

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071919\
 Data File : VD063150.D
 Acq On : 19 Jul 2019 13:34
 Operator : VA/AP
 Sample : K3618-05
 Misc : 6.18g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 HD-01-071719

Quant Time: Jul 20 05:00:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	994707	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	1414212	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	935937	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	346552	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	419695	33.87	ug/l	0.01
Spiked Amount			Recovery	=	67.74%	
35) Dibromofluoromethane	6.93	113	460962	32.73	ug/l	0.01
Spiked Amount			Recovery	=	65.46%	
50) Toluene-d8	10.41	98	916064	30.28	ug/l	0.01
Spiked Amount			Recovery	=	60.56%	
62) 4-Bromofluorobenzene	13.55	95	303053	21.65	ug/l	0.00
Spiked Amount			Recovery	=	43.30%	

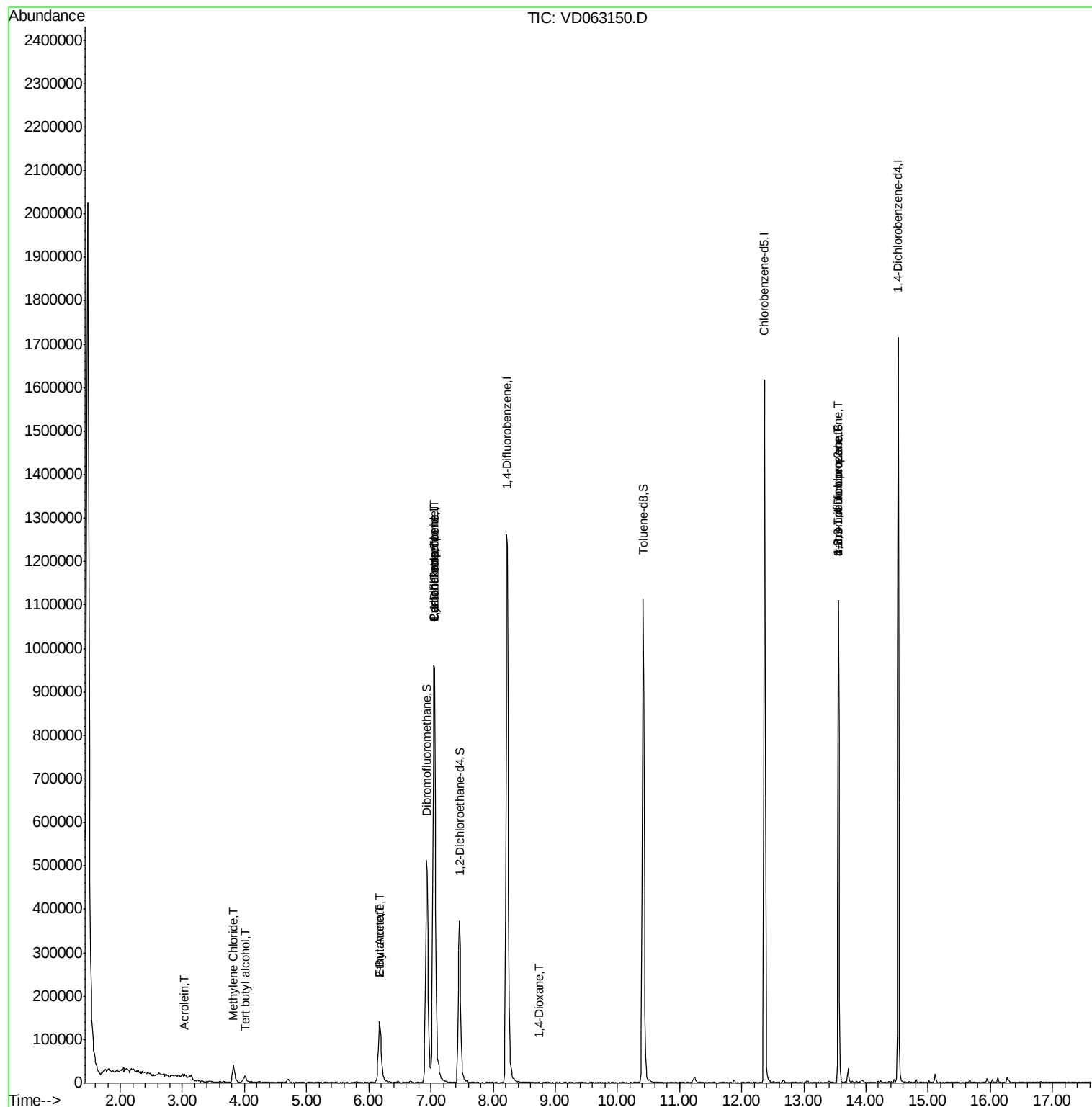
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	808	Below Cal	#	43
3) Chloromethane	1.77	50	449	Below Cal	#	48
5) Bromomethane	2.15	94	611	Below Cal	#	13
11) Tert butyl alcohol	4.01	59	13096	18.314	ug/l #	77
13) Acrolein	3.04	56	222	1.029	ug/l #	1
18) Methyl Acetate	3.66	43	695	Below Cal	#	63
20) Methylene Chloride	3.82	84	20789	1.839	ug/l	85
25) 2-Butanone	6.17	43	10543	3.689	ug/l #	85
31) Cyclohexane	7.05	56	23226	1.969	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	75613	4.754	ug/l #	46
37) Ethyl Acetate	6.17	43	10883	1.599	ug/l #	4
38) Carbon Tetrachloride	7.05	117	102202	4.229	ug/l #	15
49) 1,4-Dioxane	8.74	88	219	3.963	ug/l #	27
76) 1,2,3-Trichloropropane	13.55	75	107256	20.119	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.55	75	135064	96.210	ug/l #	1

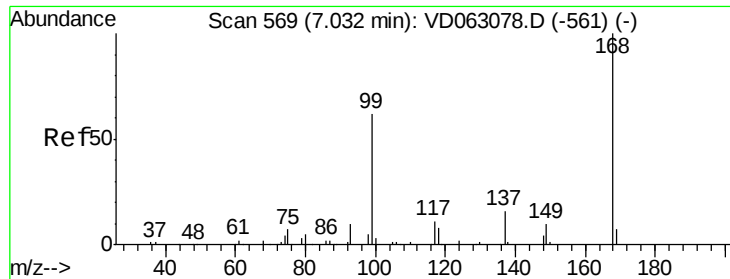
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD063150.D

Acq: 19 Jul 2019 13:34

Instrument :

MSVOA_D

ClientSampleId :

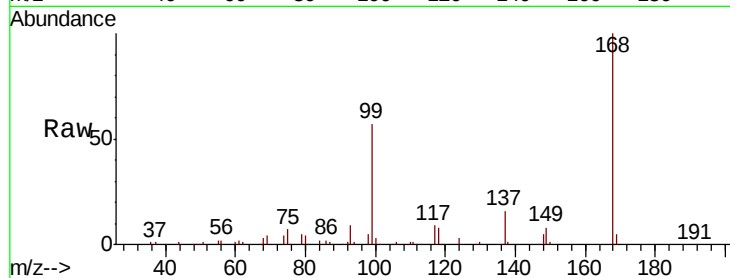
HD-01-071719

Tot Ion:168 Resp: 994707

Ion Ratio Lower Upper

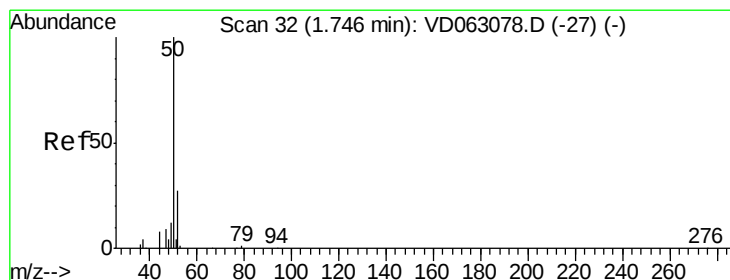
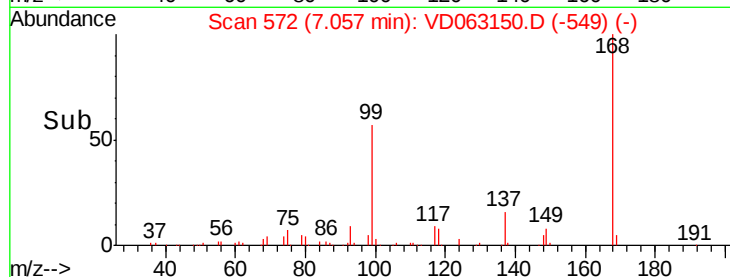
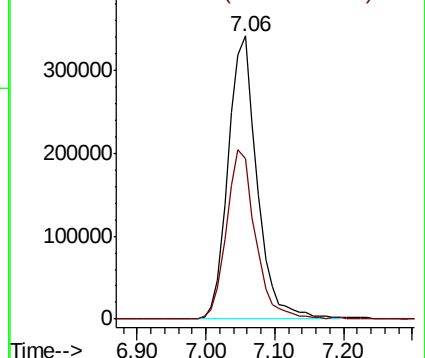
168 100

99 56.9 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: Below Cal

RT: 1.77 min Scan# 35

Delta R.T. 0.03 min

Lab File: VD063150.D

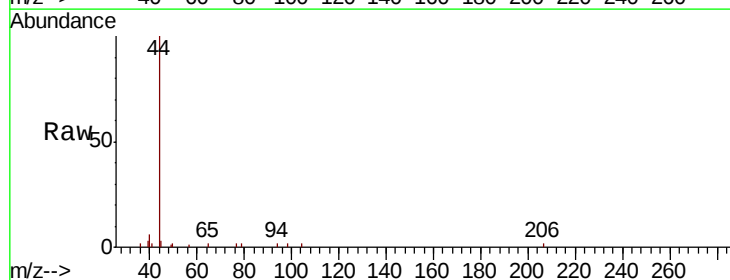
Acq: 19 Jul 2019 13:34

Tgt Ion: 50 Resp: 449

Ion Ratio Lower Upper

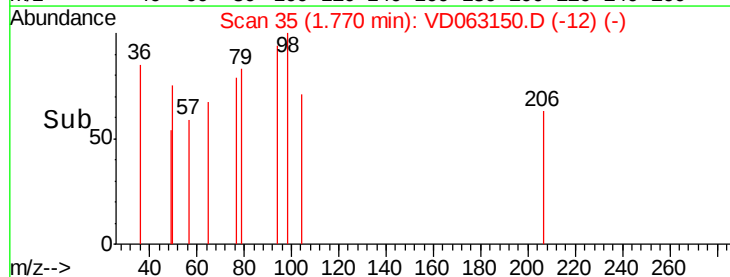
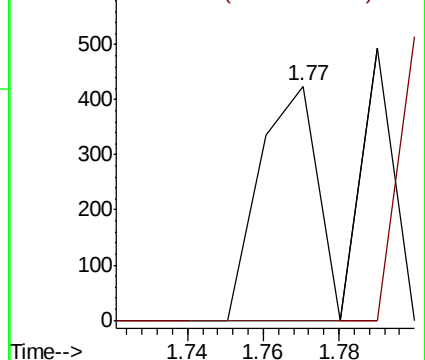
50 100

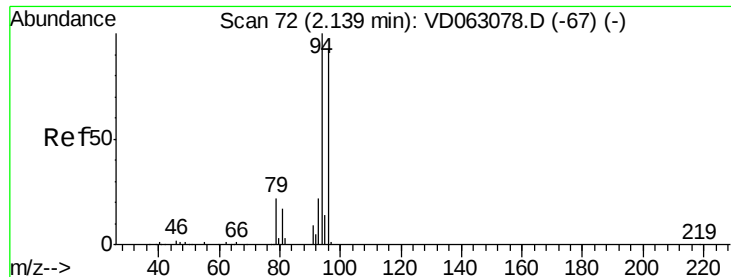
52 0.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: Below Cal

RT: 2.15 min Scan# 74

Delta R.T. 0.02 min

Lab File: VD063150.D

Acq: 19 Jul 2019 13:34

Instrument :

MSVOA_D

ClientSampleId :

HD-01-071719

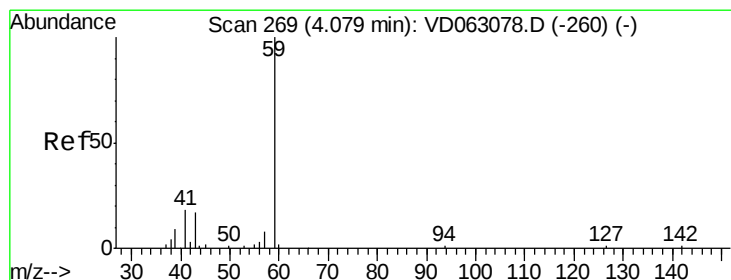
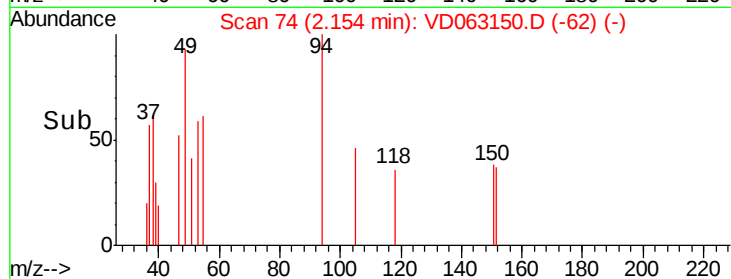
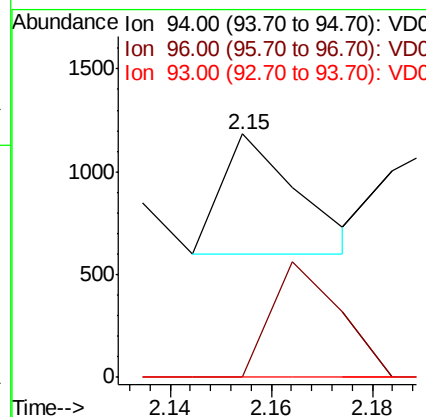
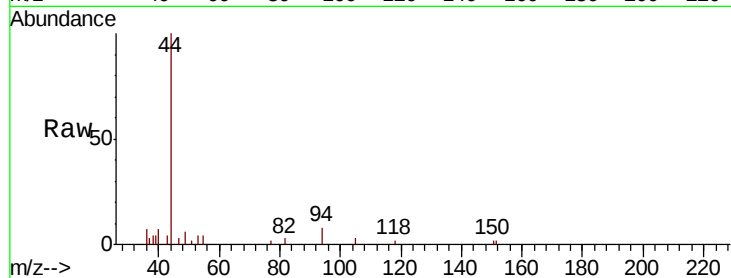
Tot Ion: 94 Resp: 611

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#

93 0.0 17.8 26.6#



#11

Tert butyl alcohol

Concen: 18.314 ug/l

RT: 4.01 min Scan# 262

Delta R.T. -0.07 min

Lab File: VD063150.D

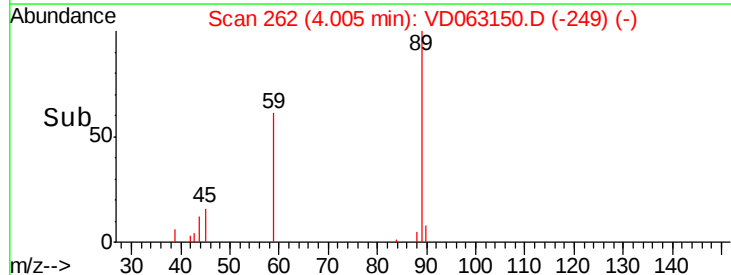
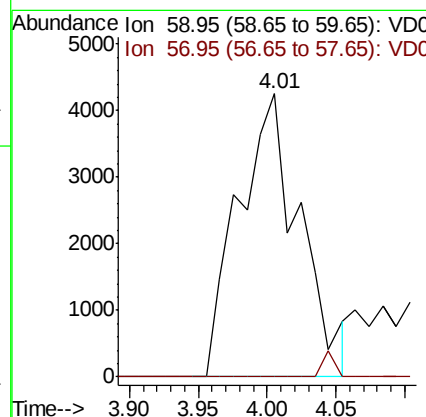
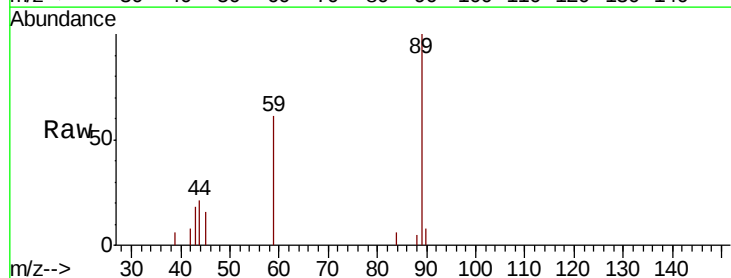
Acq: 19 Jul 2019 13:34

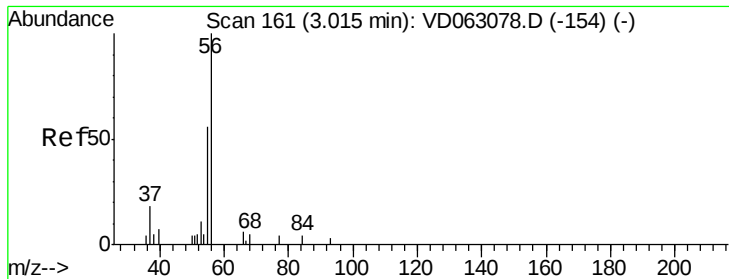
Tgt Ion: 59 Resp: 13096

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#





#13

Acrolein

Concen: 1.029 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.02 min

Lab File: VD063150.D

Acq: 19 Jul 2019 13:34

Instrument :

MSVOA_D

ClientSampleId :

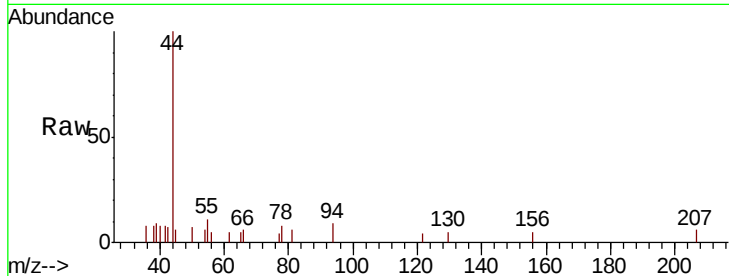
HD-01-071719

Tot Ion: 56 Resp: 222

Ion Ratio Lower Upper

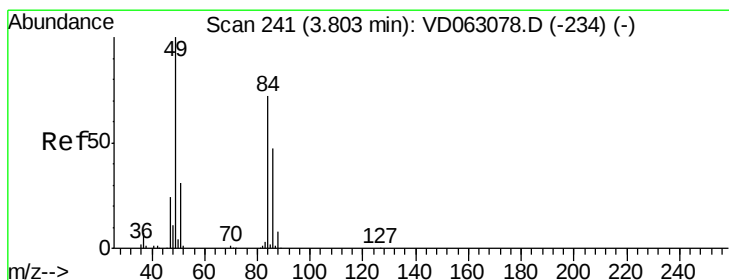
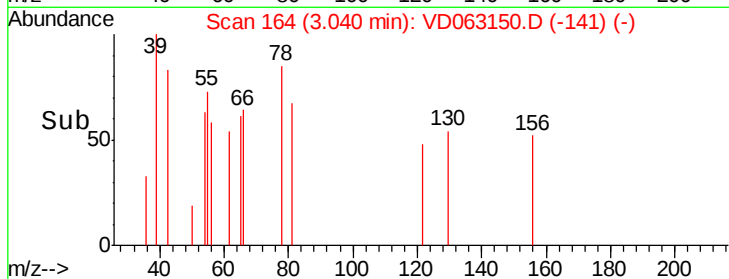
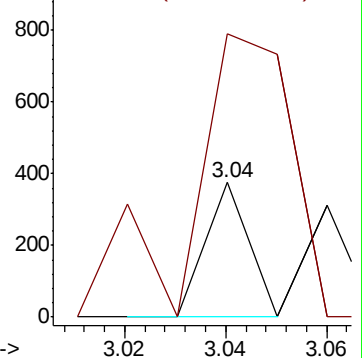
56 100

55 210.7 53.0 79.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#20

Methylene Chloride

Concen: 1.839 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.01 min

Lab File: VD063150.D

Acq: 19 Jul 2019 13:34

Tgt Ion: 84 Resp: 20789

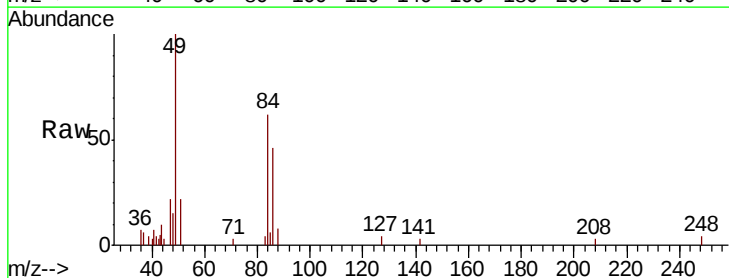
Ion Ratio Lower Upper

84 100

49 160.2 110.5 165.7

51 35.8 34.6 51.8

86 73.8 51.6 77.4

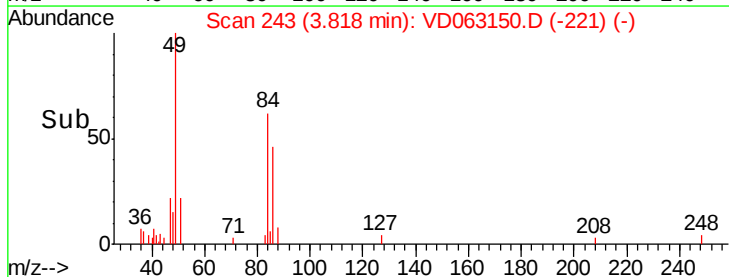
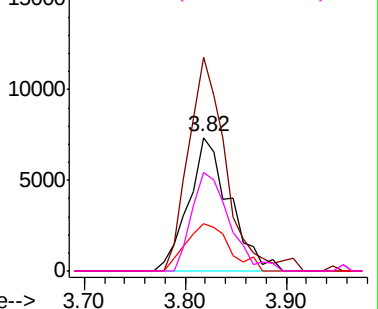


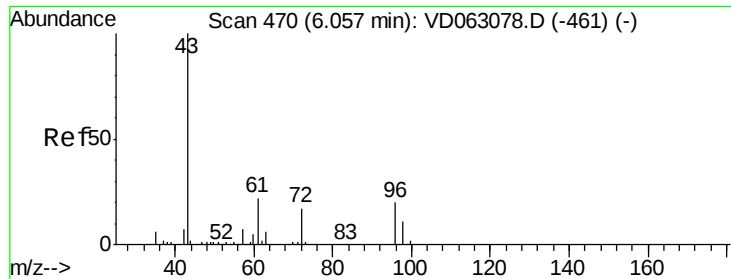
Abundance Ion 83.95 (83.65 to 84.65): VDC

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

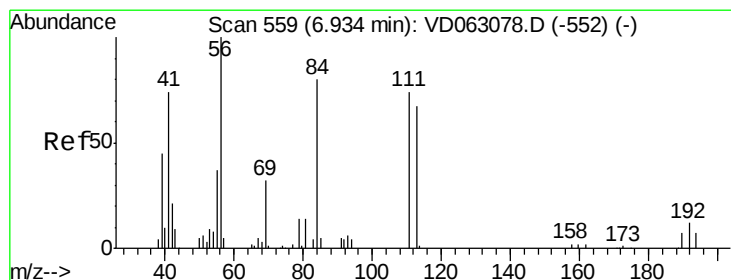
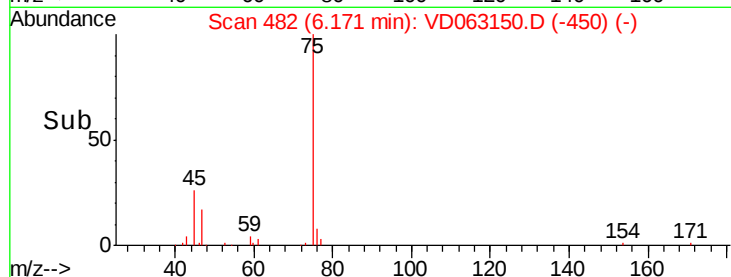
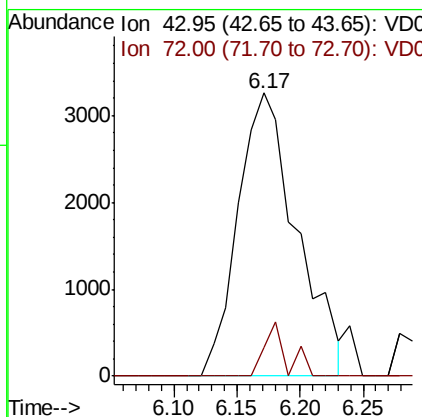
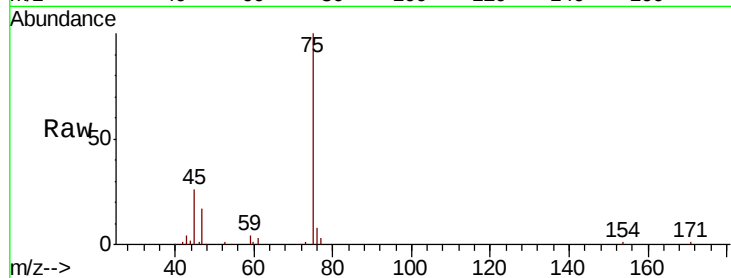




#25
2-Butanone
Concen: 3.689 ug/l
RT: 6.17 min Scan# 482
Delta R.T. 0.11 min
Lab File: VD063150.D
Acq: 19 Jul 2019 13:34

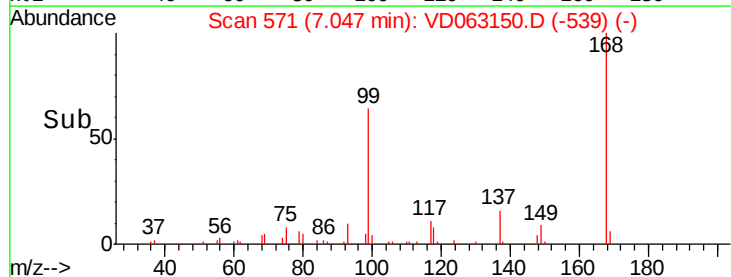
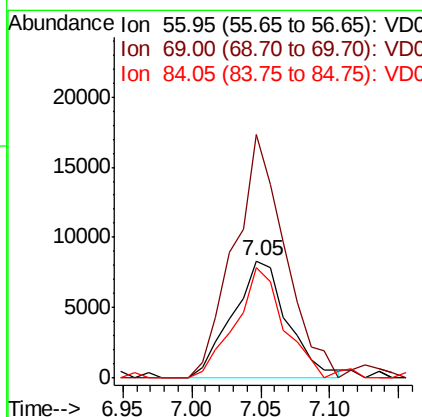
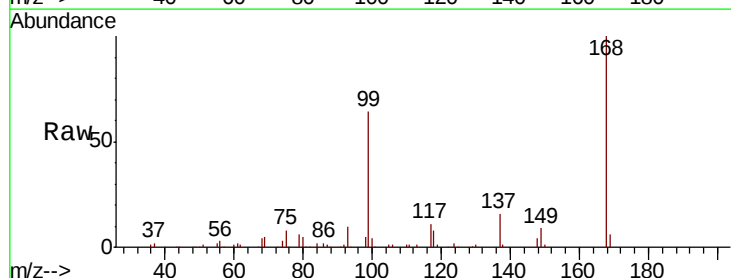
Instrument :
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HD-01-071719

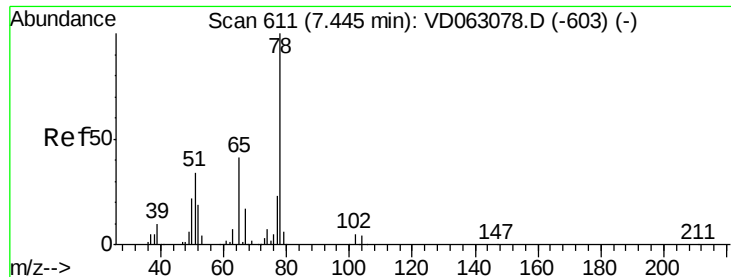
Tot Ion: 43 Resp: 10543
Ion Ratio Lower Upper
43 100
72 10.3 13.4 20.0#



#31
Cyclohexane
Concen: 1.969 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.11 min
Lab File: VD063150.D
Acq: 19 Jul 2019 13:34

Tgt Ion: 56 Resp: 23226
Ion Ratio Lower Upper
56 100
69 208.0 25.3 37.9#
84 94.1 64.2 96.4

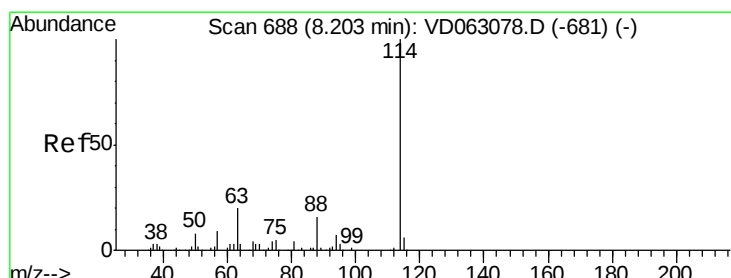
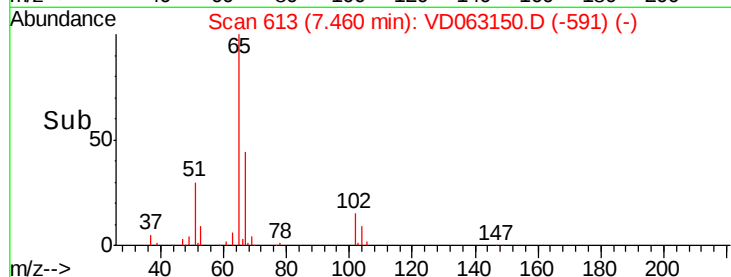
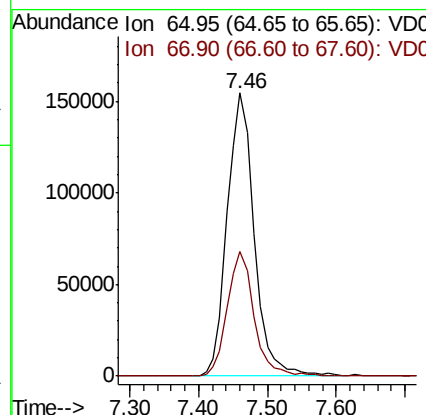
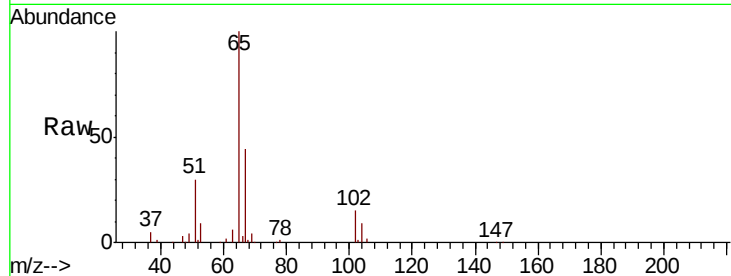




#33
 1,2-Dichloroethane-d4
 Concen: 33.871 ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. 0.01 min
 Lab File: VD063150.D
 Acq: 19 Jul 2019 13:34

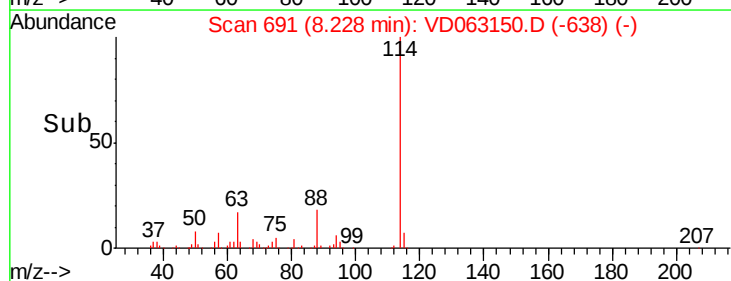
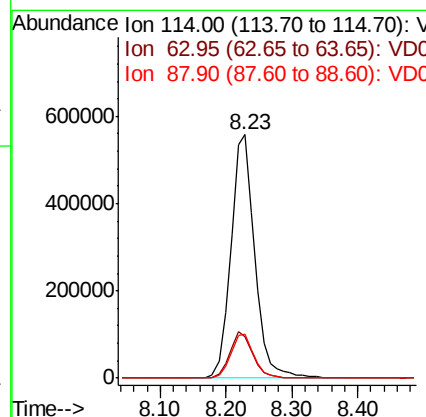
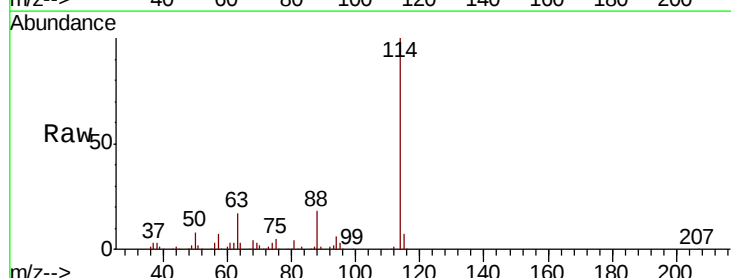
Instrument :
 MSVOA_D
 ClientSampleId :
 HD-01-071719

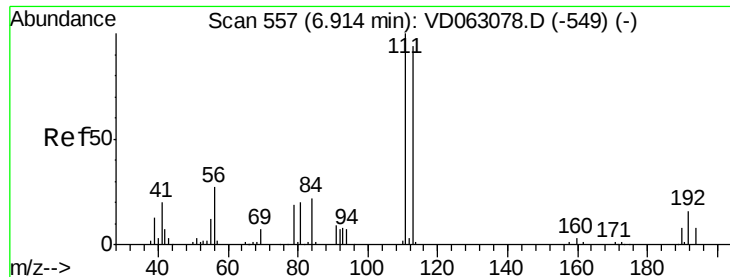
Tot Ion: 65 Resp: 419695
 Ion Ratio Lower Upper
 65 100
 67 44.2 0.0 86.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.02 min
 Lab File: VD063150.D
 Acq: 19 Jul 2019 13:34

Tgt Ion: 114 Resp: 1414212
 Ion Ratio Lower Upper
 114 100
 63 16.9 0.0 40.6
 88 17.9 0.0 32.6

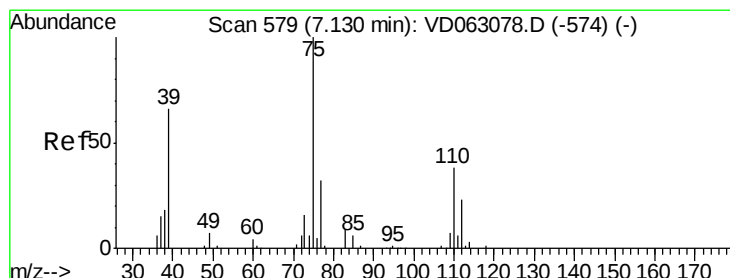
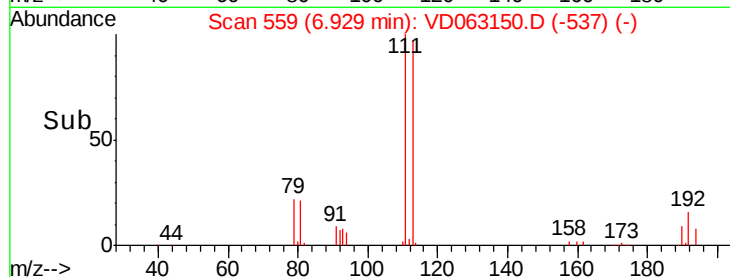
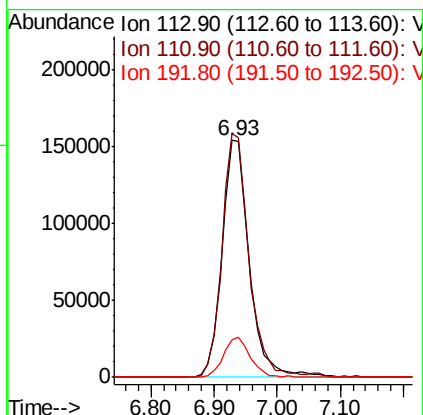
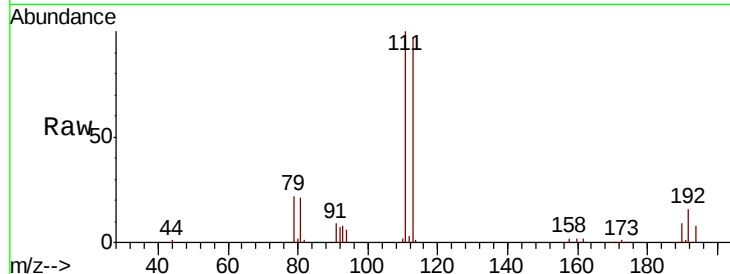




#35
 Dibromofluoromethane
 Concen: 32.725 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.01 min
 Lab File: VD063150.D
 Acq: 19 Jul 2019 13:34

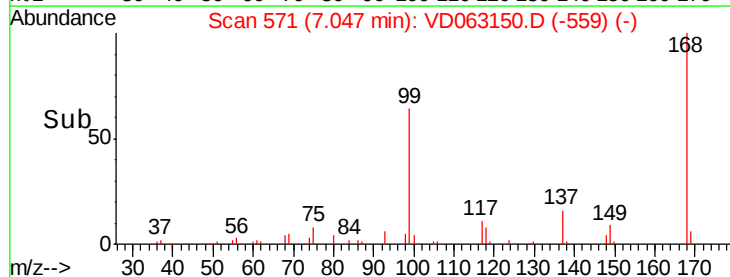
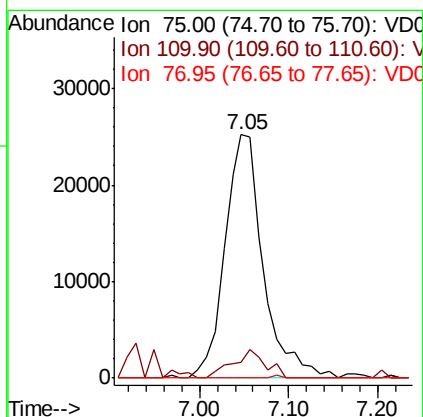
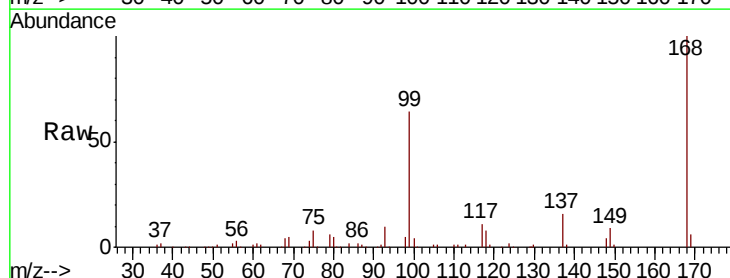
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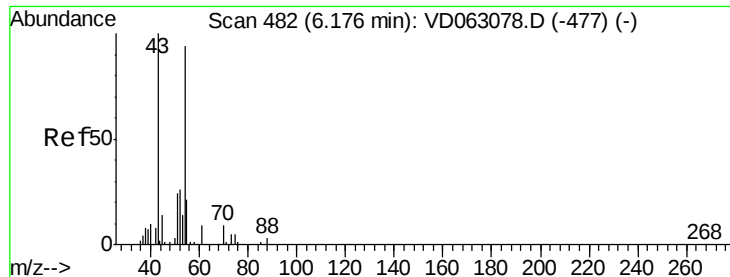
Tot Ion:113 Resp: 460962
 Ion Ratio Lower Upper
 113 100
 111 102.8 84.8 127.2
 192 16.0 13.4 20.0



#36
 1,1-Dichloropropene
 Concen: 4.754 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.08 min
 Lab File: VD063150.D
 Acq: 19 Jul 2019 13:34

Tgt Ion: 75 Resp: 75613
 Ion Ratio Lower Upper
 75 100
 110 6.7 18.9 56.5#
 77 0.0 25.2 37.8#





#37

Ethyl Acetate

Concen: 1.599 ug/l

RT: 6.17 min Scan# 482

Delta R.T. -0.00 min

Lab File: VD063150.D

Acq: 19 Jul 2019 13:34

Instrument :

MSVOA_D

ClientSampleId :

HD-01-071719

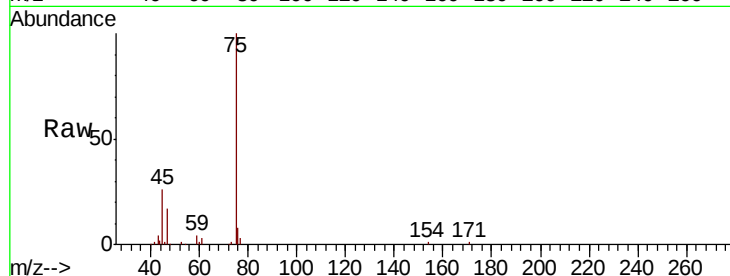
Tot Ion: 43 Resp: 10883

Ion Ratio Lower Upper

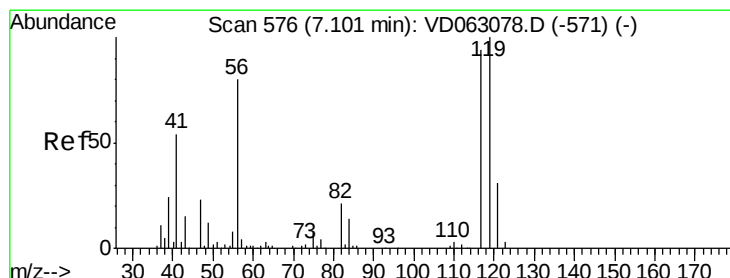
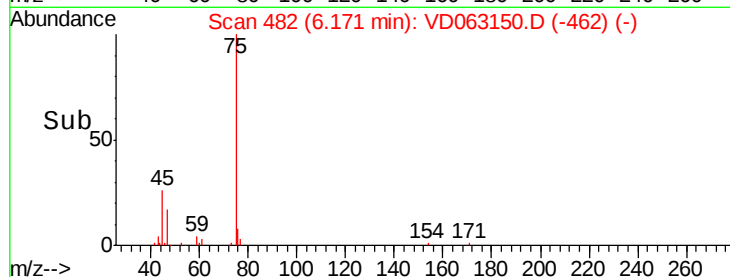
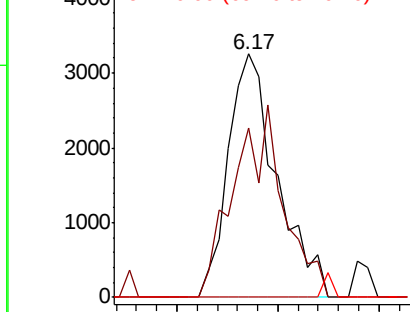
43 100

61 69.7 10.6 16.0#

70 0.0 6.6 9.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 4.229 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.05 min

Lab File: VD063150.D

Acq: 19 Jul 2019 13:34

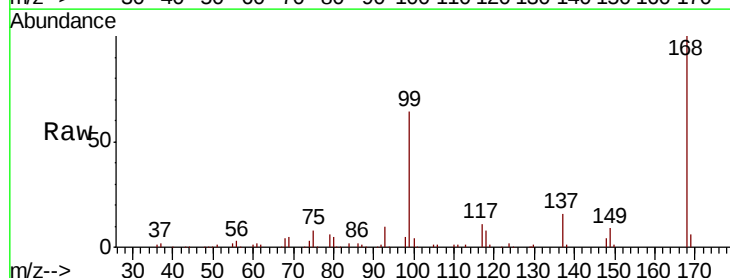
Tgt Ion: 117 Resp: 102202

Ion Ratio Lower Upper

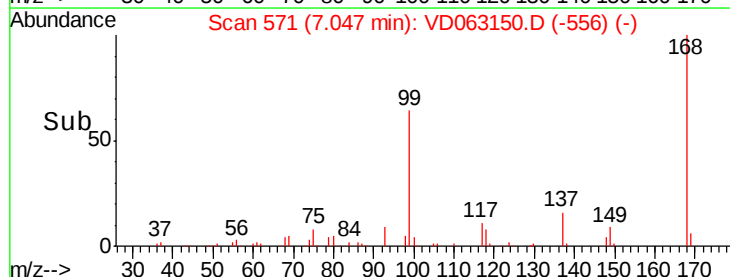
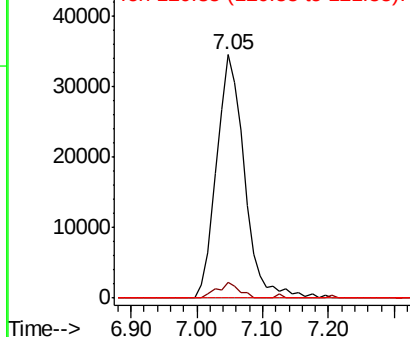
117 100

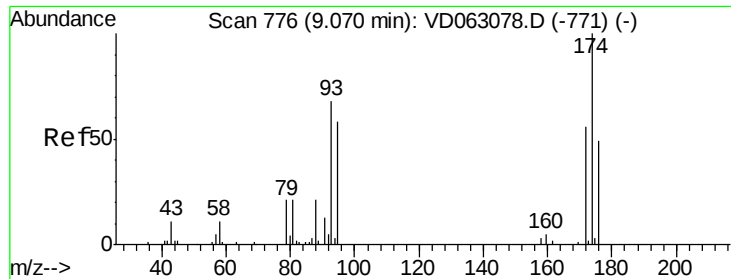
119 6.7 80.0 120.0#

121 0.0 25.0 37.4#



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V





#49

1,4-Dioxane

Concen: 3.963 ug/l

RT: 8.74 min Scan# 743

Delta R.T. -0.33 min

Lab File: VD063150.D

Acq: 19 Jul 2019 13:34

Instrument :

MSVOA_D

ClientSampleId :

HD-01-071719

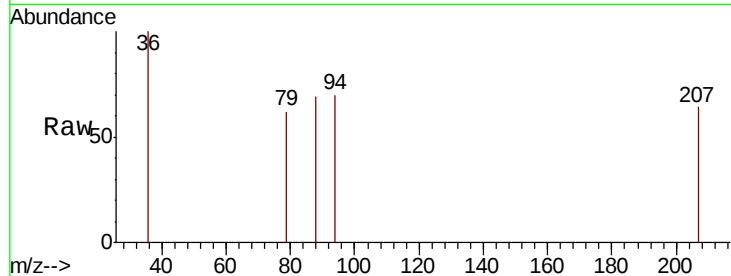
Tot Ion: 88 Resp: 219

Ion Ratio Lower Upper

88 100

43 0.0 40.2 60.4#

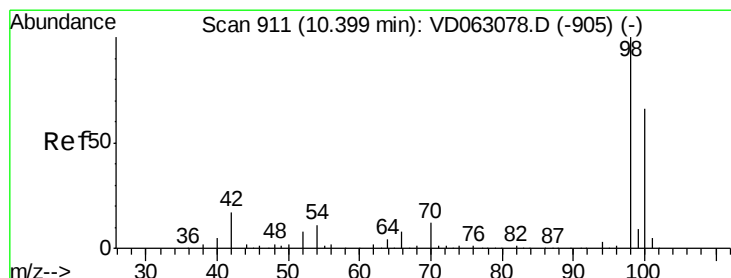
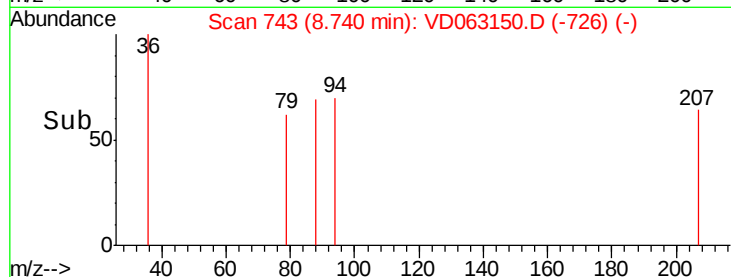
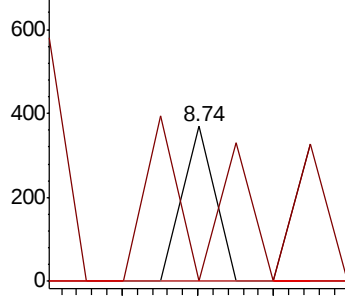
58 0.0 41.6 62.4#



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC



#50

Toluene-d8

Concen: 30.277 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD063150.D

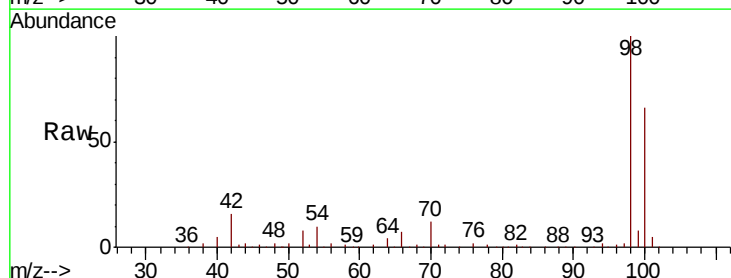
Acq: 19 Jul 2019 13:34

Tgt Ion: 98 Resp: 916064

Ion Ratio Lower Upper

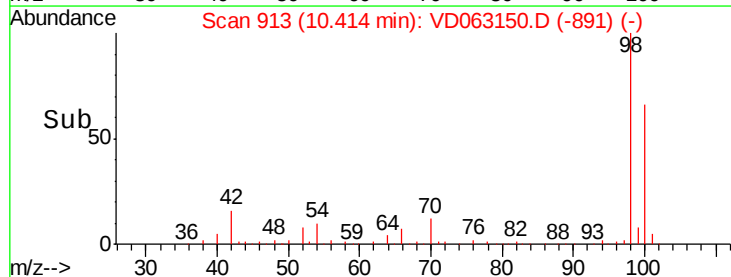
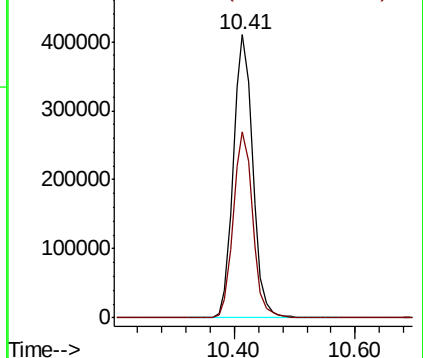
98 100

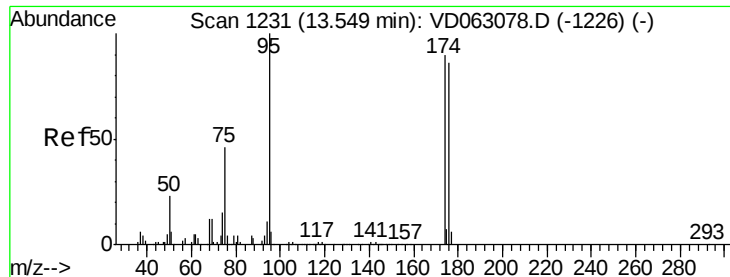
100 65.7 53.5 80.3



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#62

4-Bromofluorobenzene

Concen: 21.650 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.01 min

Lab File: VD063150.D

Acq: 19 Jul 2019 13:34

Instrument :

MSVOA_D

ClientSampleId :

HD-01-071719

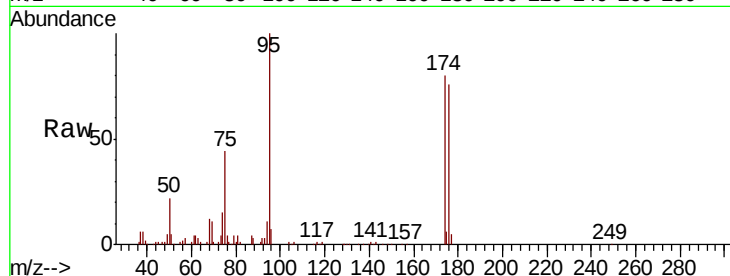
Tot Ion: 95 Resp: 303053

Ion Ratio Lower Upper

95 100

174 80.0 0.0 180.6

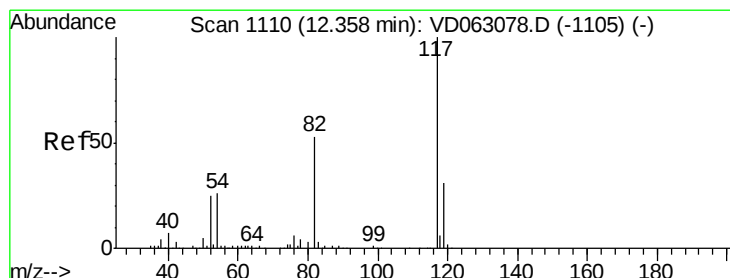
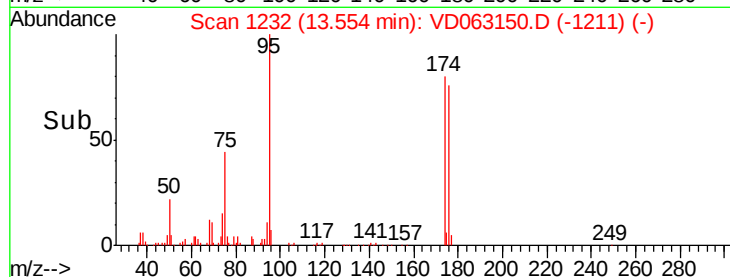
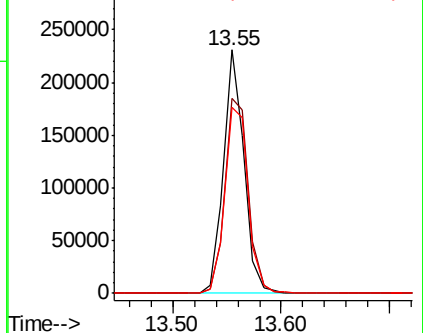
176 76.4 0.0 172.2



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VD063150.D

Acq: 19 Jul 2019 13:34

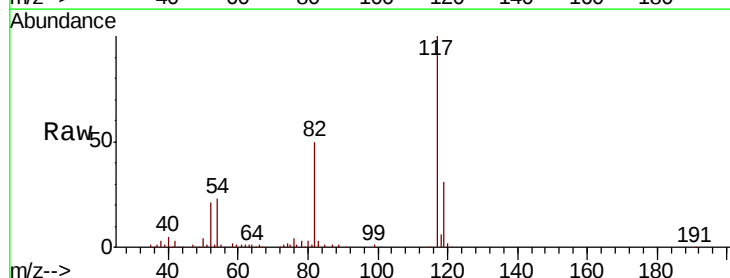
Tgt Ion: 117 Resp: 935937

Ion Ratio Lower Upper

117 100

82 49.5 42.3 63.5

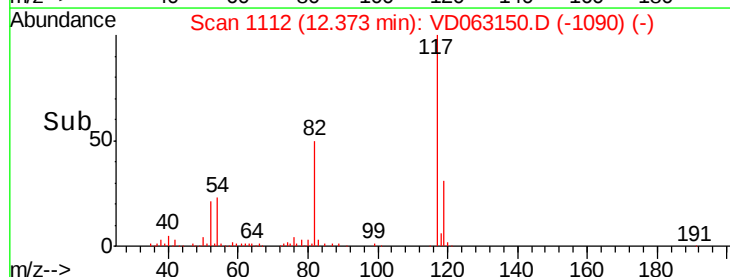
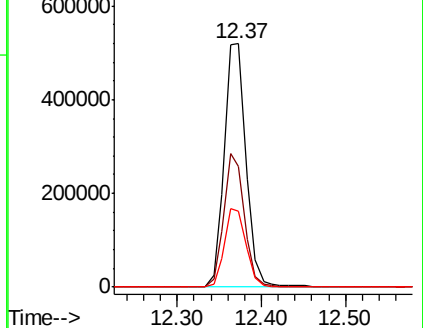
119 31.4 25.2 37.8

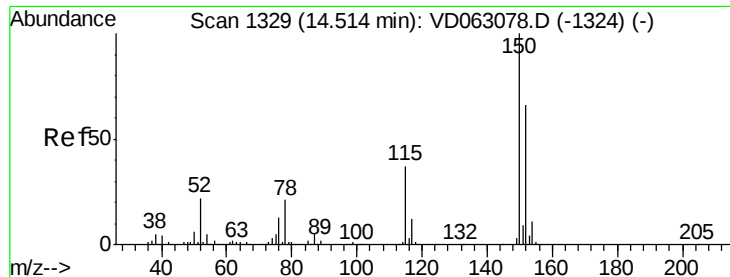


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.01 min

Lab File: VD063150.D

Acq: 19 Jul 2019 13:34

Instrument :

MSVOA_D

ClientSampleId :

HD-01-071719

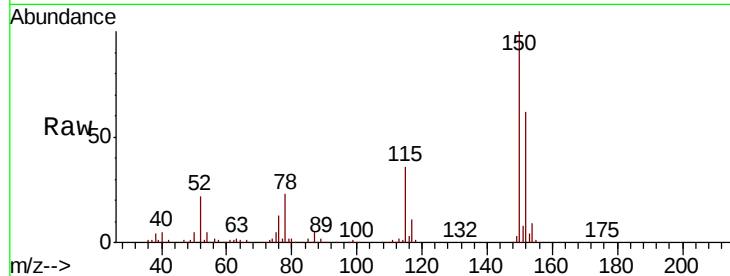
Tot Ion:152 Resp: 346552

Ion Ratio Lower Upper

152 100

115 58.7 28.9 86.8

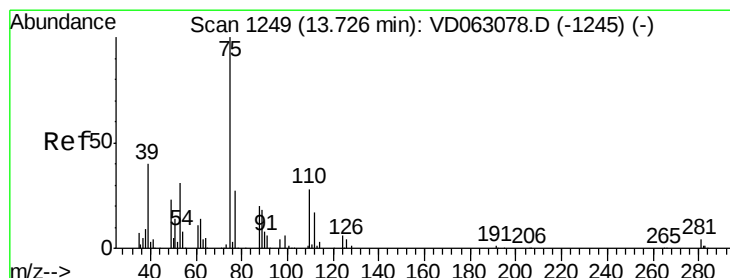
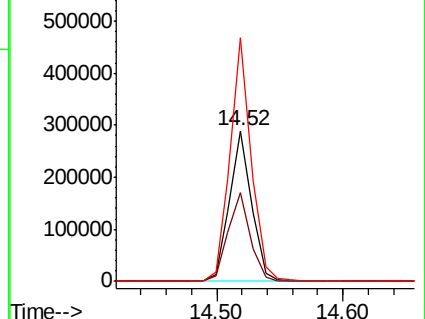
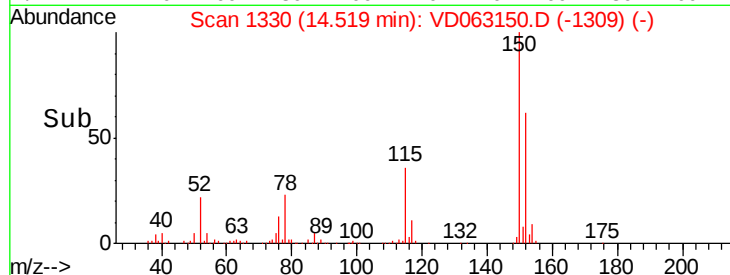
150 161.6 0.0 313.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 20.119 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD063150.D

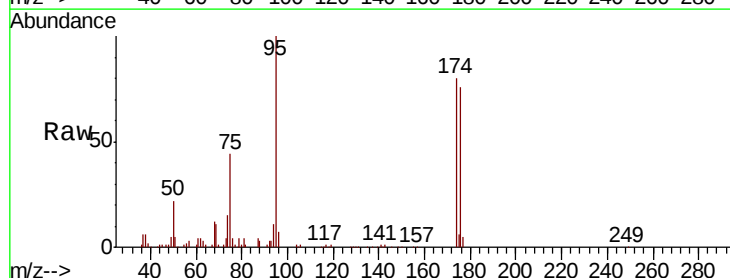
Acq: 19 Jul 2019 13:34

Tgt Ion: 75 Resp: 107256

Ion Ratio Lower Upper

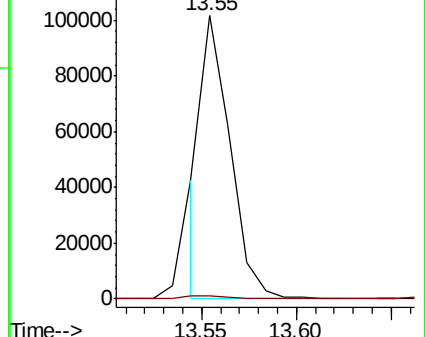
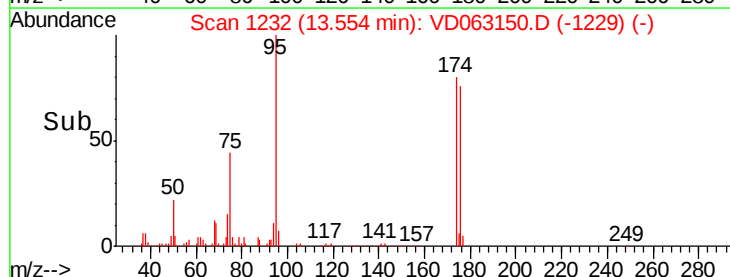
75 100

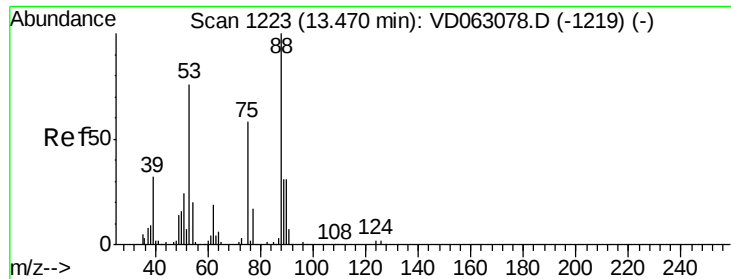
77 1.2 16.3 48.8#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 96.210 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD063150.D

Acq: 19 Jul 2019 13:34

Instrument :

MSVOA_D

ClientSampleId :

HD-01-071719

Tot Ion: 75 Resp: 135064

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#

