

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120519\
 Data File : VD064438.D
 Acq On : 05 Dec 2019 16:04
 Operator : VA/SY
 Sample : K6147-11
 Misc : 5.93G/5.00ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 06 05:55:21 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	7.99	168	193499	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	305749	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	304517	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	150689	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	118025	67.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	134.78%	
35) Dibromofluoromethane	7.92	113	105831	54.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.88%	
50) Toluene-d8	10.34	98	368823	50.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.66%	
62) 4-Bromofluorobenzene	12.64	95	132425	56.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.58%	

Target Compounds

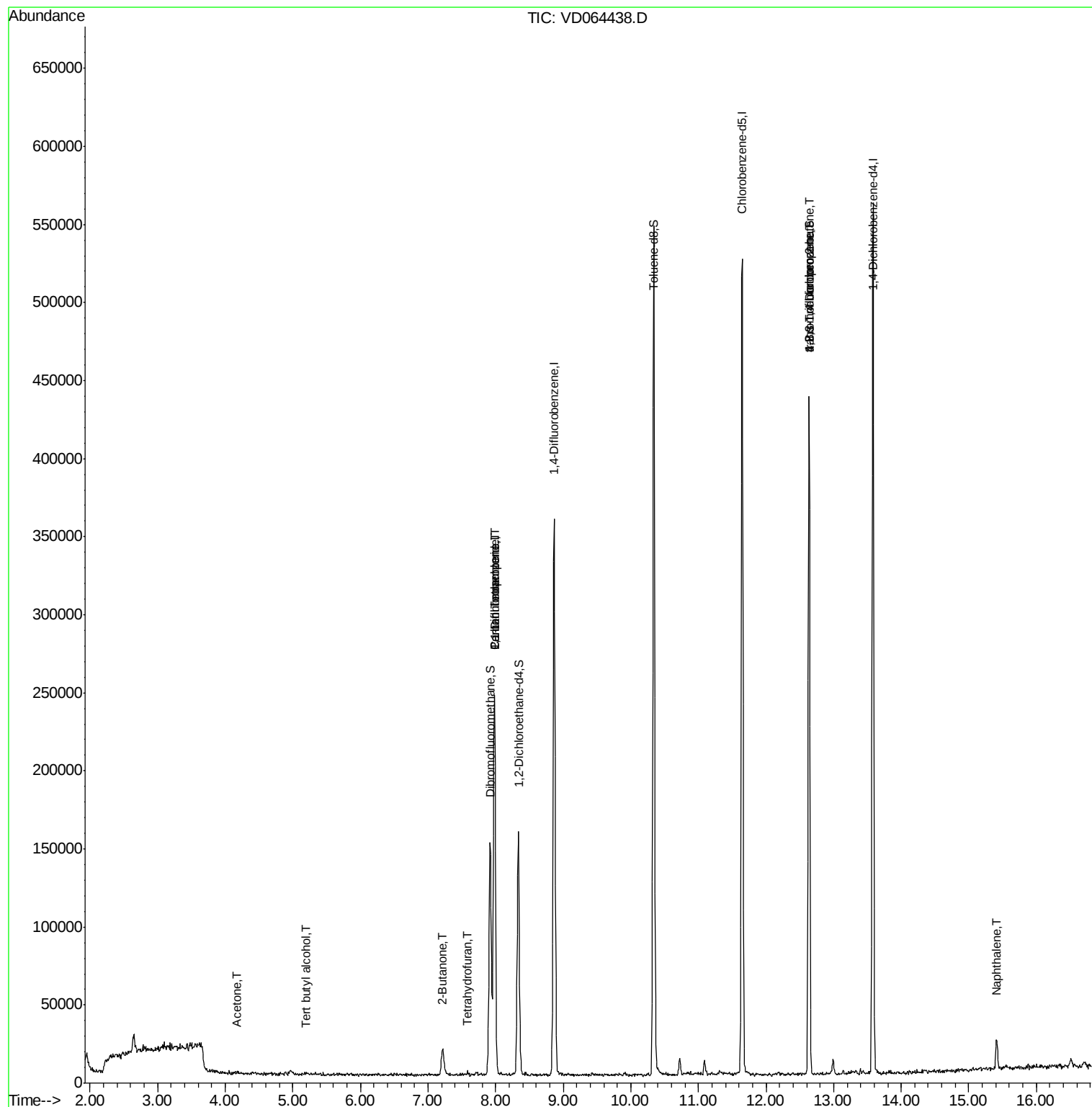
					Qvalue	
11) Tert butyl alcohol	5.20	59	448	4.018	ug/l #	100
16) Acetone	4.17	43	2020	5.707	ug/l #	47
20) Methylene Chloride	4.97	84	2294	Below Cal	#	66
25) 2-Butanone	7.21	43	889	1.776	ug/l #	49
29) Tetrahydrofuran	7.59	42	470	1.476	ug/l #	65
31) Cyclohexane	7.99	56	3895	Below Cal	#	1
36) 1,1-Dichloropropene	7.98	75	12431	4.298	ug/l #	49
38) Carbon Tetrachloride	7.99	117	18214	5.967	ug/l #	13
76) 1,2,3-Trichloropropane	12.64	75	68859	55.567	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	68859	121.164	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.60	75	58	Below Cal	#	1
95) Naphthalene	15.41	128	16535	2.980	ug/l #	95

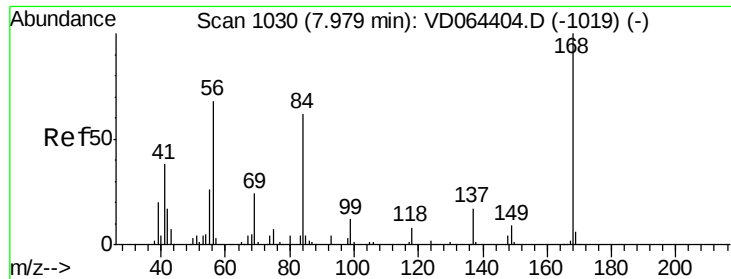
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
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QLast Update : Fri Nov 29 07:18:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD064438.D

Acq: 05 Dec 2019 16:04

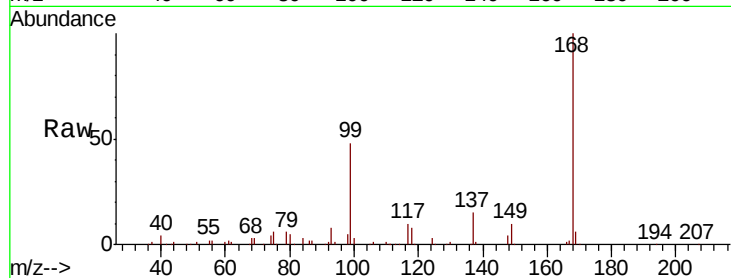
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 193499

Ion Ratio Lower Upper

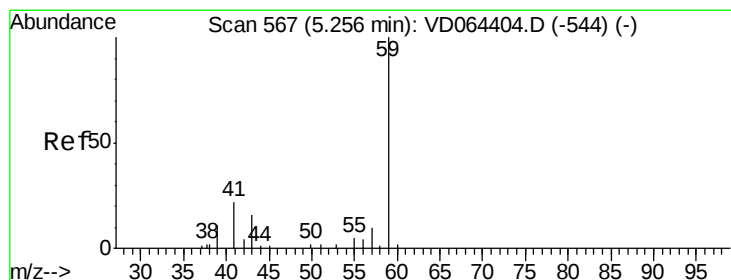
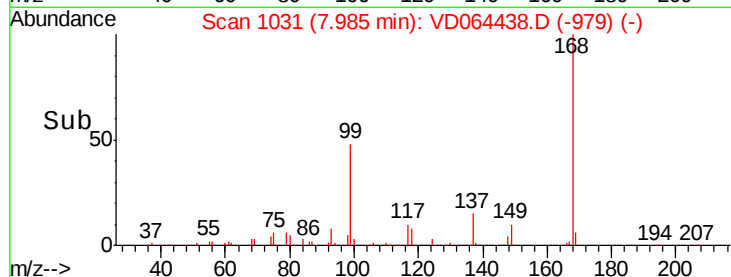
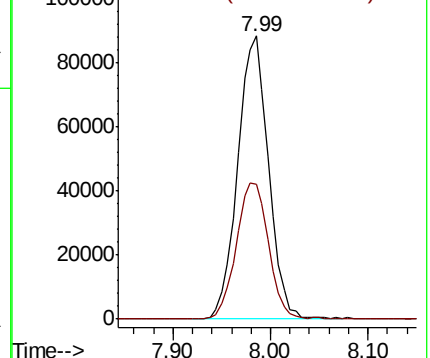
168 100

99 47.5 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 4.018 ug/l

RT: 5.20 min Scan# 558

Delta R.T. -0.05 min

Lab File: VD064438.D

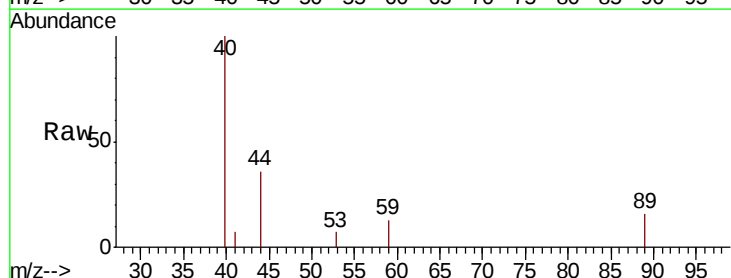
Acq: 05 Dec 2019 16:04

Tgt Ion: 59 Resp: 448

Ion Ratio Lower Upper

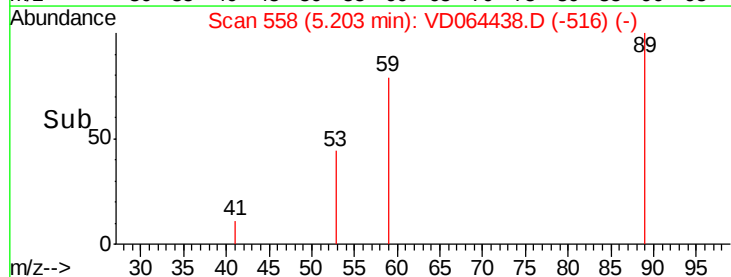
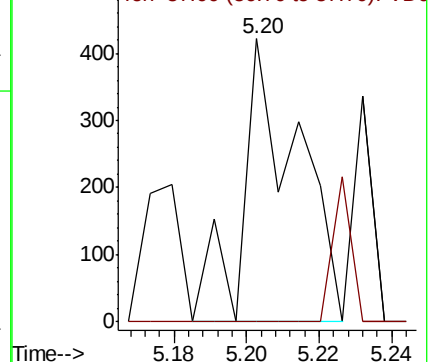
59 100

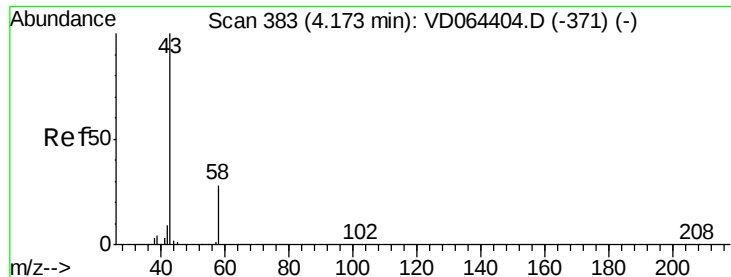
57 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 5.707 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.01 min

Lab File: VD064438.D

Acq: 05 Dec 2019 16:04

Instrument :

MSVOA_D

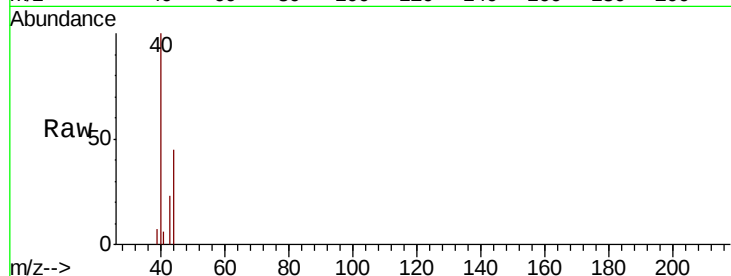
ClientSampled :

Tot Ion: 43 Resp: 2020

Ion Ratio Lower Upper

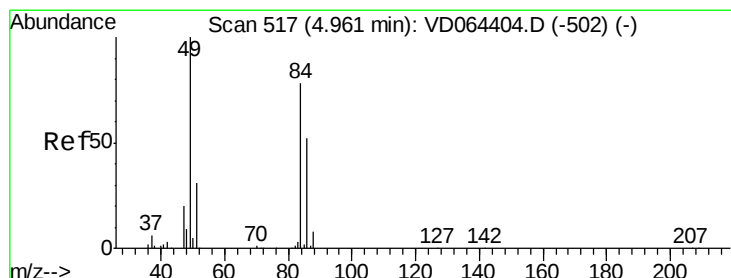
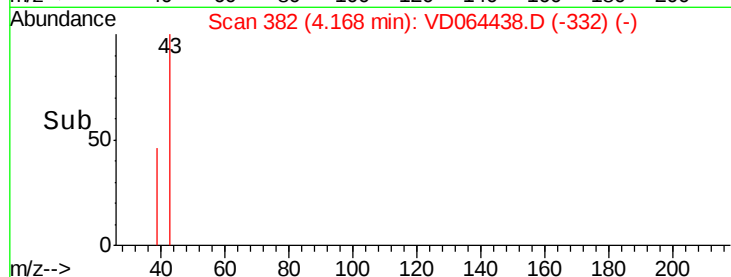
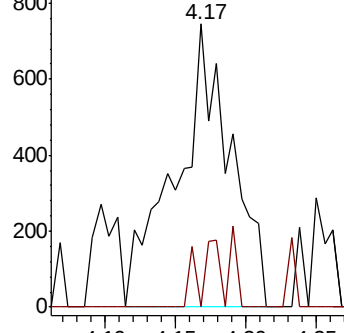
43 100

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



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD064438.D

Acq: 05 Dec 2019 16:04

Tgt Ion: 84 Resp: 2294

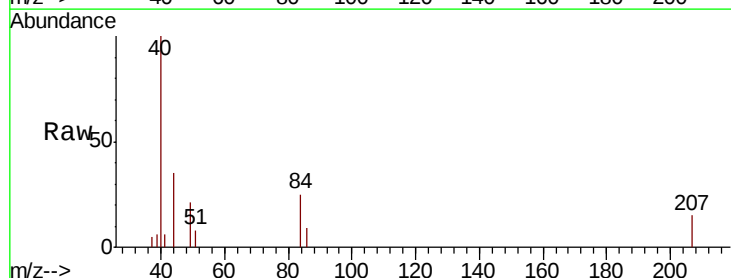
Ion Ratio Lower Upper

84 100

49 84.6 102.6 153.8#

51 31.8 32.0 48.0#

86 36.3 53.4 80.0#

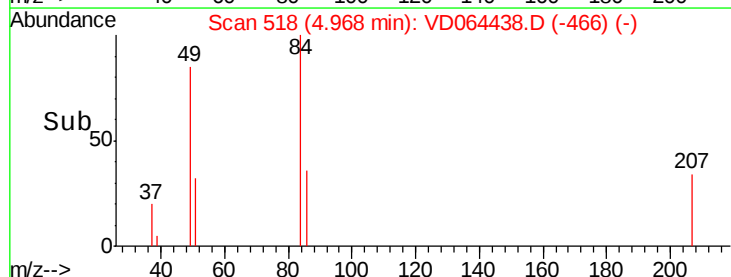
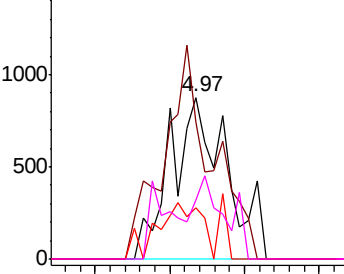


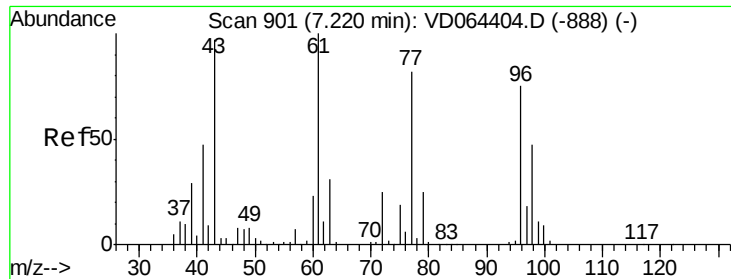
Abundance Ion 83.90 (83.60 to 84.60): VDC

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





#25

2-Butanone

Concen: 1.776 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD064438.D

Acq: 05 Dec 2019 16:04

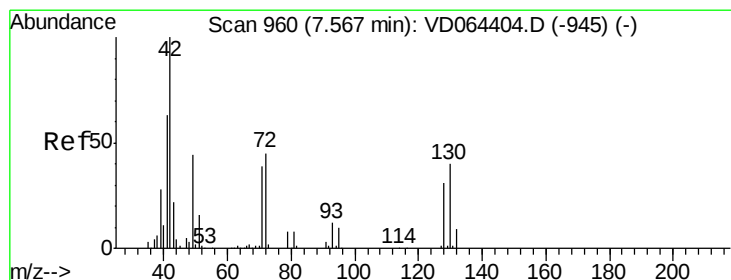
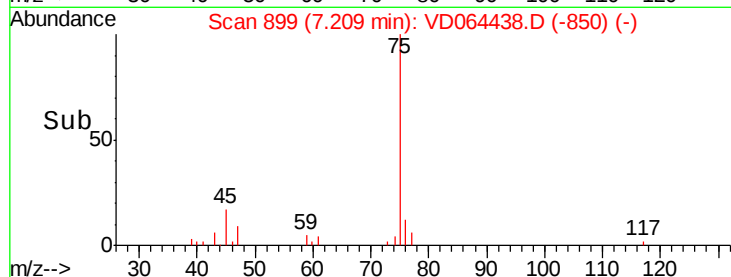
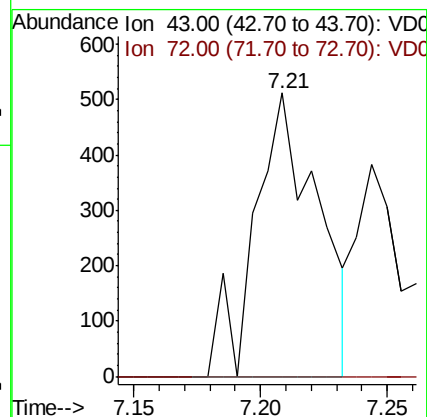
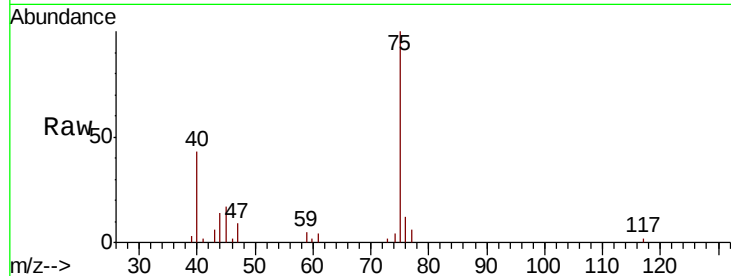
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 889

Ion Ratio Lower Upper

43 100

72 0.0 21.0 31.4#



#29

Tetrahydrofuran

Concen: 1.476 ug/l

RT: 7.59 min Scan# 963

Delta R.T. 0.02 min

Lab File: VD064438.D

Acq: 05 Dec 2019 16:04

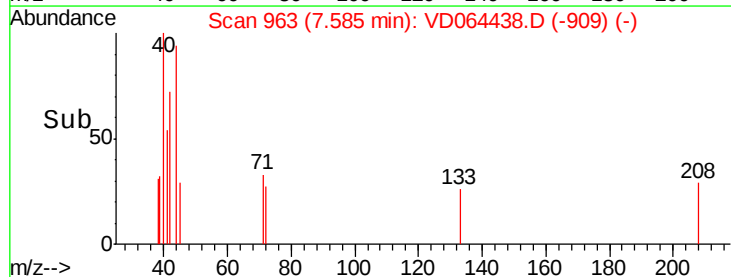
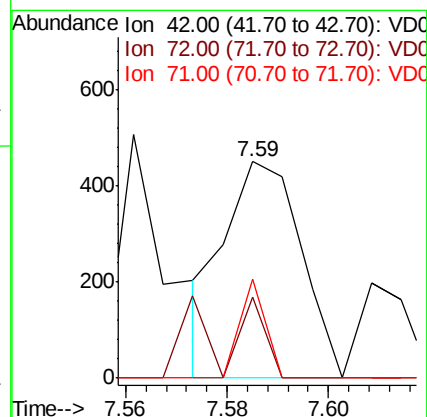
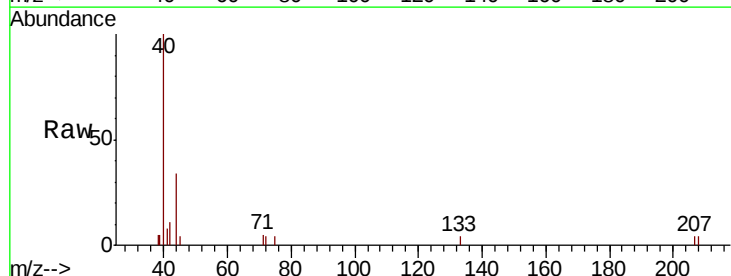
Tgt Ion: 42 Resp: 470

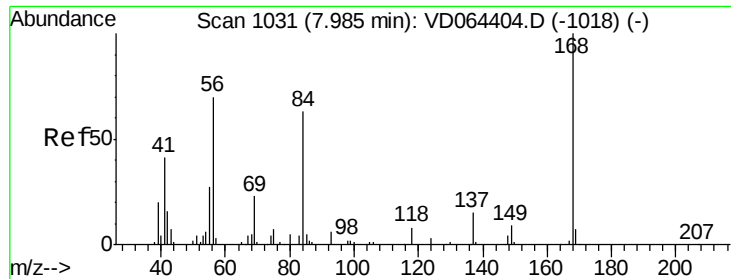
Ion Ratio Lower Upper

42 100

72 25.5 35.8 53.8#

71 15.5 32.7 49.1#

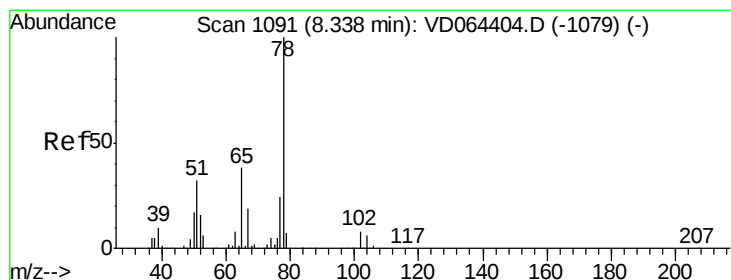
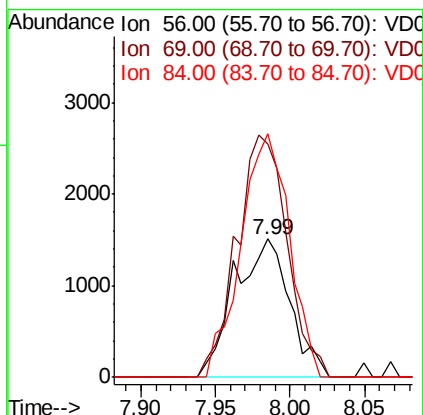
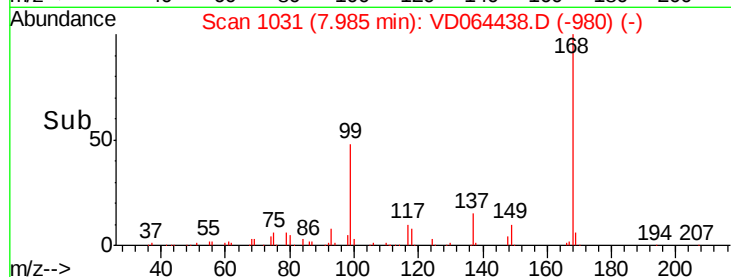
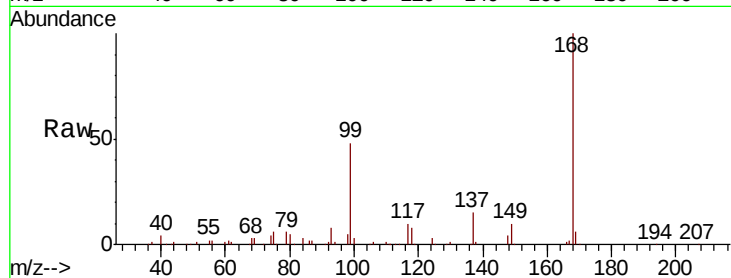




#31
Cyclohexane
Concen: Below Cal
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064438.D
Acq: 05 Dec 2019 16:04

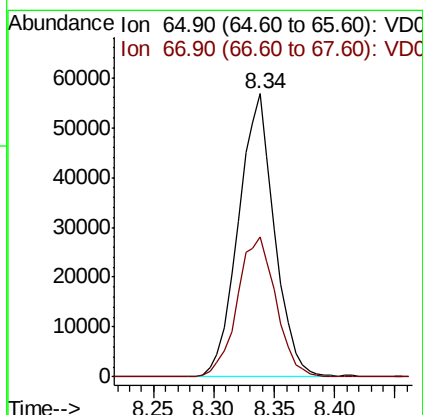
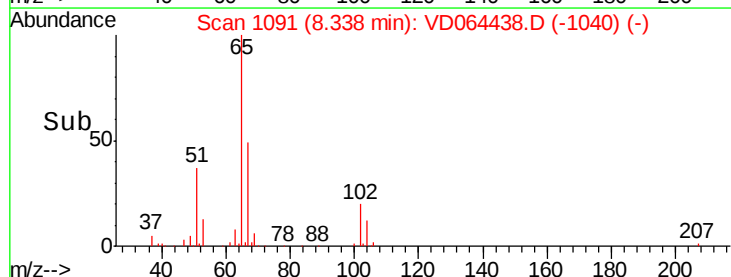
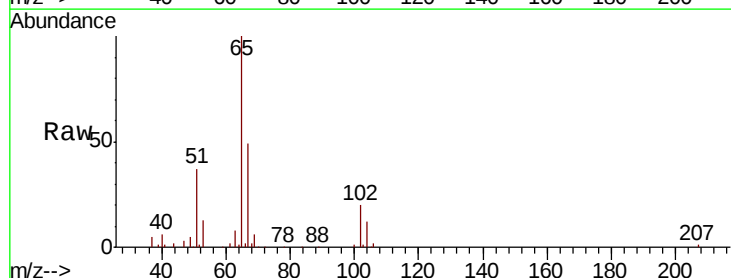
Instrument :
MSVOA_D
ClientSampleId :

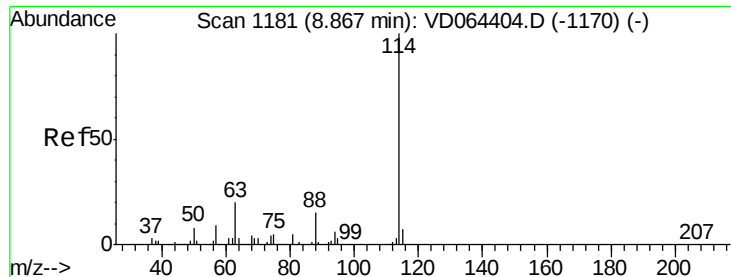
Tot Ion: 56 Resp: 3895
Ion Ratio Lower Upper
56 100
69 168.6 26.2 39.4#
84 175.7 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 67.387 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VD064438.D
Acq: 05 Dec 2019 16:04

Tgt Ion: 65 Resp: 118025
Ion Ratio Lower Upper
65 100
67 52.9 0.0 102.0

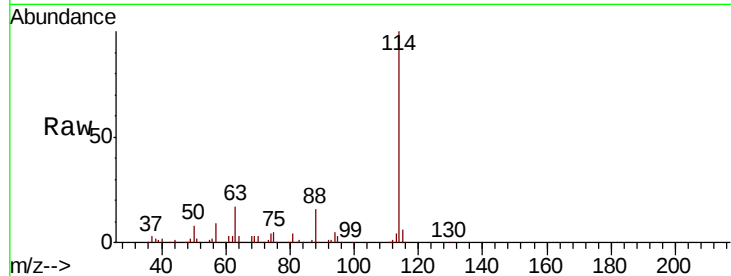




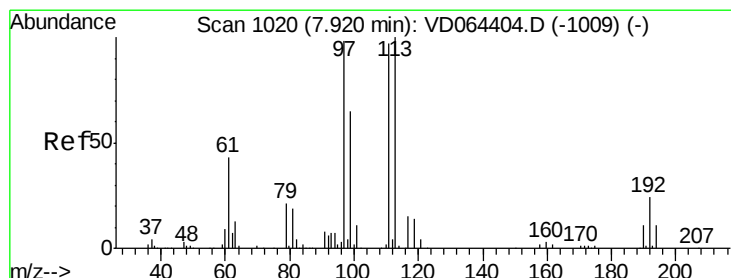
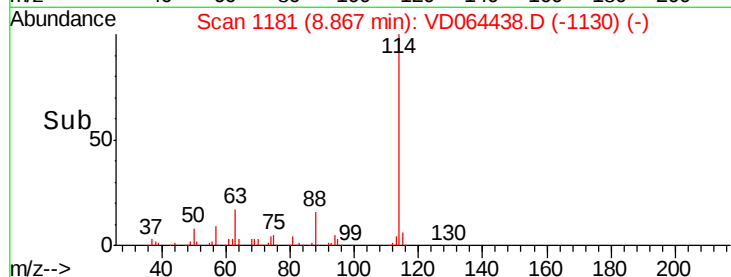
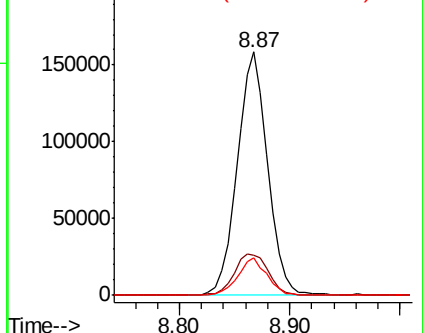
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064438.D
 Acq: 05 Dec 2019 16:04

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	16.7	0.0	40.0
88	15.5	0.0	29.2

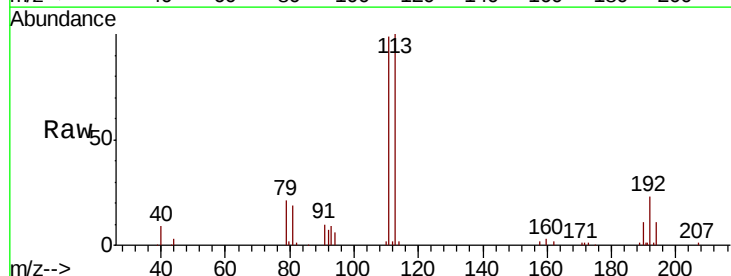


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

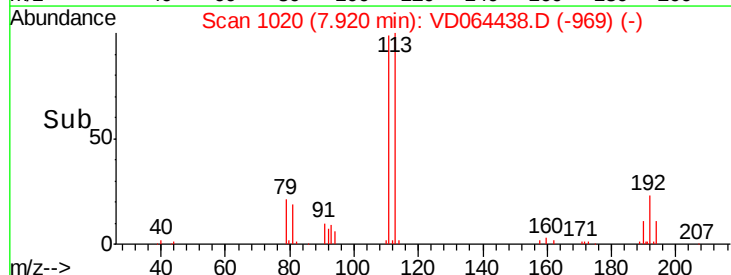
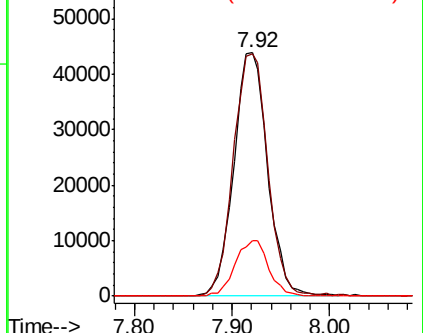


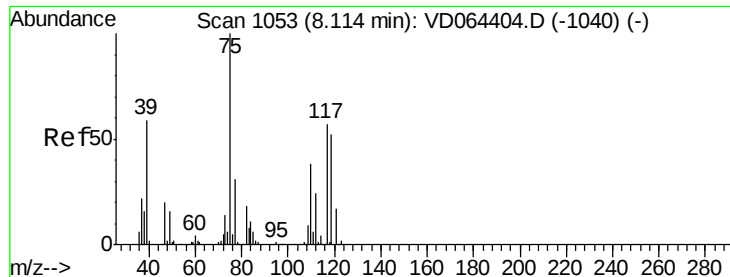
#35
 Dibromofluoromethane
 Concen: 54.938 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064438.D
 Acq: 05 Dec 2019 16:04

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.5	79.4	119.2
192	22.4	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: 4.298 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD064438.D

Acq: 05 Dec 2019 16:04

Instrument :

MSVOA_D

ClientSampleId :

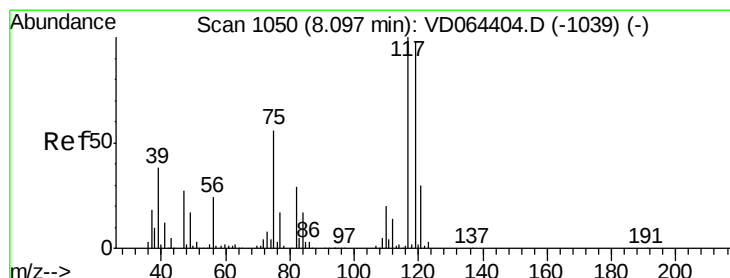
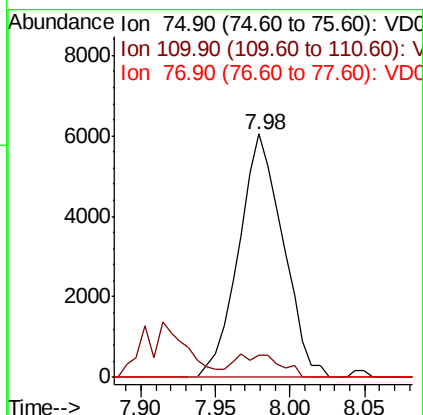
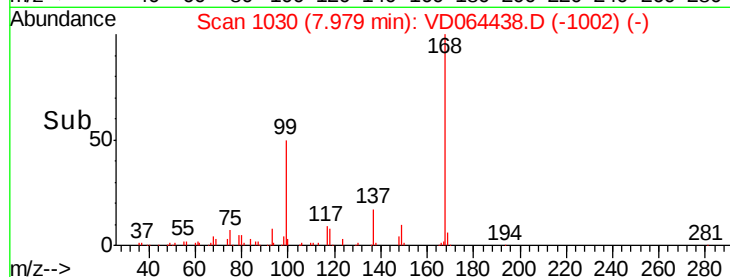
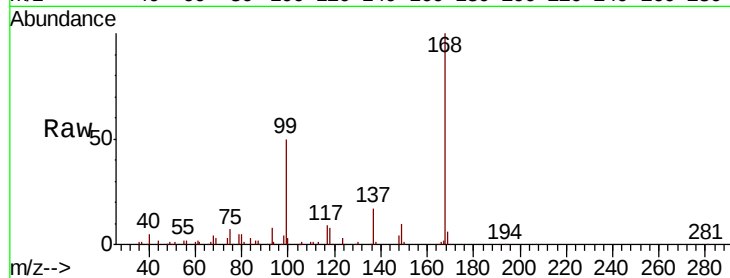
Tot Ion: 75 Resp: 12431

Ion Ratio Lower Upper

75 100

110 10.0 18.6 55.8#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.967 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD064438.D

Acq: 05 Dec 2019 16:04

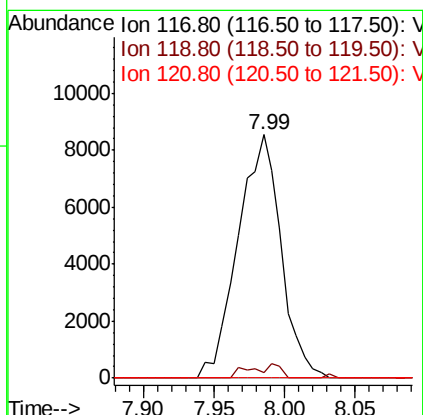
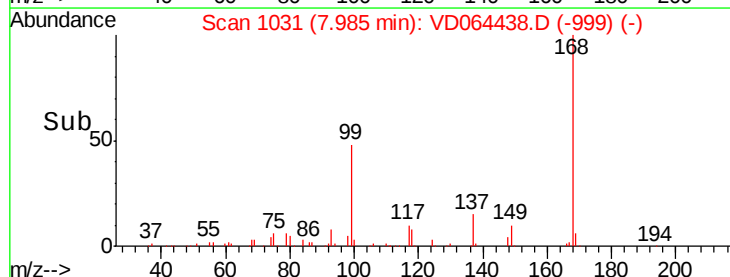
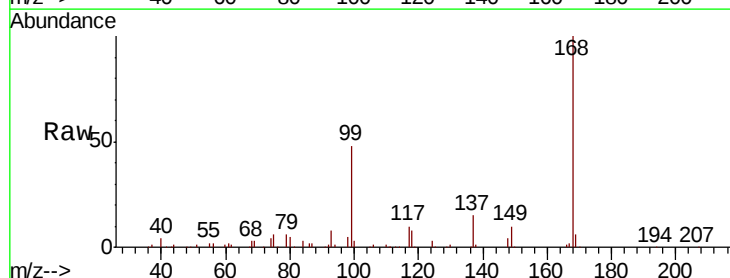
Tgt Ion: 117 Resp: 18214

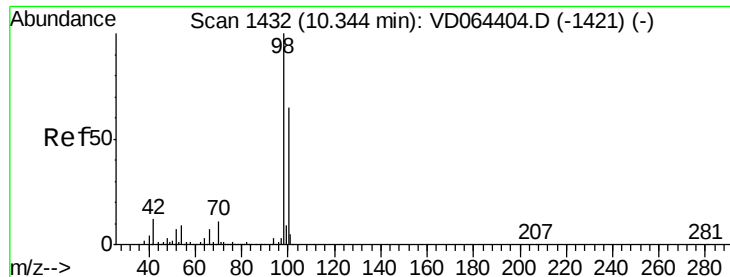
Ion Ratio Lower Upper

117 100

119 2.4 78.8 118.2#

121 0.0 24.2 36.2#

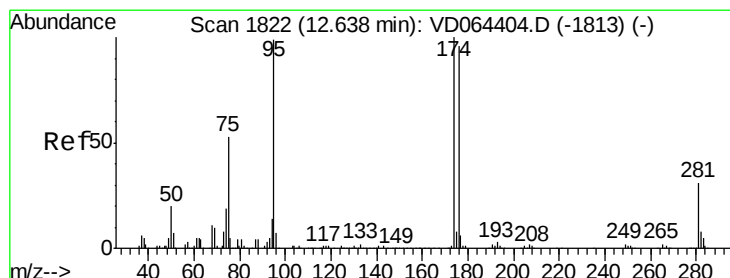
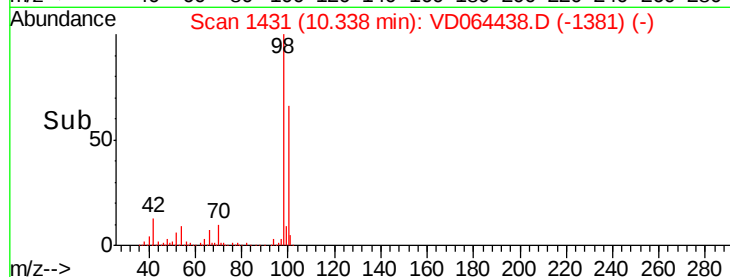
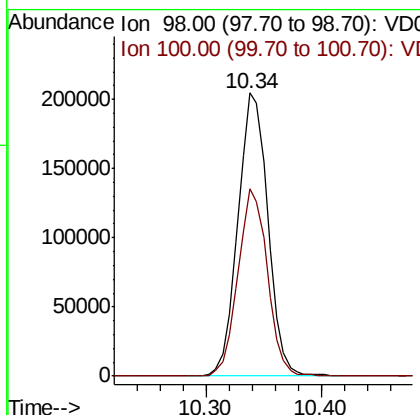
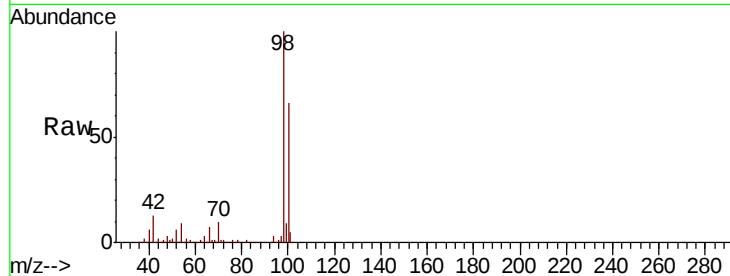




#50
Toluene-d8
Concen: 50.827 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.01 min
Lab File: VD064438.D
Acq: 05 Dec 2019 16:04

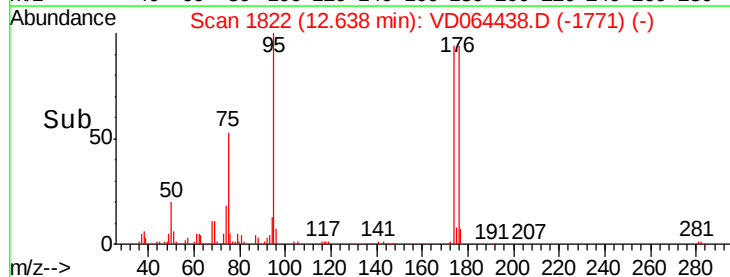
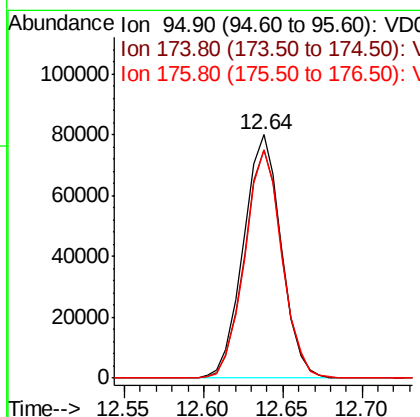
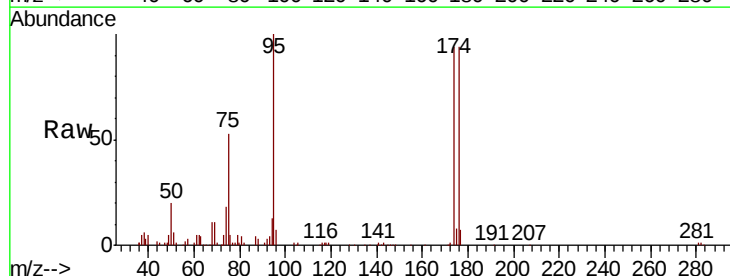
Instrument :
MSVOA_D
ClientSampleId :

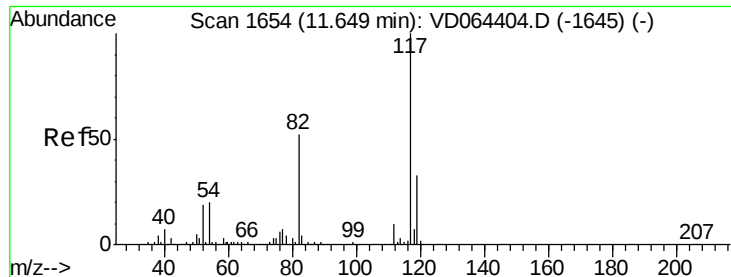
Tot Ion: 98 Resp: 368823
Ion Ratio Lower Upper
98 100
100 64.9 52.6 79.0



#62
4-Bromofluorobenzene
Concen: 56.786 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064438.D
Acq: 05 Dec 2019 16:04

Tgt Ion: 95 Resp: 132425
Ion Ratio Lower Upper
95 100
174 93.1 0.0 197.2
176 91.8 0.0 189.6

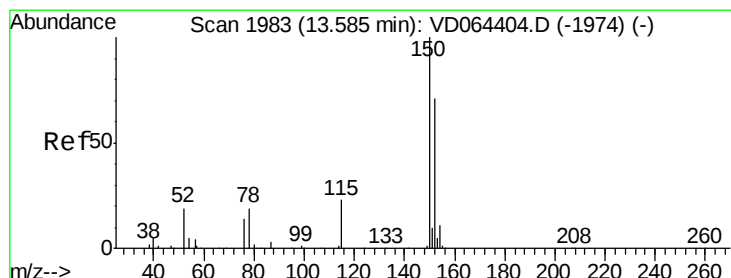
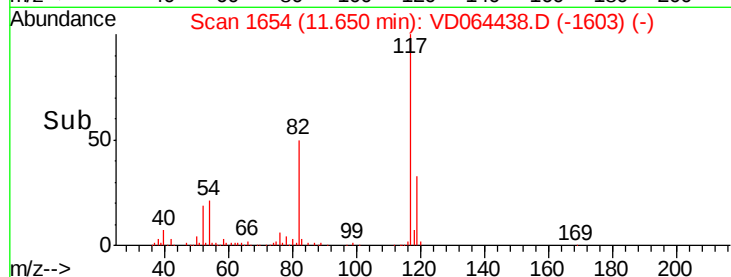
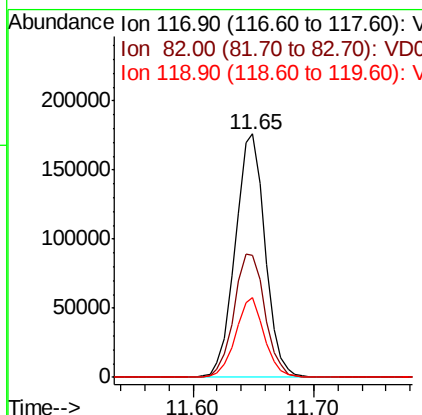
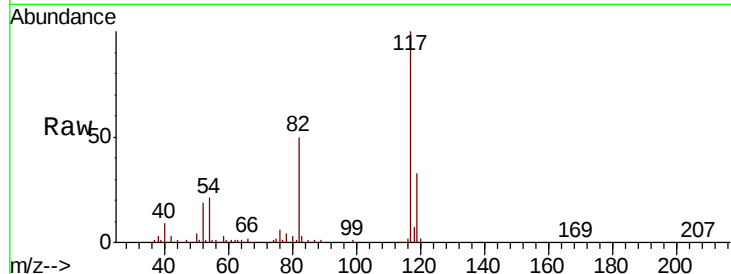




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064438.D
Acq: 05 Dec 2019 16:04

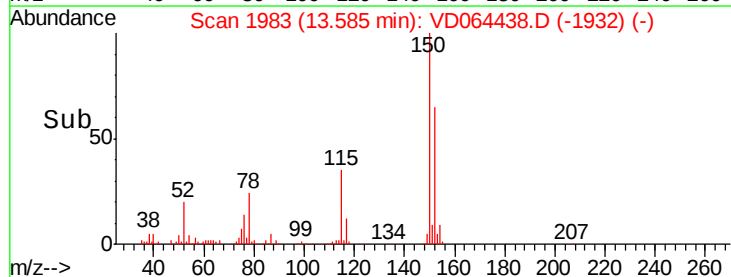
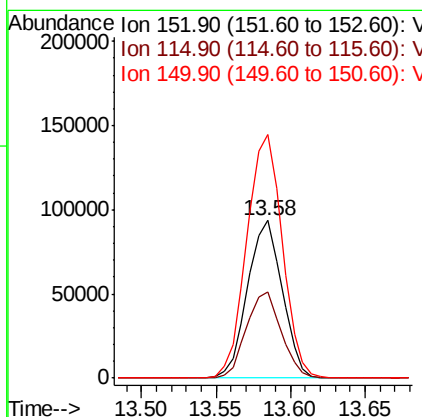
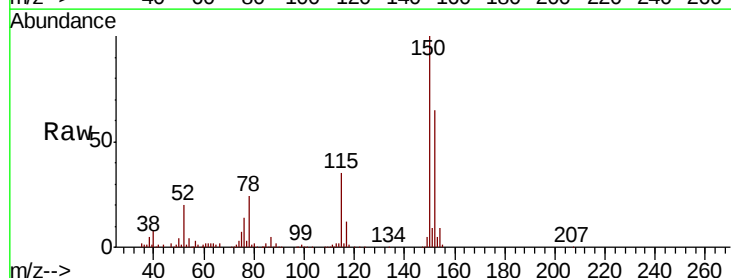
Instrument :
MSVOA_D
ClientSampled :

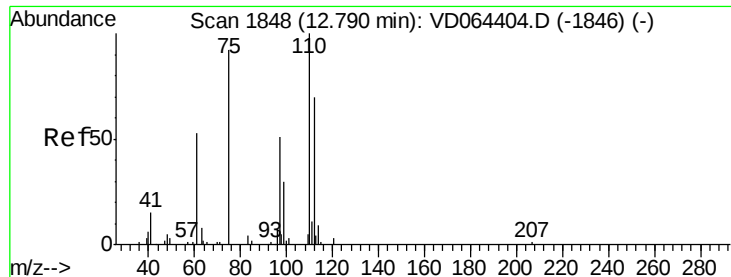
Tot Ion	Ratio	Lower	Upper
117	100		
82	50.0	41.4	62.2
119	32.8	26.2	39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064438.D
Acq: 05 Dec 2019 16:04

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.7	26.7	80.1
150	157.5	0.0	347.2





#76

1,2,3-Trichloropropane

Concen: 55.567 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064438.D

Acq: 05 Dec 2019 16:04

Instrument :

MSVOA_D

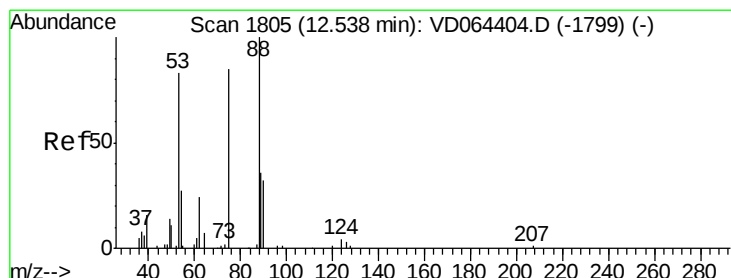
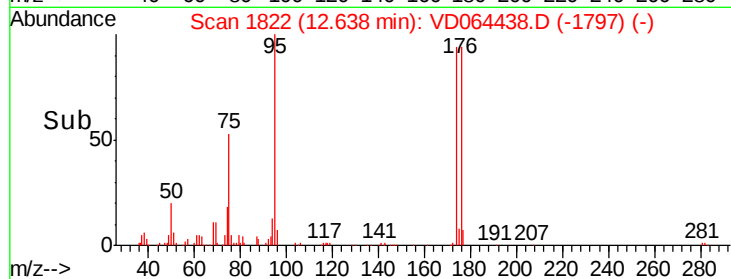
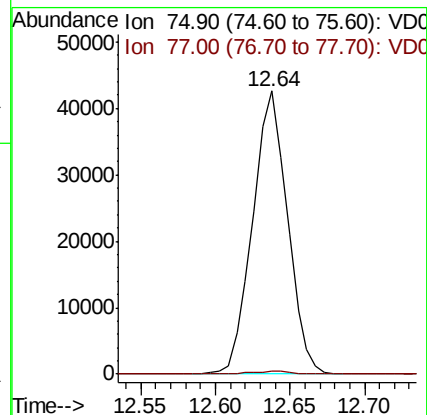
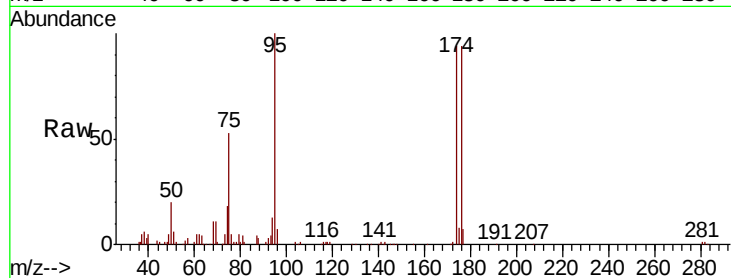
ClientSampleId :

Tot Ion: 75 Resp: 68859

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 121.164 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064438.D

Acq: 05 Dec 2019 16:04

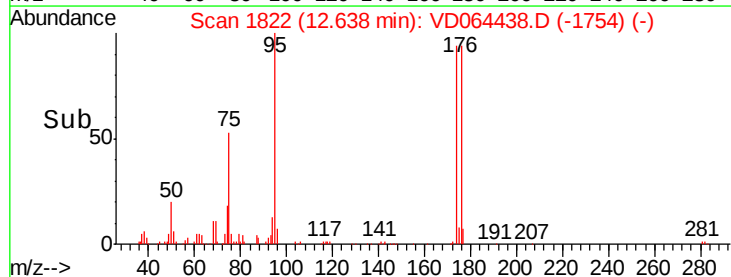
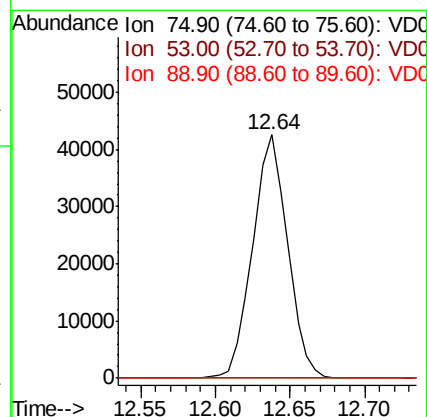
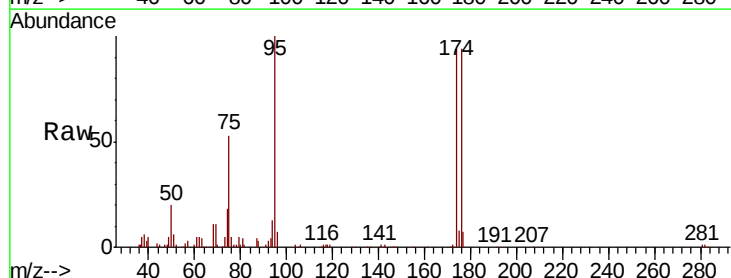
Tgt Ion: 75 Resp: 68859

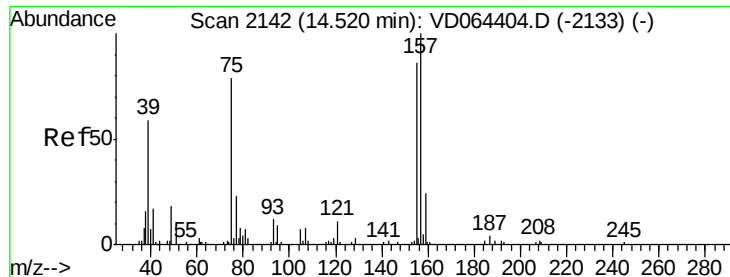
Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.0 38.5 57.7#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.60 min Scan# 2155

Delta R.T. 0.08 min

Lab File: VD064438.D

Acq: 05 Dec 2019 16:04

Instrument :

MSVOA_D

ClientSampleId :

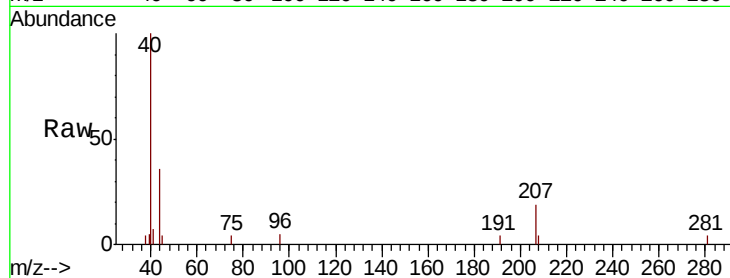
Tot Ion: 75 Resp: 58

Ion Ratio Lower Upper

75 100

155 0.0 51.9 155.7#

157 0.0 63.2 189.8#



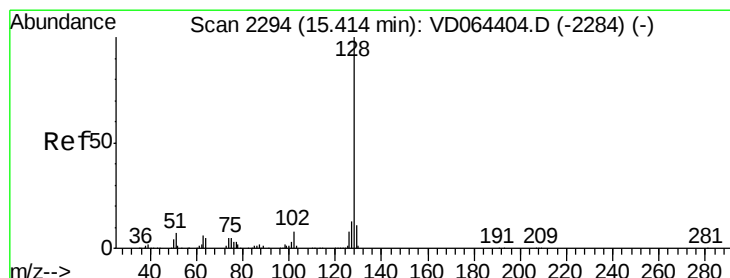
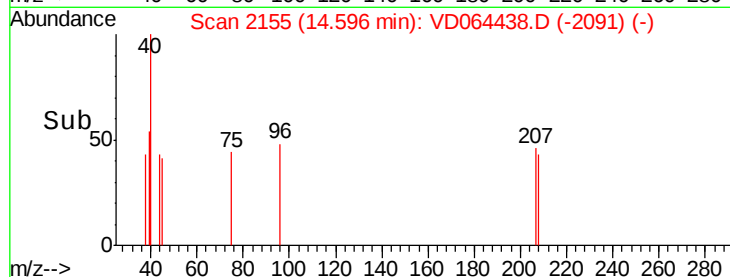
Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

14.60

Time-->



#95

Naphthalene

Concen: 2.980 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.01 min

Lab File: VD064438.D

Acq: 05 Dec 2019 16:04

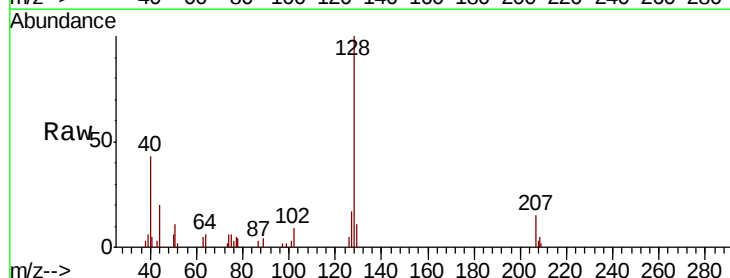
Tgt Ion: 128 Resp: 16535

Ion Ratio Lower Upper

128 100

127 16.2 10.5 15.7#

129 11.8 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.41

Time-->

