

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102720\
 Data File : VD067414.D
 Acq On : 27 Oct 2020 16:24
 Operator : VA/SY
 Sample : L4528-03
 Misc : 5.80G/5.00ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CHRT-24245

Quant Time: Oct 28 00:46:14 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	104987	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	174283	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	142515	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	30866	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	77559	73.74	ug/l	0.00
Spiked Amount			Recovery	=	147.48%	
35) Dibromofluoromethane	7.92	113	65822	56.75	ug/l	0.00
Spiked Amount			Recovery	=	113.50%	
50) Toluene-d8	10.34	98	198050	47.18	ug/l	0.00
Spiked Amount			Recovery	=	94.36%	
62) 4-Bromofluorobenzene	12.64	95	46526	31.88	ug/l	0.00
Spiked Amount			Recovery	=	63.76%	

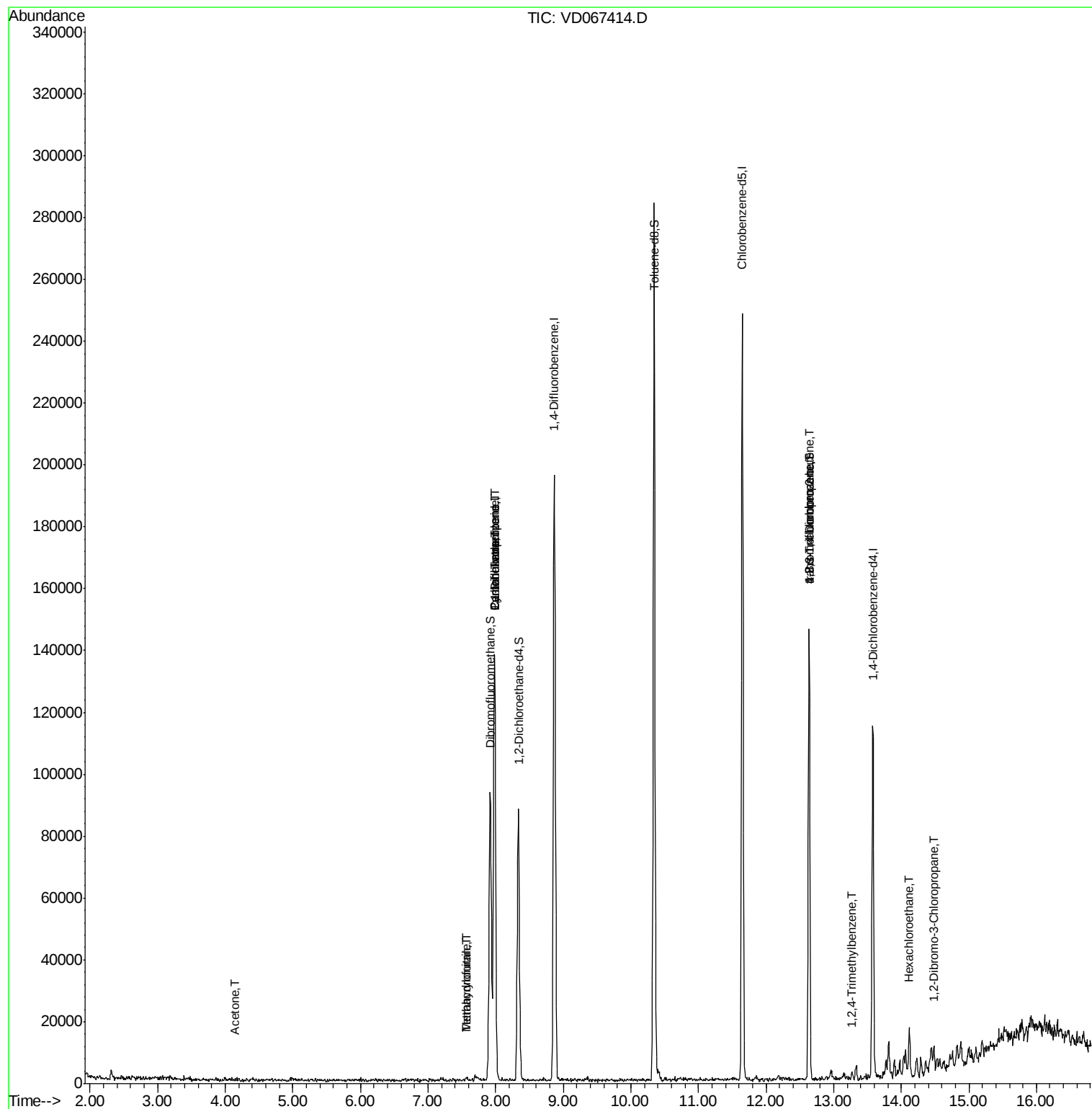
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.78	94	139	Below Cal		85
11) Tert butyl alcohol	5.23	59	153	Below Cal	#	81
16) Acetone	4.16	43	515	3.496	ug/l #	42
20) Methylene Chloride	4.96	84	367	Below Cal	#	65
29) Tetrahydrofuran	7.58	42	817	8.753	ug/l #	45
31) Cyclohexane	7.98	56	2192	1.809	ug/l #	47
36) 1,1-Dichloropropene	7.98	75	7275	4.925	ug/l #	48
38) Carbon Tetrachloride	7.98	117	10927	5.788	ug/l #	17
41) Methacrylonitrile	7.57	41	650	2.768	ug/l #	20
76) 1,2,3-Trichloropropane	12.64	75	23134	108.138	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	23134	245.225	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.27	105	1707	1.015	ug/l	84
90) Hexachloroethane	14.12	117	896	2.757	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.49	75	63	1.155	ug/l #	1

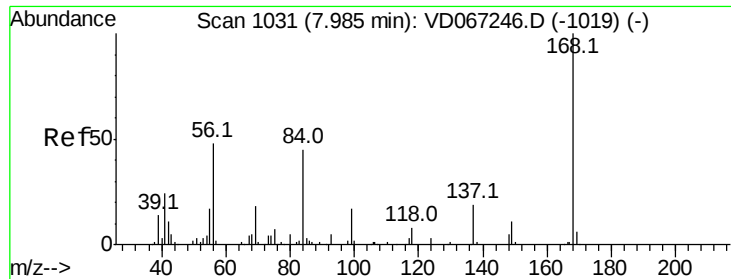
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Oct 19 19:13:29 2020
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: VD067414.D

Acq: 27 Oct 2020 16:24

Instrument :

MSVOA_D

ClientSampleID :

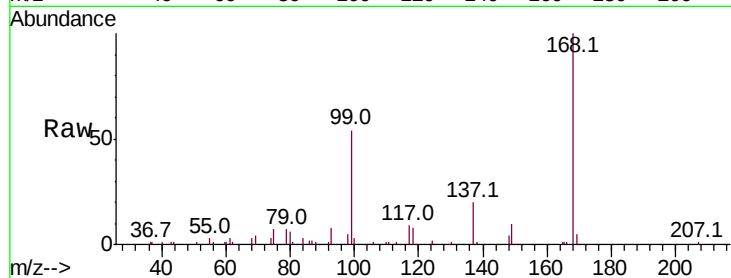
CHRT-24245

Tot Ion:168 Resp: 104987

Ion Ratio Lower Upper

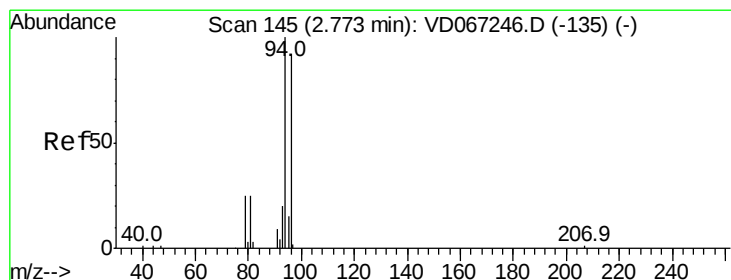
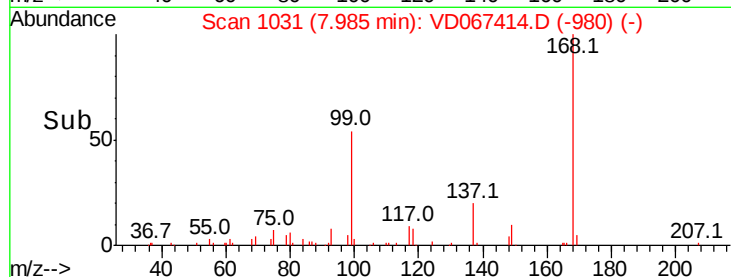
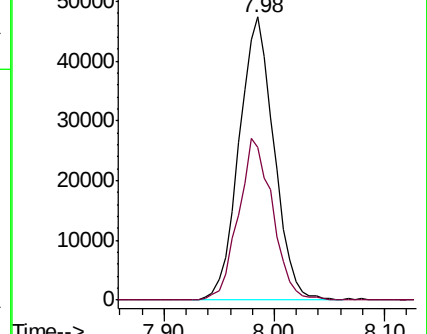
168 100

99 54.2 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD067414.D

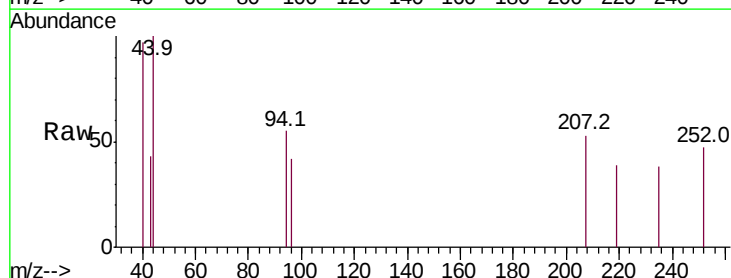
Acq: 27 Oct 2020 16:24

Tgt Ion: 94 Resp: 139

Ion Ratio Lower Upper

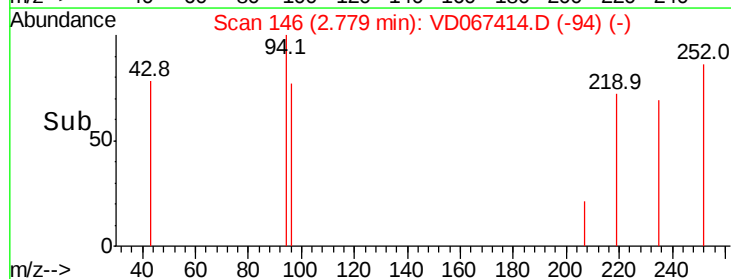
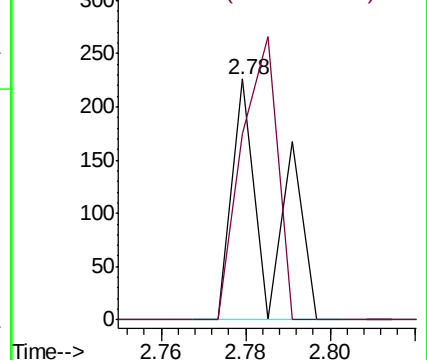
94 100

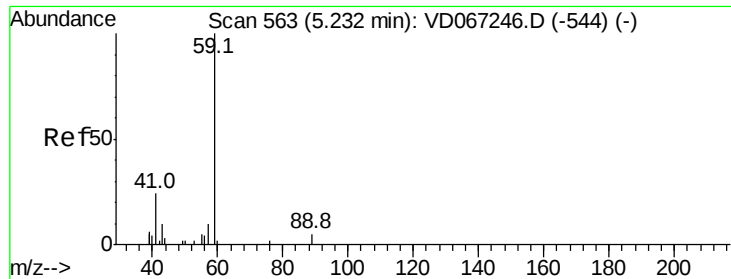
96 77.4 73.8 110.6



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



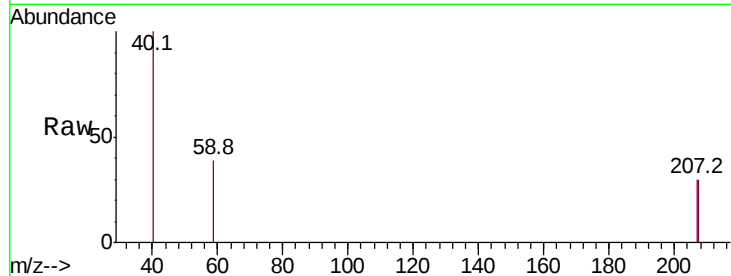


#11

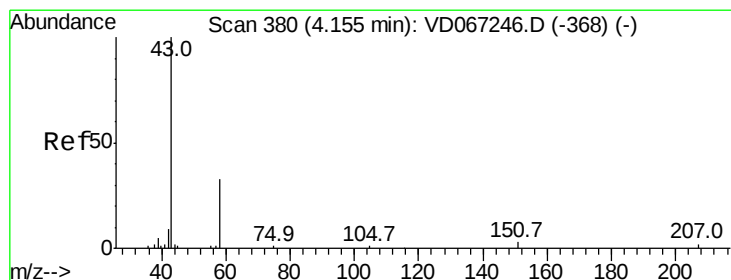
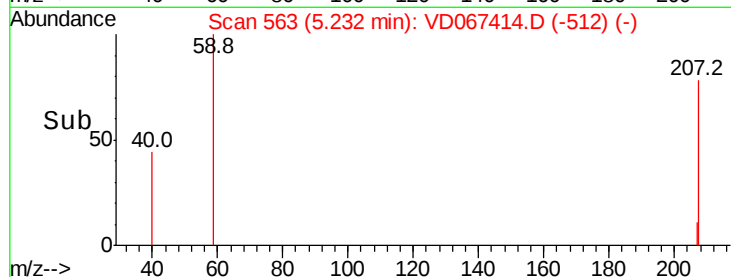
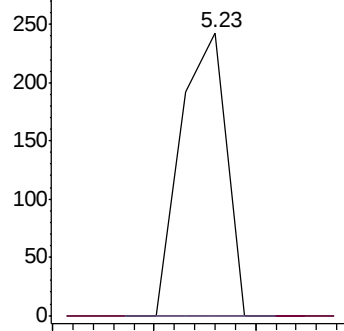
Tert butyl alcohol
 Concen: Below Cal
 RT: 5.23 min Scan# 563
 Delta R.T. 0.00 min
 Lab File: VD067414.D
 Acq: 27 Oct 2020 16:24

Instrument :
 MSVOA_D
 ClientSampleID :
 CHRT-24245

Tot Ion: 59 Resp: 153
 Ion Ratio Lower Upper
 59 100
 57 0.0 5.1 7.7#



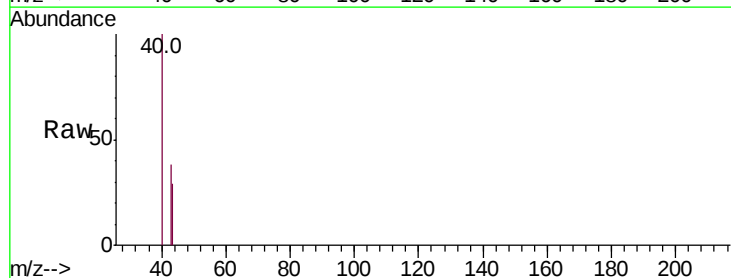
Abundance Ion 59.00 (58.70 to 59.70): VDC
 Ion 57.00 (56.70 to 57.70): VDC



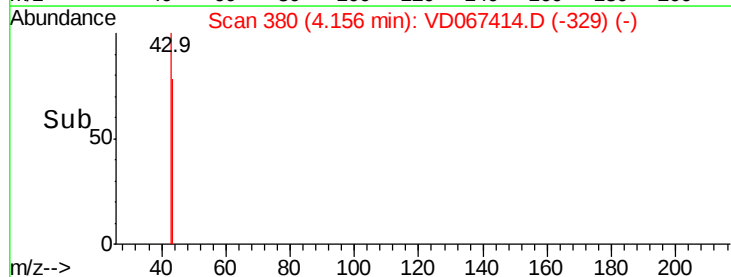
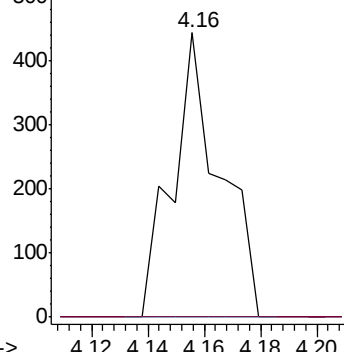
#16

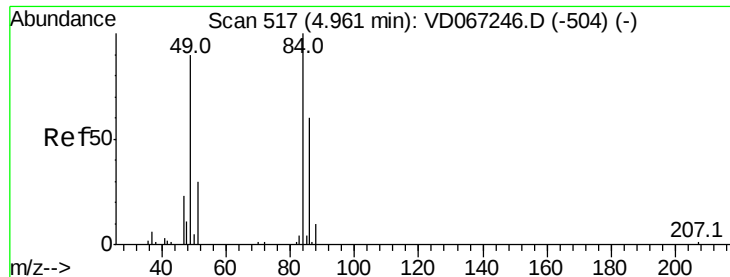
Acetone
 Concen: 3.496 ug/l
 RT: 4.16 min Scan# 380
 Delta R.T. 0.00 min
 Lab File: VD067414.D
 Acq: 27 Oct 2020 16:24

Tgt Ion: 43 Resp: 515
 Ion Ratio Lower Upper
 43 100
 58 0.0 26.1 39.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC
 Ion 58.00 (57.70 to 58.70): VDC





#20

Methvlene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD067414.D

Acq: 27 Oct 2020 16:24

Instrument :

MSVOA_D

ClientSampleId :

CHRT-24245

Tot Ion: 84 Resp: 367

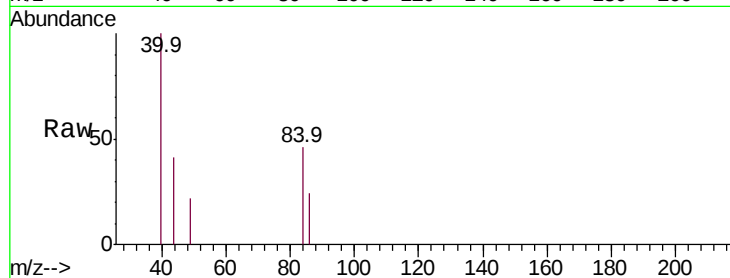
Ion Ratio Lower Upper

84 100

49 48.5 72.2 108.2#

51 0.0 23.8 35.8#

86 51.9 48.2 72.4

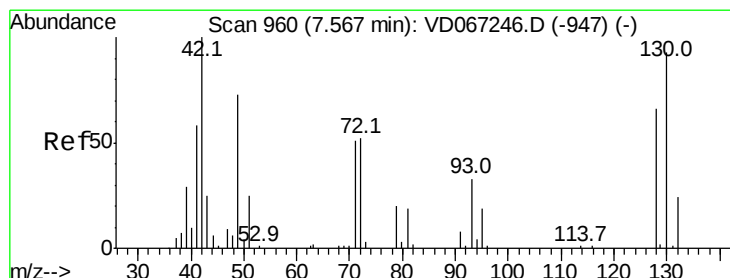
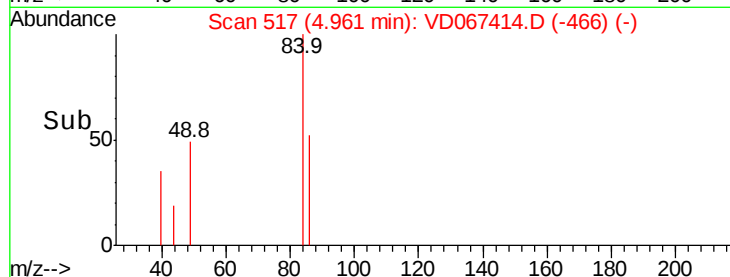
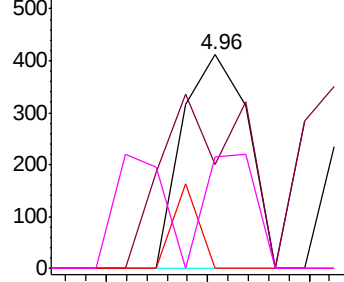


Abundance Ion 83.90 (83.60 to 84.60): VDC

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



#29

Tetrahydrofuran

Concen: 8.753 ug/l

RT: 7.58 min Scan# 962

Delta R.T. 0.01 min

Lab File: VD067414.D

Acq: 27 Oct 2020 16:24

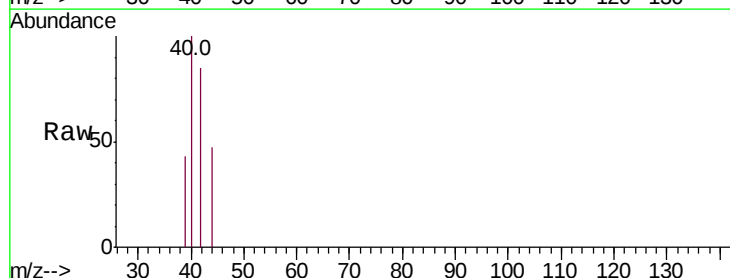
Tgt Ion: 42 Resp: 817

Ion Ratio Lower Upper

42 100

72 25.9 43.2 64.8#

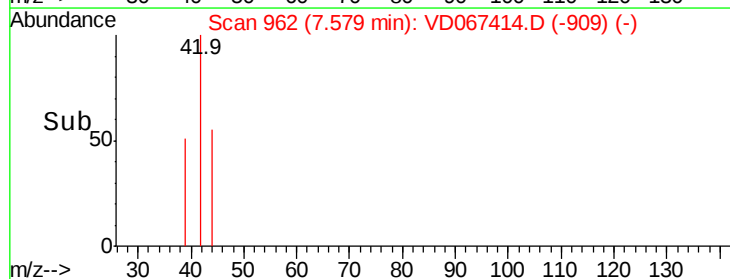
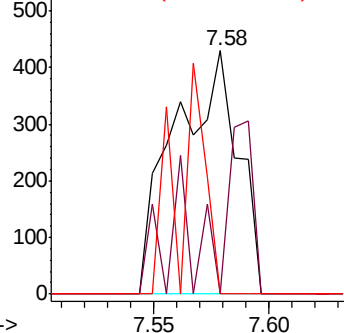
71 0.0 39.4 59.0#

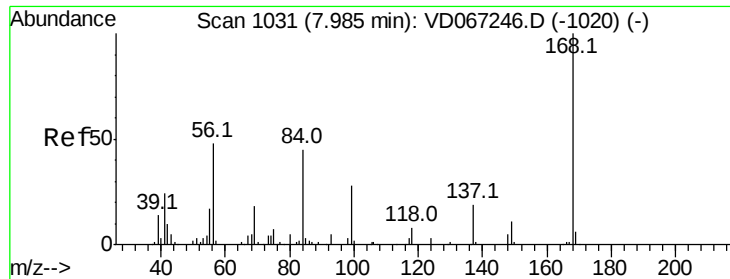


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

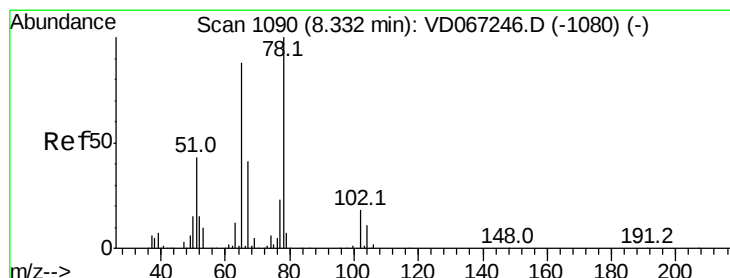
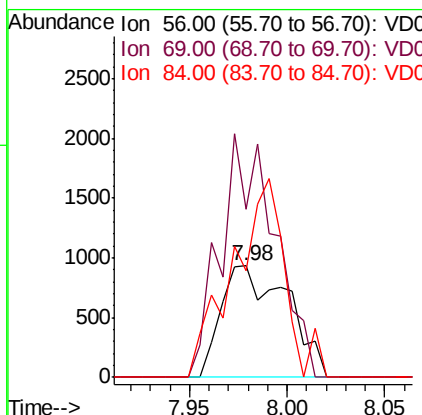
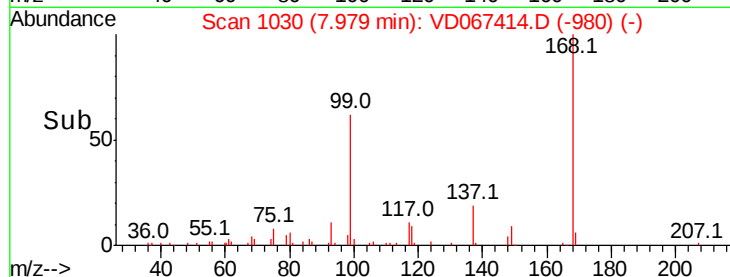
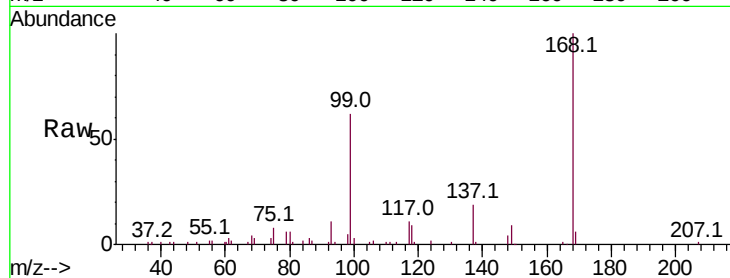




#31
Cyclohexane
Concen: 1.809 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD067414.D
Acq: 27 Oct 2020 16:24

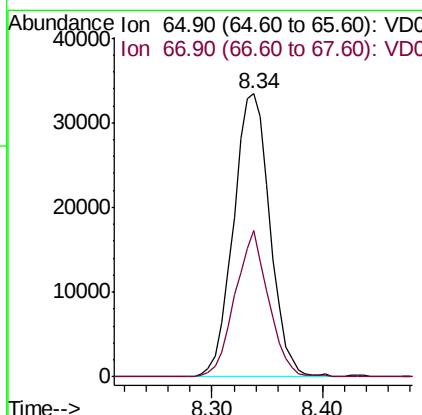
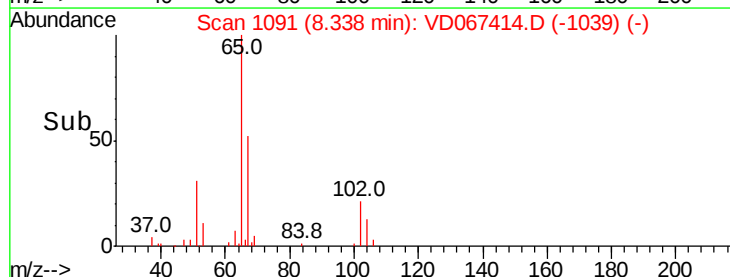
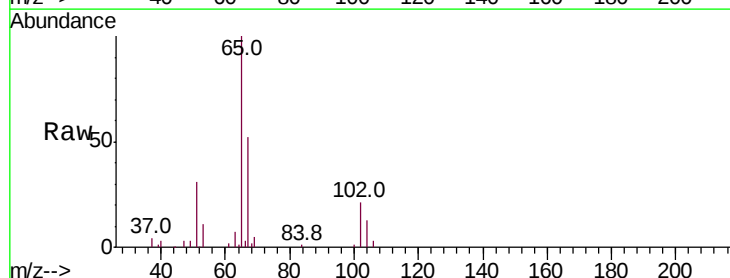
Instrument :
MSVOA_D
ClientSampleID :
CHRT-24245

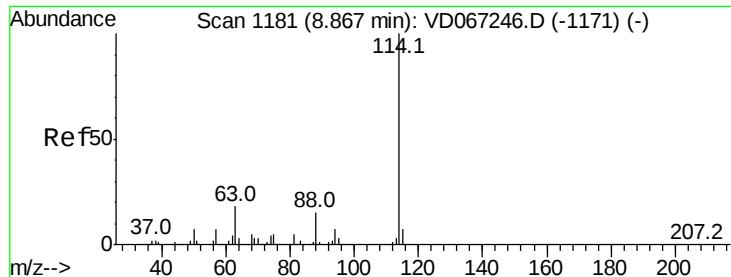
Tot Ion: 56 Resp: 2192
Ion Ratio Lower Upper
56 100
69 150.2 29.8 44.6#
84 96.0 76.6 114.8



#33
1,2-Dichloroethane-d4
Concen: 73.738 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD067414.D
Acq: 27 Oct 2020 16:24

Tgt Ion: 65 Resp: 77559
Ion Ratio Lower Upper
65 100
67 47.6 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: VD067414.D

Acq: 27 Oct 2020 16:24

Instrument :

MSVOA_D

ClientSampleId :

CHRT-24245

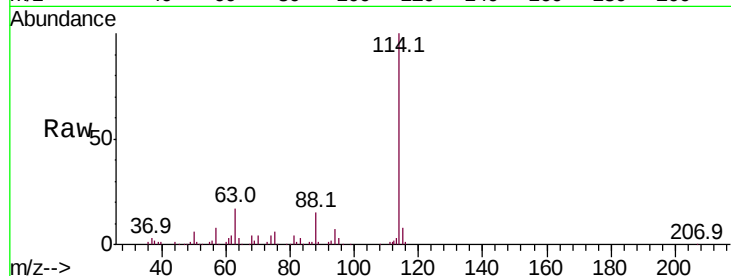
Tot Ion:114 Resp: 174283

Ion Ratio Lower Upper

114 100

63 17.2 0.0 35.0

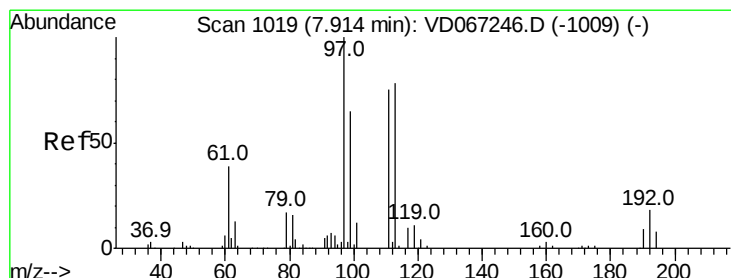
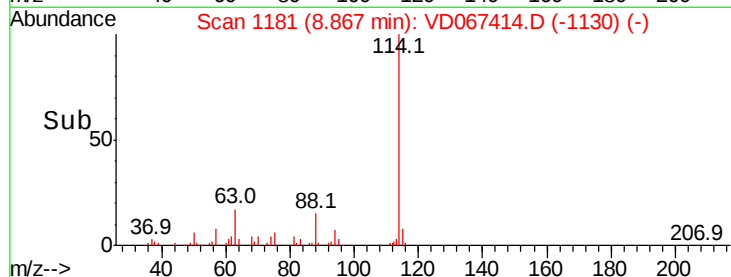
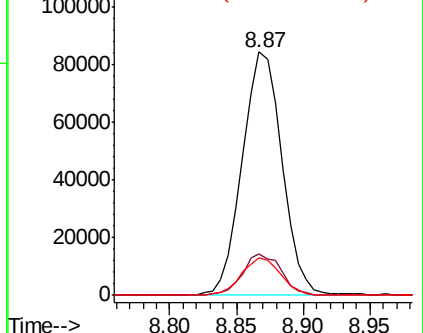
88 15.4 0.0 30.6



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: 56.750 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD067414.D

Acq: 27 Oct 2020 16:24

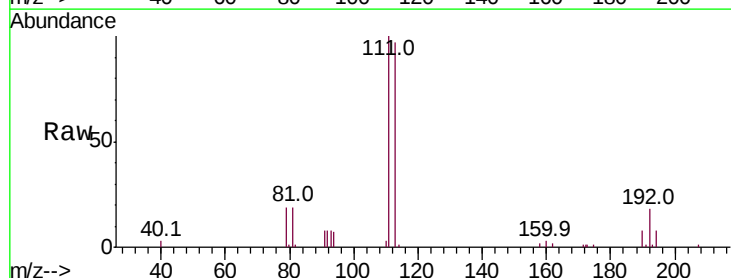
Tgt Ion:113 Resp: 65822

Ion Ratio Lower Upper

113 100

111 104.9 81.6 122.4

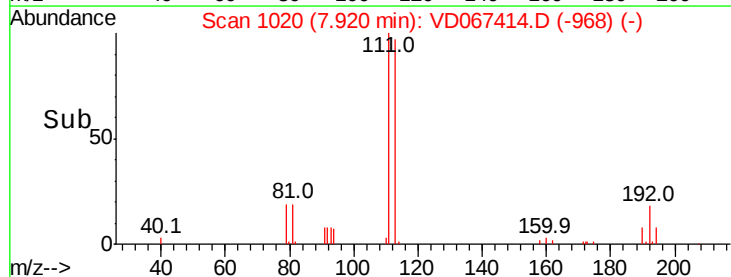
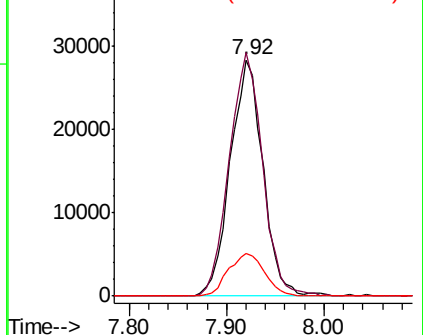
192 20.0 17.0 25.4

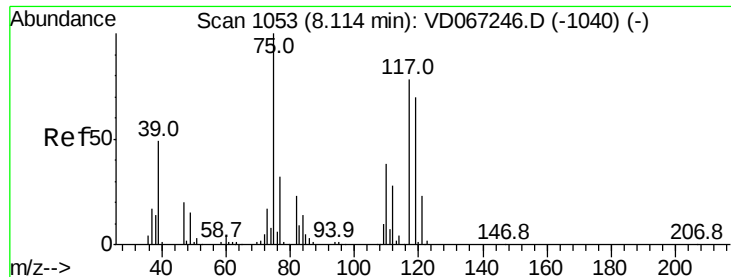


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.925 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067414.D

Acq: 27 Oct 2020 16:24

Instrument :

MSVOA_D

ClientSampleId :

CHRT-24245

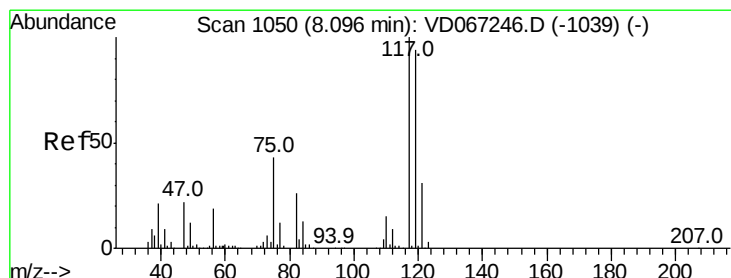
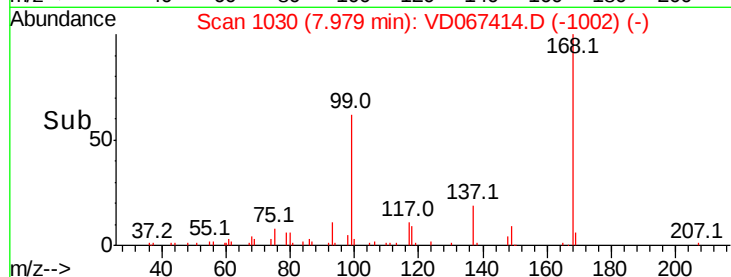
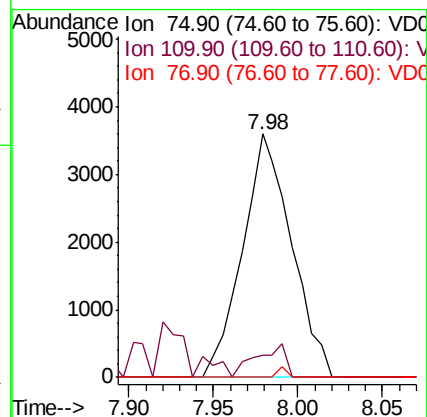
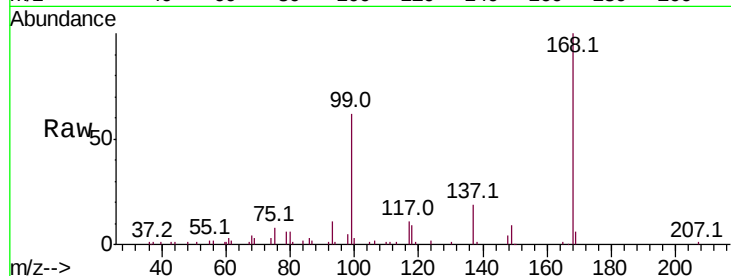
Tot Ion: 75 Resp: 7275

Ion Ratio Lower Upper

75 100

110 8.2 19.6 58.7#

77 0.7 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.788 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067414.D

Acq: 27 Oct 2020 16:24

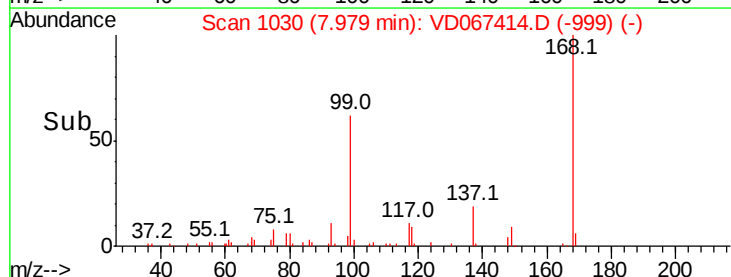
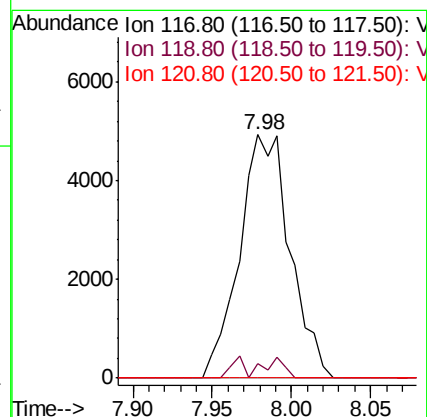
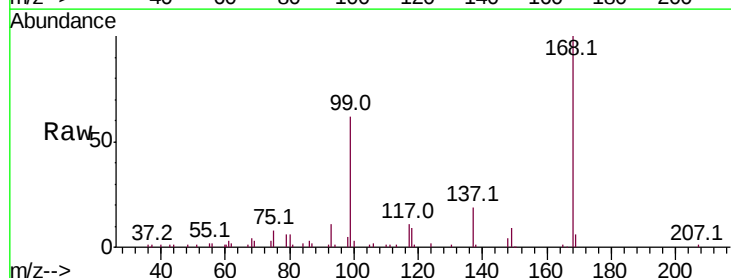
Tgt Ion: 117 Resp: 10927

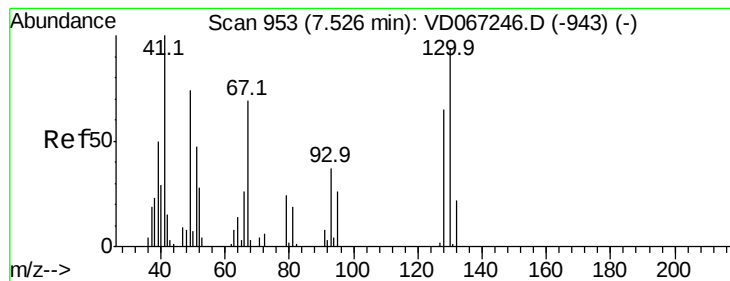
Ion Ratio Lower Upper

117 100

119 5.8 75.0 112.4#

121 0.0 24.9 37.3#





#41

Methacrylonitrile

Concen: 2.768 ug/l

RT: 7.57 min Scan# 961

Delta R.T. 0.05 min

Lab File: VD067414.D

Acq: 27 Oct 2020 16:24

Instrument :

MSVOA_D

ClientSampleId :

CHRT-24245

Tot Ion: 41 Resp: 650

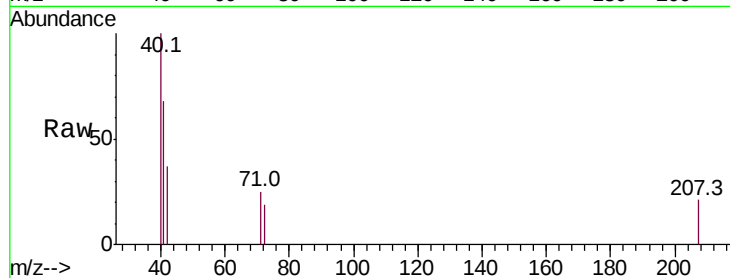
Ion Ratio Lower Upper

41 100

39 33.2 60.0 90.0#

67 0.0 88.9 133.3#

52 0.0 36.9 55.3#

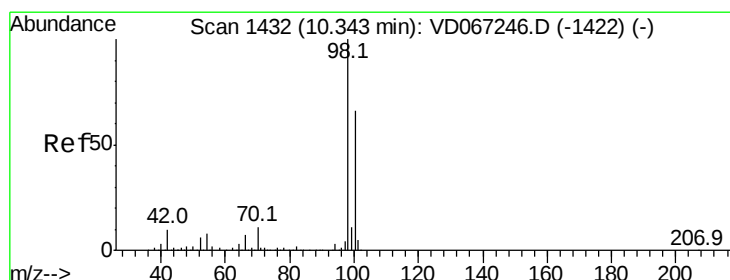
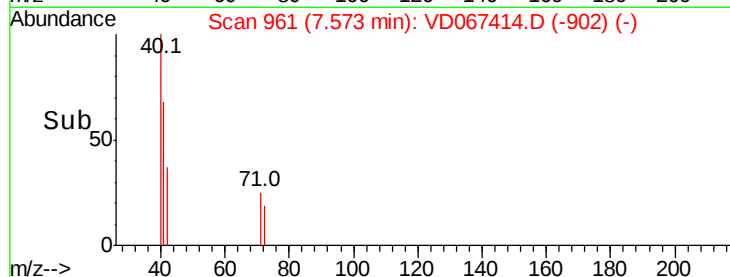
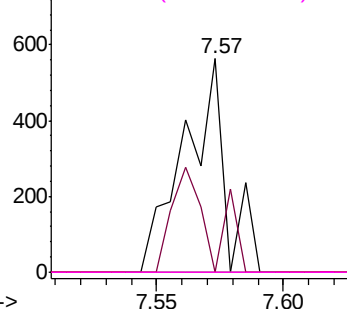


Abundance Ion 41.00 (40.70 to 41.70): VDC

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: 47.184 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067414.D

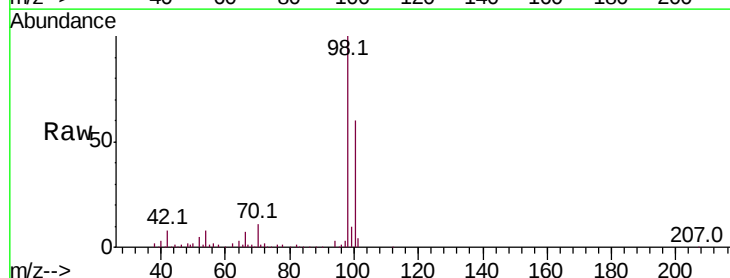
Acq: 27 Oct 2020 16:24

Tgt Ion: 98 Resp: 198050

Ion Ratio Lower Upper

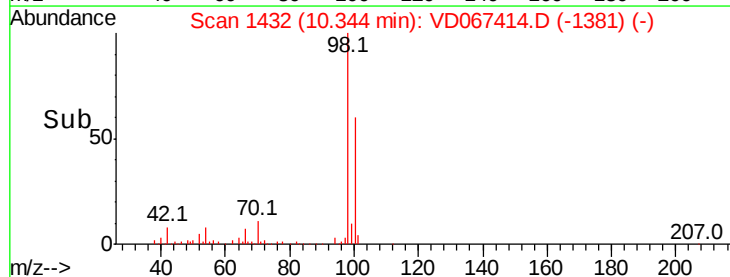
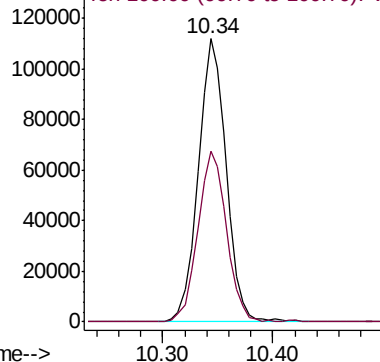
98 100

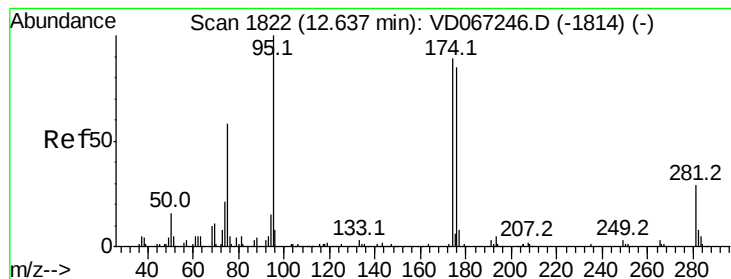
100 62.0 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC





#62

4-Bromofluorobenzene

Concen: 31.877 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067414.D

Acq: 27 Oct 2020 16:24

Instrument :

MSVOA_D

ClientSampleId :

CHRT-24245

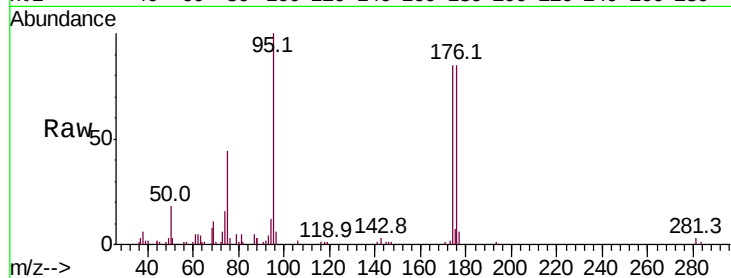
Tot Ion: 95 Resp: 46526

Ion Ratio Lower Upper

95 100

174 91.7 0.0 175.2

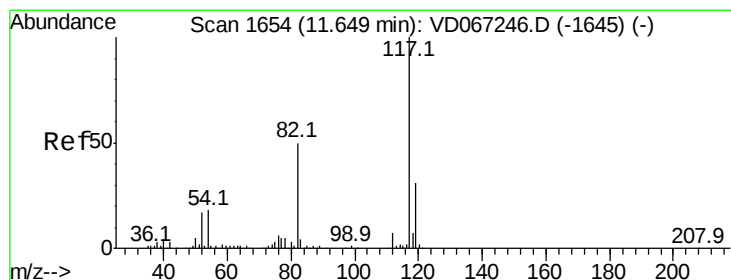
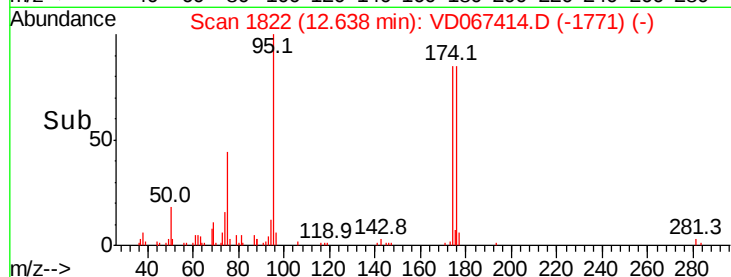
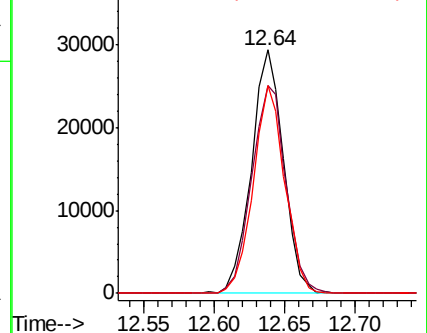
176 84.5 0.0 168.6



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: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD067414.D

Acq: 27 Oct 2020 16:24

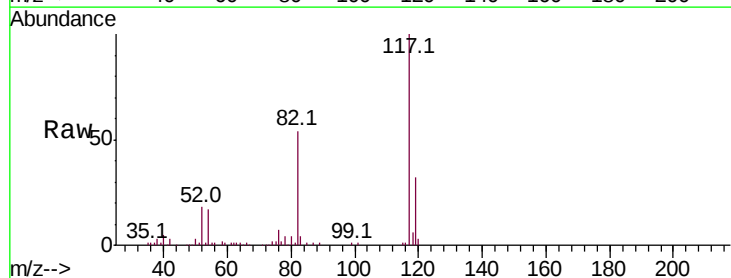
Tgt Ion: 117 Resp: 142515

Ion Ratio Lower Upper

117 100

82 53.7 39.9 59.9

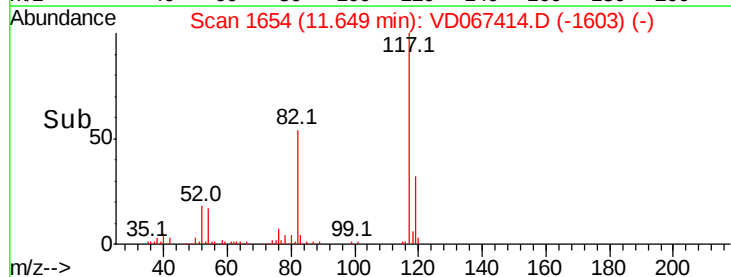
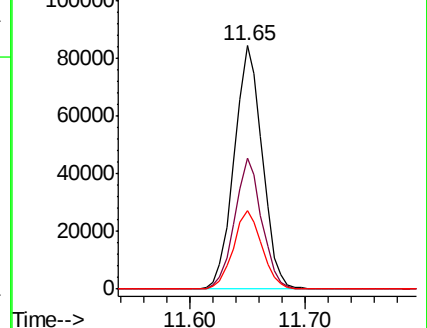
119 32.0 24.9 37.3

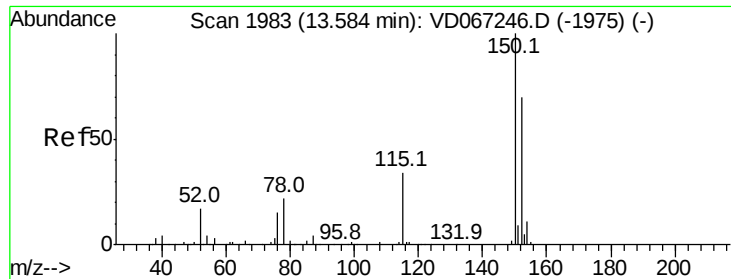


Abundance Ion 116.90 (116.60 to 117.60): V

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# 1983

Delta R.T. 0.00 min

Lab File: VD067414.D

Acq: 27 Oct 2020 16:24

Instrument :

MSVOA_D

ClientSampleId :

CHRT-24245

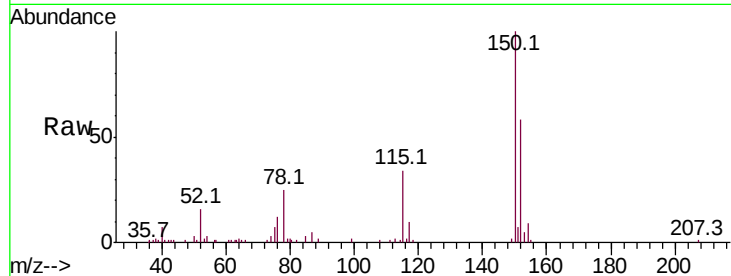
Tot Ion:152 Resp: 30866

Ion Ratio Lower Upper

152 100

115 61.3 29.3 87.9

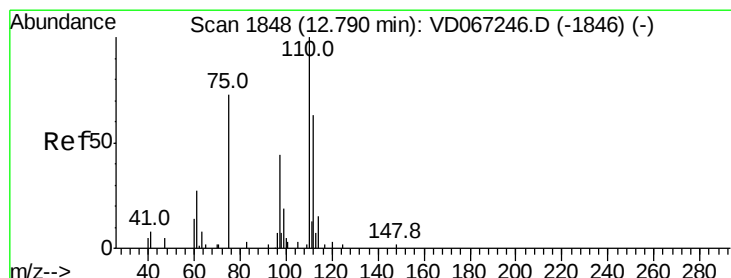
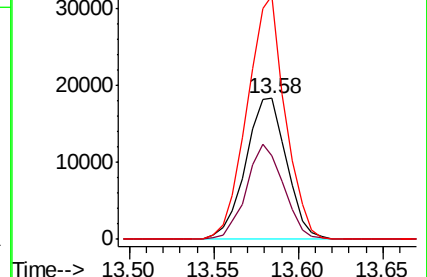
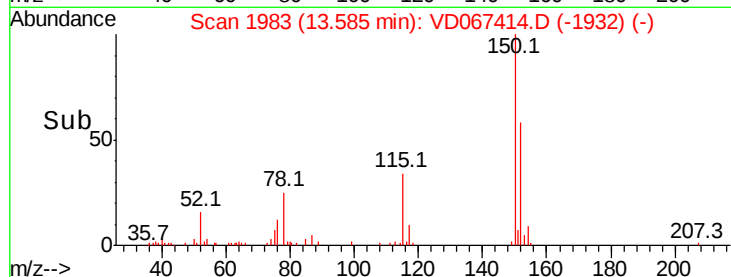
150 160.3 0.0 339.0



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: 108.138 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067414.D

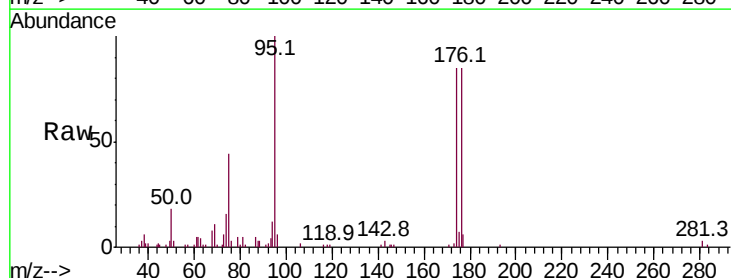
Acq: 27 Oct 2020 16:24

Tgt Ion: 75 Resp: 23134

Ion Ratio Lower Upper

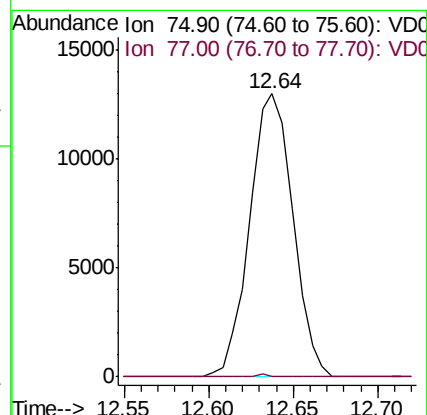
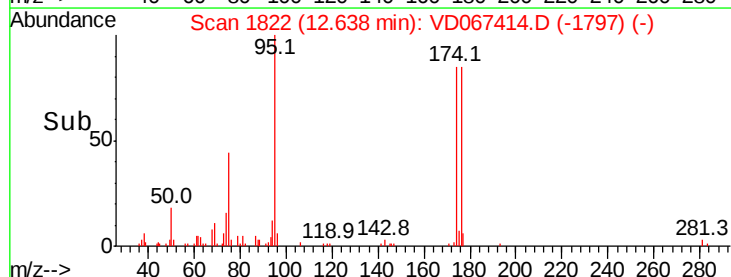
75 100

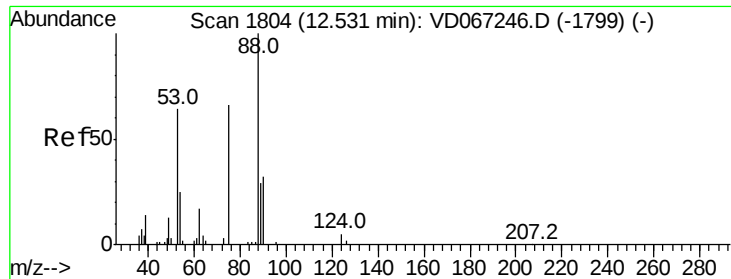
77 0.3 0.0 0.0#



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: 245.225 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067414.D

Acq: 27 Oct 2020 16:24

Instrument :

MSVOA_D

ClientSampleId :

CHRT-24245

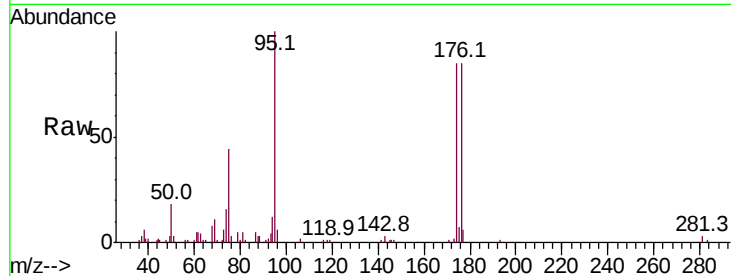
Tot Ion: 75 Resp: 23134

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

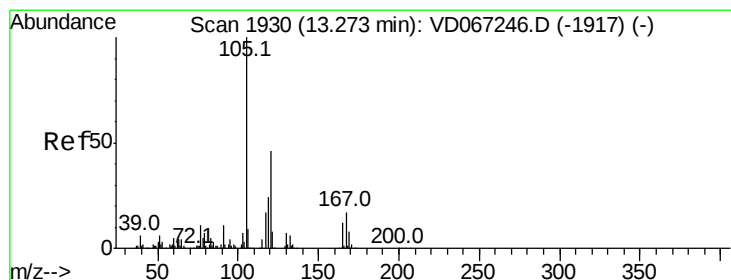
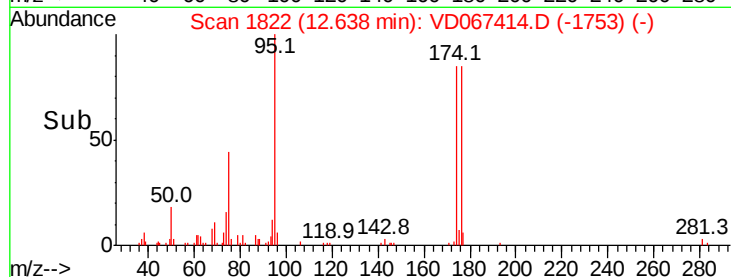
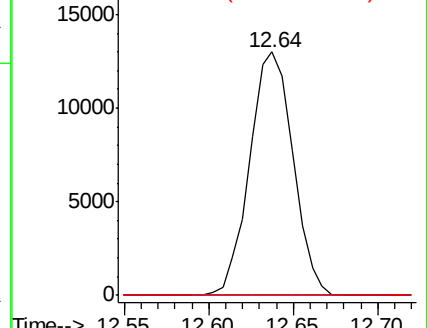
89 0.0 39.9 59.9#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#84

1,2,4-Trimethylbenzene

Concen: 1.015 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VD067414.D

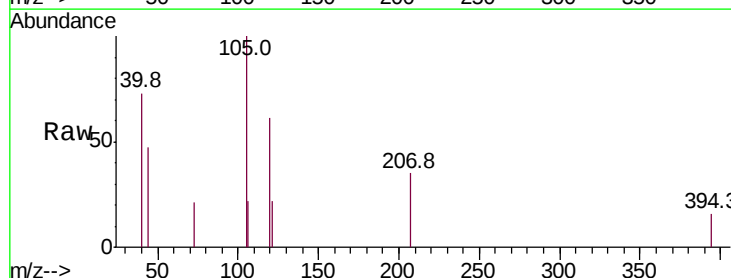
Acq: 27 Oct 2020 16:24

Tgt Ion: 105 Resp: 1707

Ion Ratio Lower Upper

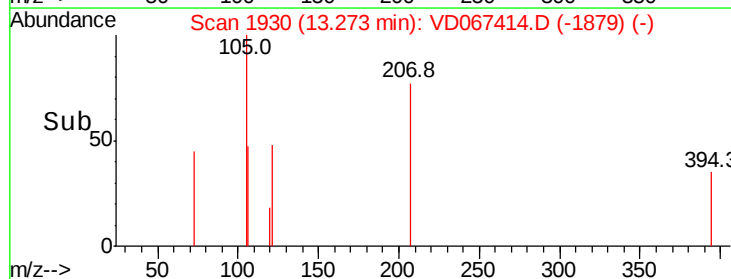
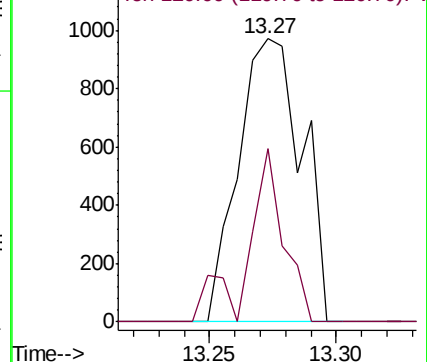
105 100

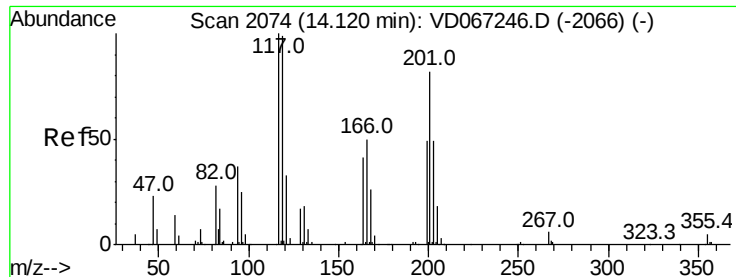
120 34.6 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 2.757 ug/l

RT: 14.12 min Scan# 2074

Delta R.T. 0.00 min

Lab File: VD067414.D

Acq: 27 Oct 2020 16:24

Instrument :

MSVOA_D

ClientSampleId :

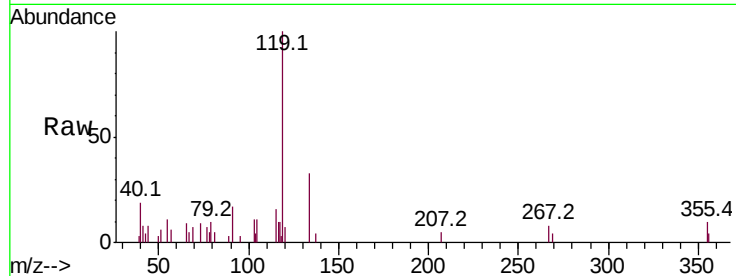
CHRT-24245

Tot Ion:117 Resp: 896

Ion Ratio Lower Upper

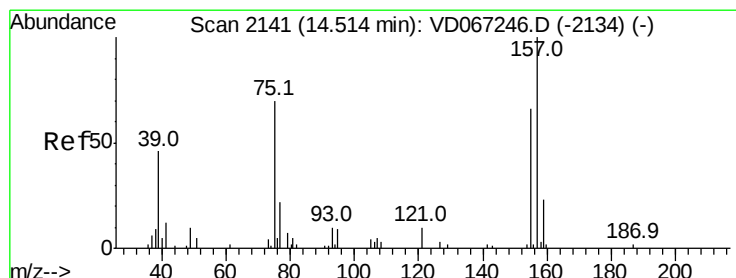
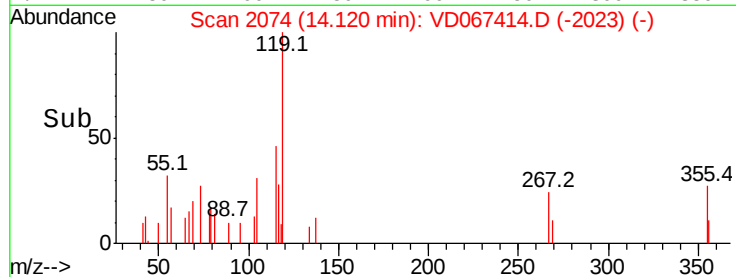
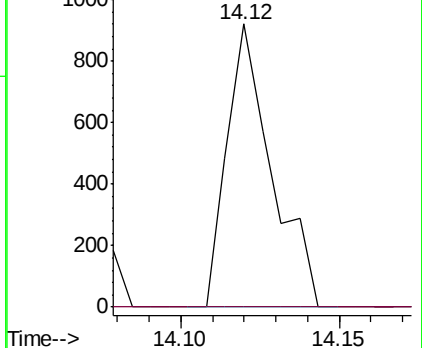
117 100

201 0.0 40.8 122.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.155 ug/l

RT: 14.49 min Scan# 2137

Delta R.T. -0.02 min

Lab File: VD067414.D

Acq: 27 Oct 2020 16:24

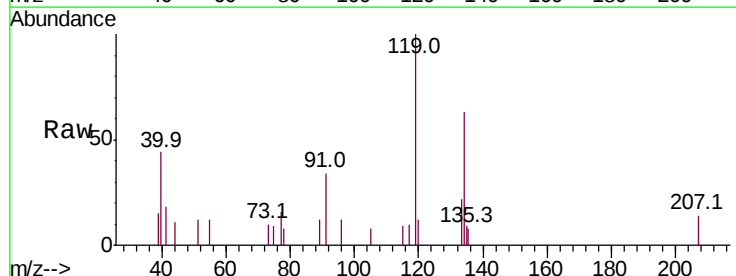
Tgt Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

157 0.0 62.5 187.4#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

