

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD121319\
 Data File : VD064511.D
 Acq On : 13 Dec 2019 17:19
 Operator : VA/SY
 Sample : K6267-01
 Misc : 2.70G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WO-3

Quant Time: Dec 13 22:53:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	146429	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	228741	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	237819	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	127123	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	89251	67.34	ug/l	0.00
Spiked Amount			Recovery	=	134.68%	
35) Dibromofluoromethane	7.92	113	76239	52.90	ug/l	0.00
Spiked Amount			Recovery	=	105.80%	
50) Toluene-d8	10.34	98	277595	51.13	ug/l	0.00
Spiked Amount			Recovery	=	102.26%	
62) 4-Bromofluorobenzene	12.64	95	112746	64.62	ug/l	0.00
Spiked Amount			Recovery	=	129.24%	

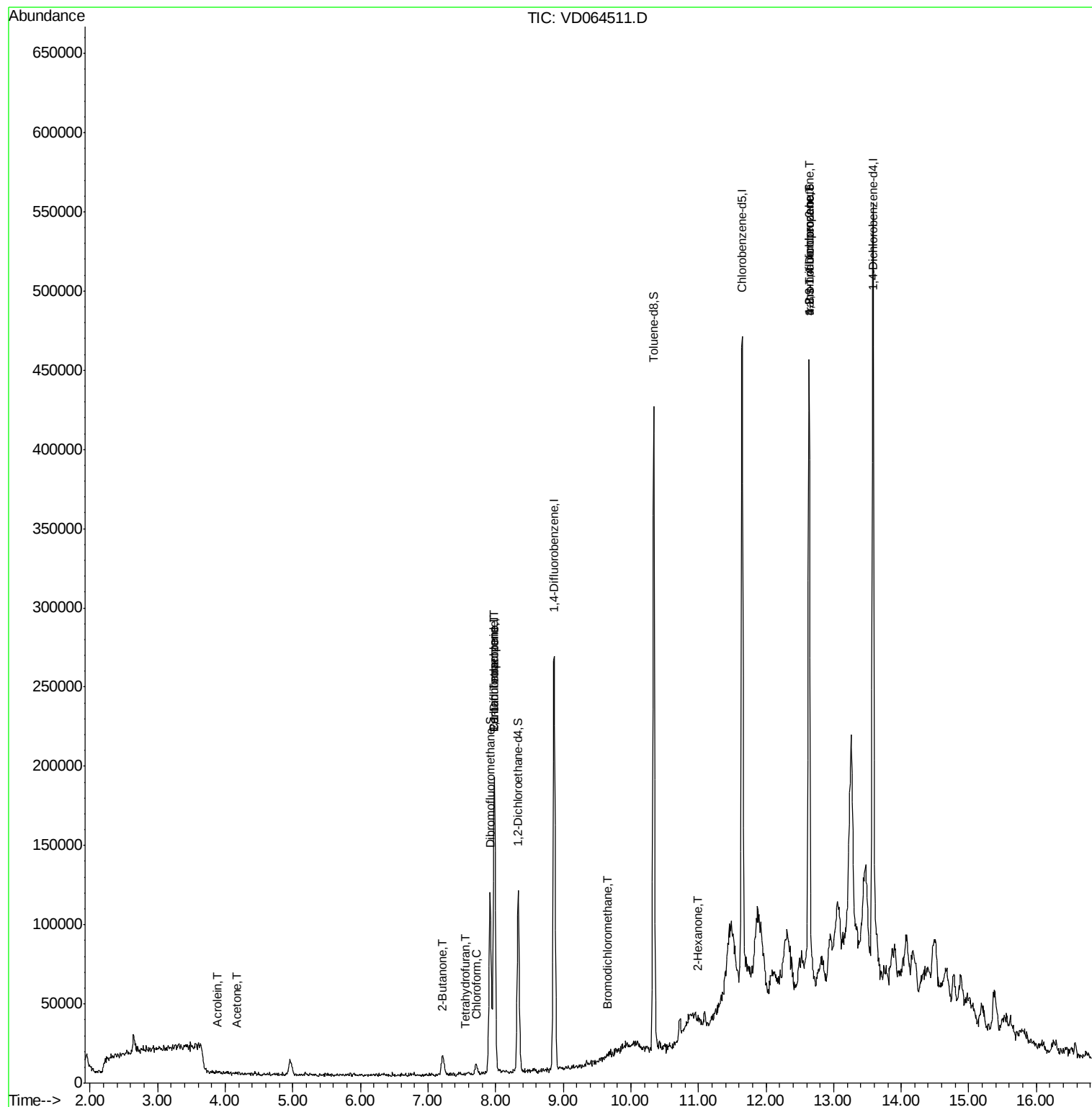
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.89	56	126	1.095	ug/l	86
16) Acetone	4.17	43	2206	8.236	ug/l #	47
25) 2-Butanone	7.21	43	739	1.951	ug/l #	49
29) Tetrahydrofuran	7.56	42	363	1.506	ug/l #	74
30) Chloroform	7.71	83	5187	2.048	ug/l	93
31) Cyclohexane	7.98	56	3234	Below Cal	#	56
36) 1,1-Dichloropropene	7.98	75	10156	4.694	ug/l #	44
38) Carbon Tetrachloride	7.98	117	13920	6.096	ug/l #	18
47) Bromodichloromethane	9.66	83	2179	1.046	ug/l #	73
59) 2-Hexanone	10.98	43	962	1.552	ug/l	70
76) 1,2,3-Trichloropropane	12.64	75	57707	55.200	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	57707	120.365	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.67	75	269	Below Cal		92

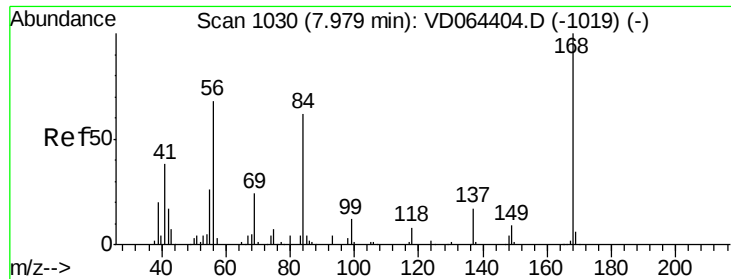
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD121319\
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD064511.D

Acq: 13 Dec 2019 17:19

Instrument :

MSVOA_D

ClientSampleId :

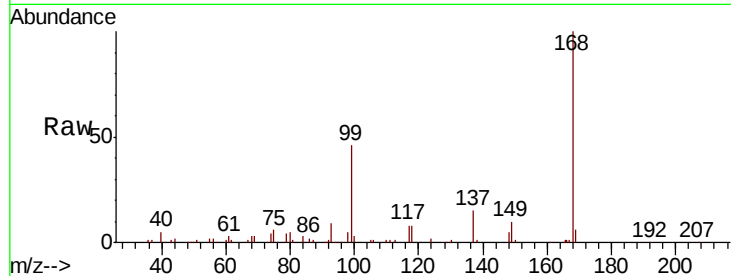
WO-3

Tgt Ion:168 Resp: 146429

Ion Ratio Lower Upper

168 100

99 45.5 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

60000

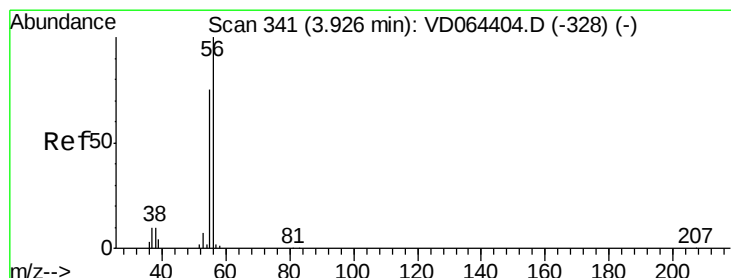
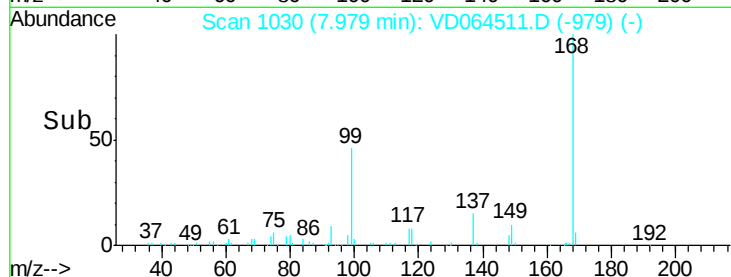
40000

20000

0

7.90 8.00 8.10

Time-->



#13

Acrolein

Concen: 1.095 ug/l

RT: 3.89 min Scan# 335

Delta R.T. -0.04 min

Lab File: VD064511.D

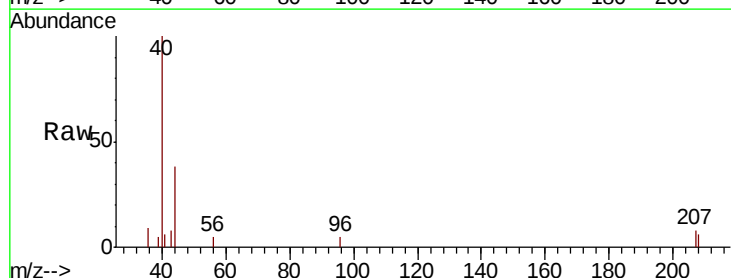
Acq: 13 Dec 2019 17:19

Tgt Ion: 56 Resp: 126

Ion Ratio Lower Upper

56 100

55 59.5 56.9 85.3



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.89

250

200

150

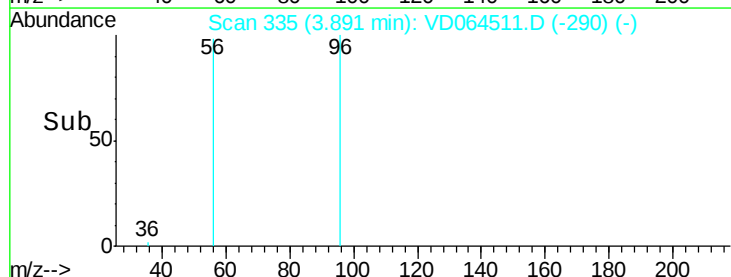
100

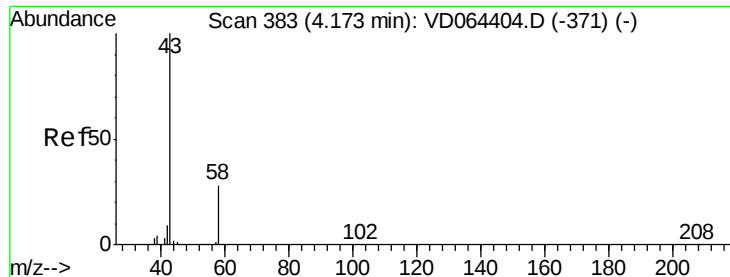
50

0

3.86 3.88 3.90

Time-->





#16

Acetone

Concen: 8.236 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.01 min

Lab File: VD064511.D

Acq: 13 Dec 2019 17:19

Instrument :

MSVOA_D

ClientSampled :

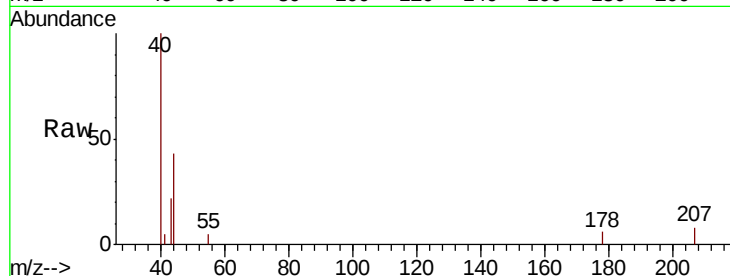
WO-3

Tgt Ion: 43 Resp: 2206

Ion Ratio Lower Upper

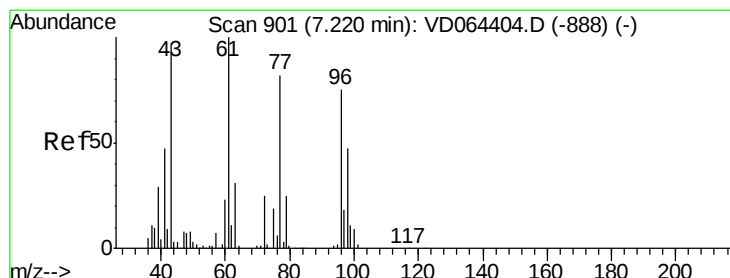
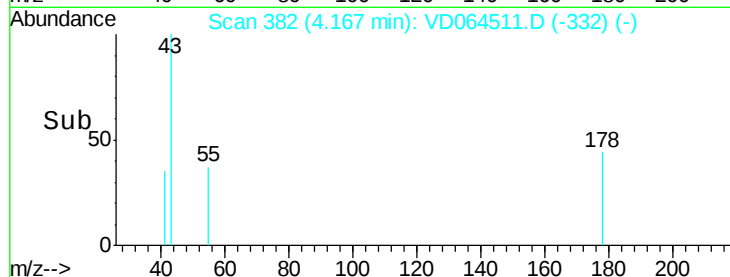
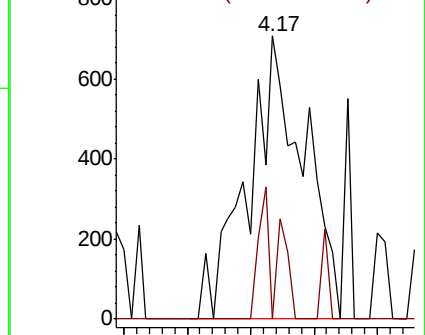
43 100

58 0.0 22.6 33.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#25

2-Butanone

Concen: 1.951 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.01 min

Lab File: VD064511.D

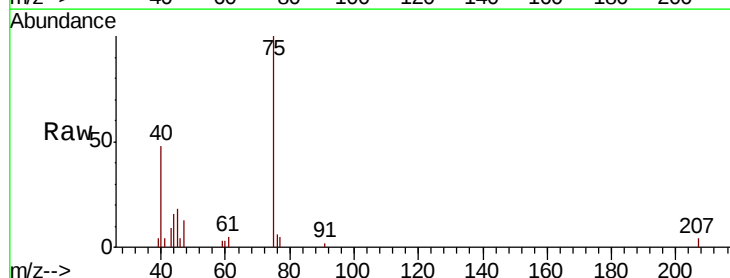
Acq: 13 Dec 2019 17:19

Tgt Ion: 43 Resp: 739

Ion Ratio Lower Upper

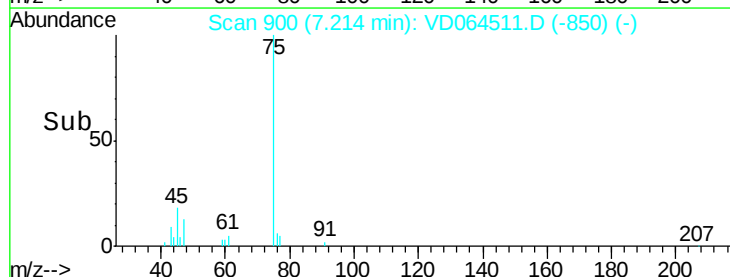
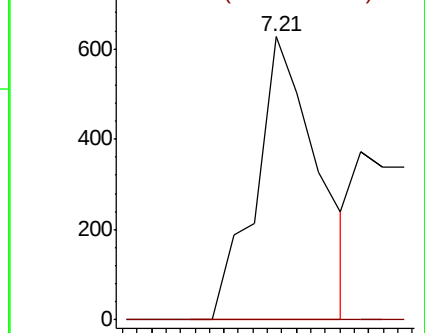
43 100

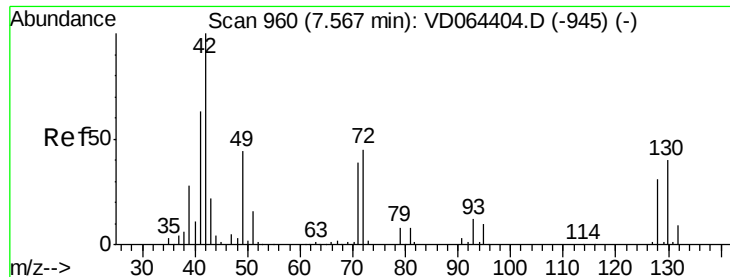
72 0.0 21.0 31.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC





#29

Tetrahydrofuran

Concen: 1.506 ug/l

RT: 7.56 min Scan# 959

Delta R.T. -0.01 min

Lab File: VD064511.D

Acq: 13 Dec 2019 17:19

Instrument :

MSVOA_D

ClientSampleId :

WO-3

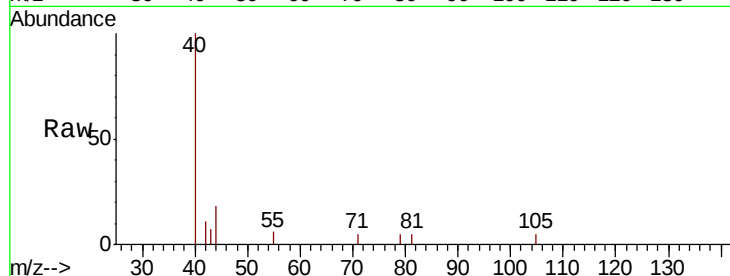
Tgt Ion: 42 Resp: 363

Ion Ratio Lower Upper

42 100

72 17.1 35.8 53.8#

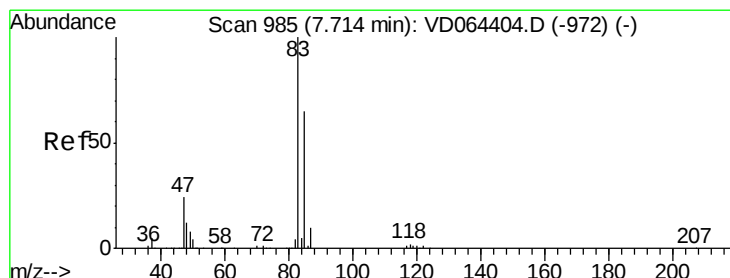
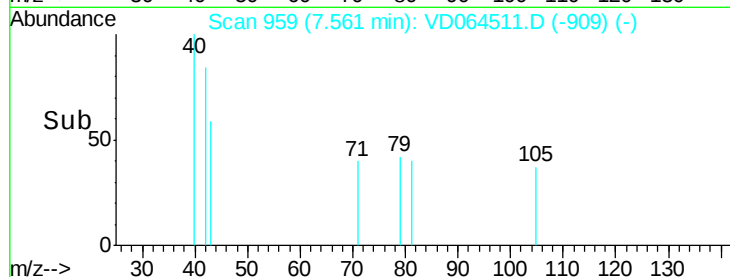
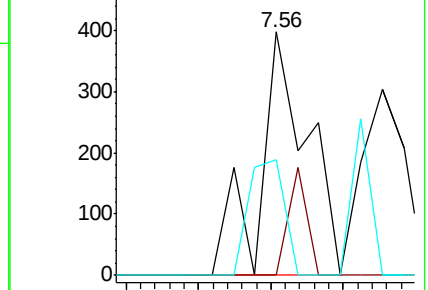
71 35.5 32.7 49.1



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



#30

Chloroform

Concen: 2.048 ug/l

RT: 7.71 min Scan# 985

Delta R.T. 0.00 min

Lab File: VD064511.D

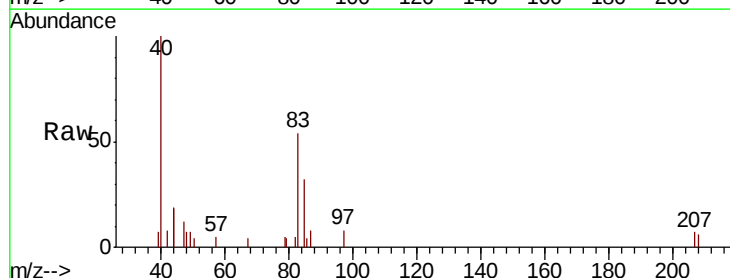
Acq: 13 Dec 2019 17:19

Tgt Ion: 83 Resp: 5187

Ion Ratio Lower Upper

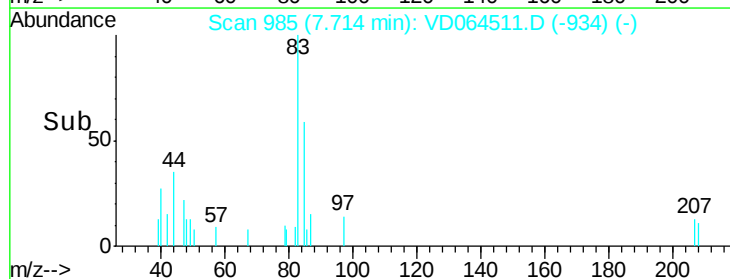
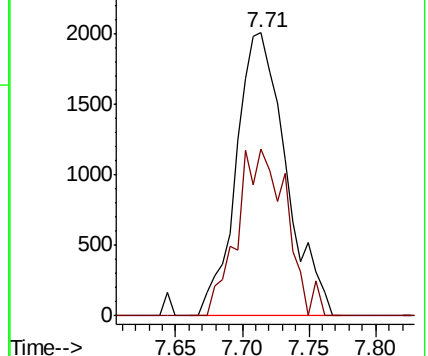
83 100

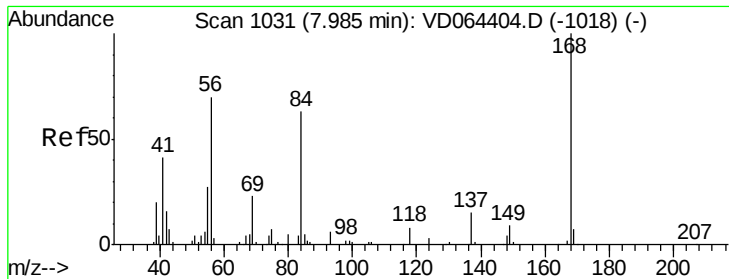
85 59.2 51.8 77.6



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

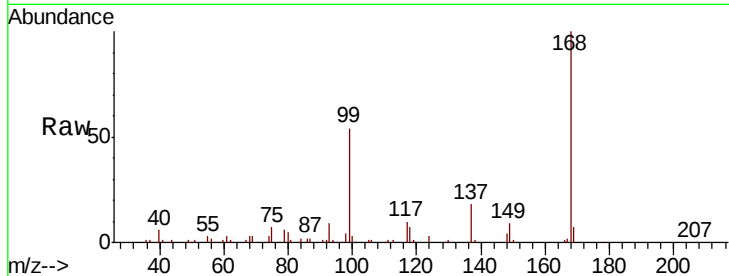




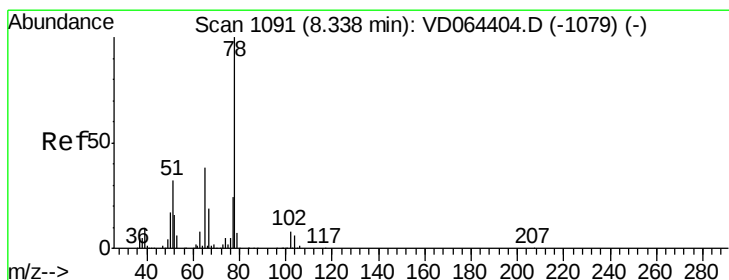
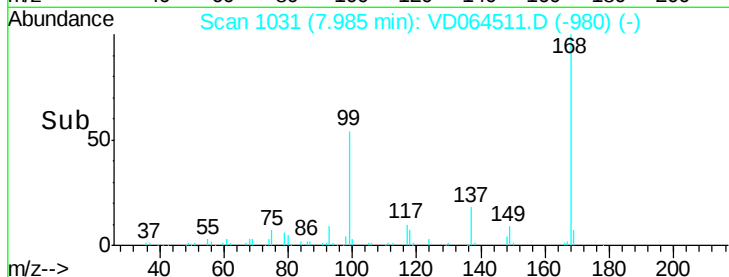
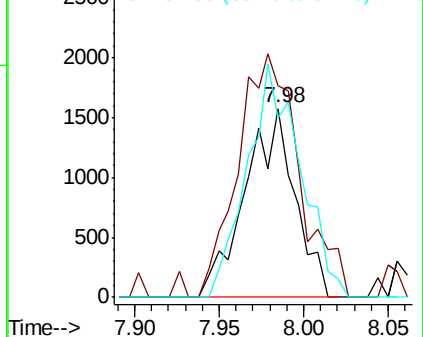
#31
Cyclohexane
Concen: Below Cal
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064511.D
Acq: 13 Dec 2019 17:19

Instrument :
MSVOA_D
ClientSampleId :
WO-3

Tgt Ion: 56 Resp: 3234
Ion Ratio Lower Upper
56 100
69 111.7 26.2 39.4#
84 95.2 70.3 105.5

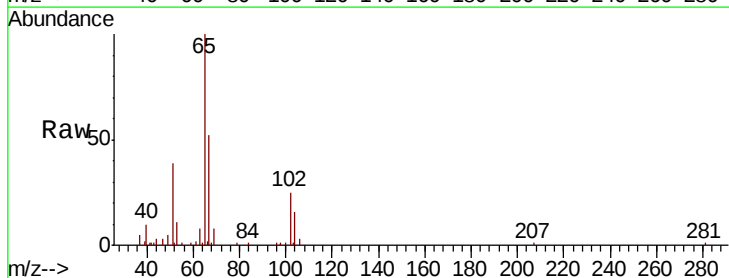


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

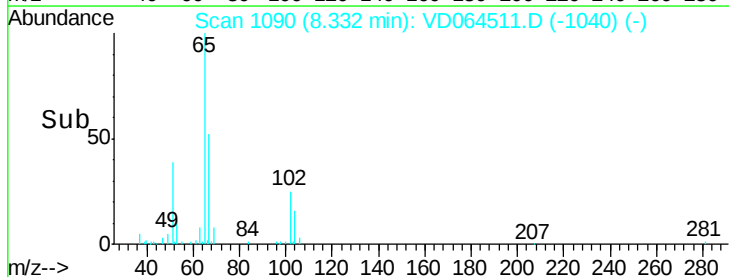
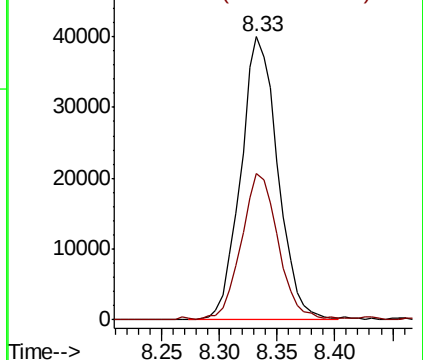


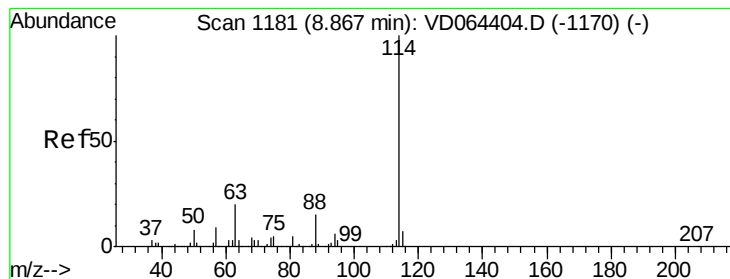
#33
1,2-Dichloroethane-d4
Concen: 67.339 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.01 min
Lab File: VD064511.D
Acq: 13 Dec 2019 17:19

Tgt Ion: 65 Resp: 89251
Ion Ratio Lower Upper
65 100
67 51.7 0.0 102.0



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.01 min

Lab File: VD064511.D

Acq: 13 Dec 2019 17:19

Instrument :

MSVOA_D

ClientSampleId :

WO-3

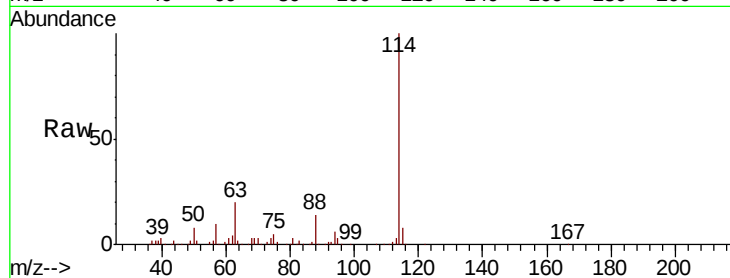
Tgt Ion:114 Resp: 228741

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.0

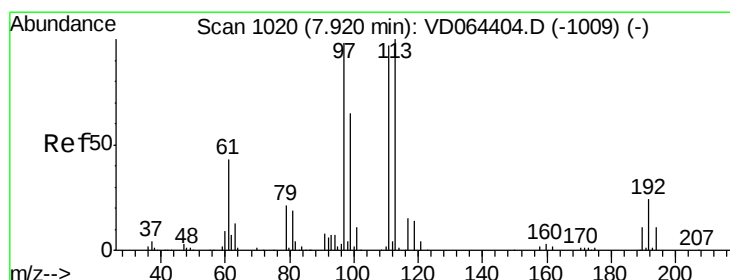
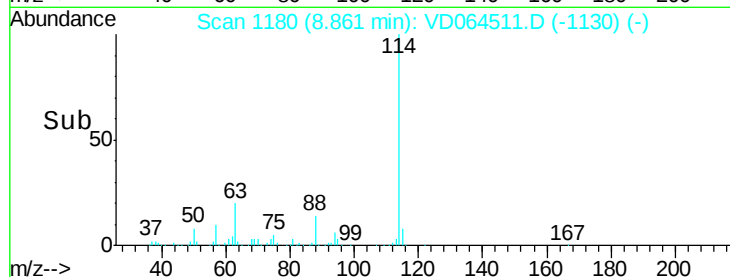
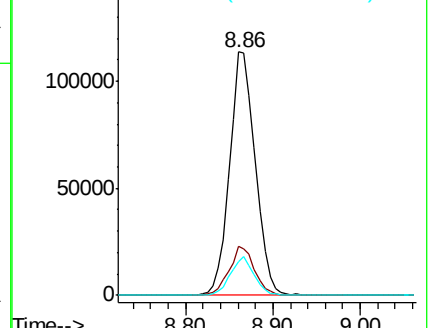
88 13.6 0.0 29.2



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: 52.900 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD064511.D

Acq: 13 Dec 2019 17:19

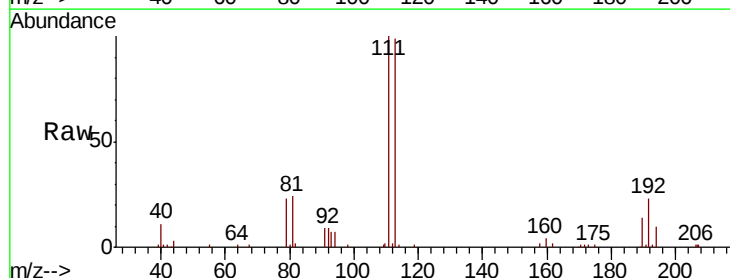
Tgt Ion:113 Resp: 76239

Ion Ratio Lower Upper

113 100

111 102.7 79.4 119.2

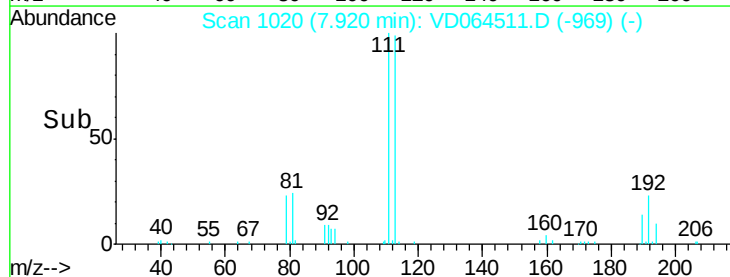
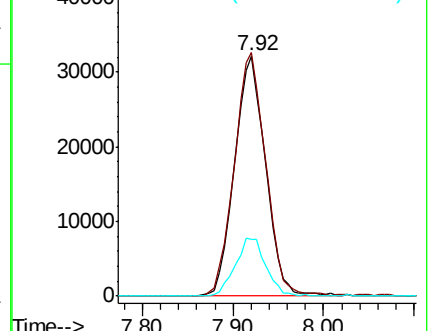
192 23.7 18.6 28.0

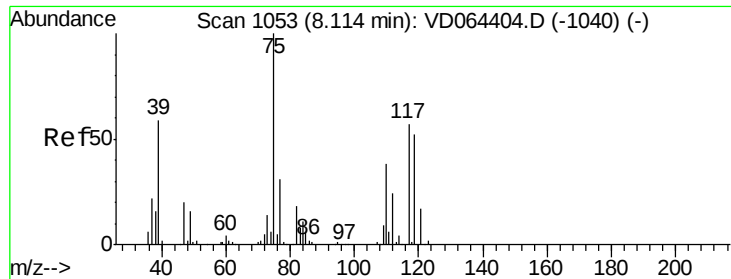


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

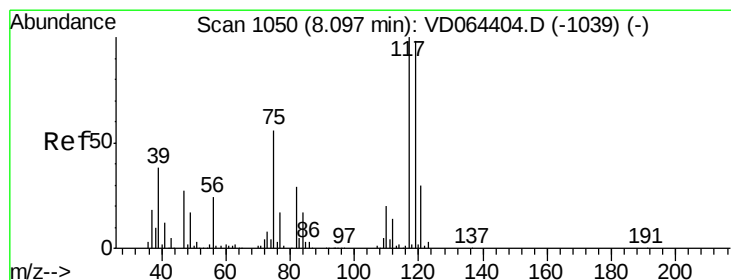
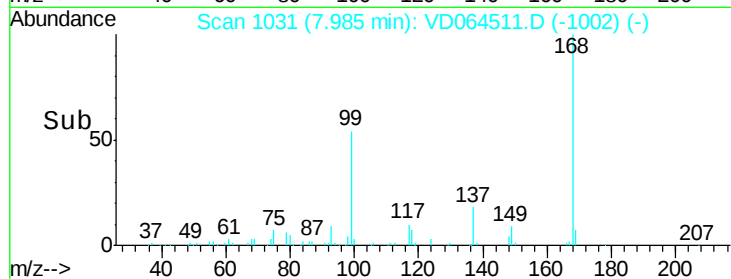
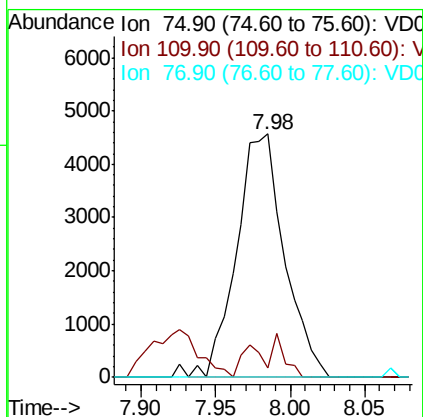
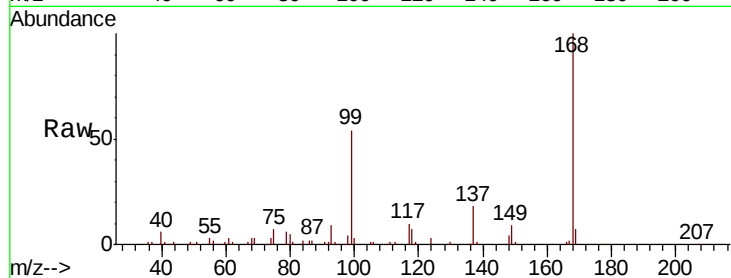




#36
 1,1-Dichloropropene
 Concen: 4.694 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064511.D
 Acq: 13 Dec 2019 17:19

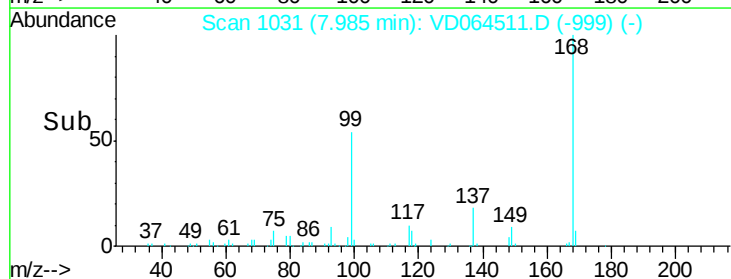
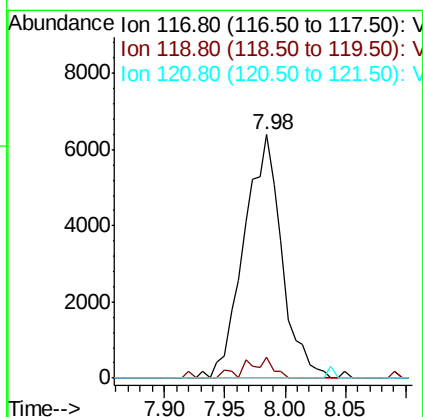
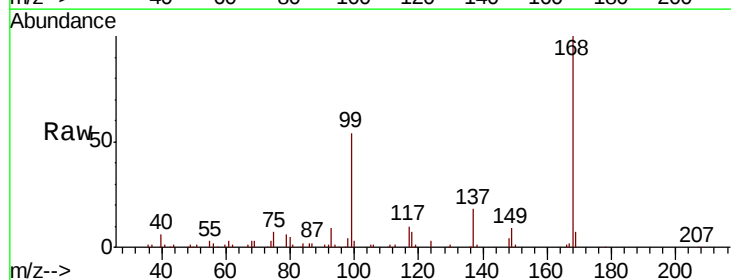
Instrument :
 MSVOA_D
 ClientSampleId :
 WO-3

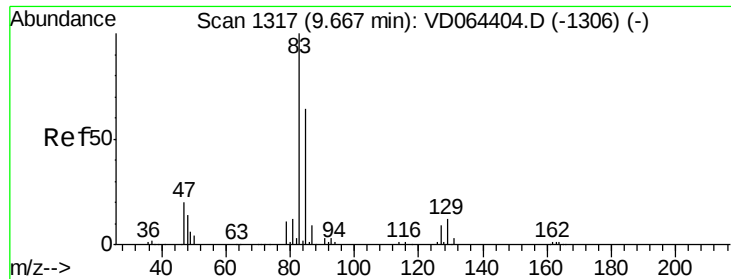
Tgt Ion: 75 Resp: 10156
 Ion Ratio Lower Upper
 75 100
 110 4.5 18.6 55.8#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.096 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.11 min
 Lab File: VD064511.D
 Acq: 13 Dec 2019 17:19

Tgt Ion: 117 Resp: 13920
 Ion Ratio Lower Upper
 117 100
 119 8.7 78.8 118.2#
 121 0.0 24.2 36.2#





#47

Bromodichloromethane

Concen: 1.046 ug/l

RT: 9.66 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VD064511.D

Acq: 13 Dec 2019 17:19

Instrument :

MSVOA_D

ClientSampleId :

WO-3

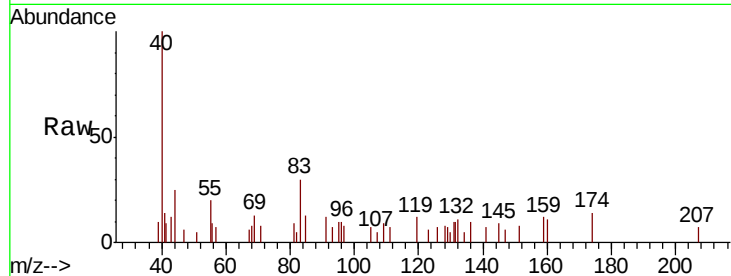
Tgt Ion: 83 Resp: 2179

Ion Ratio Lower Upper

83 100

85 42.6 51.1 76.7#

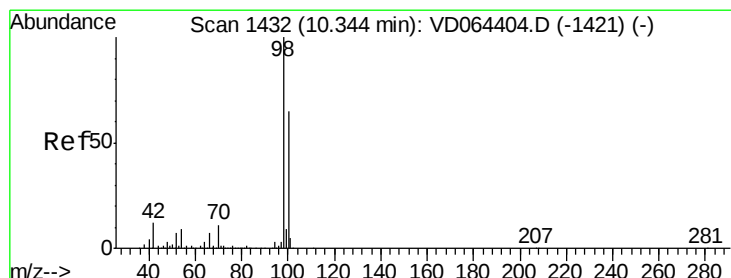
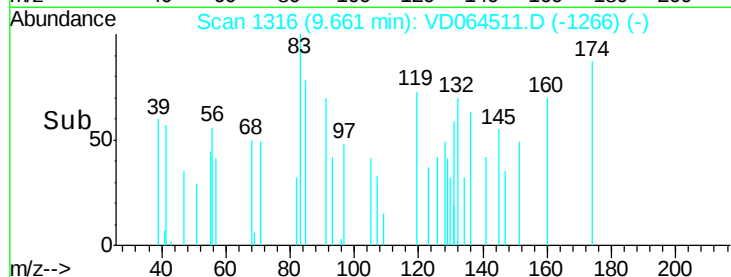
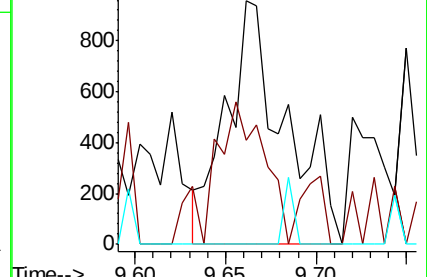
127 0.0 7.4 11.0#



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 126.80 (126.50 to 127.50): VDC



#50

Toluene-d8

Concen: 51.134 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.01 min

Lab File: VD064511.D

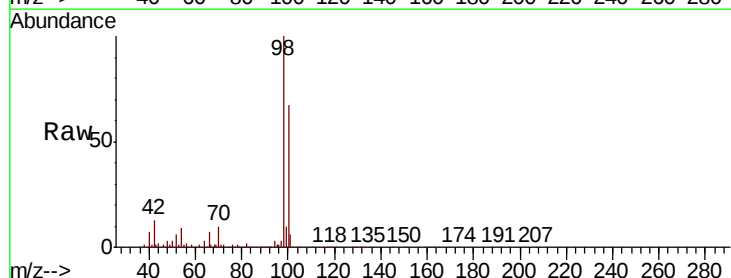
Acq: 13 Dec 2019 17:19

Tgt Ion: 98 Resp: 277595

Ion Ratio Lower Upper

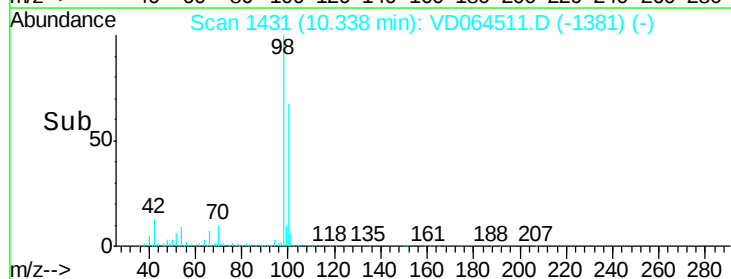
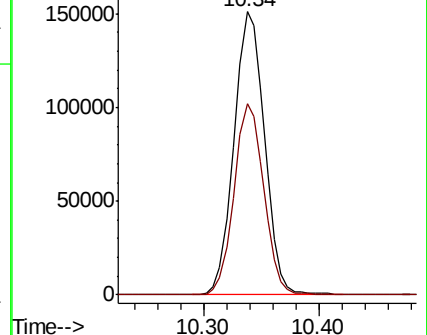
98 100

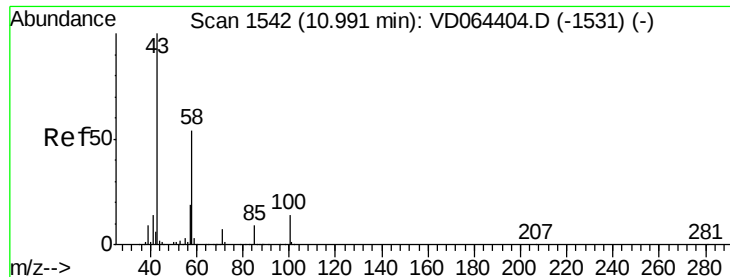
100 65.8 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

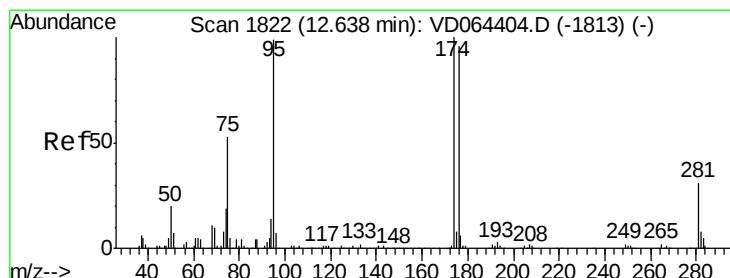
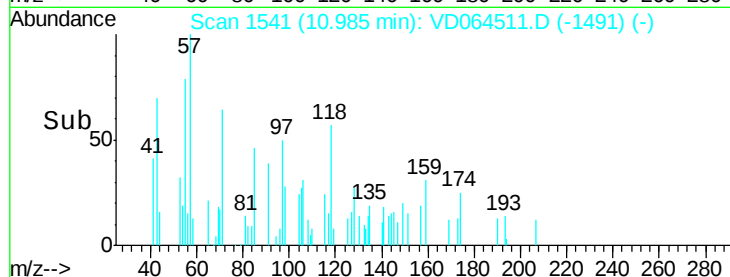
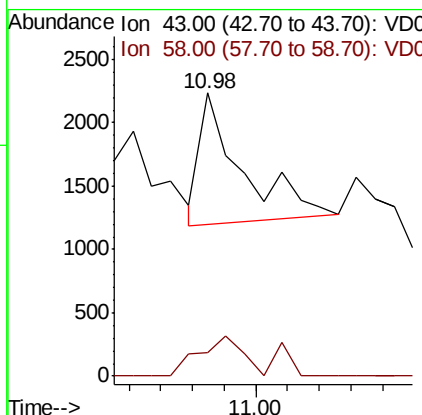
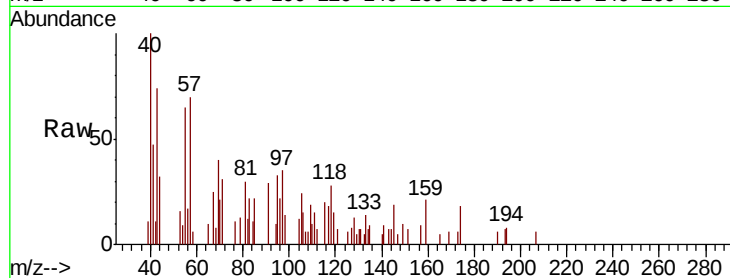




#59
2-Hexanone
Concen: 1.552 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. -0.01 min
Lab File: VD064511.D
Acq: 13 Dec 2019 17:19

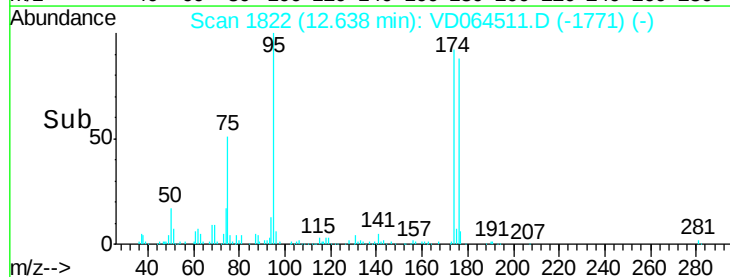
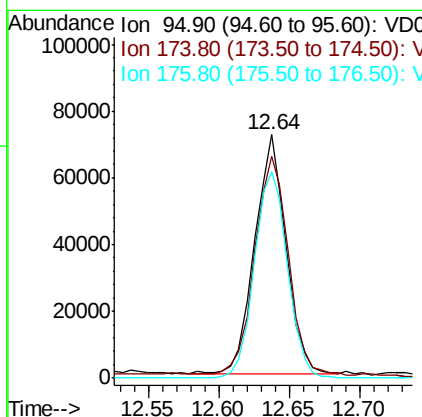
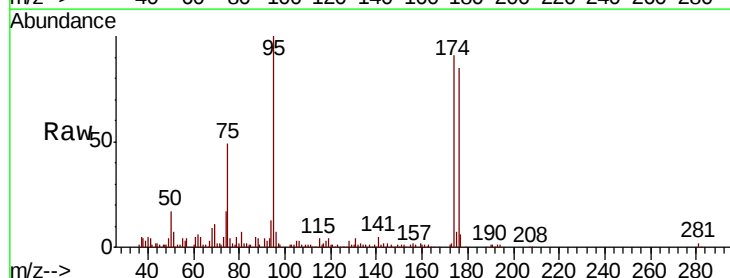
Instrument :
MSVOA_D
ClientSampleId :
WO-3

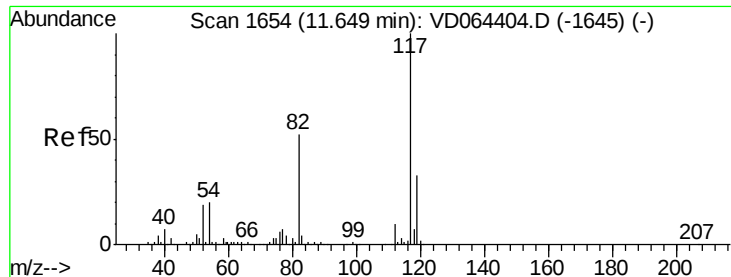
Tgt Ion: 43 Resp: 962
Ion Ratio Lower Upper
43 100
58 31.3 26.3 78.8



#62
4-Bromofluorobenzene
Concen: 64.624 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064511.D
Acq: 13 Dec 2019 17:19

Tgt Ion: 95 Resp: 112746
Ion Ratio Lower Upper
95 100
174 98.2 0.0 197.2
176 90.6 0.0 189.6

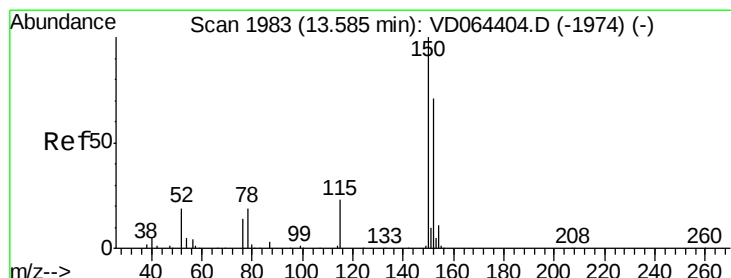
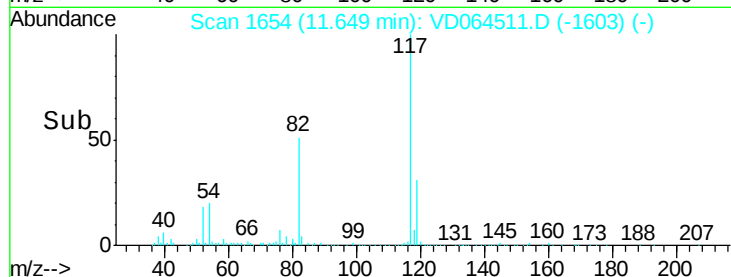
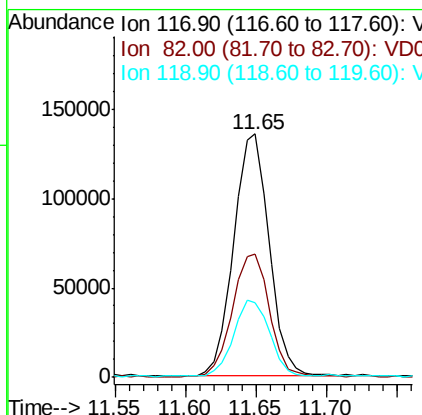
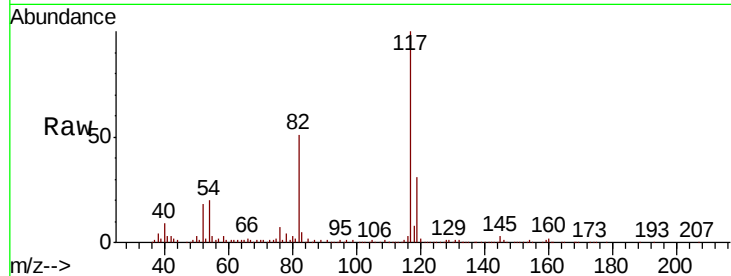




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064511.D
Acq: 13 Dec 2019 17:19

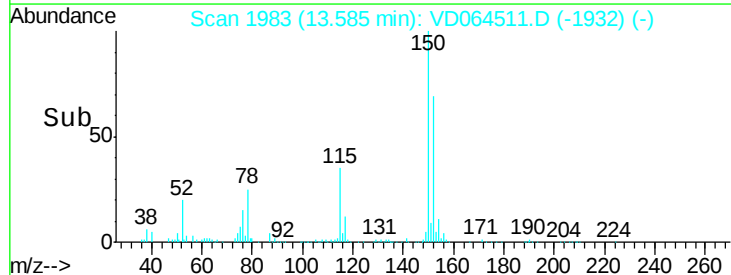
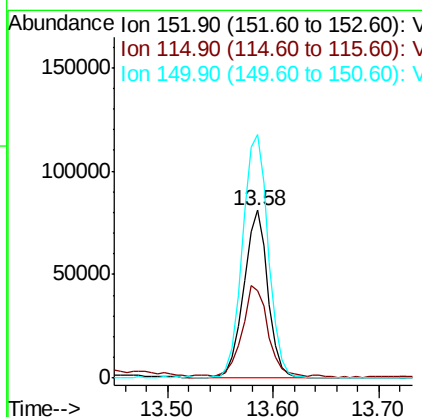
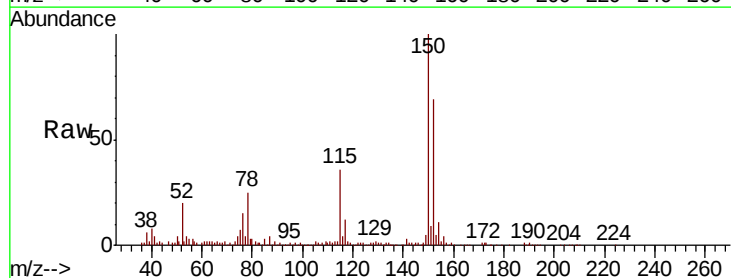
Instrument :
MSVOA_D
ClientSampleId :
WO-3

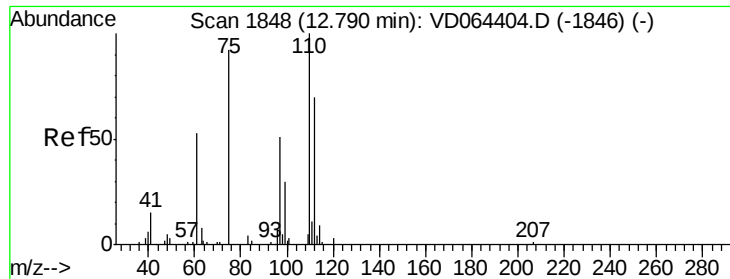
Tgt Ion	Ratio	Lower	Upper
117	100		
82	50.6	41.4	62.2
119	30.4	26.2	39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064511.D
Acq: 13 Dec 2019 17:19

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.6	26.7	80.1
150	155.2	0.0	347.2





#76

1,2,3-Trichloropropane

Concen: 55.200 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064511.D

Acq: 13 Dec 2019 17:19

Instrument :

MSVOA_D

ClientSampled :

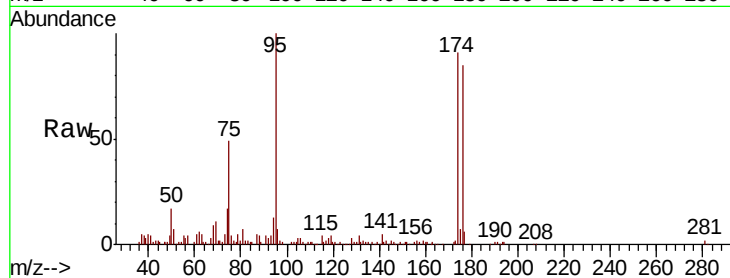
WO-3

Tgt Ion: 75 Resp: 57707

Ion Ratio Lower Upper

75 100

77 3.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.64

40000

30000

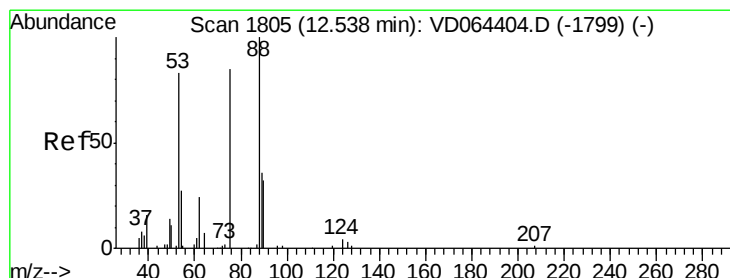
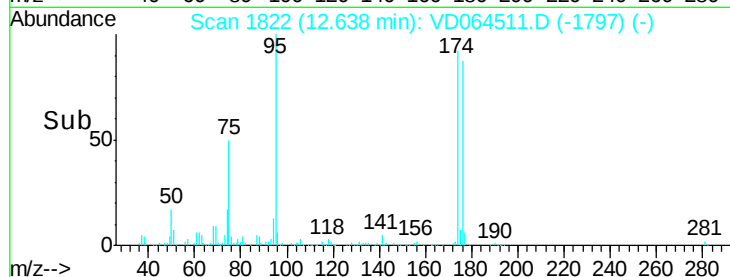
20000

10000

0

Time-->

12.60 12.70



#81

trans-1,4-Dichloro-2-butene

Concen: 120.365 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064511.D

Acq: 13 Dec 2019 17:19

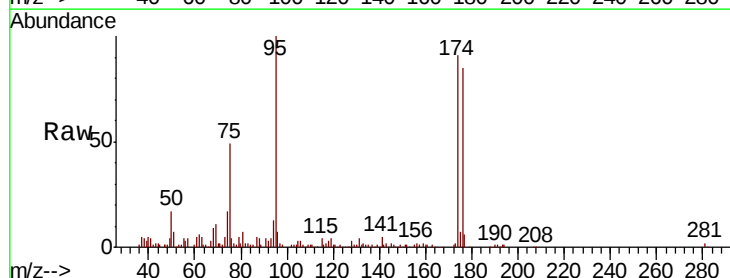
Tgt Ion: 75 Resp: 57707

Ion Ratio Lower Upper

75 100

53 0.9 81.0 121.6#

89 1.5 38.5 57.7#



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

12.64

50000

40000

30000

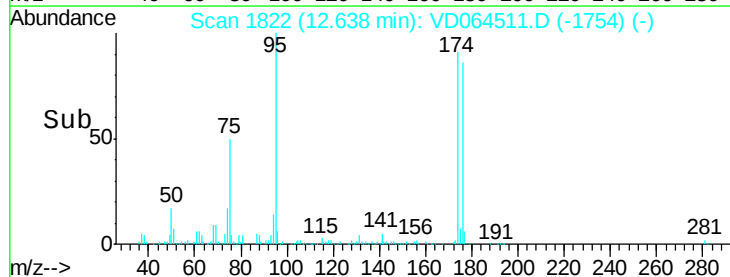
20000

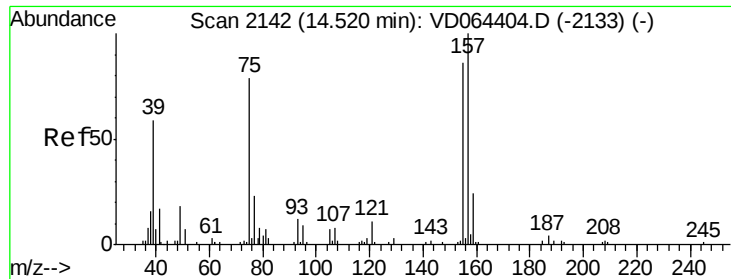
10000

0

Time-->

12.60 12.70





#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.67 min Scan# 2168
 Delta R.T. 0.15 min
 Lab File: VD064511.D
 Acq: 13 Dec 2019 17:19

Instrument :
 MSVOA_D
 ClientSampleId :
 WO-3

Tgt Ion: 75 Resp: 269
 Ion Ratio Lower Upper
 75 100
 155 103.0 51.9 155.7
 157 143.1 63.2 189.8

