

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081519\
 Data File : VD063608.D
 Acq On : 15 Aug 2019 16:27
 Operator : JC/SY
 Sample : K4245-04RE
 Misc : 5.98g/5ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Aug 15 16:52:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	1072426	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.21	114	1532413	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	1191334	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	473994	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	514997	44.93	ug/l	-0.03
Spiked Amount			Recovery	=	89.86%	
35) Dibromofluoromethane	6.92	113	518205	40.15	ug/l	-0.02
Spiked Amount			Recovery	=	80.30%	
50) Toluene-d8	10.41	98	1080973	38.10	ug/l	-0.02
Spiked Amount			Recovery	=	76.20%	
62) 4-Bromofluorobenzene	13.56	95	430490	33.47	ug/l	0.00
Spiked Amount			Recovery	=	66.94%	

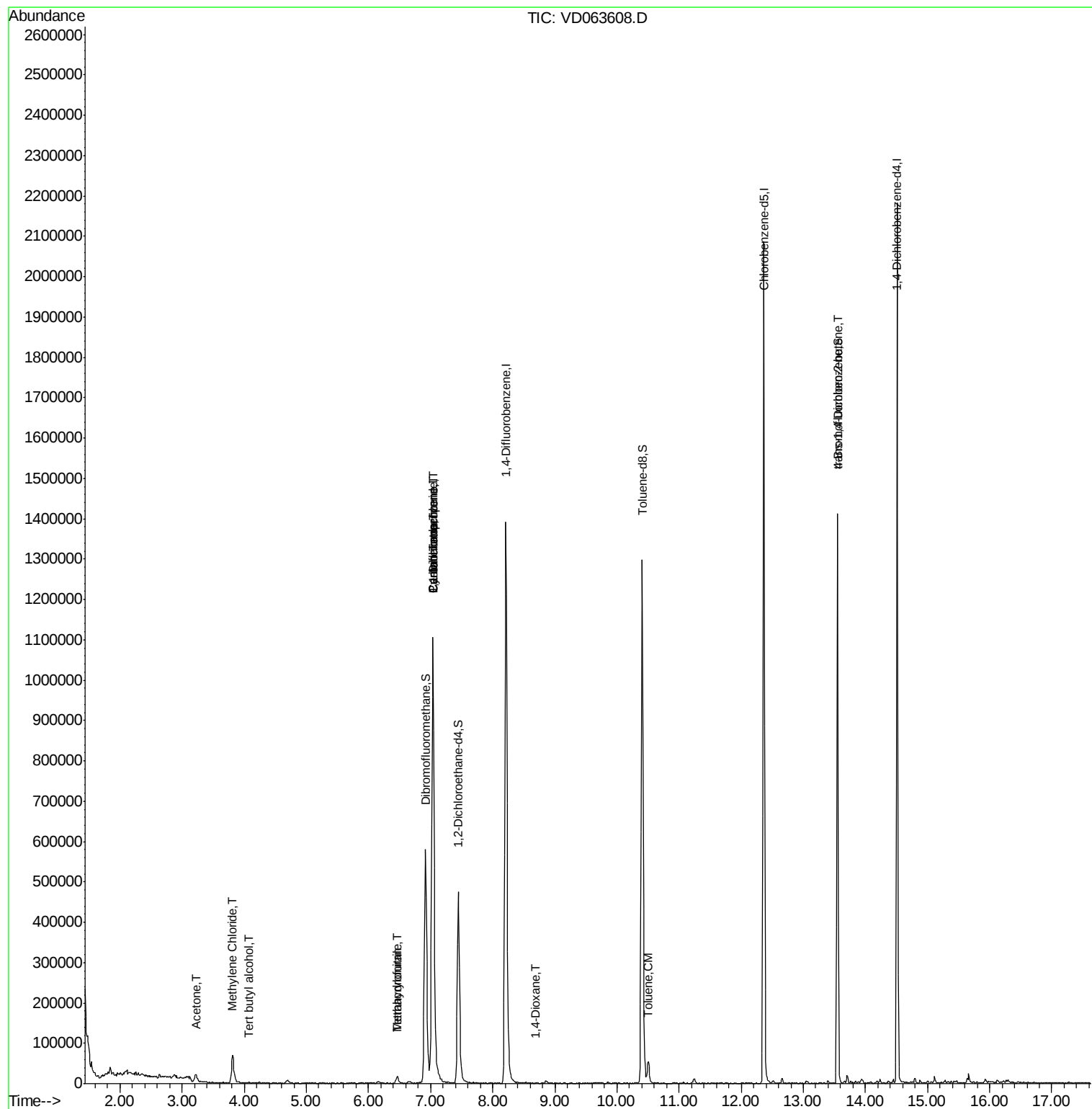
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.07	59	549	1.100	ug/l #	71
16) Acetone	3.22	43	44485	19.090	ug/l #	81
20) Methylene Chloride	3.81	84	42650	4.233	ug/l #	93
29) Tetrahydrofuran	6.47	42	13160	12.271	ug/l	97
31) Cyclohexane	7.03	56	22870	2.210	ug/l #	18
36) 1,1-Dichloropropene	7.04	75	80725	5.959	ug/l #	47
38) Carbon Tetrachloride	7.04	117	104326	5.110	ug/l #	17
41) Methacrylonitrile	6.47	41	8377	1.172	ug/l #	54
49) 1,4-Dioxane	8.69	88	186	28.680	ug/l #	34
52) Toluene	10.50	92	25829	1.345	ug/l	83
81) trans-1,4-Dichloro-2-buten	13.55	75	188814	129.139	ug/l #	1

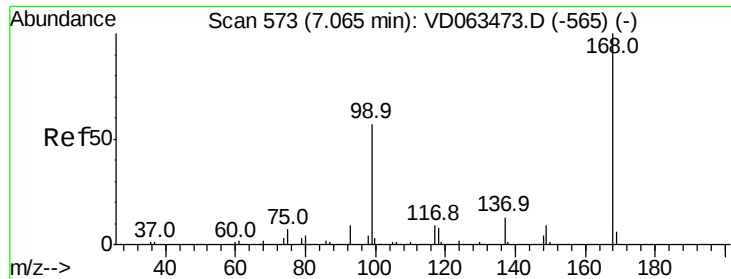
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD081519\
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MSVOA_D
ClientSampleId :

Quant Time: Aug 15 16:52:10 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
Quant Title : SW846 8260
QLast Update : Sat Aug 10 06:42:47 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.03 min

Lab File: VD063608.D

Acq: 15 Aug 2019 16:27

Instrument :

MSVOA_D

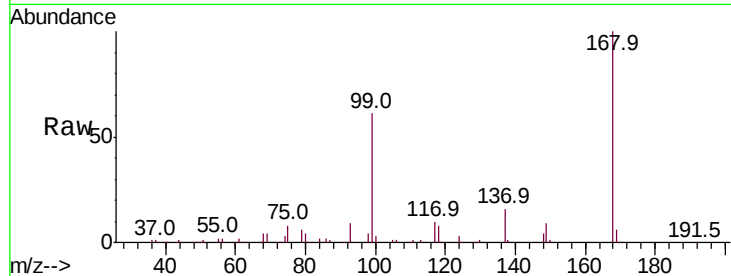
ClientSampleId :

Tot Ion:168 Resp: 1072426

Ion Ratio Lower Upper

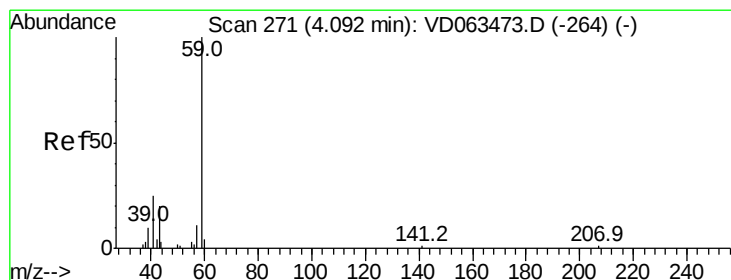
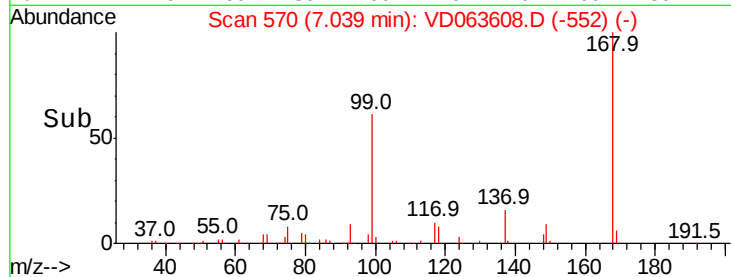
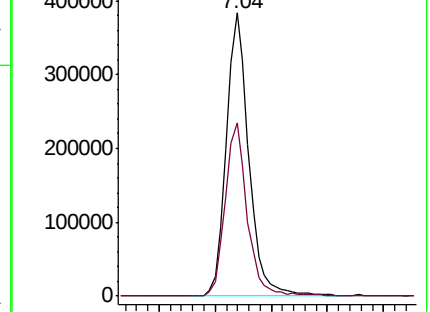
168 100

99 61.4 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 1.100 ug/l

RT: 4.07 min Scan# 268

Delta R.T. -0.03 min

Lab File: VD063608.D

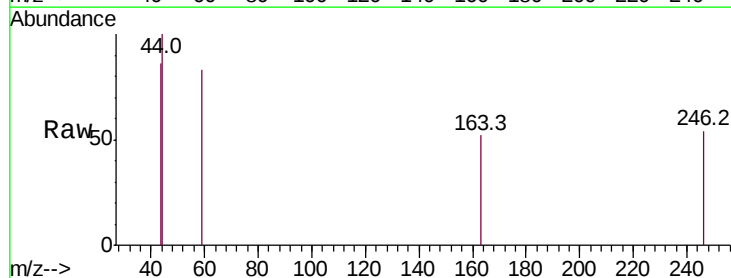
Acq: 15 Aug 2019 16:27

Tgt Ion: 59 Resp: 549

Ion Ratio Lower Upper

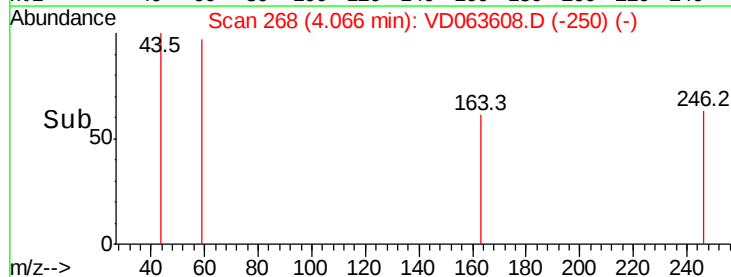
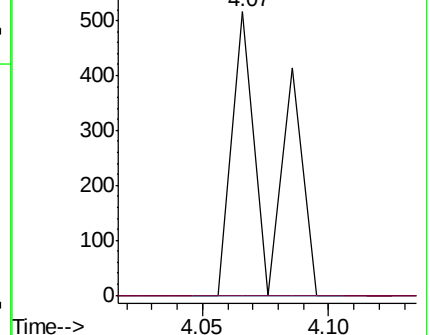
59 100

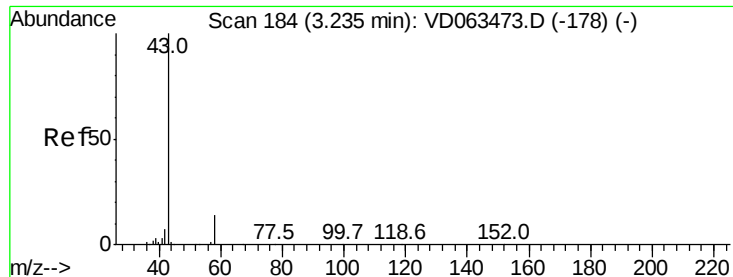
57 0.0 8.7 13.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 19.090 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.02 min

Lab File: VD063608.D

Acq: 15 Aug 2019 16:27

Instrument :

MSVOA_D

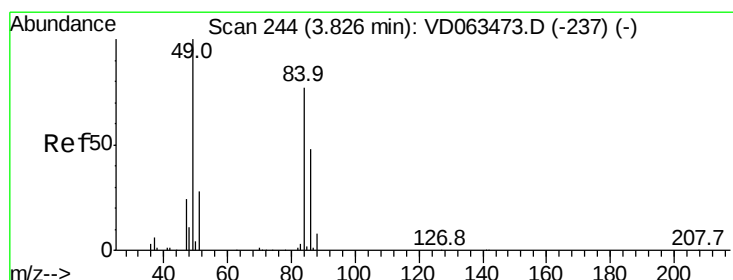
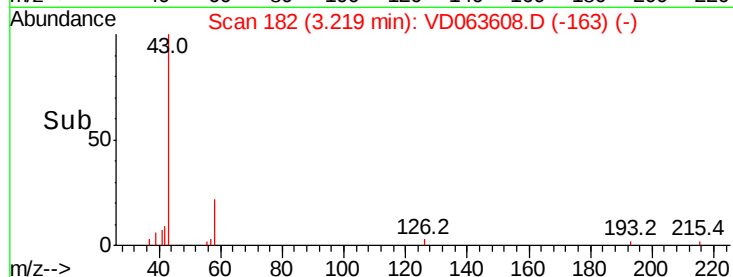
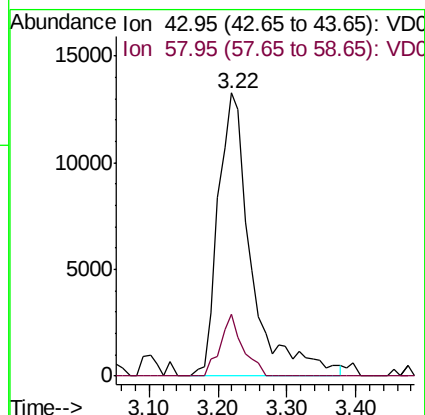
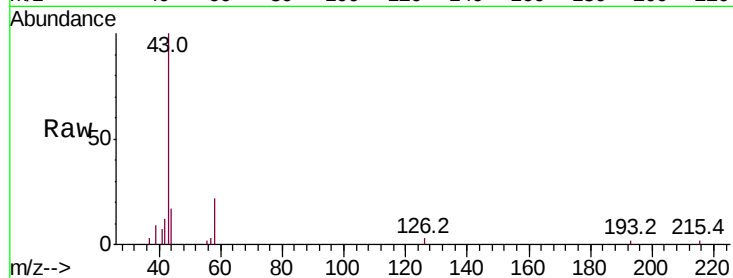
ClientSampleId :

Tot Ion: 43 Resp: 44485

Ion Ratio Lower Upper

43 100

58 22.1 11.4 17.2#



#20

Methylene Chloride

Concen: 4.233 ug/l

RT: 3.81 min Scan# 242

Delta R.T. -0.02 min

Lab File: VD063608.D

Acq: 15 Aug 2019 16:27

Tgt Ion: 84 Resp: 42650

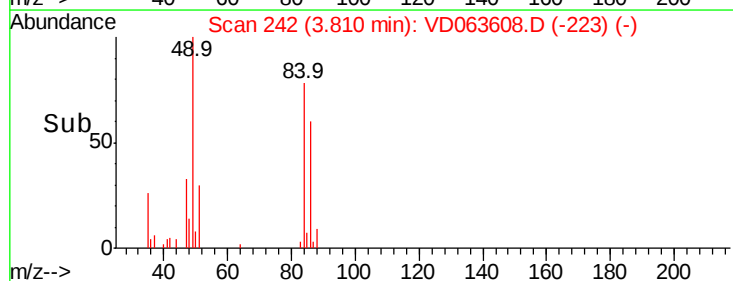
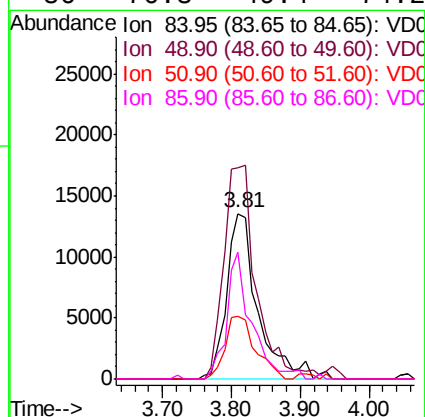
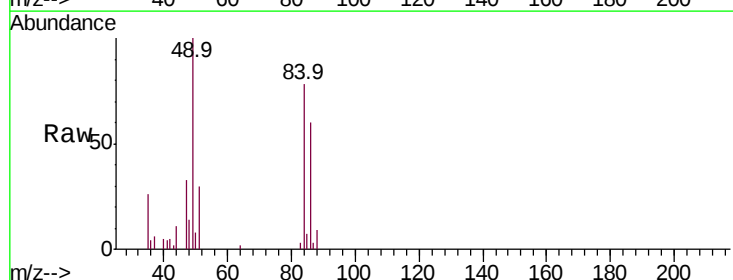
Ion Ratio Lower Upper

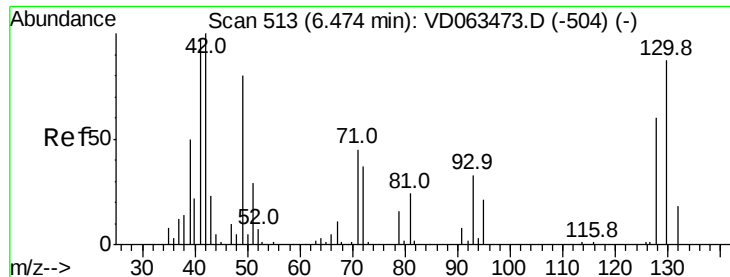
84 100

49 127.6 103.4 155.2

51 37.7 28.5 42.7

86 76.3 49.4 74.2#





#29

Tetrahydrofuran

Concen: 12.271 ug/l

RT: 6.47 min Scan# 512

Delta R.T. -0.01 min

Lab File: VD063608.D

Acq: 15 Aug 2019 16:27

Instrument :

MSVOA_D

ClientSampled :

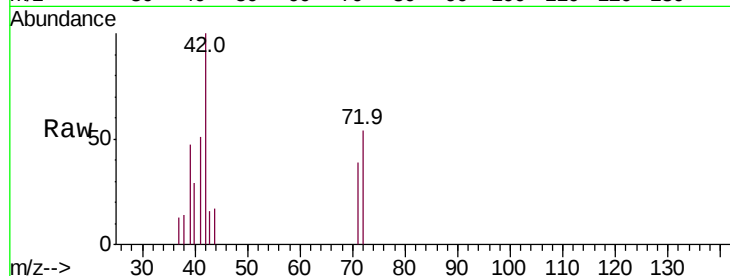
Tot Ion: 42 Resp: 13160

Ion Ratio Lower Upper

42 100

72 42.1 31.5 47.3

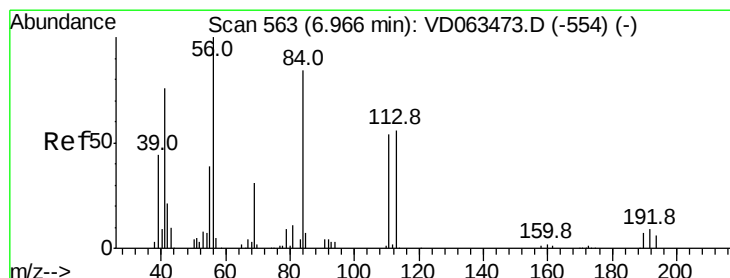
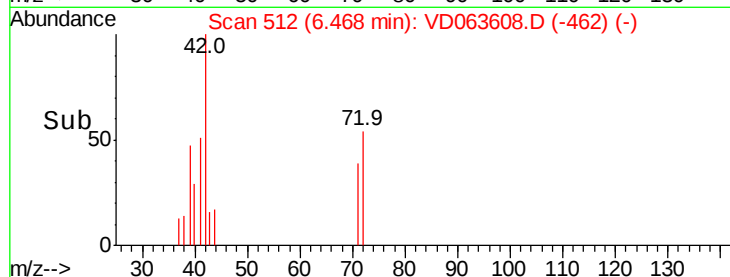
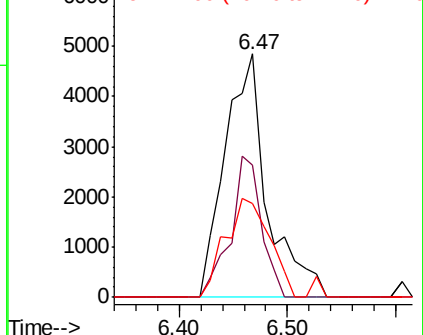
71 43.0 33.8 50.8



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: 2.210 ug/l

RT: 7.03 min Scan# 569

Delta R.T. 0.06 min

Lab File: VD063608.D

Acq: 15 Aug 2019 16:27

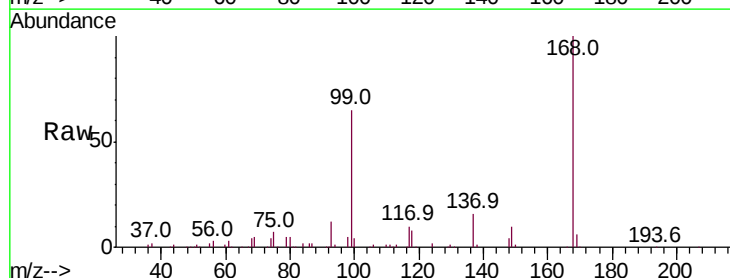
Tgt Ion: 56 Resp: 22870

Ion Ratio Lower Upper

56 100

69 186.3 25.0 37.6#

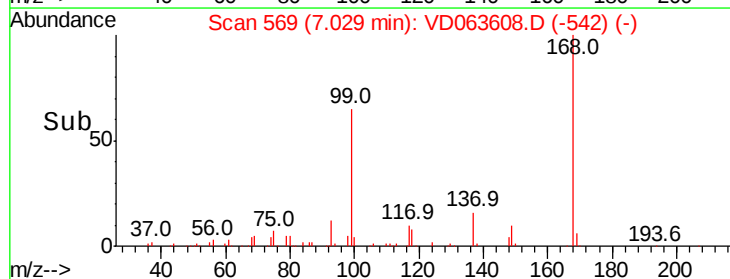
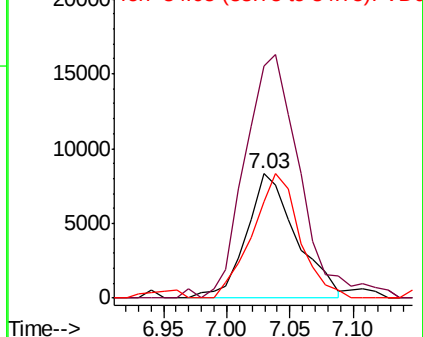
84 77.4 69.7 104.5

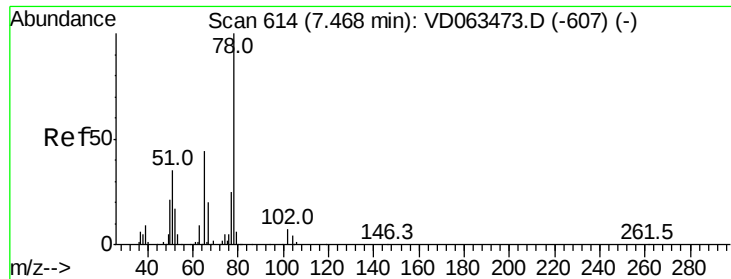


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 44.925 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.03 min

Lab File: VD063608.D

Acq: 15 Aug 2019 16:27

Instrument :

MSVOA_D

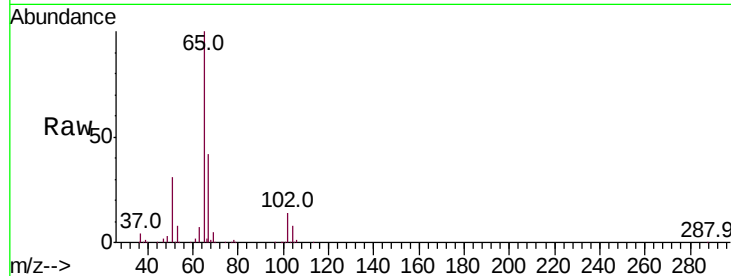
ClientSampleId :

Tot Ion: 65 Resp: 514997

Ion Ratio Lower Upper

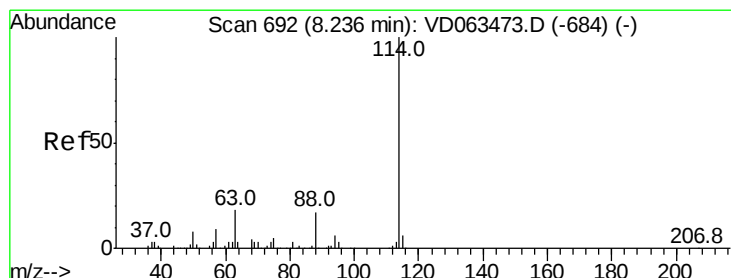
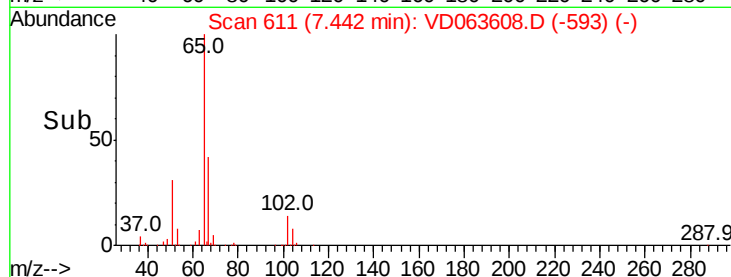
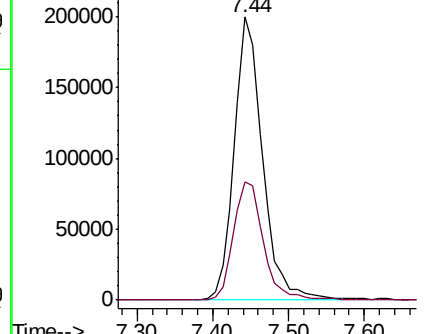
65 100

67 41.7 0.0 89.2



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. -0.03 min

Lab File: VD063608.D

Acq: 15 Aug 2019 16:27

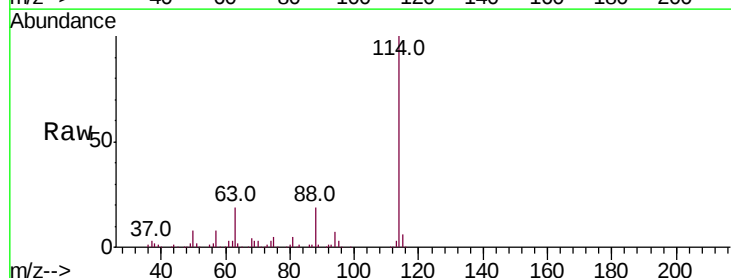
Tgt Ion: 114 Resp: 1532413

Ion Ratio Lower Upper

114 100

63 19.1 0.0 36.2

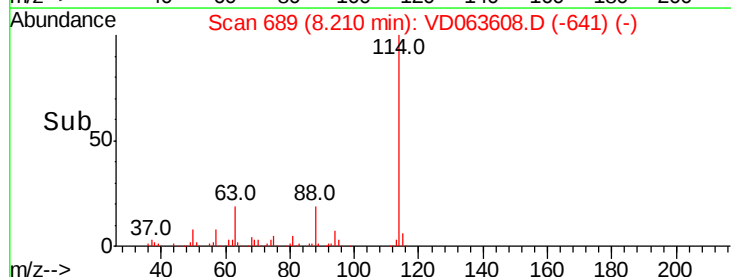
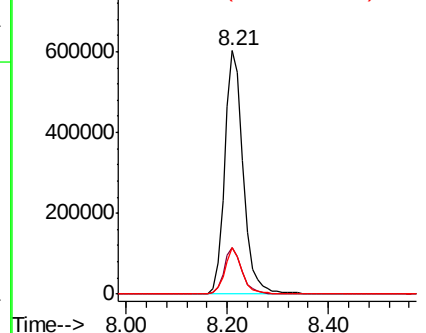
88 18.9 0.0 35.0

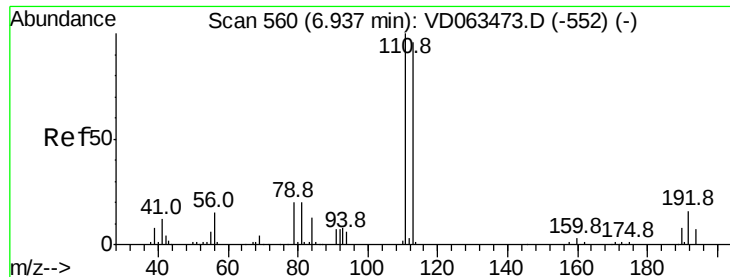


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 40.152 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD063608.D

Acq: 15 Aug 2019 16:27

Instrument :
MSVOA_D
ClientSampleId :

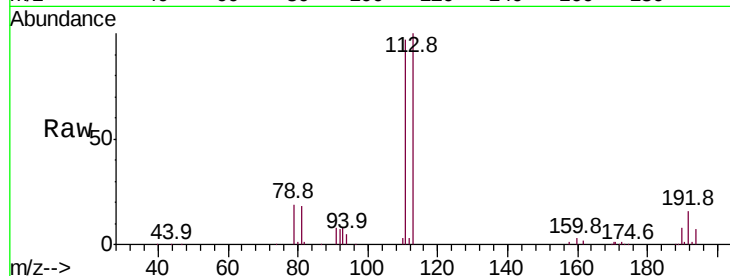
Tot Ion:113 Resp: 518205

Ion Ratio Lower Upper

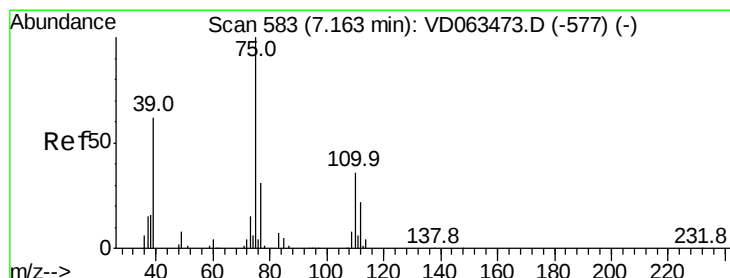
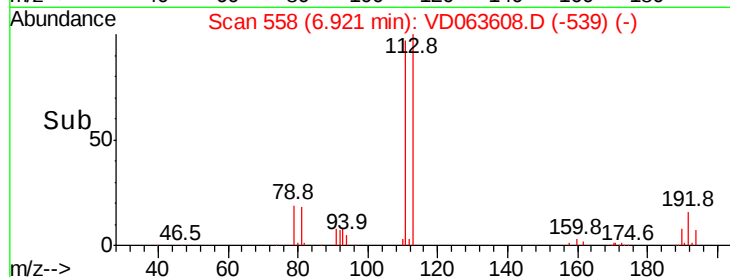
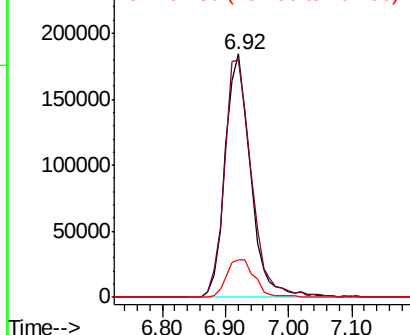
113 100

111 97.4 83.1 124.7

192 15.5 13.1 19.7



Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 5.959 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.12 min

Lab File: VD063608.D

Acq: 15 Aug 2019 16:27

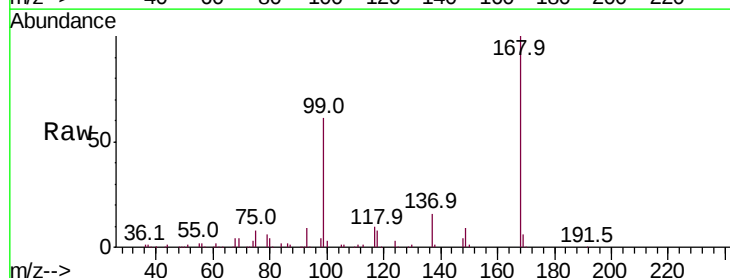
Tgt Ion: 75 Resp: 80725

Ion Ratio Lower Upper

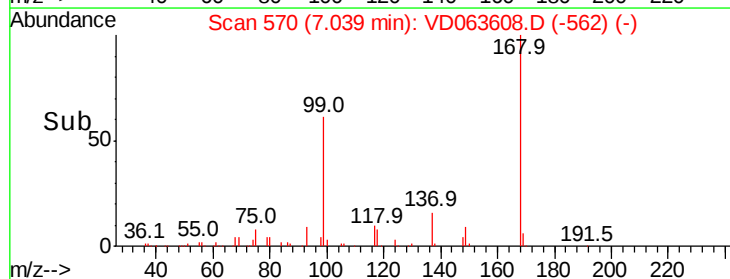
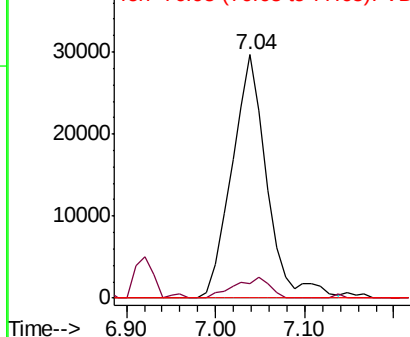
75 100

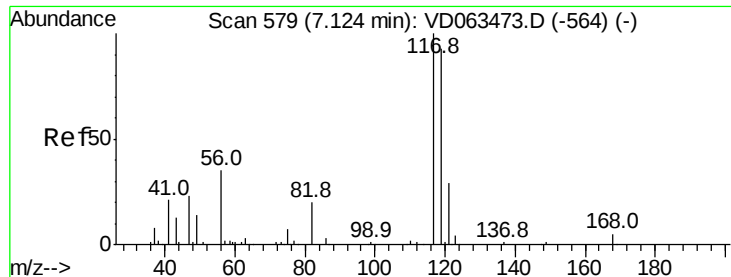
110 6.2 17.6 52.8#

77 0.0 24.3 36.5#



Abundance Ion 75.00 (74.70 to 75.70): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): V





#38

Carbon Tetrachloride

Concen: 5.110 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.09 min

Lab File: VD063608.D

Acq: 15 Aug 2019 16:27

Instrument :

MSVOA_D

ClientSampled :

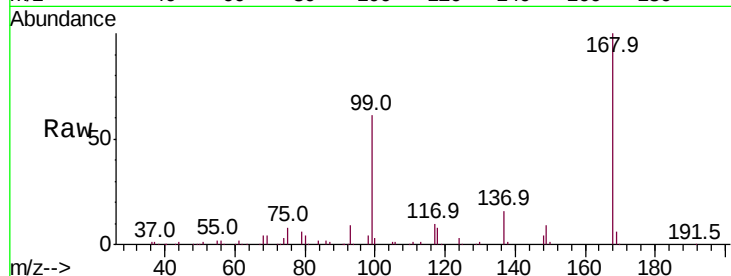
Tot Ion:117 Resp: 104326

Ion Ratio Lower Upper

117 100

119 4.3 74.2 111.2#

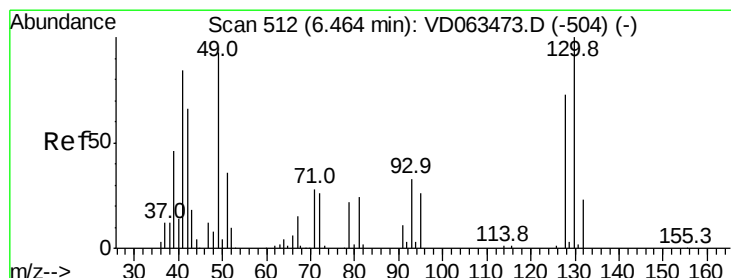
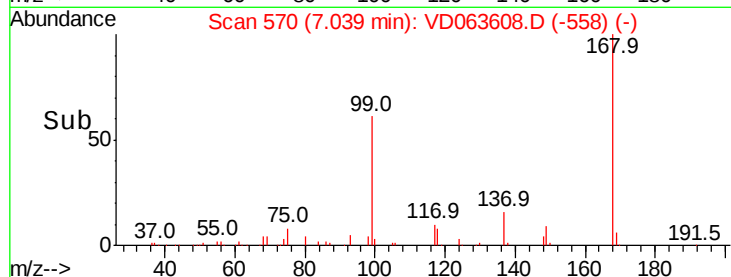
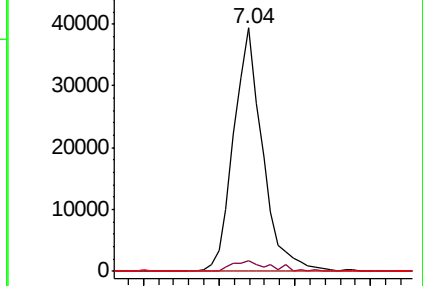
121 0.0 23.1 34.7#



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



#41

Methacrylonitrile

Concen: 1.172 ug/l

RT: 6.47 min Scan# 512

Delta R.T. 0.00 min

Lab File: VD063608.D

Acq: 15 Aug 2019 16:27

Tgt Ion: 41 Resp: 8377

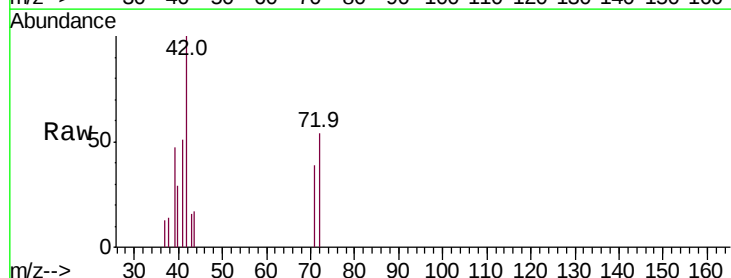
Ion Ratio Lower Upper

41 100

39 93.1 44.6 66.8#

67 0.0 14.4 21.6#

52 0.0 9.3 13.9#

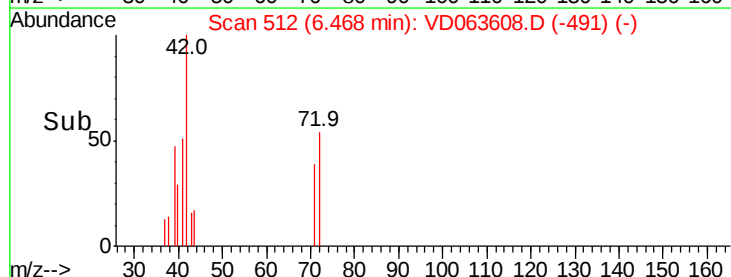
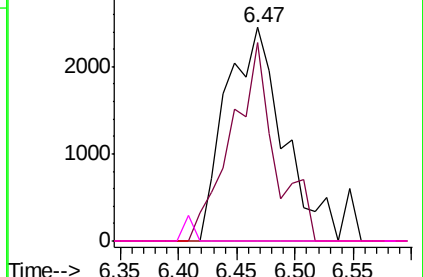


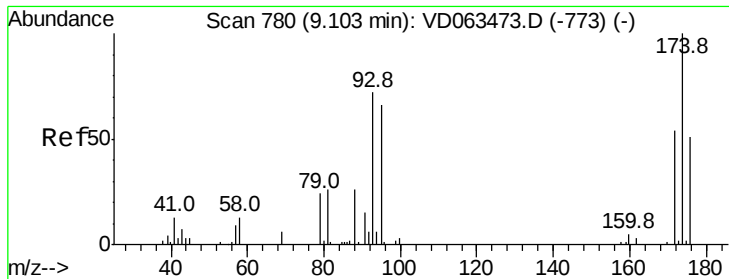
Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC





#49

1,4-Dioxane

Concen: 28.680 ug/l

RT: 8.69 min Scan# 738

Delta R.T. -0.41 min

Lab File: VD063608.D

Acq: 15 Aug 2019 16:27

Instrument :

MSVOA_D

ClientSampleId :

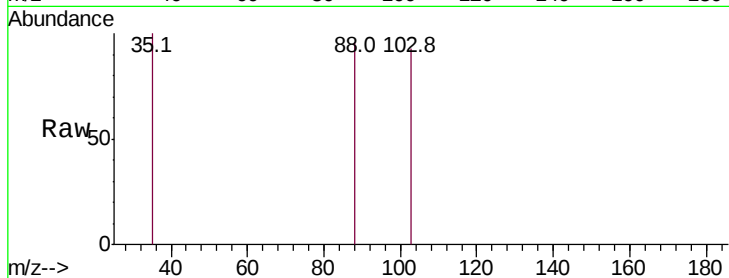
Tot Ion: 88 Resp: 186

Ion Ratio Lower Upper

88 100

43 0.0 22.9 34.3#

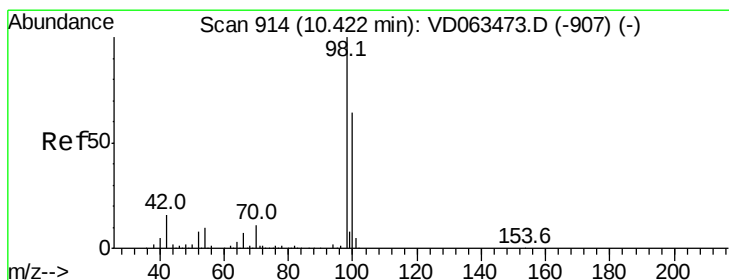
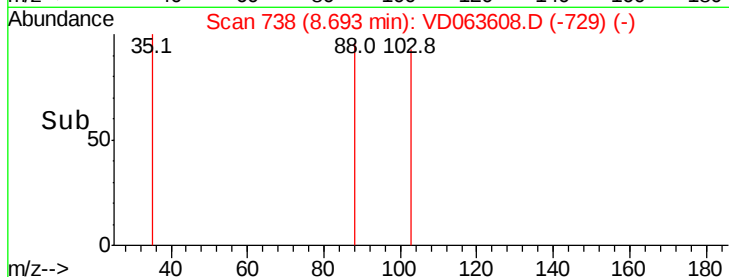
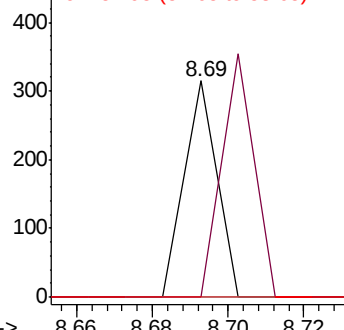
58 0.0 40.1 60.1#



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: 38.096 ug/l

RT: 10.41 min Scan# 912

Delta R.T. -0.02 min

Lab File: VD063608.D

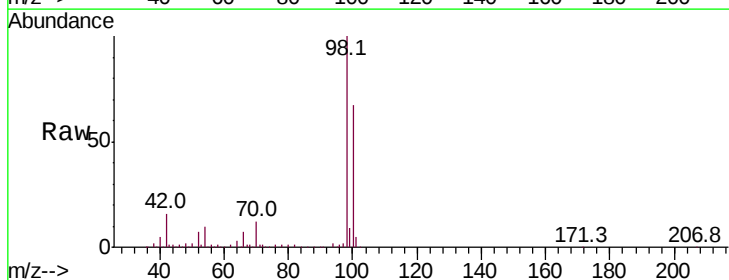
Acq: 15 Aug 2019 16:27

Tgt Ion: 98 Resp: 1080973

Ion Ratio Lower Upper

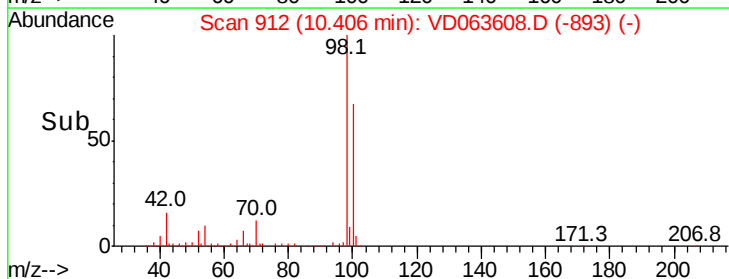
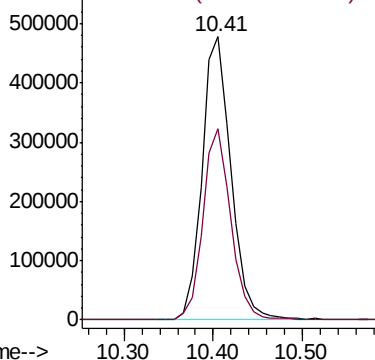
98 100

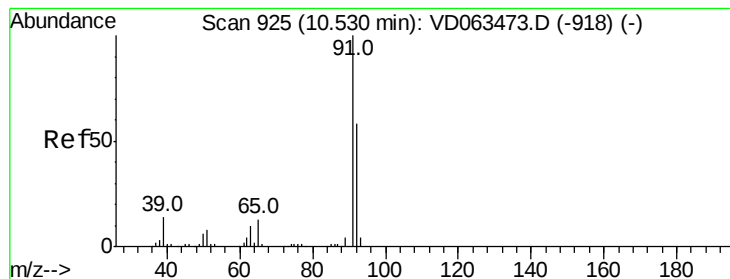
100 67.4 51.7 77.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#52

Toluene

Concen: 1.345 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.03 min

Lab File: VD063608.D

Acq: 15 Aug 2019 16:27

Instrument :

MSVOA_D

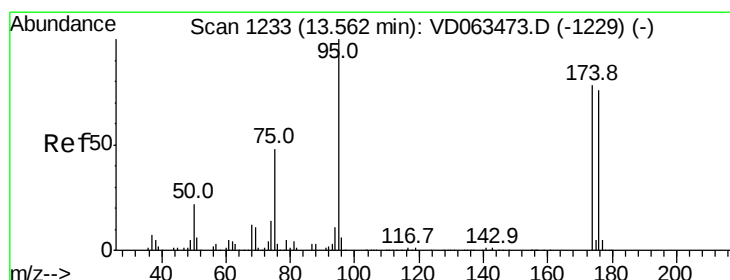
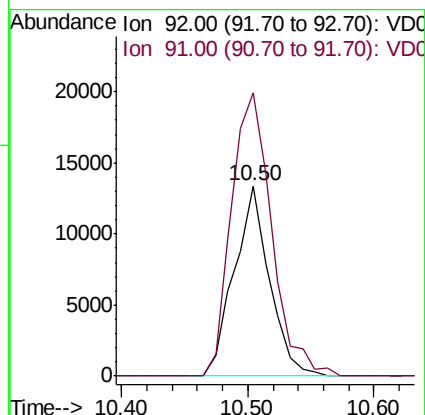
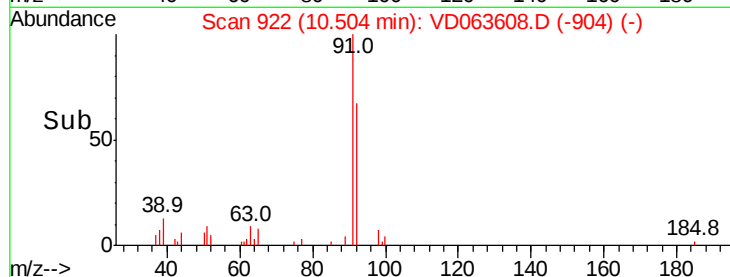
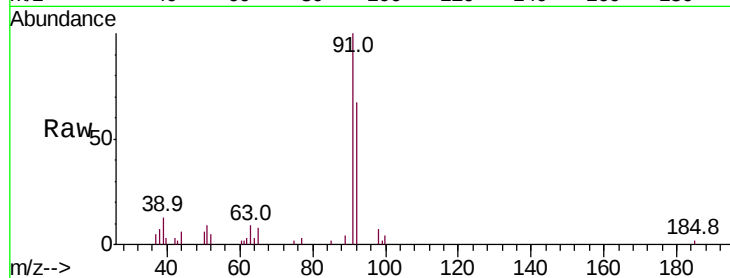
ClientSampleId :

Tot Ion: 92 Resp: 25829

Ion Ratio Lower Upper

92 100

91 149.0 137.9 206.9



#62

4-Bromofluorobenzene

Concen: 33.474 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD063608.D

Acq: 15 Aug 2019 16:27

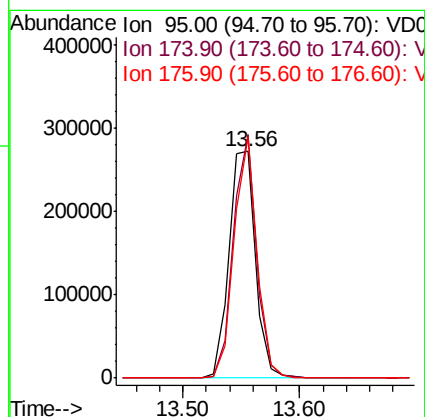
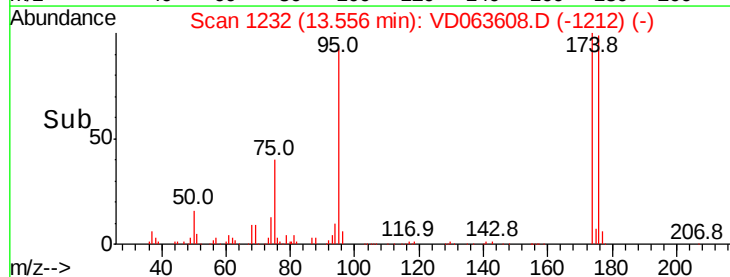
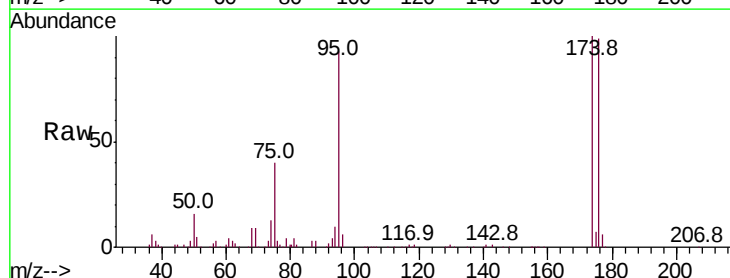
Tgt Ion: 95 Resp: 430490

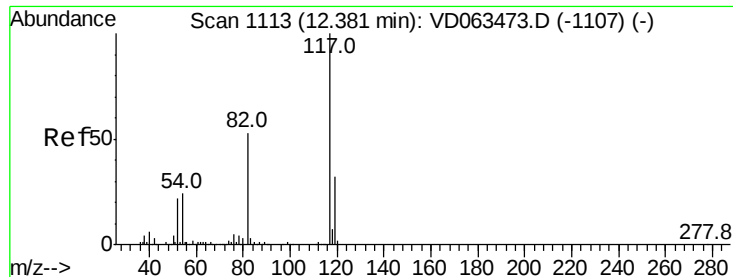
Ion Ratio Lower Upper

95 100

174 107.6 0.0 155.4

176 106.2 0.0 152.4

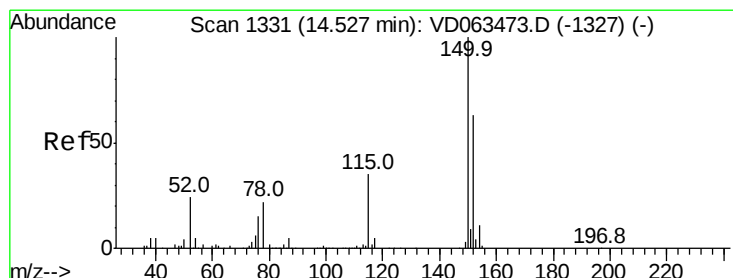
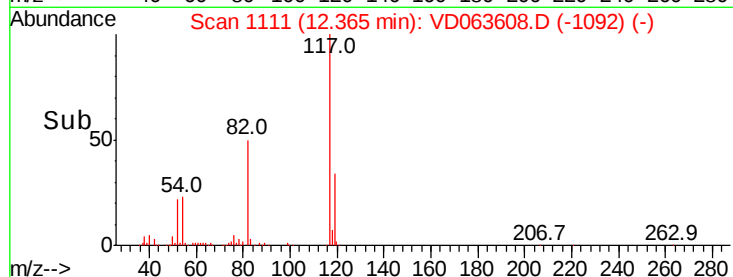
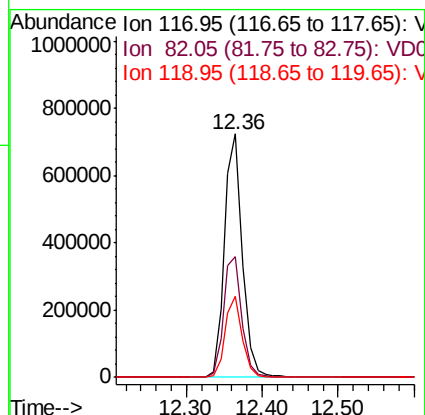
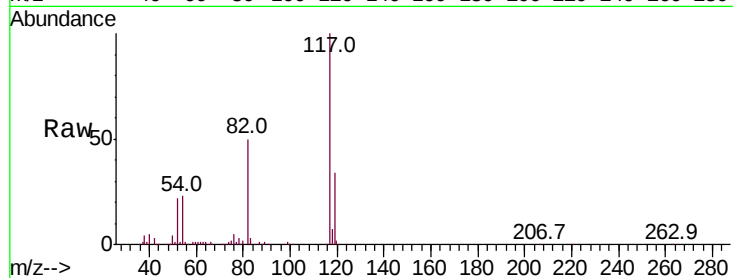




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VD063608.D
Acq: 15 Aug 2019 16:27

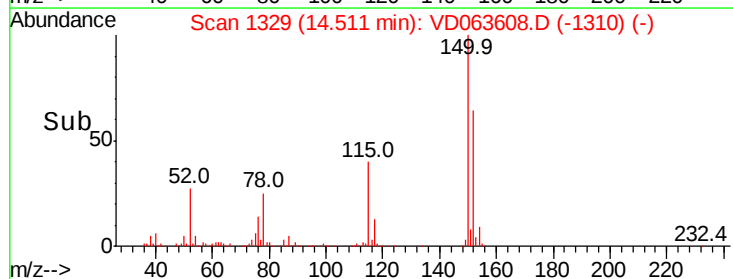
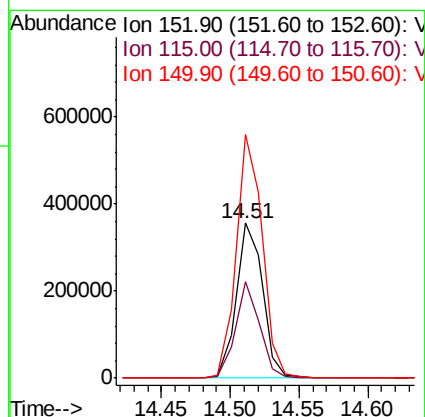
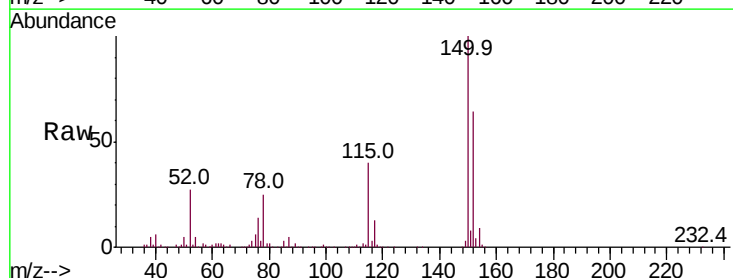
Instrument :
MSVOA_D
ClientSampled :

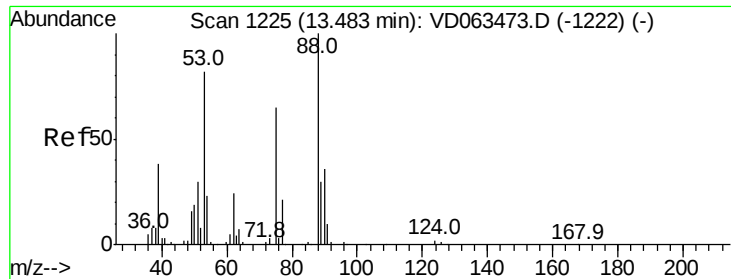
Tot Ion:117 Resp: 1191334
Ion Ratio Lower Upper
117 100
82 49.8 42.0 63.0
119 33.5 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.02 min
Lab File: VD063608.D
Acq: 15 Aug 2019 16:27

Tgt Ion:152 Resp: 473994
Ion Ratio Lower Upper
152 100
115 62.3 30.9 92.7
150 157.1 0.0 318.6





#81

trans-1,4-Dichloro-2-butene

Concen: 129.139 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.06 min

Lab File: VD063608.D

Acq: 15 Aug 2019 16:27

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 188814

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

89 0.0 37.0 55.6#

