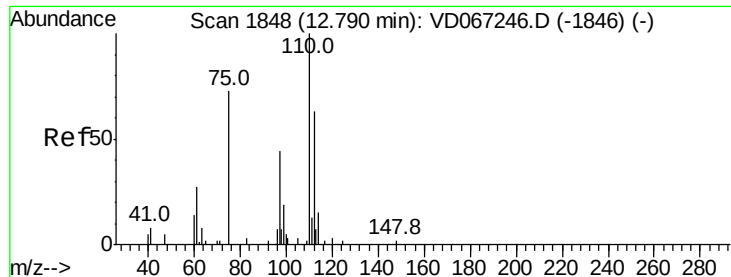
Tot Ion:117 Resp: 520393
Ion Ratio Lower Upper
117 100
82 52.4 39.9 59.9
119 33.6 24.9 37.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD067416.D
Acq: 27 Oct 2020 17:19

Tgt Ion:152 Resp: 251638
Ion Ratio Lower Upper
152 100
115 59.1 29.3 87.9
150 156.1 0.0 339.0





#76

1,2,3-Trichloropropane

Concen: 69.776 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067416.D

Acq: 27 Oct 2020 17:19

Instrument :

MSVOA_D

ClientSampleId :

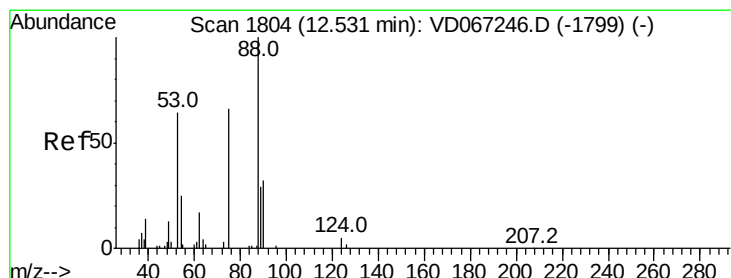
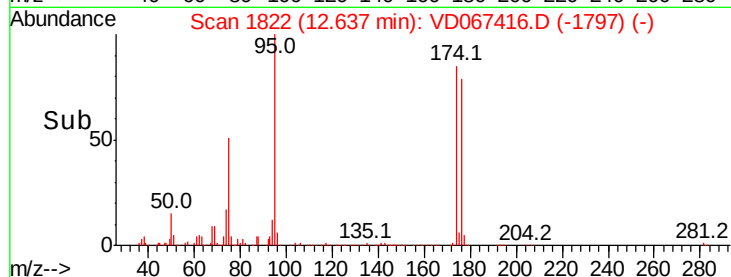
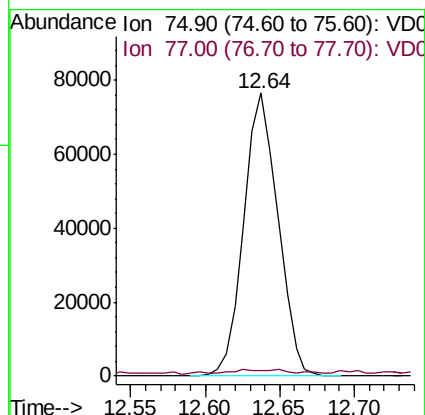
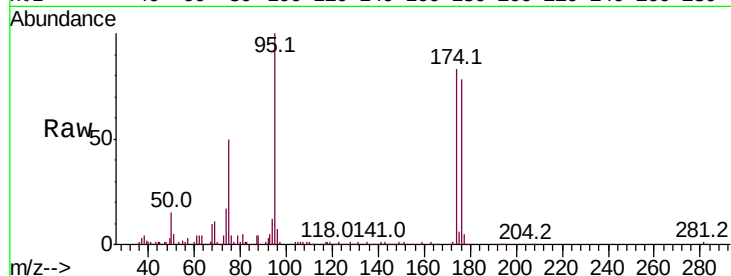
26414-26215

Tot Ion: 75 Resp: 121696

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 158.232 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067416.D

Acq: 27 Oct 2020 17:19

Tgt Ion: 75 Resp: 121696

Ion Ratio Lower Upper

75 100

53 1.5 78.5 117.7#

89 0.0 39.9 59.9#

