

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071919\
 Data File : VD063159.D
 Acq On : 19 Jul 2019 17:42
 Operator : VA/AP
 Sample : K3903-03RE
 Misc : 5.32g/5ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 20 05:01:54 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	7.05	168	816133	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	1125474	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	829335	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	322525	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	336565	33.11	ug/l	0.01
Spiked Amount			Recovery	=	66.22%	
35) Dibromofluoromethane	6.93	113	388155	34.63	ug/l	0.01
Spiked Amount			Recovery	=	69.26%	
50) Toluene-d8	10.41	98	708767	29.43	ug/l	0.01
Spiked Amount			Recovery	=	58.86%	
62) 4-Bromofluorobenzene	13.55	95	270588	24.29	ug/l	0.00
Spiked Amount			Recovery	=	48.58%	

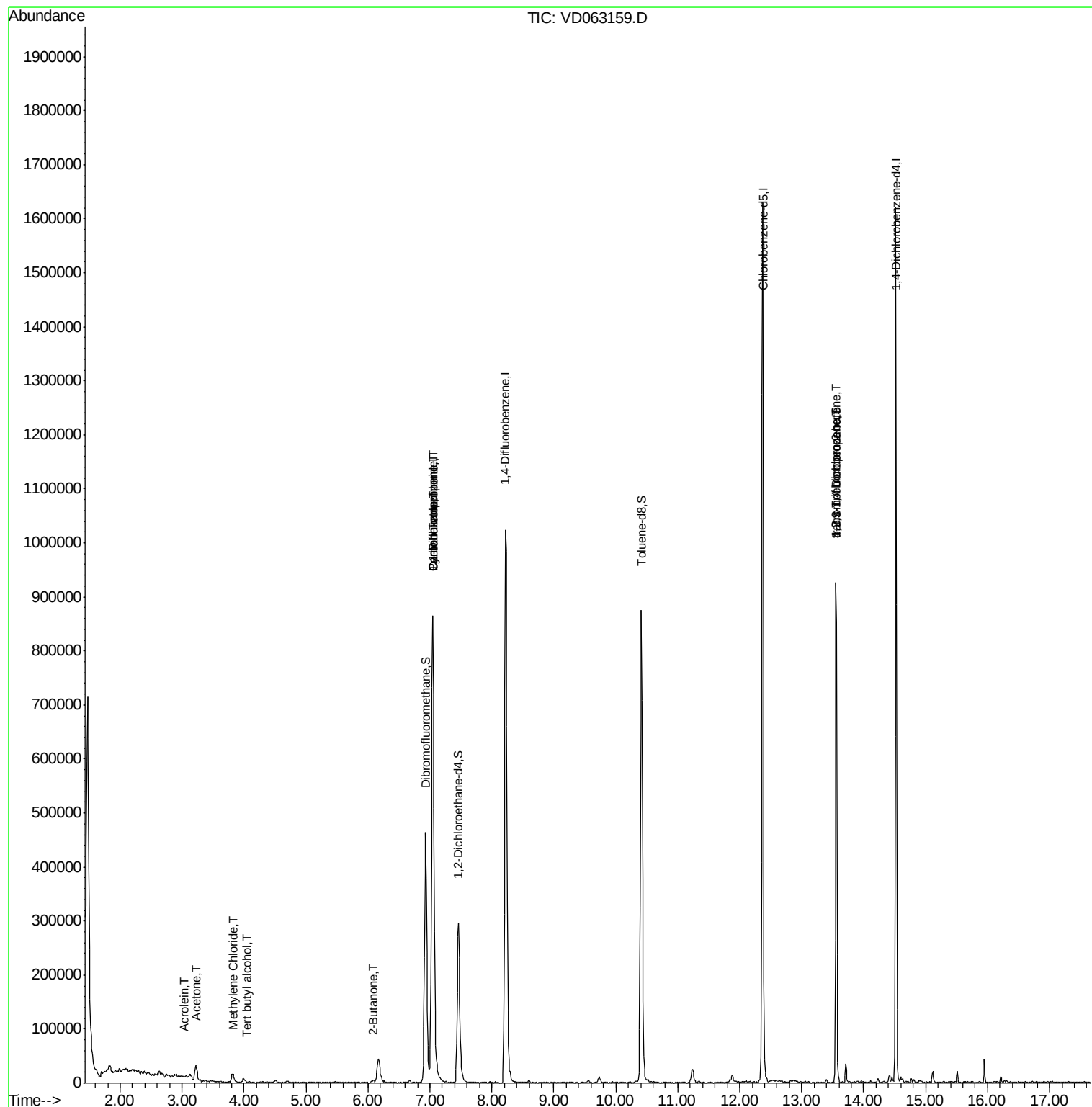
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	777	Below Cal	#	27
3) Chloromethane	1.74	50	216	Below Cal	#	48
5) Bromomethane	2.15	94	1242	Below Cal	#	13
11) Tert butyl alcohol	4.05	59	642	1.094	ug/l #	77
13) Acrolein	3.04	56	472	2.665	ug/l #	14
16) Acetone	3.23	43	59325	24.160	ug/l #	91
18) Methyl Acetate	3.63	43	185	Below Cal	#	63
20) Methylene Chloride	3.83	84	9642	1.039	ug/l #	65
25) 2-Butanone	6.09	43	8192	3.494	ug/l	99
31) Cyclohexane	7.05	56	20007	2.067	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	63625	5.026	ug/l #	49
38) Carbon Tetrachloride	7.05	117	80542	4.187	ug/l #	13
76) 1,2,3-Trichloropropane	13.55	75	113066	22.789	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.55	75	132001	101.033	ug/l #	1

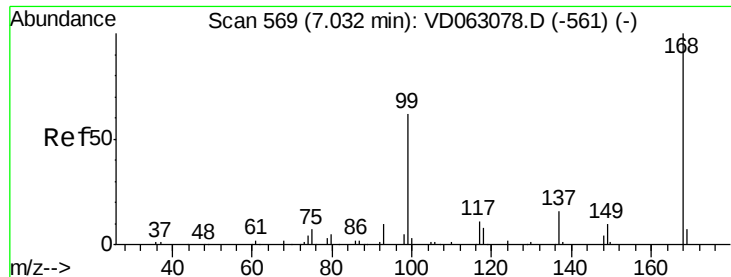
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD063159.D

Acq: 19 Jul 2019 17:42

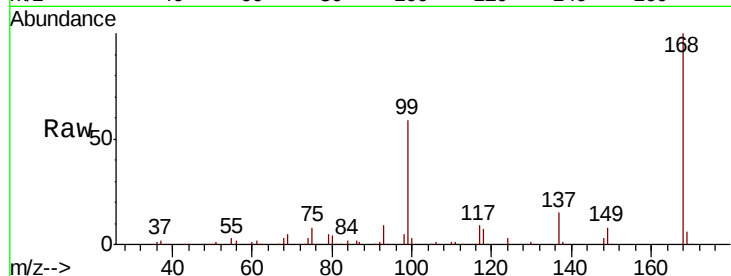
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 816133

Ion Ratio Lower Upper

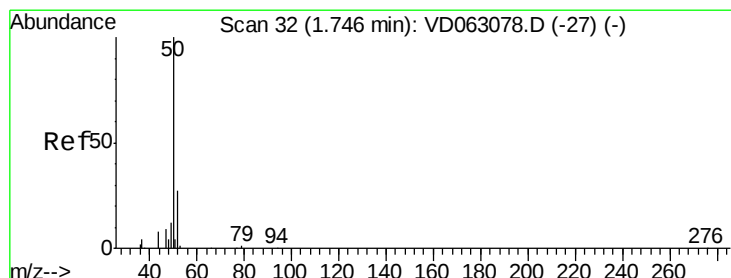
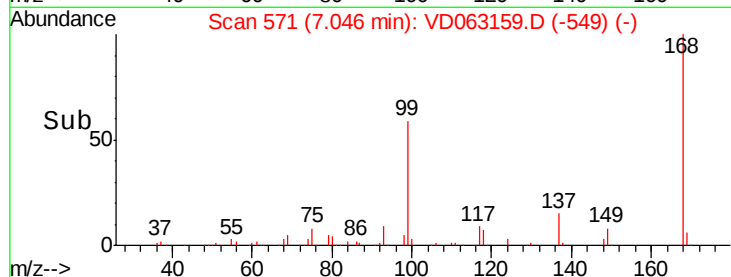
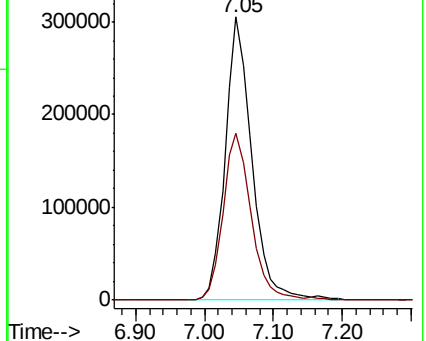
168 100

99 58.8 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: 1.74 min Scan# 32

Delta R.T. -0.01 min

Lab File: VD063159.D

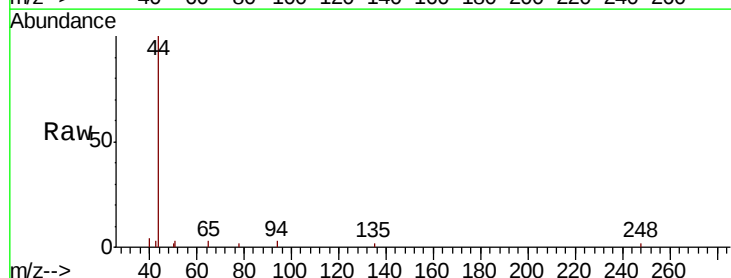
Acq: 19 Jul 2019 17:42

Tgt Ion: 50 Resp: 216

Ion Ratio Lower Upper

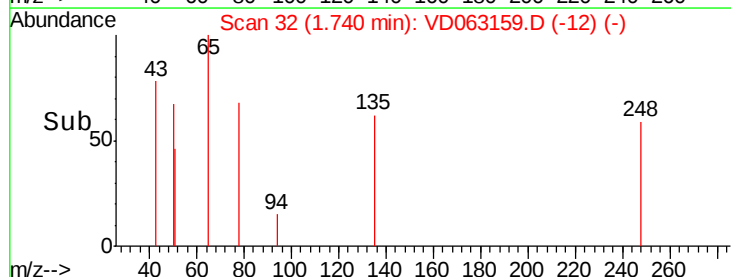
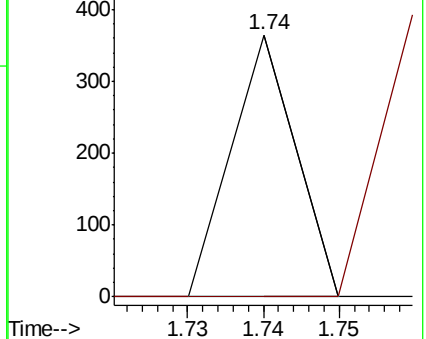
50 100

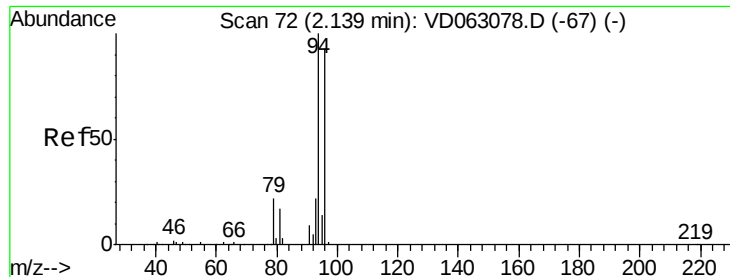
52 0.0 21.4 32.2#



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. 0.01 min

Lab File: VD063159.D

Acq: 19 Jul 2019 17:42

Instrument :

MSVOA_D

ClientSampleId :

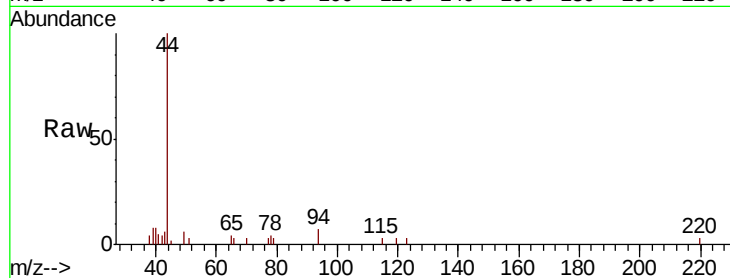
Tot Ion: 94 Resp: 1242

Ion Ratio Lower Upper

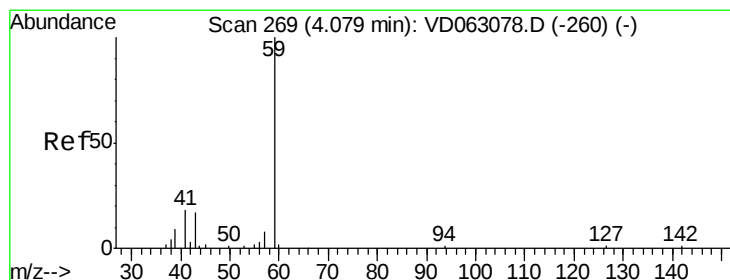
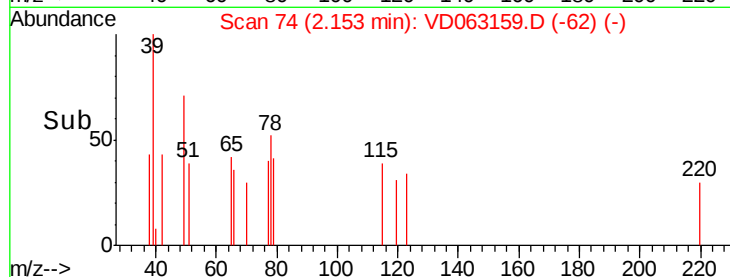
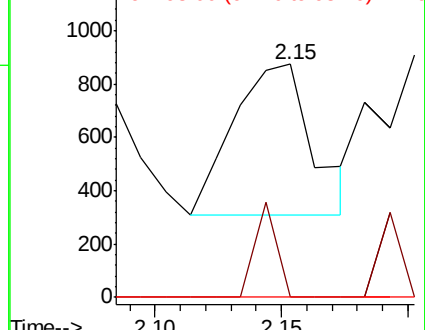
94 100

96 0.0 74.2 111.2#

93 0.0 17.8 26.6#



Abundance Ion 94.00 (93.70 to 94.70): VDC
Ion 96.00 (95.70 to 96.70): VDC
Ion 93.00 (92.70 to 93.70): VDC



#11

Tert butyl alcohol

Concen: 1.094 ug/l

RT: 4.05 min Scan# 267

Delta R.T. -0.03 min

Lab File: VD063159.D

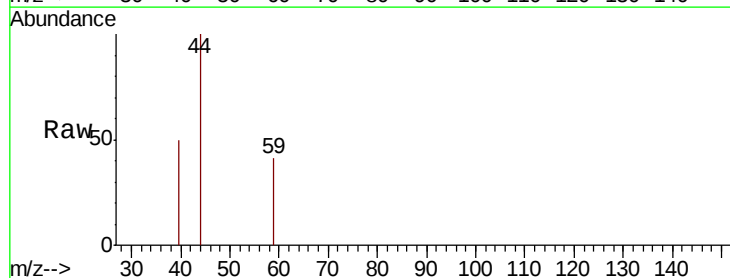
Acq: 19 Jul 2019 17:42

Tgt Ion: 59 Resp: 642

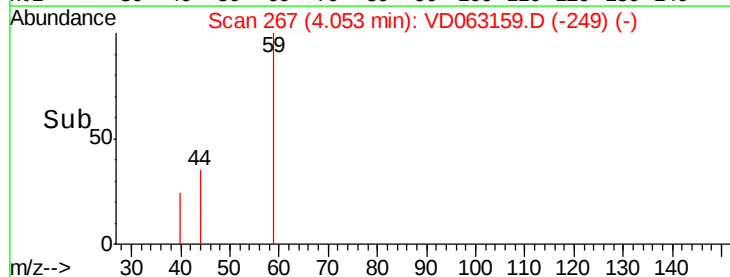
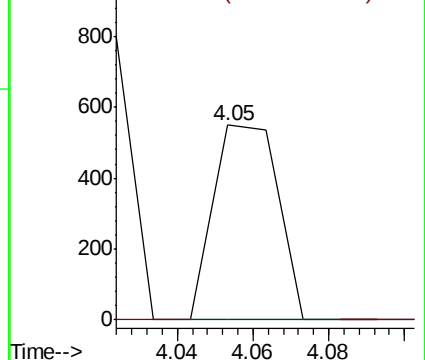
Ion Ratio Lower Upper

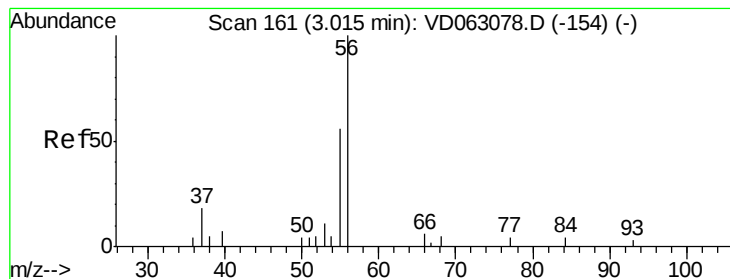
59 100

57 0.0 6.4 9.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 2.665 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.02 min

Lab File: VD063159.D

Acq: 19 Jul 2019 17:42

Instrument :

MSVOA_D

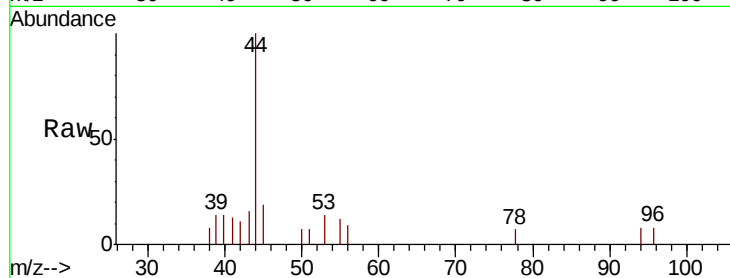
ClientSampleId :

Tot Ion: 56 Resp: 472

Ion Ratio Lower Upper

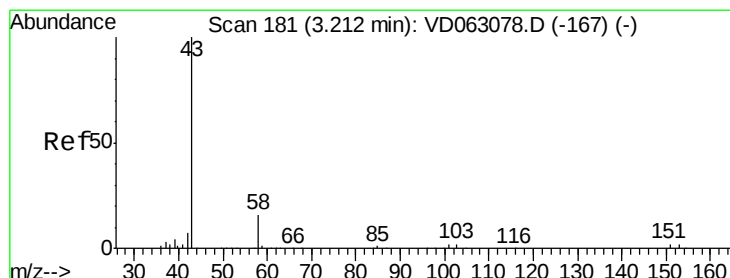
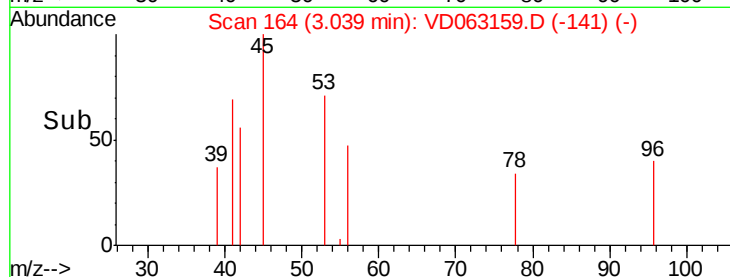
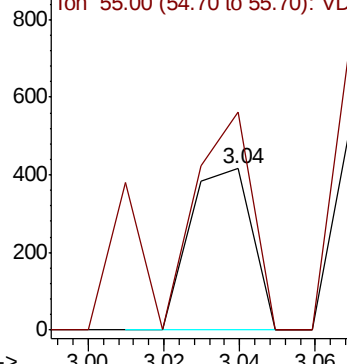
56 100

55 134.9 53.0 79.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 24.160 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063159.D

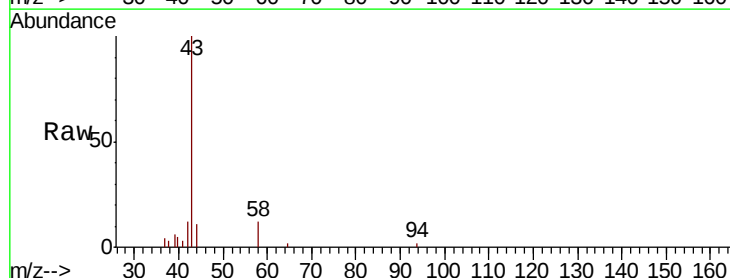
Acq: 19 Jul 2019 17:42

Tgt Ion: 43 Resp: 59325

Ion Ratio Lower Upper

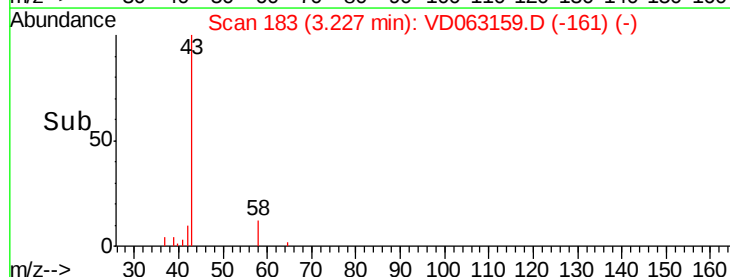
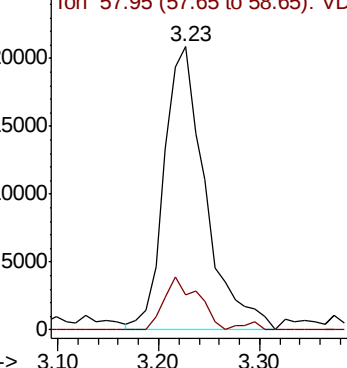
43 100

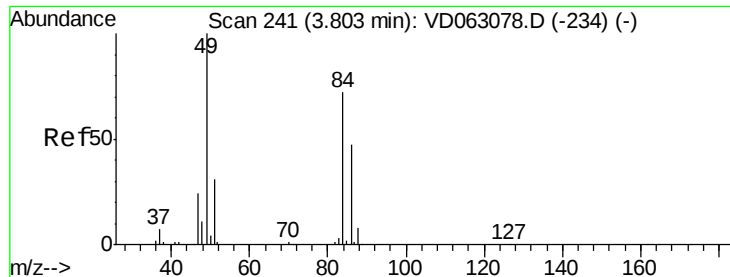
58 12.4 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

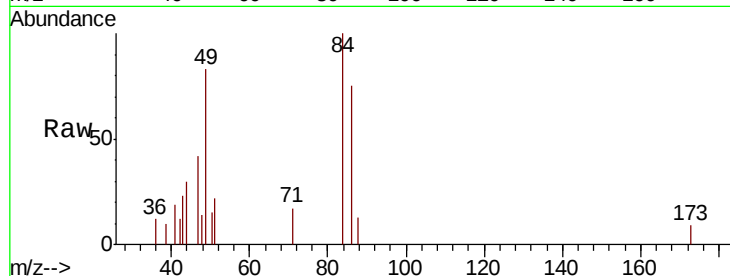




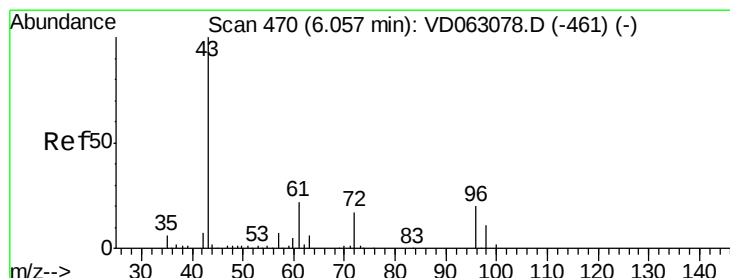
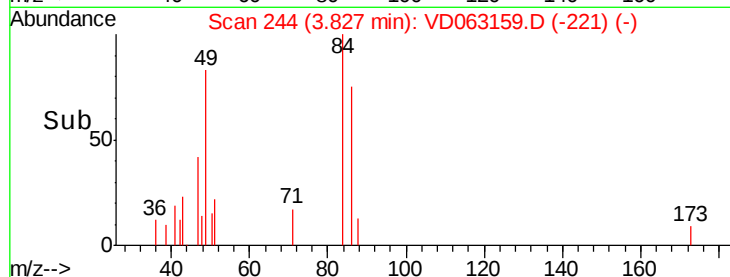
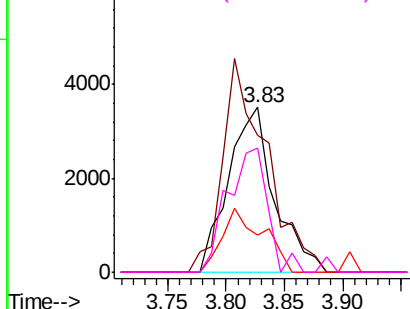
#20
Methvlene Chloride
Concen: 1.039 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.02 min
Lab File: VD063159.D
Acq: 19 Jul 2019 17:42

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 9642
Ion Ratio Lower Upper
84 100
49 82.9 110.5 165.7#
51 22.2 34.6 51.8#
86 75.0 51.6 77.4

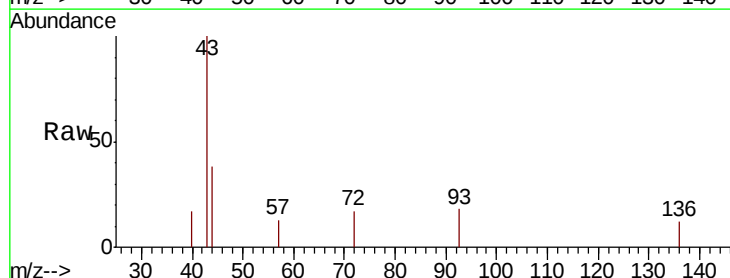


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

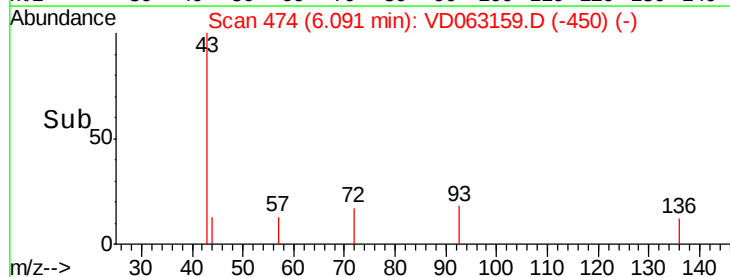
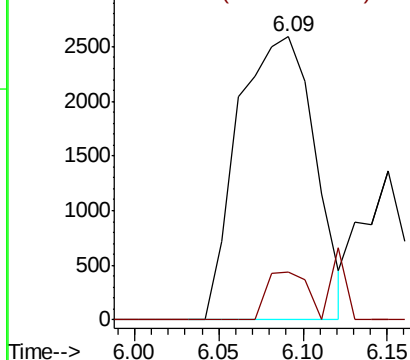


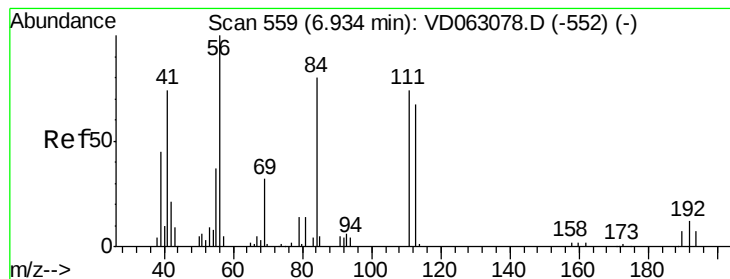
#25
2-Butanone
Concen: 3.494 ug/l
RT: 6.09 min Scan# 474
Delta R.T. 0.03 min
Lab File: VD063159.D
Acq: 19 Jul 2019 17:42

Tgt Ion: 43 Resp: 8192
Ion Ratio Lower Upper
43 100
72 17.1 13.4 20.0



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC





#31

Cyclohexane

Concen: 2.067 ug/l

RT: 7.05 min Scan# 571

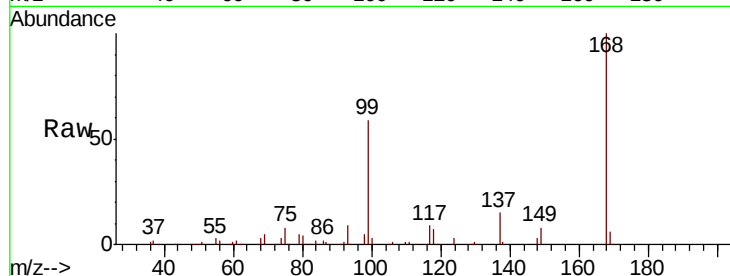
Delta R.T. 0.11 min

Lab File: VD063159.D

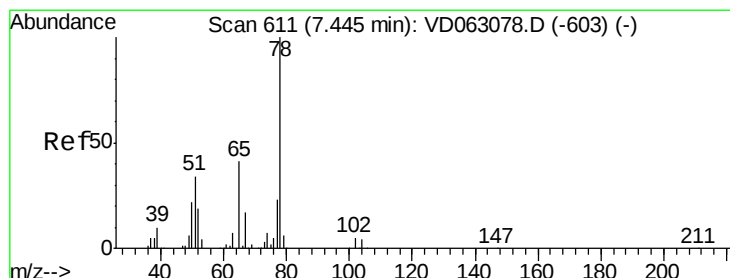
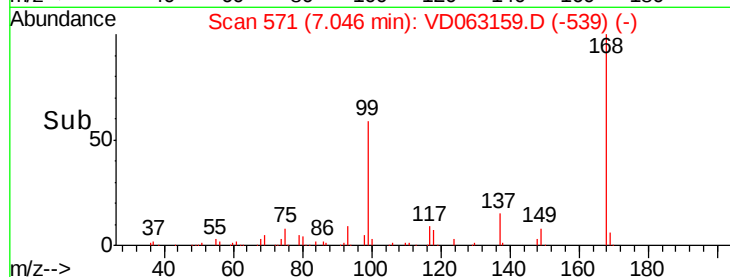
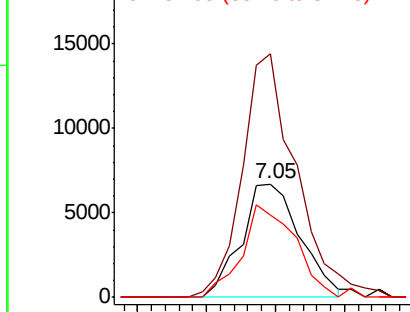
Acq: 19 Jul 2019 17:42

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion:	56	Resp:	20007
Ion	Ratio	Lower	Upper
56	100		
69	215.2	25.3	37.9#
84	73.3	64.2	96.4



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: 33.105 ug/l

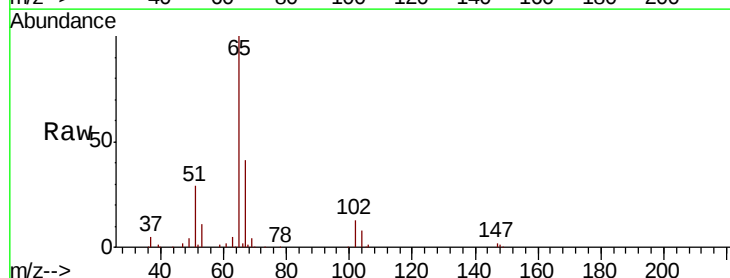
RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

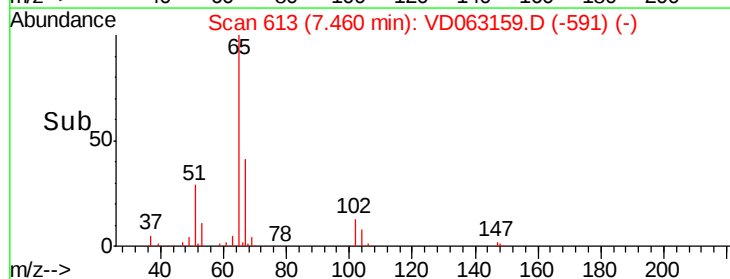
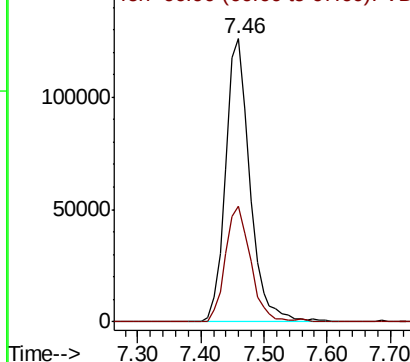
Lab File: VD063159.D

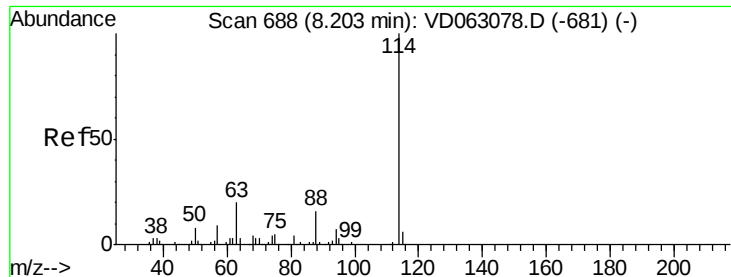
Acq: 19 Jul 2019 17:42

Tgt Ion:	65	Resp:	336565
Ion	Ratio	Lower	Upper
65	100		
67	41.1	0.0	86.0



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: 8.22 min Scan# 690

Delta R.T. 0.01 min

Lab File: VD063159.D

Acq: 19 Jul 2019 17:42

Instrument :

MSVOA_D

ClientSampleId :

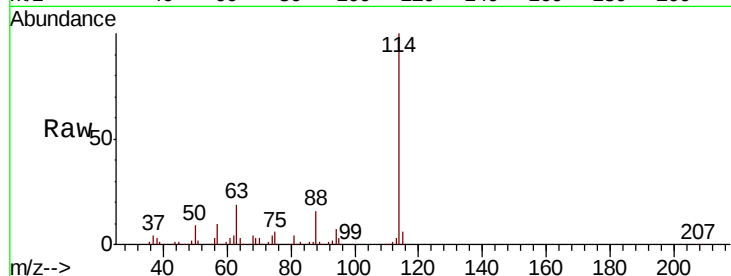
Tot Ion:114 Resp: 1125474

Ion Ratio Lower Upper

114 100

63 19.2 0.0 40.6

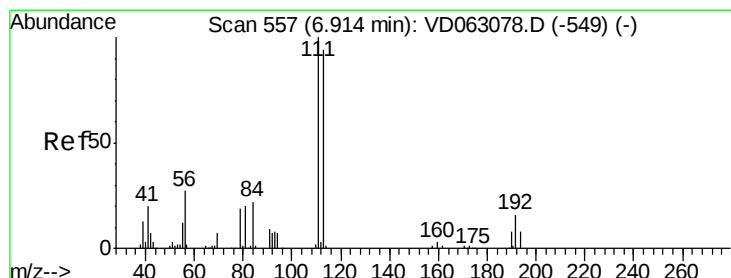
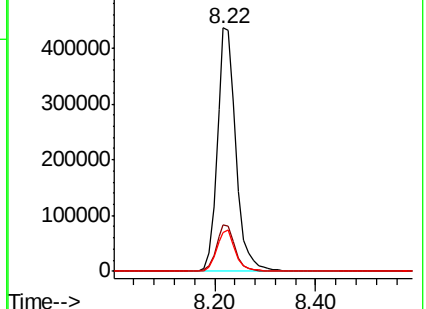
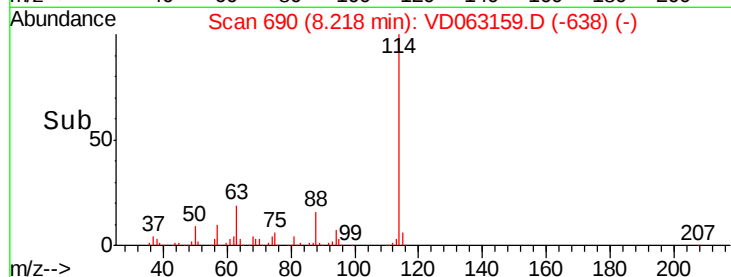
88 16.1 0.0 32.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 34.626 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD063159.D

Acq: 19 Jul 2019 17:42

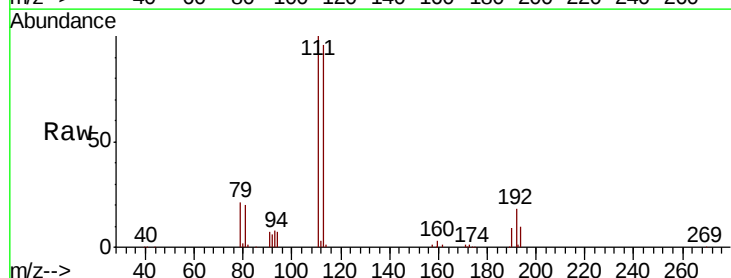
Tgt Ion:113 Resp: 388155

Ion Ratio Lower Upper

113 100

111 104.0 84.8 127.2

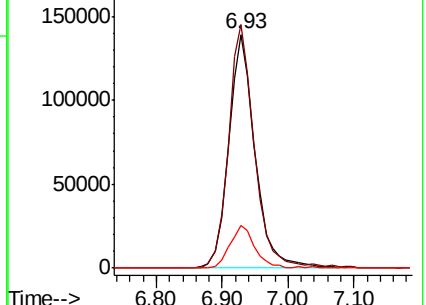
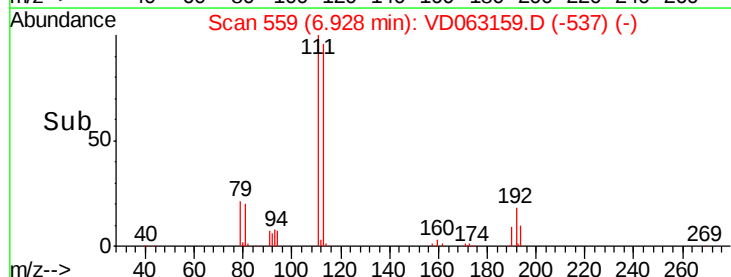
192 18.3 13.4 20.0

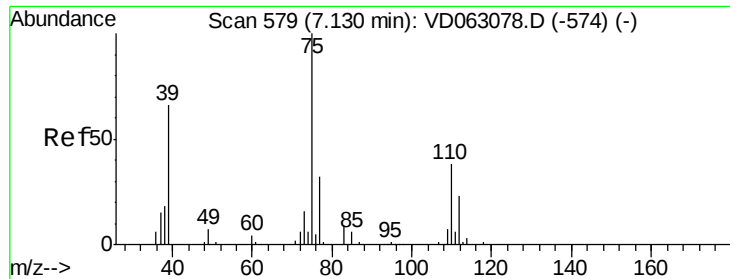


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.026 ug/l

RT: 7.05 min Scan# 571

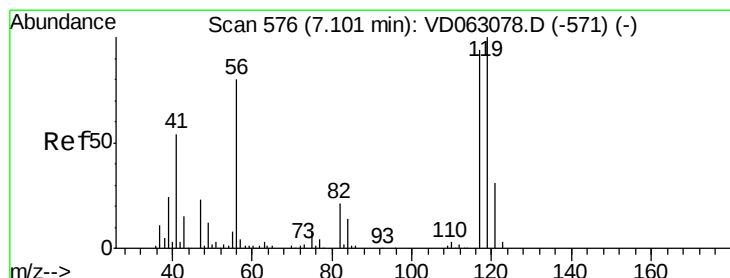
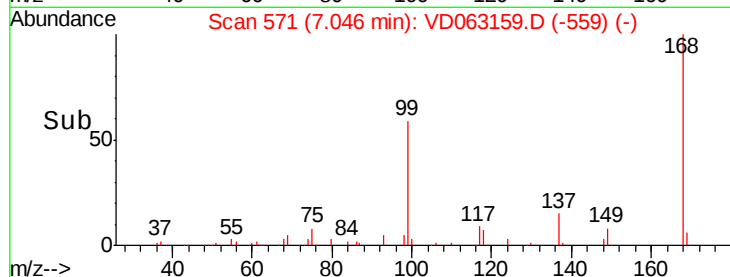
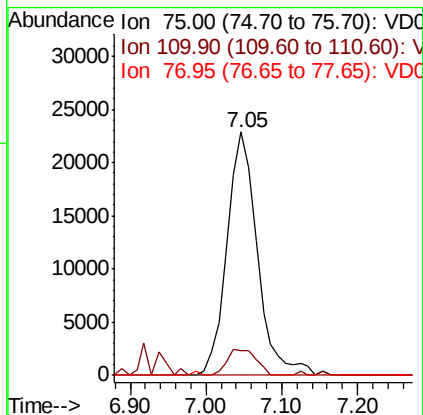
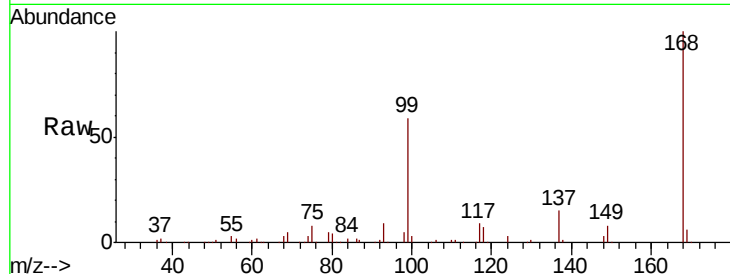
Delta R.T. -0.08 min

Lab File: VD063159.D

Acq: 19 Jul 2019 17:42

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:	75	Resp:	63625
Ion	Ratio	Lower	Upper
75	100		
110	10.2	18.9	56.5#
77	0.0	25.2	37.8#



#38

Carbon Tetrachloride

Concen: 4.187 ug/l

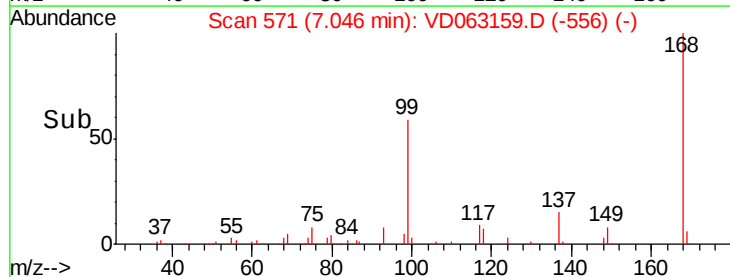
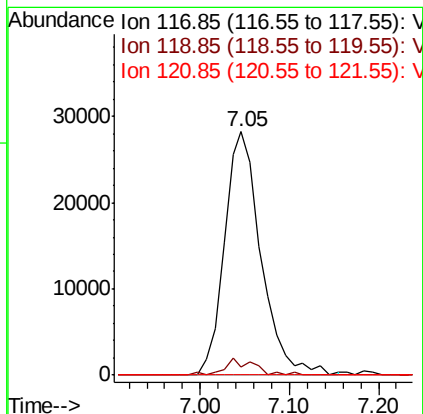
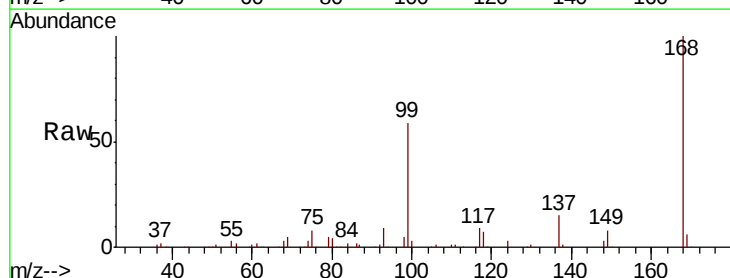
RT: 7.05 min Scan# 571

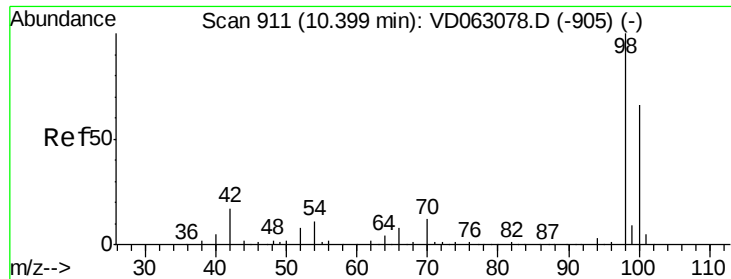
Delta R.T. -0.05 min

Lab File: VD063159.D

Acq: 19 Jul 2019 17:42

Tgt Ion:	117	Resp:	80542
Ion	Ratio	Lower	Upper
117	100		
119	3.2	80.0	120.0#
121	0.0	25.0	37.4#

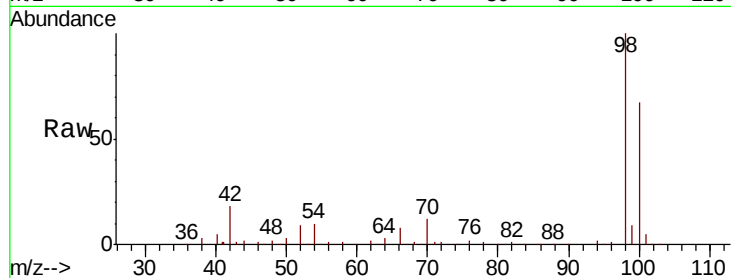




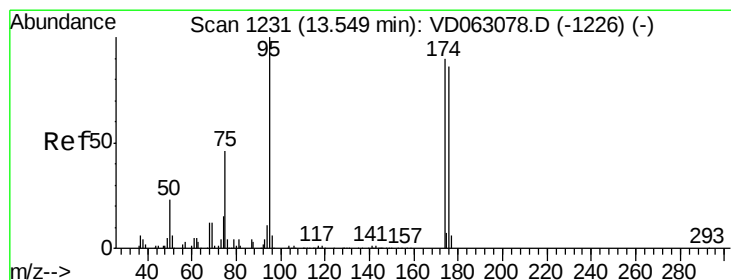
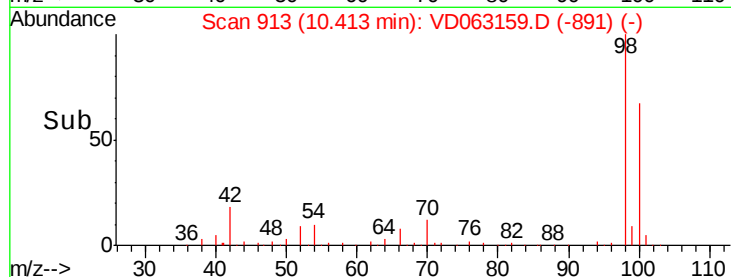
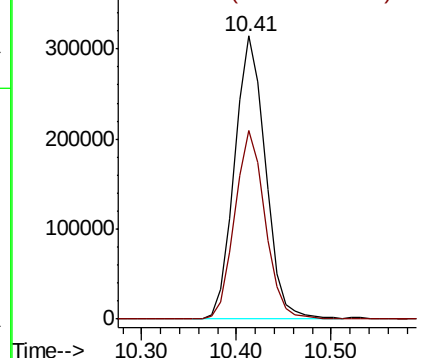
#50
Toluene-d8
Concen: 29.435 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD063159.D
Acq: 19 Jul 2019 17:42

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 708767
Ion Ratio Lower Upper
98 100
100 66.8 53.5 80.3

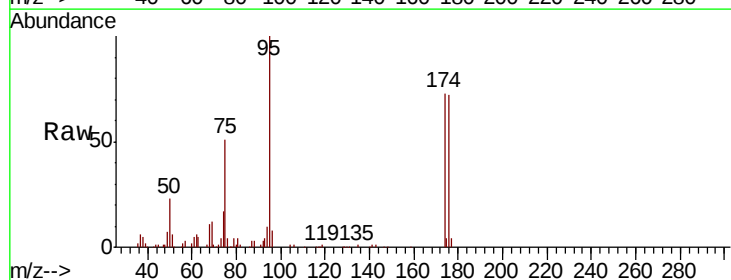


Abundance Ion 98.05 (97.75 to 98.75): VD0
Ion 100.05 (99.75 to 100.75): VD

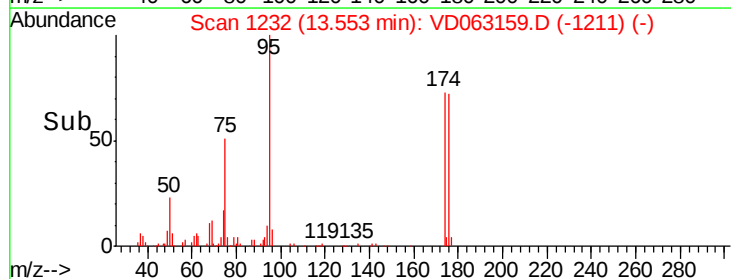
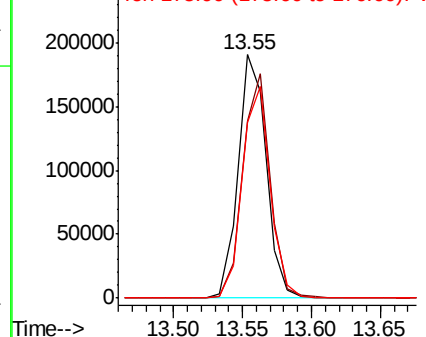


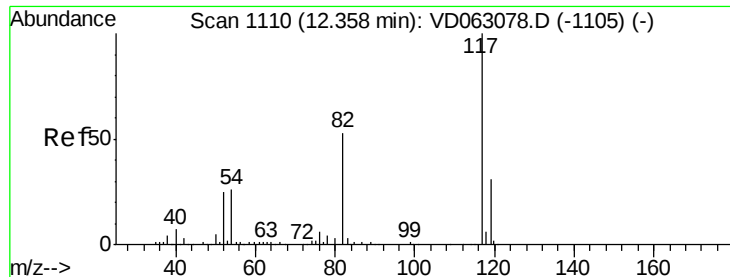
#62
4-Bromofluorobenzene
Concen: 24.290 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD063159.D
Acq: 19 Jul 2019 17:42

Tgt Ion: 95 Resp: 270588
Ion Ratio Lower Upper
95 100
174 73.0 0.0 180.6
176 71.9 0.0 172.2



Abundance Ion 95.00 (94.70 to 95.70): VD0
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

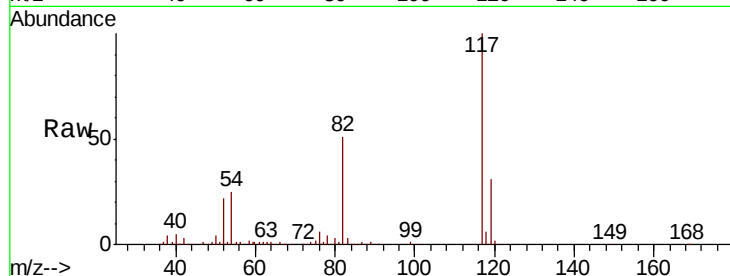




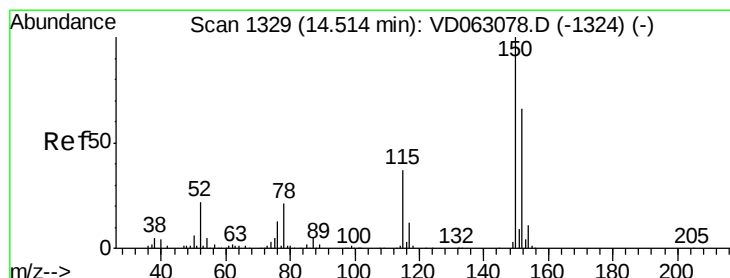
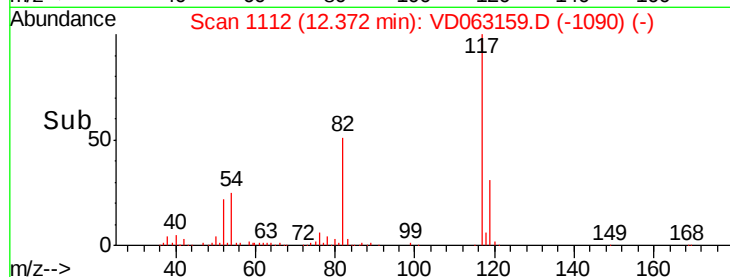
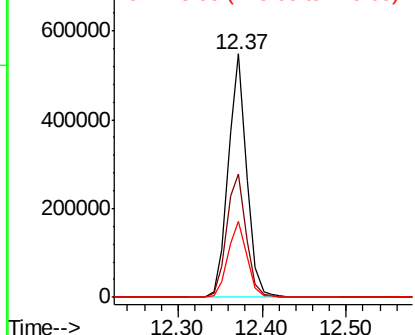
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063159.D
Acq: 19 Jul 2019 17:42

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 829335
Ion Ratio Lower Upper
117 100
82 50.6 42.3 63.5
119 31.1 25.2 37.8

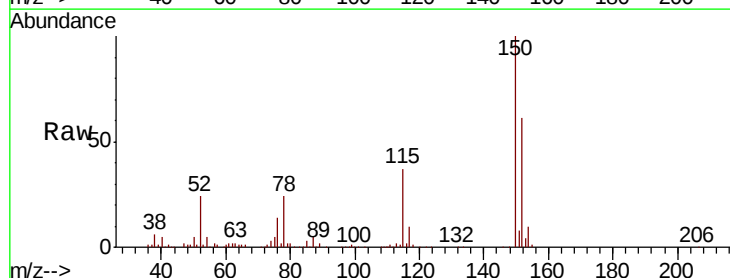


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

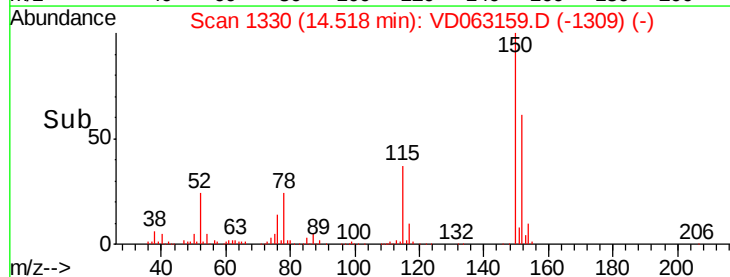
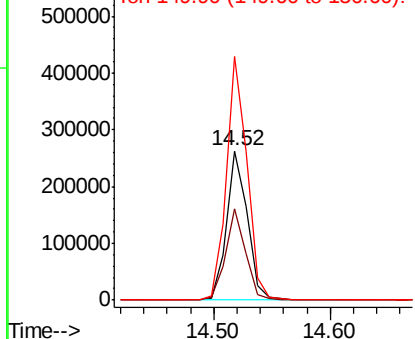


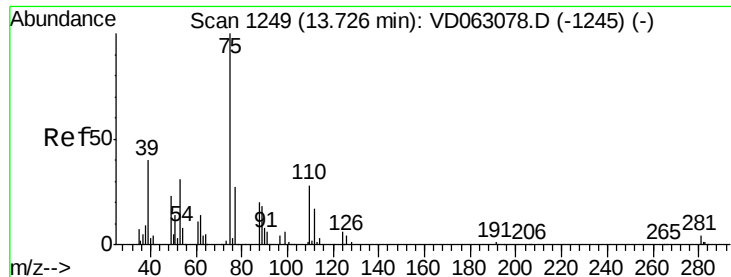
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD063159.D
Acq: 19 Jul 2019 17:42

Tgt Ion:152 Resp: 322525
Ion Ratio Lower Upper
152 100
115 60.8 28.9 86.8
150 162.9 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

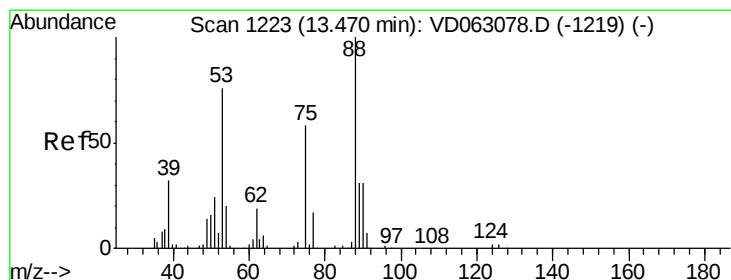
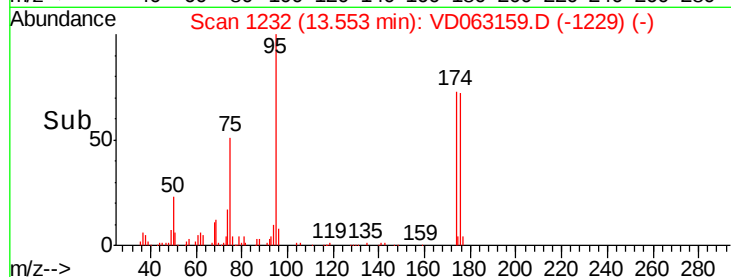
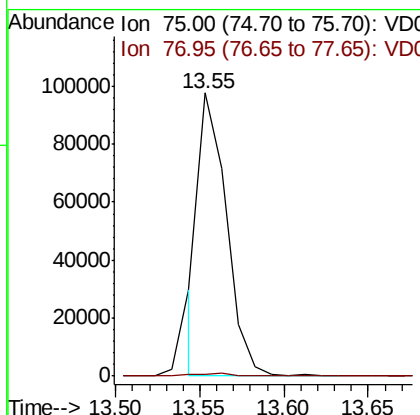
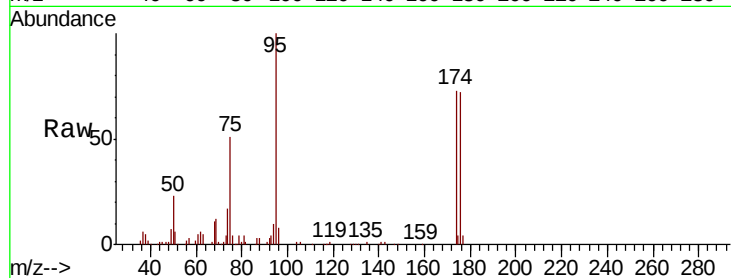




#76
 1,2,3-Trichloropropane
 Concen: 22.789 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. -0.17 min
 Lab File: VD063159.D
 Acq: 19 Jul 2019 17:42

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion: 75 Resp: 113066
 Ion Ratio Lower Upper
 75 100
 77 1.3 16.3 48.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 101.033 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.08 min
 Lab File: VD063159.D
 Acq: 19 Jul 2019 17:42

Tgt Ion: 75 Resp: 132001
 Ion Ratio Lower Upper
 75 100
 53 0.0 104.4 156.6#
 89 0.0 43.1 64.7#

