

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122319\
 Data File : VD064577.D
 Acq On : 23 Dec 2019 19:24
 Operator : VA/SY
 Sample : K6118-10
 Misc : 8.8G/5.00ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SU-01-122319

Quant Time: Dec 24 05:56:13 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	409155	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	674358	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	616617	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	226147	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	190194	51.36	ug/l	0.00
Spiked Amount			Recovery	=	102.72%	
35) Dibromofluoromethane	7.92	113	214086	50.39	ug/l	0.00
Spiked Amount			Recovery	=	100.78%	
50) Toluene-d8	10.34	98	776546	48.52	ug/l	0.00
Spiked Amount			Recovery	=	97.04%	
62) 4-Bromofluorobenzene	12.64	95	250497	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	

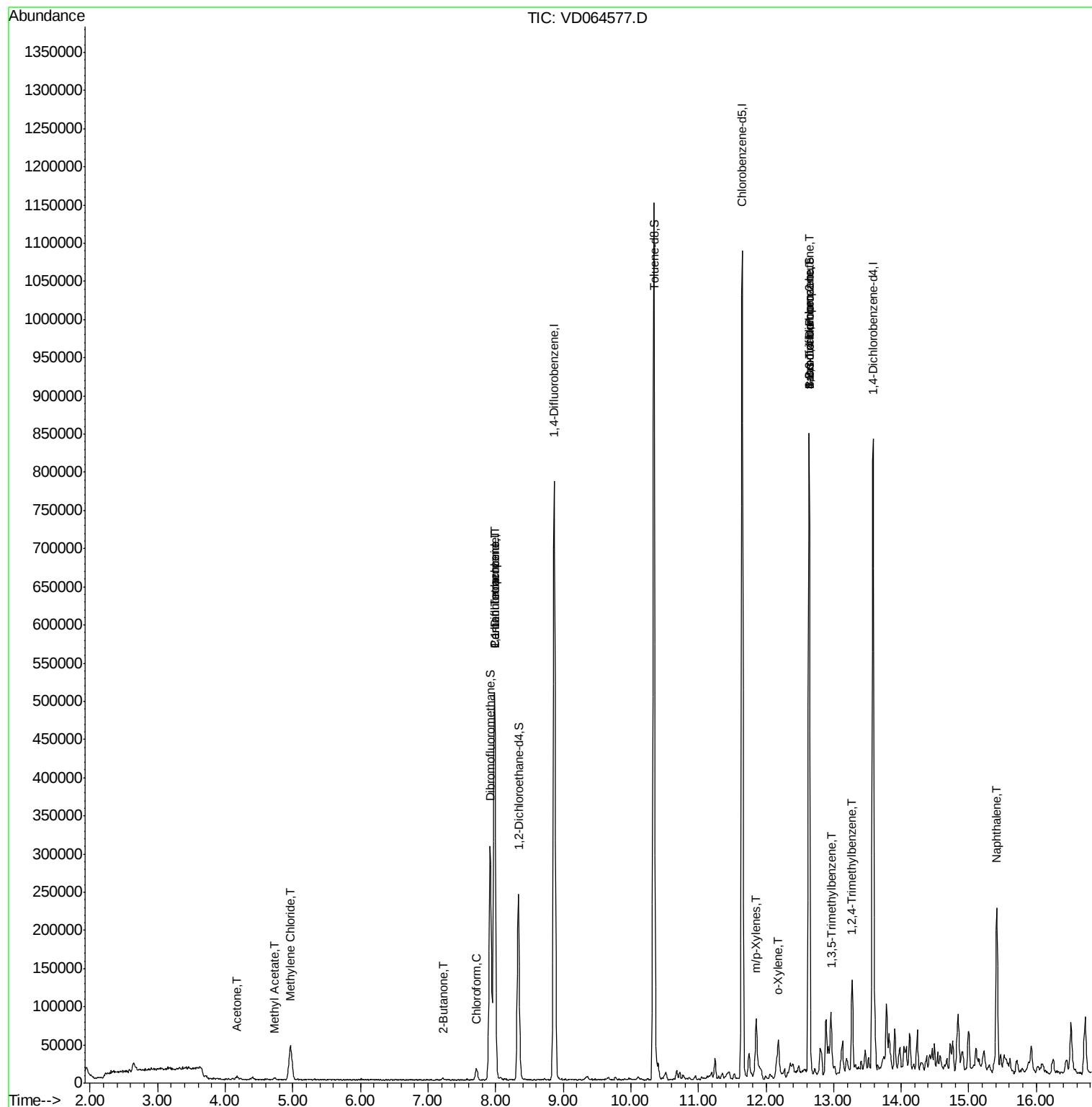
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	4.17	43	7033	9.397	ug/l #	53
18) Methyl Acetate	4.73	43	3624	1.660	ug/l	96
20) Methylene Chloride	4.97	84	34546	5.091	ug/l	97
25) 2-Butanone	7.23	43	1098	1.037	ug/l #	49
30) Chloroform	7.71	83	13740	1.942	ug/l	85
31) Cyclohexane	7.98	56	8886	Below Cal	#	11
36) 1,1-Dichloropropene	7.98	75	28284	4.434	ug/l #	50
38) Carbon Tetrachloride	7.98	117	37721	5.603	ug/l #	15
68) m/p-Xylenes	11.85	106	19340	2.217	ug/l	98
69) o-Xylene	12.18	106	12542	1.557	ug/l	98
71) Bromoform	12.64	173	3055	1.073	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	131174	70.533	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.96	105	20407	1.535	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.64	75	131174	153.798	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.28	105	65838	4.926	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.52	75	79	Below Cal	#	1
95) Naphthalene	15.41	128	189200	22.722	ug/l	98

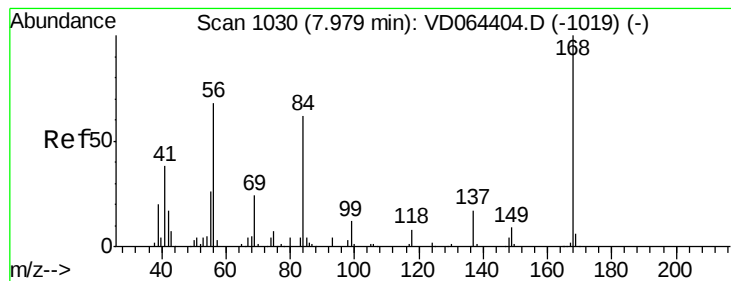
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD064577.D

Acq: 23 Dec 2019 19:24

Instrument :

MSVOA_D

ClientSampleId :

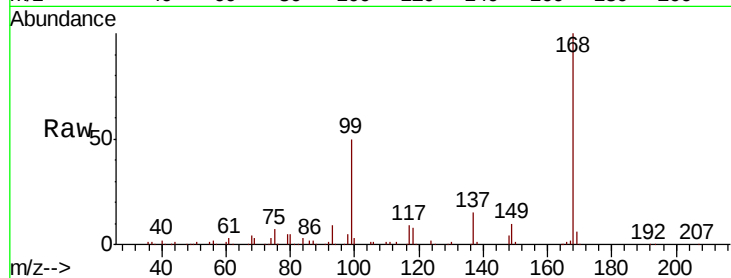
SU-01-122319

Tot Ion:168 Resp: 409155

Ion Ratio Lower Upper

168 100

99 49.9 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

200000

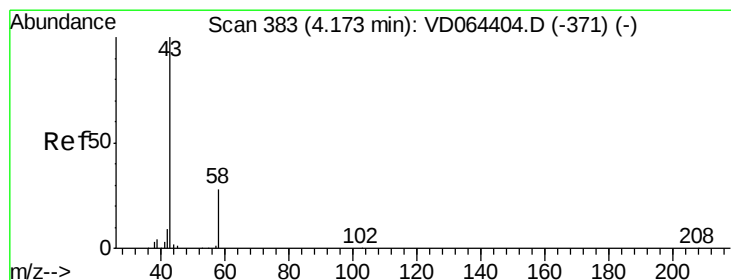
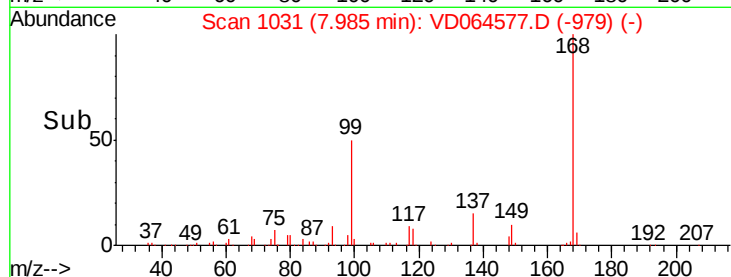
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 9.397 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.00 min

Lab File: VD064577.D

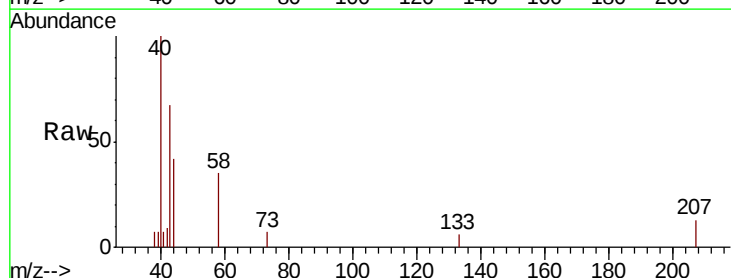
Acq: 23 Dec 2019 19:24

Tgt Ion: 43 Resp: 7033

Ion Ratio Lower Upper

43 100

58 52.9 22.6 33.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.17

2000

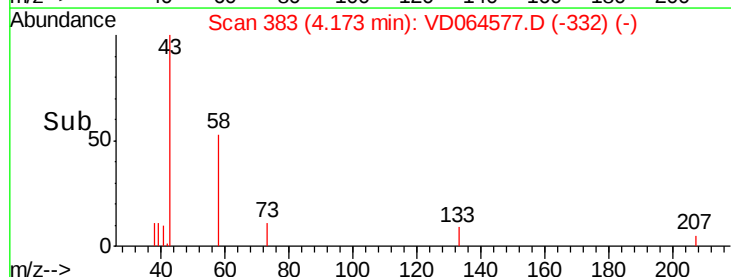
1500

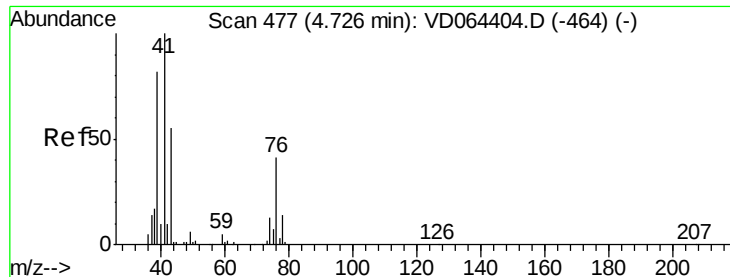
1000

500

0

Time-->

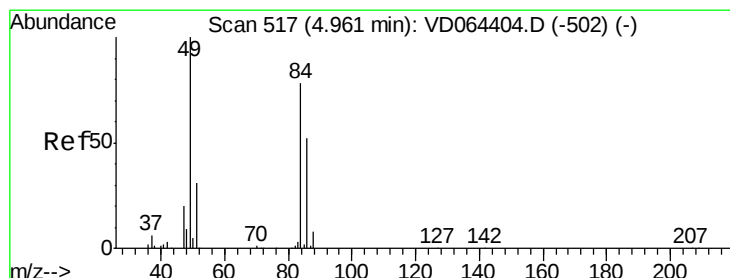
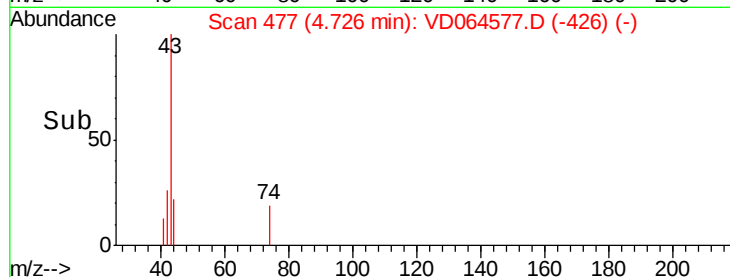
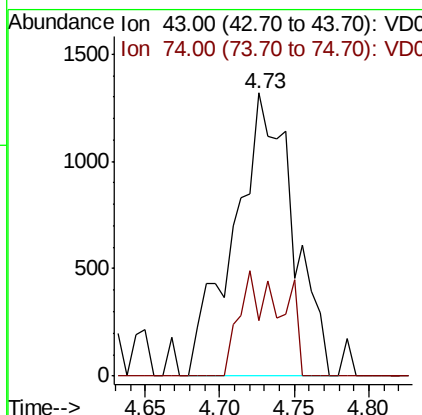
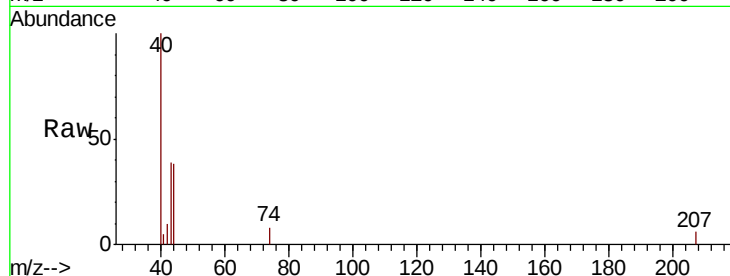




#18
Methvl Acetate
Concen: 1.660 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.00 min
Lab File: VD064577.D
Acq: 23 Dec 2019 19:24

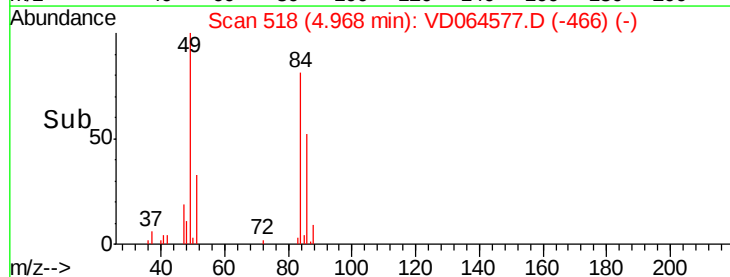
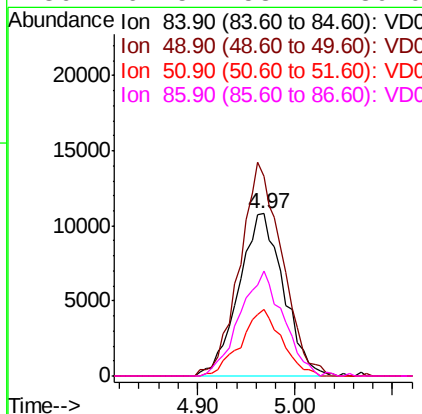
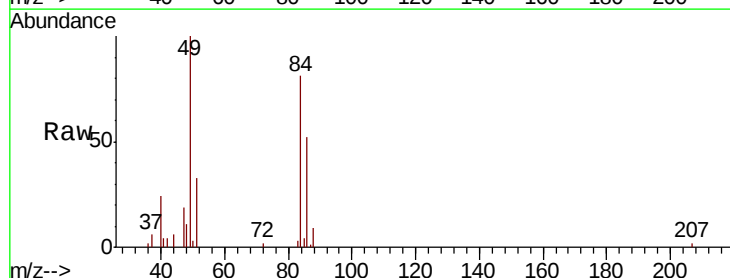
Instrument :
MSVOA_D
ClientSampleId :
SU-01-122319

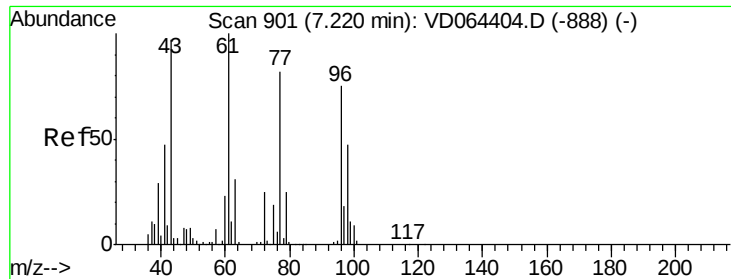
Tot Ion: 43 Resp: 3624
Ion Ratio Lower Upper
43 100
74 26.5 19.7 29.5



#20
Methylene Chloride
Concen: 5.091 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD064577.D
Acq: 23 Dec 2019 19:24

Tgt Ion: 84 Resp: 34546
Ion Ratio Lower Upper
84 100
49 123.2 102.6 153.8
51 41.2 32.0 48.0
86 64.5 53.4 80.0





#25

2-Butanone

Concen: 1.037 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD064577.D

Acq: 23 Dec 2019 19:24

Instrument :

MSVOA_D

ClientSampleId :

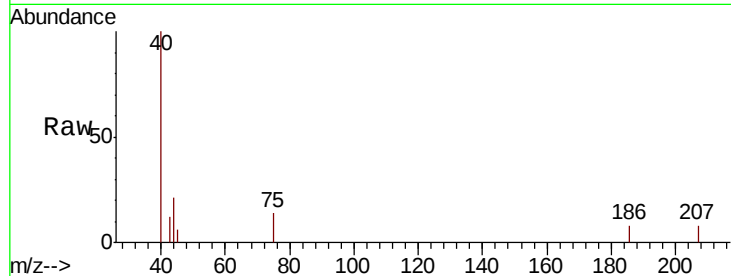
SU-01-122319

Tot Ion: 43 Resp: 1098

Ion Ratio Lower Upper

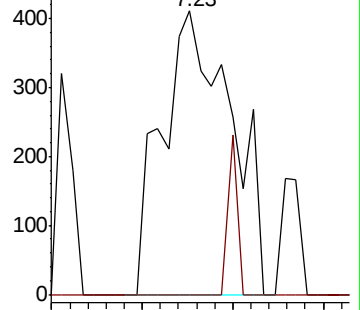
43 100

72 0.0 21.0 31.4#

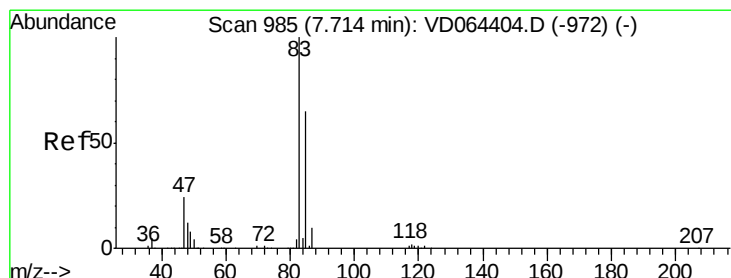
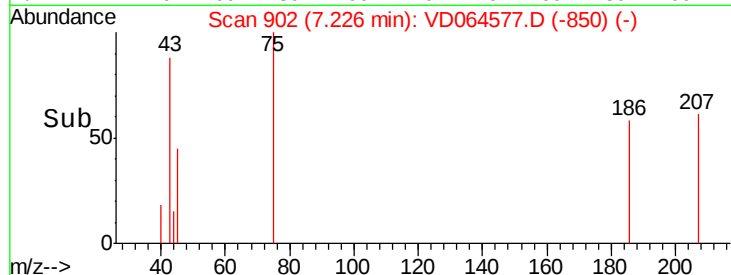


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



Time--> 7.15 7.20 7.25 7.30



#30

Chloroform

Concen: 1.942 ug/l

RT: 7.71 min Scan# 985

Delta R.T. 0.00 min

Lab File: VD064577.D

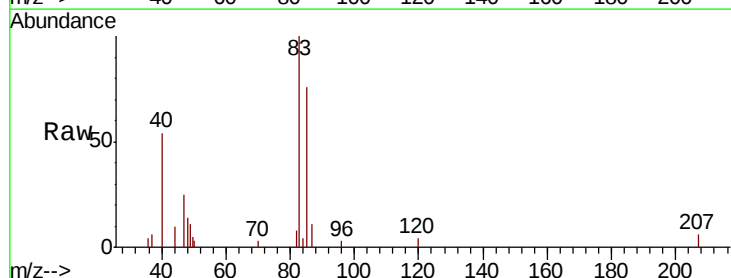
Acq: 23 Dec 2019 19:24

Tgt Ion: 83 Resp: 13740

Ion Ratio Lower Upper

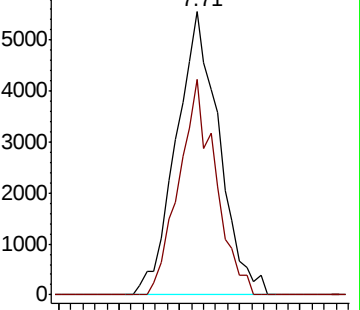
83 100

85 76.3 51.8 77.6

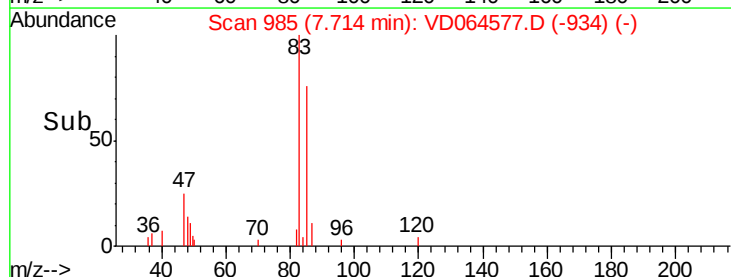


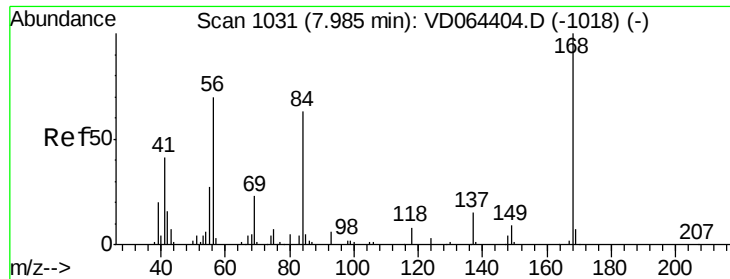
Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC



Time--> 7.60 7.65 7.70 7.75 7.80

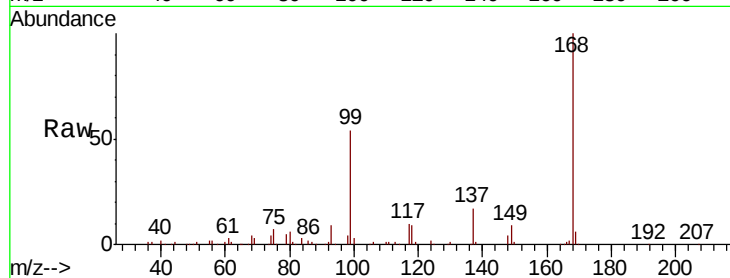




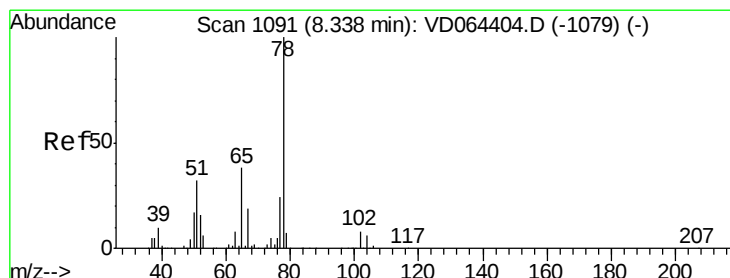
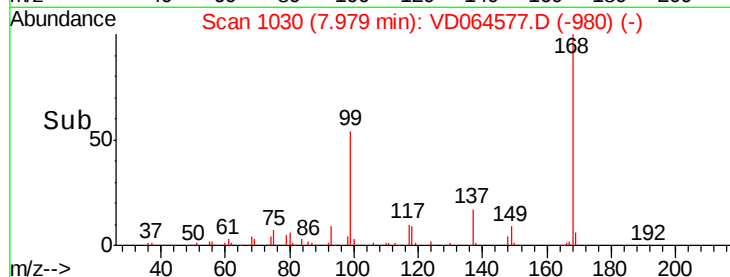
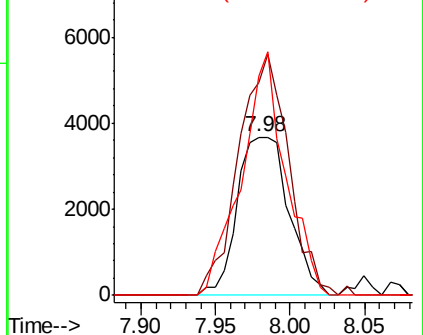
#31
Cyclohexane
Concen: Below Cal
RT: 7.98 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VD064577.D
Acq: 23 Dec 2019 19:24

Instrument :
MSVOA_D
ClientSampleId :
SU-01-122319

Tot Ion: 56 Resp: 8886
Ion Ratio Lower Upper
56 100
69 134.4 26.2 39.4#
84 138.5 70.3 105.5#

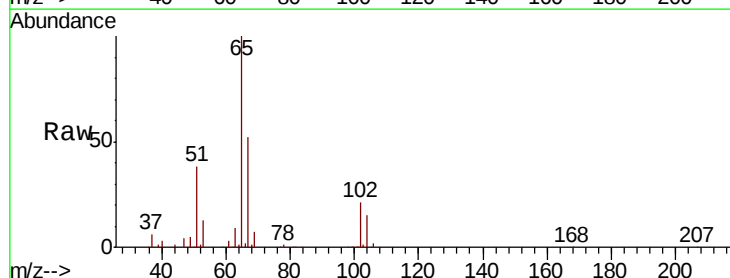


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

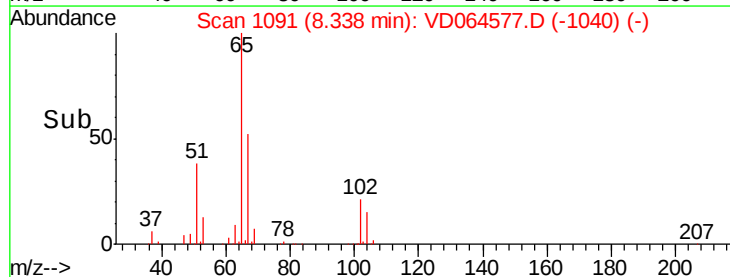
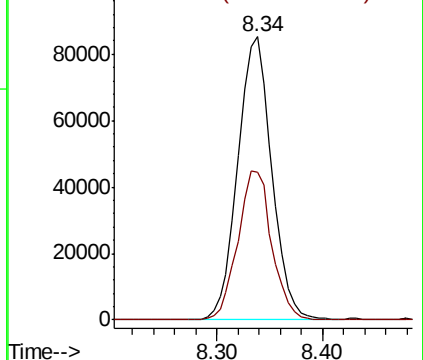


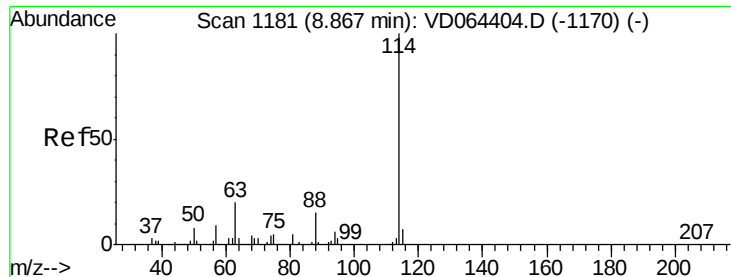
#33
1,2-Dichloroethane-d4
Concen: 51.356 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VD064577.D
Acq: 23 Dec 2019 19:24

Tgt Ion: 65 Resp: 190194
Ion Ratio Lower Upper
65 100
67 52.4 0.0 102.0



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

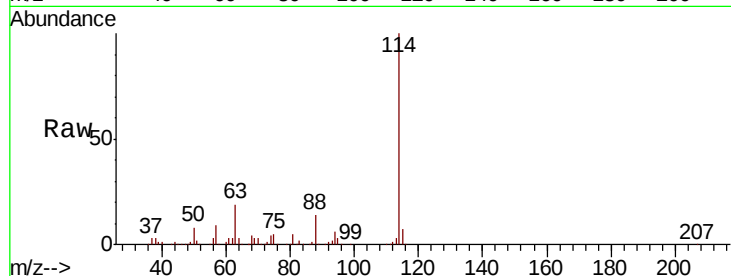




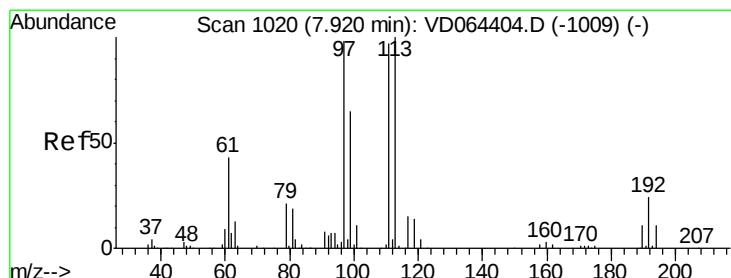
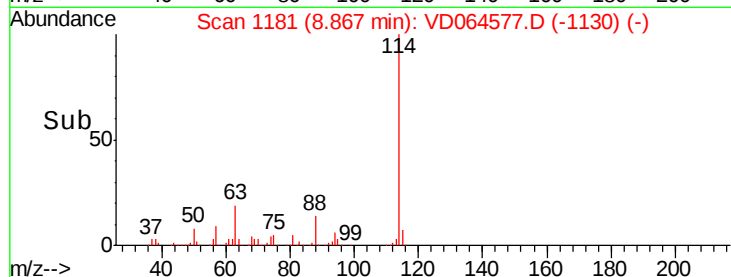
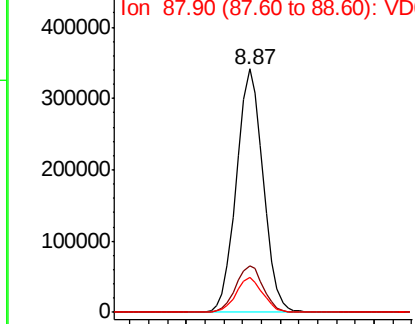
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064577.D
 Acq: 23 Dec 2019 19:24

Instrument :
 MSVOA_D
 ClientSampleId :
 SU-01-122319

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	40.0
88	14.3	0.0	29.2

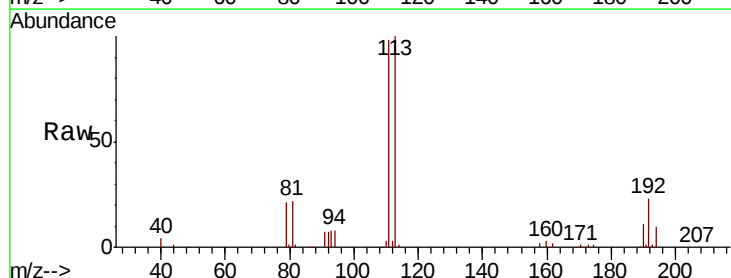


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

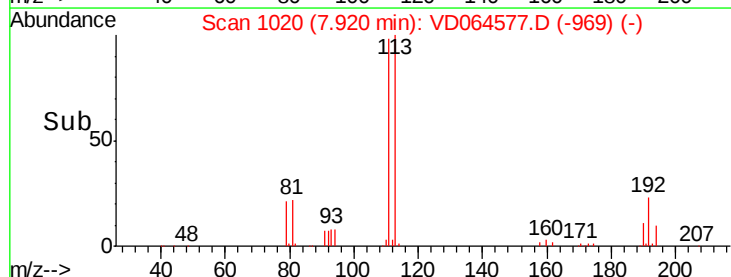
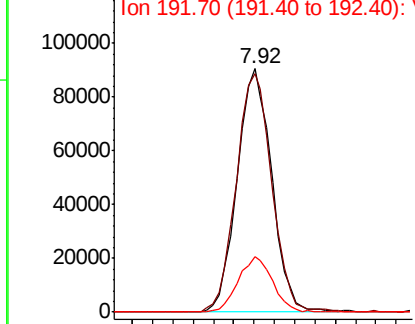


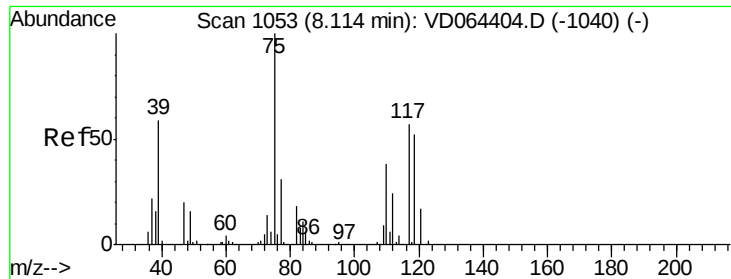
#35
 Dibromofluoromethane
 Concen: 50.387 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064577.D
 Acq: 23 Dec 2019 19:24

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.2	79.4	119.2
192	22.5	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: 4.434 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD064577.D

Acq: 23 Dec 2019 19:24

Instrument :

MSVOA_D

ClientSampleId :

SU-01-122319

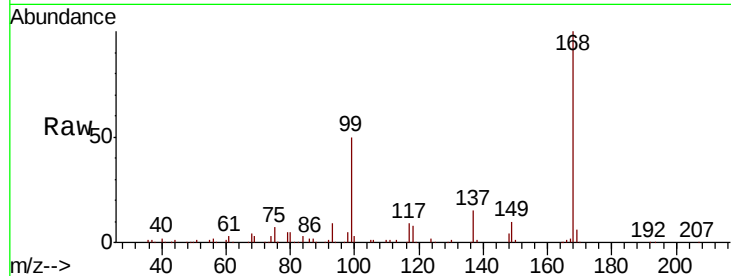
Tot Ion: 75 Resp: 28284

Ion Ratio Lower Upper

75 100

110 10.2 18.6 55.8#

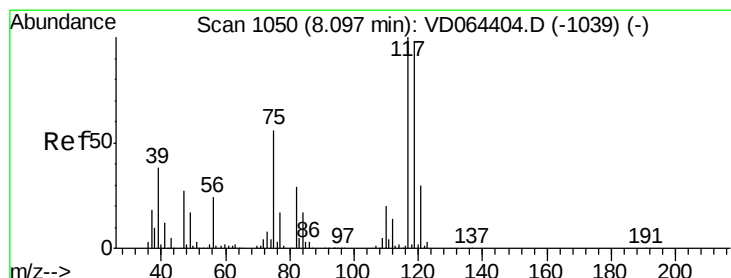
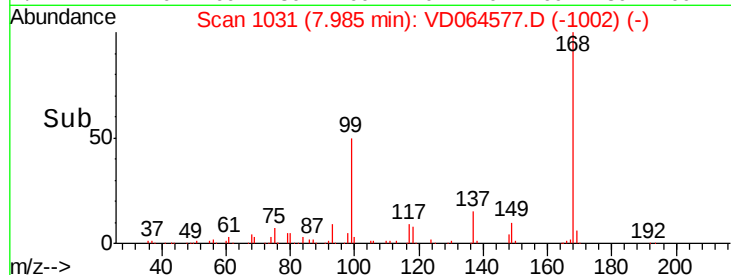
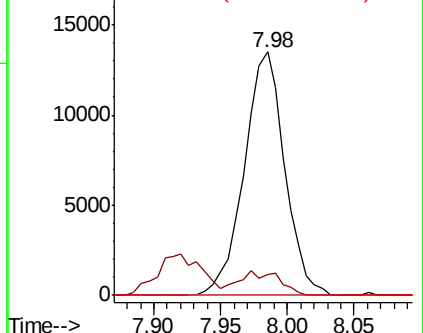
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VD064404.D (-1040) (-)

Ion 109.90 (109.60 to 110.60): VD064404.D (-1040) (-)

Ion 76.90 (76.60 to 77.60): VD064404.D (-1040) (-)



#38

Carbon Tetrachloride

Concen: 5.603 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064577.D

Acq: 23 Dec 2019 19:24

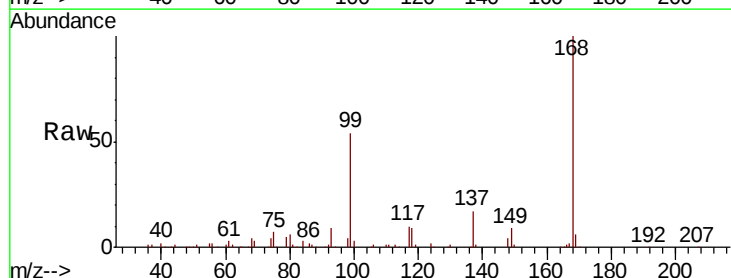
Tgt Ion: 117 Resp: 37721

Ion Ratio Lower Upper

117 100

119 5.7 78.8 118.2#

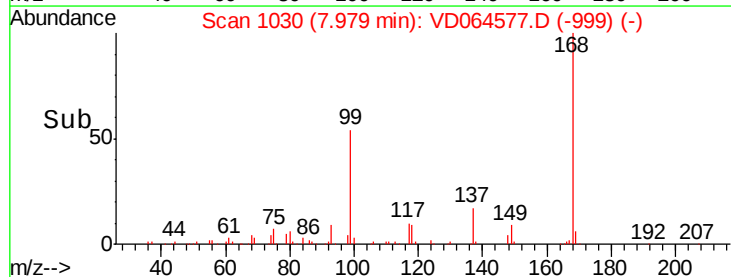
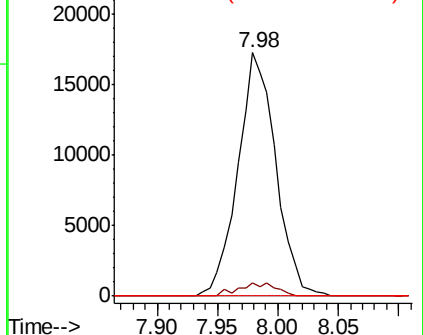
121 0.0 24.2 36.2#

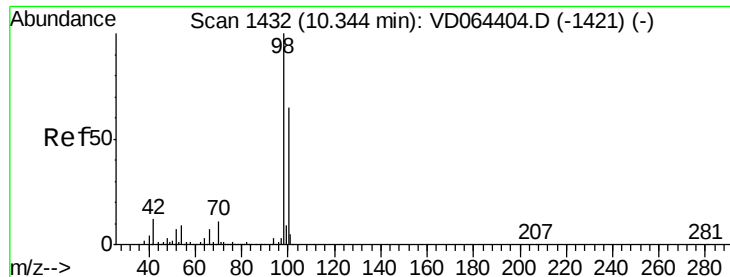


Abundance Ion 116.80 (116.50 to 117.50): VD064404.D (-1039) (-)

Ion 118.80 (118.50 to 119.50): VD064404.D (-1039) (-)

Ion 120.80 (120.50 to 121.50): VD064404.D (-1039) (-)





#50

Toluene-d8

Concen: 48.520 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD064577.D

Acq: 23 Dec 2019 19:24

Instrument :

MSVOA_D

ClientSampleId :

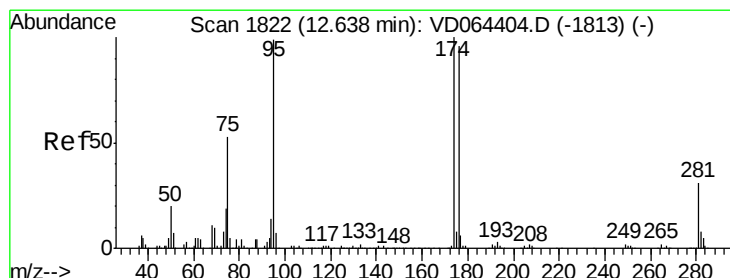
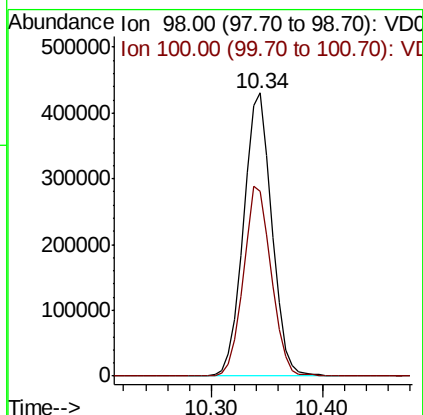
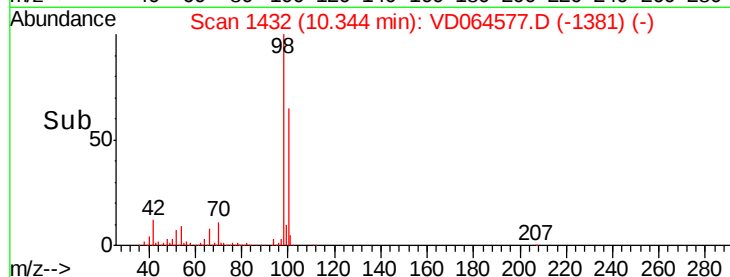
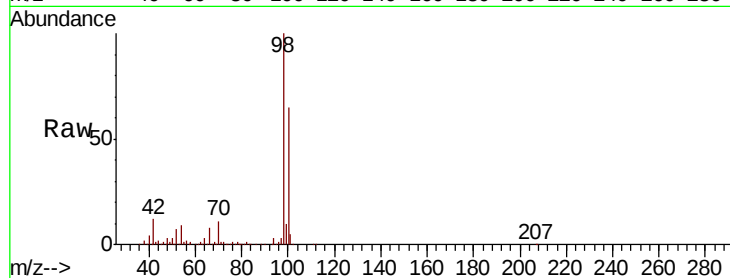
SU-01-122319

Tot Ion: 98 Resp: 776546

Ion Ratio Lower Upper

98 100

100 66.2 52.6 79.0



#62

4-Bromofluorobenzene

Concen: 48.702 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064577.D

Acq: 23 Dec 2019 19:24

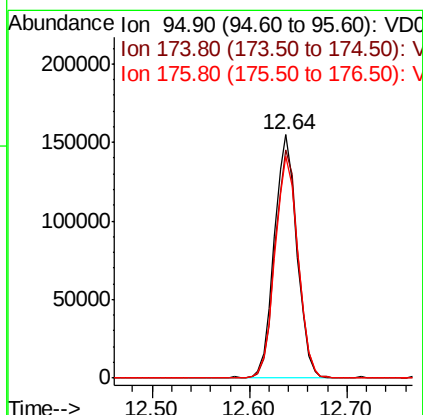
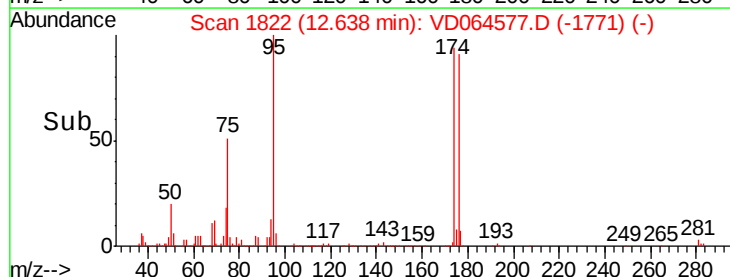
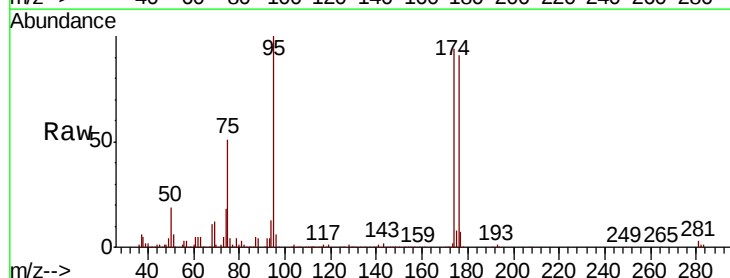
Tgt Ion: 95 Resp: 250497

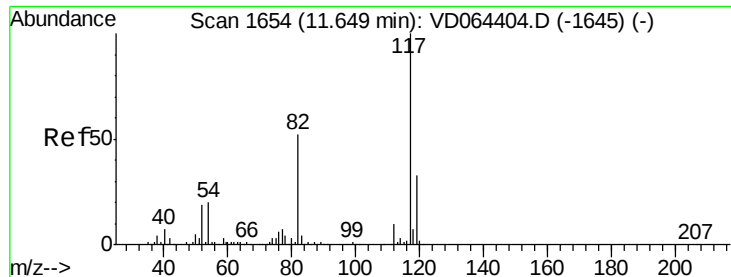
Ion Ratio Lower Upper

95 100

174 94.5 0.0 197.2

176 92.6 0.0 189.6

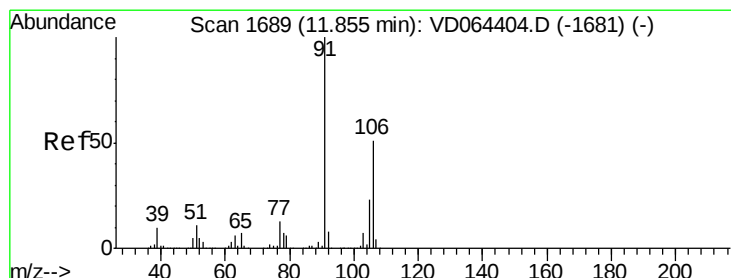
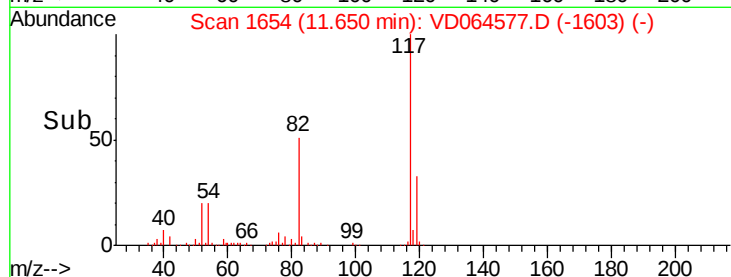
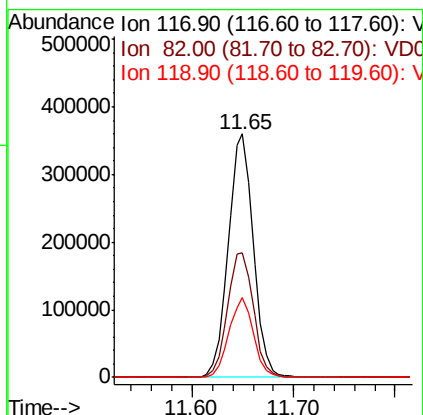
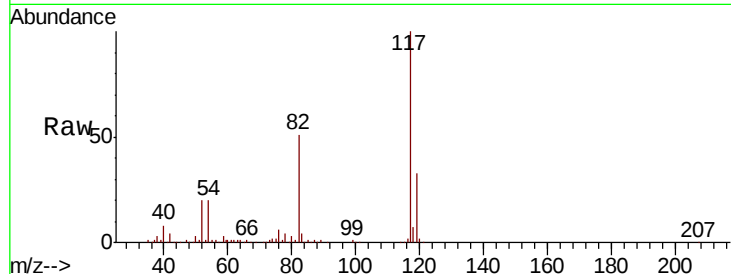




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064577.D
Acq: 23 Dec 2019 19:24

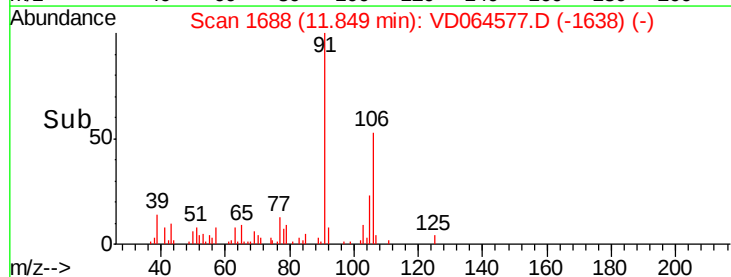
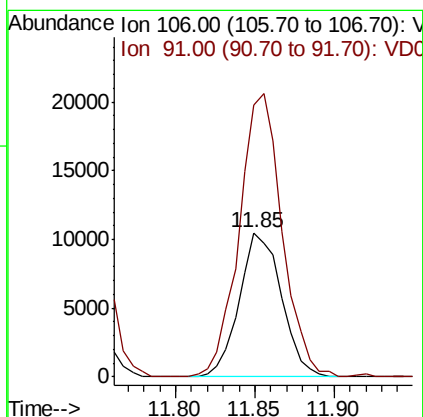
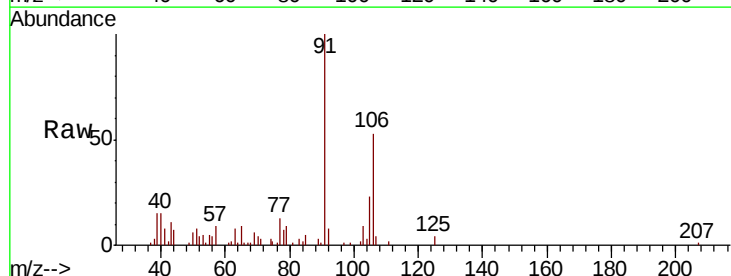
Instrument :
MSVOA_D
ClientSampleId :
SU-01-122319

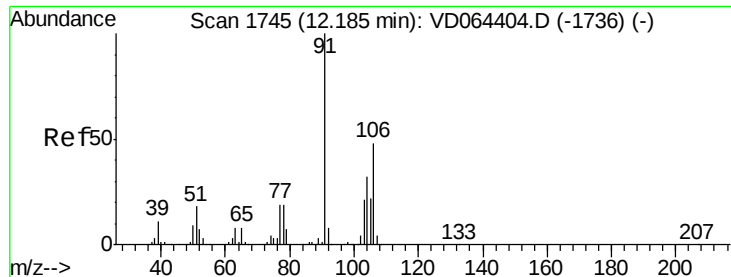
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.2	41.4	62.2
119	32.8	26.2	39.2



#68
m/p-Xylenes
Concen: 2.217 ug/l
RT: 11.85 min Scan# 1688
Delta R.T. -0.01 min
Lab File: VD064577.D
Acq: 23 Dec 2019 19:24

Tgt Ion	Ratio	Lower	Upper
106	100		
91	200.2	157.4	236.2

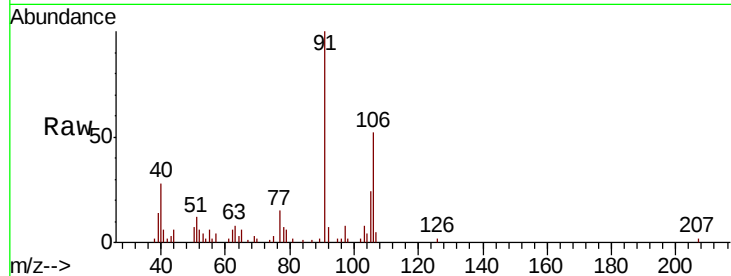




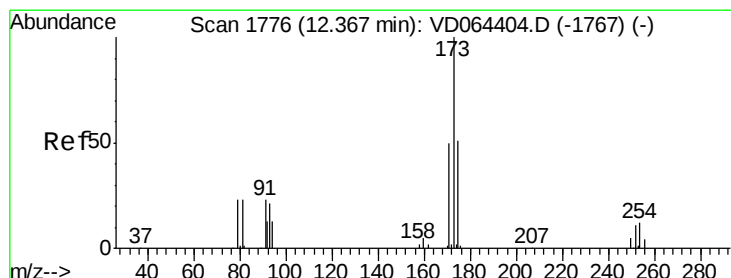
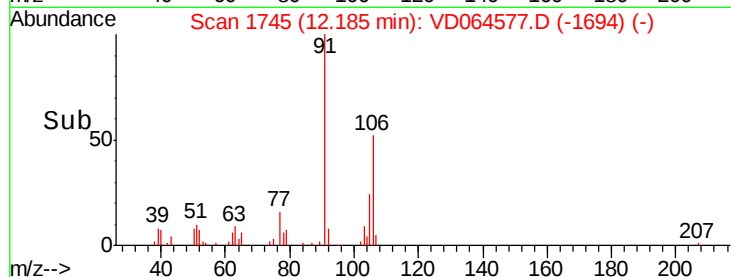
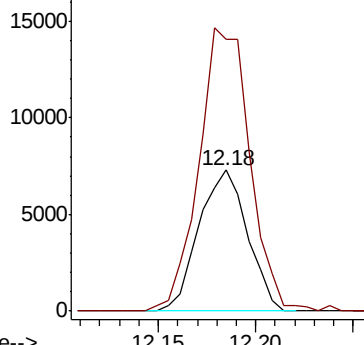
#69
o-Xylene
Concen: 1.557 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064577.D
Acq: 23 Dec 2019 19:24

Instrument :
MSVOA_D
ClientSampleId :
SU-01-122319

Tot Ion:106 Resp: 12542
Ion Ratio Lower Upper
106 100
91 211.2 103.8 311.4

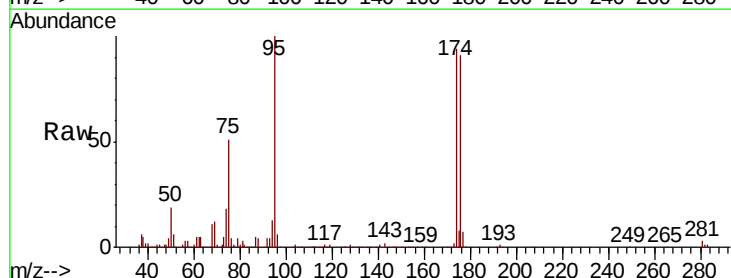


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

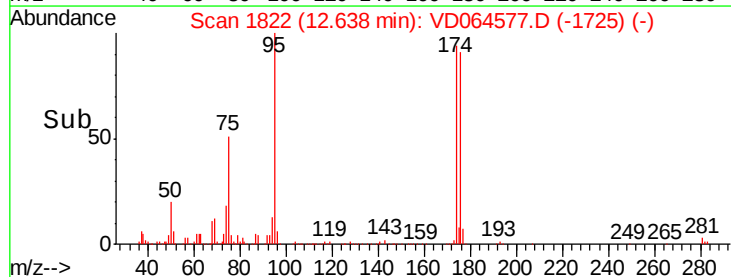
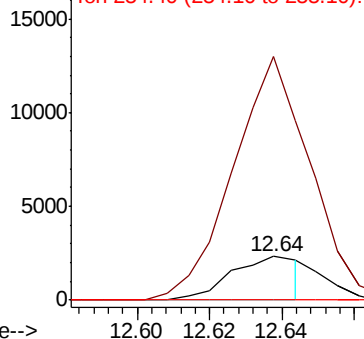


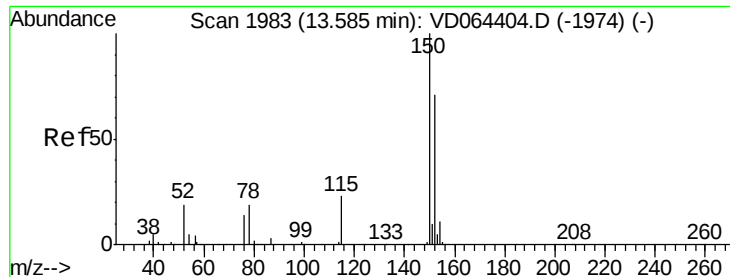
#71
Bromoform
Concen: 1.073 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.27 min
Lab File: VD064577.D
Acq: 23 Dec 2019 19:24

Tgt Ion:173 Resp: 3055
Ion Ratio Lower Upper
173 100
175 513.0 25.3 75.8#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064577.D

Acq: 23 Dec 2019 19:24

Instrument :

MSVOA_D

ClientSampleId :

SU-01-122319

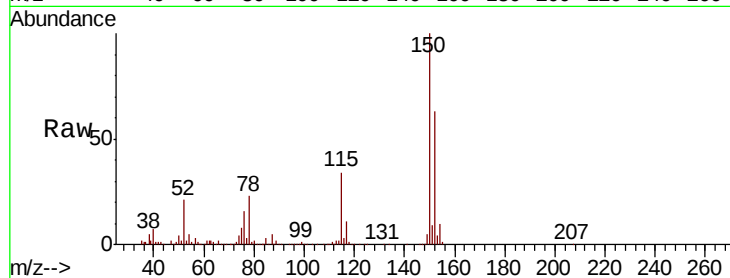
Tot Ion:152 Resp: 226147

Ion Ratio Lower Upper

152 100

115 54.9 26.7 80.1

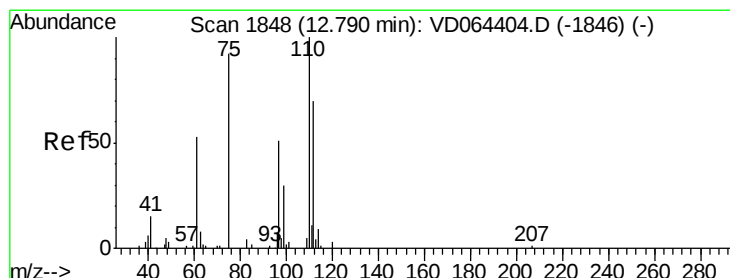
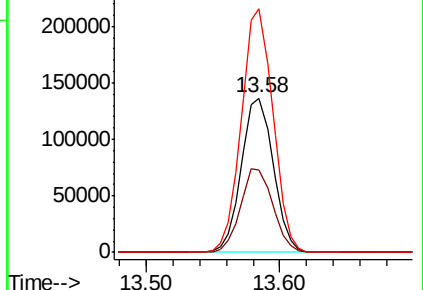
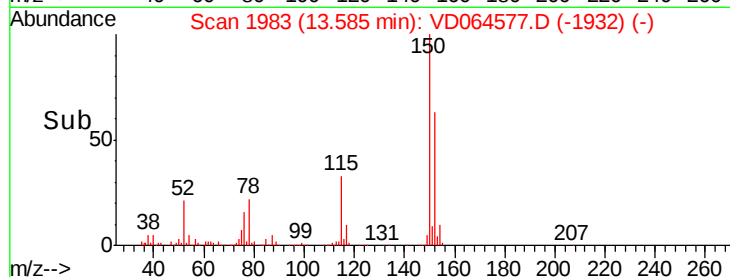
150 156.1 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 70.533 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064577.D

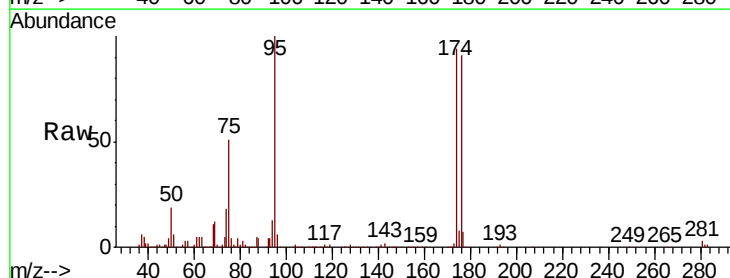
Acq: 23 Dec 2019 19:24

Tgt Ion: 75 Resp: 131174

Ion Ratio Lower Upper

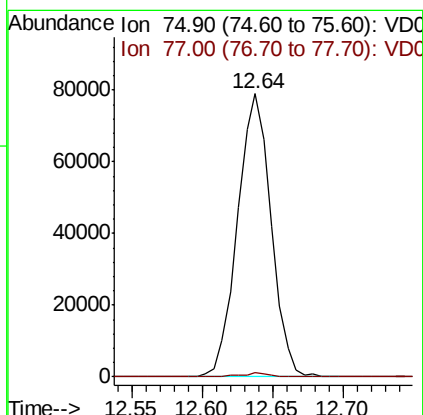
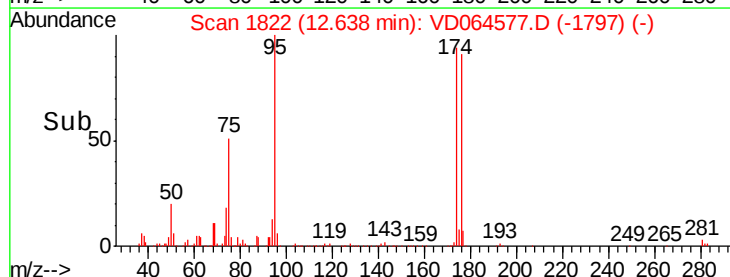
75 100

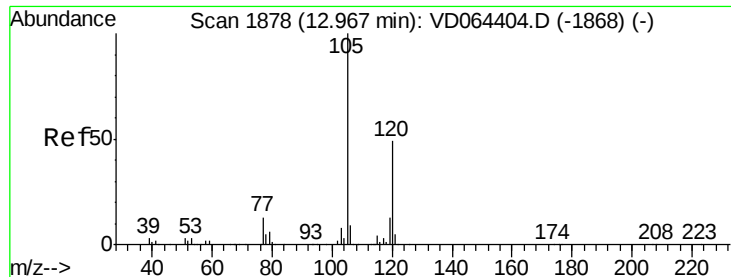
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

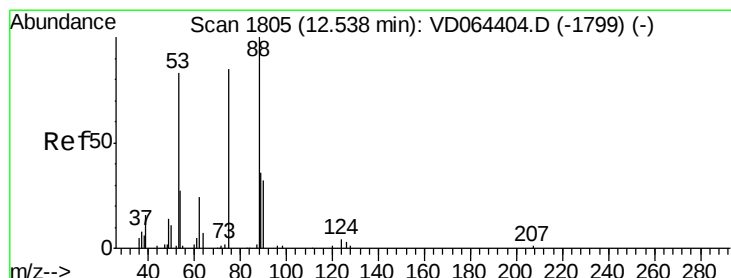
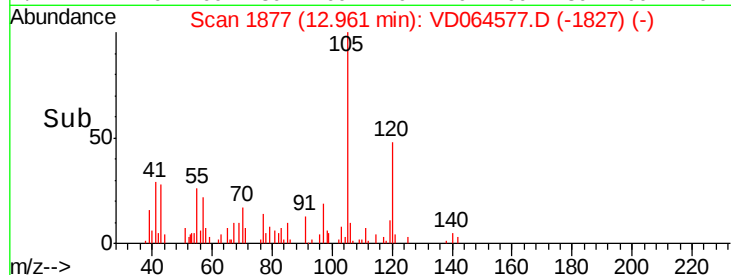
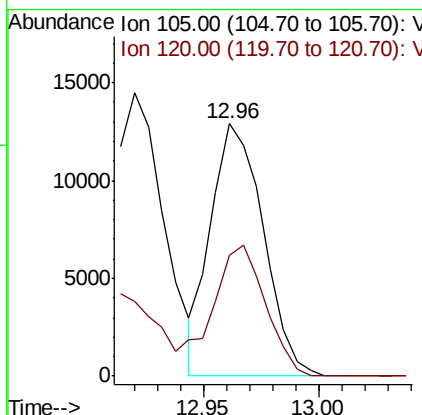
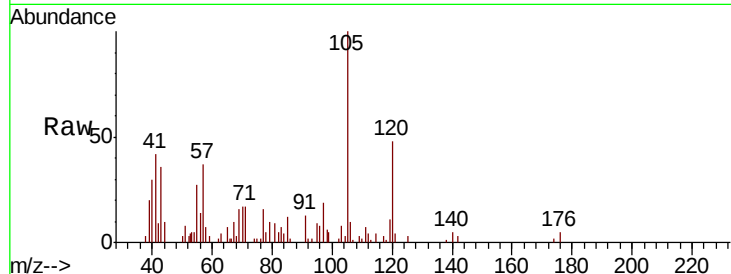




#80
 1,3,5-Trimethylbenzene
 Concen: 1.535 ug/l
 RT: 12.96 min Scan# 1877
 Delta R.T. -0.01 min
 Lab File: VD064577.D
 Acq: 23 Dec 2019 19:24

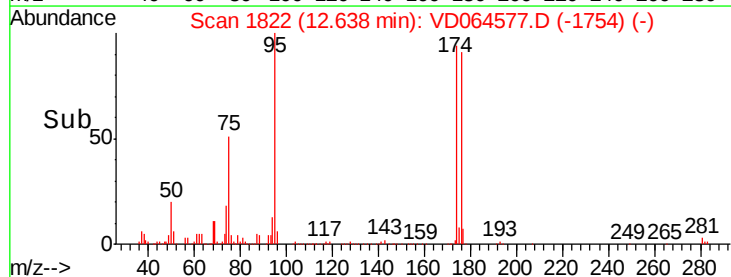
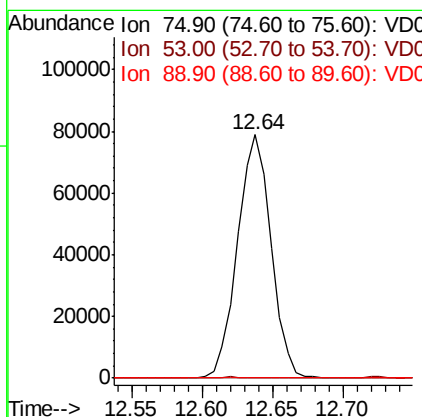
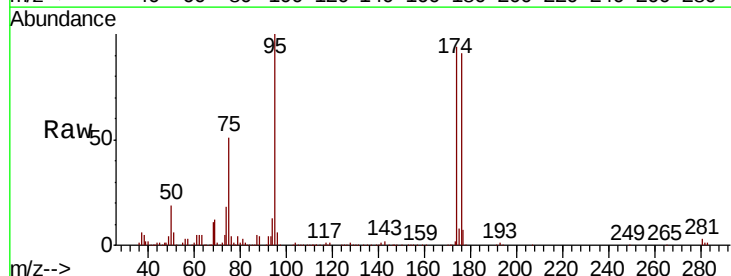
Instrument :
 MSVOA_D
 ClientSampleId :
 SU-01-122319

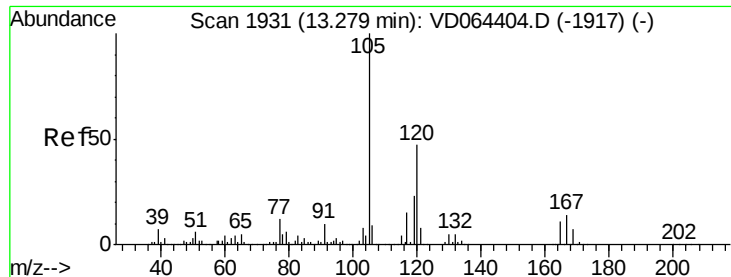
Tot Ion:105 Resp: 20407
 Ion Ratio Lower Upper
 105 100
 120 52.6 25.1 75.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 153.798 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.10 min
 Lab File: VD064577.D
 Acq: 23 Dec 2019 19:24

Tgt Ion: 75 Resp: 131174
 Ion Ratio Lower Upper
 75 100
 53 0.2 81.0 121.6#
 89 0.0 38.5 57.7#





#84

1,2,4-Trimethylbenzene

Concen: 4.926 ug/l

RT: 13.28 min Scan# 1931

Delta R.T. 0.00 min

Lab File: VD064577.D

Acq: 23 Dec 2019 19:24

Instrument :

MSVOA_D

ClientSampleId :

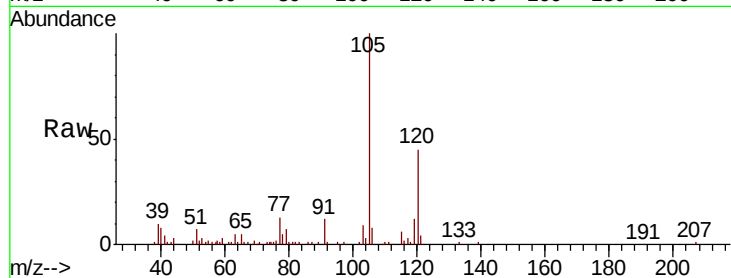
SU-01-122319

Tot Ion:105 Resp: 65838

Ion Ratio Lower Upper

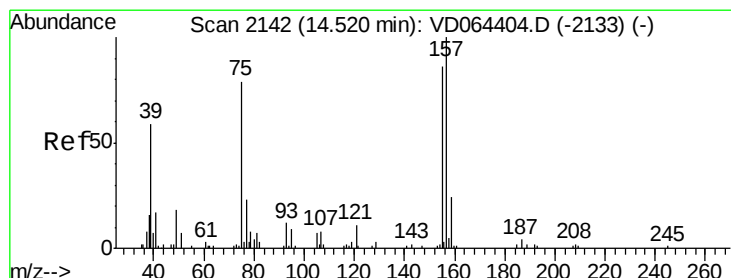
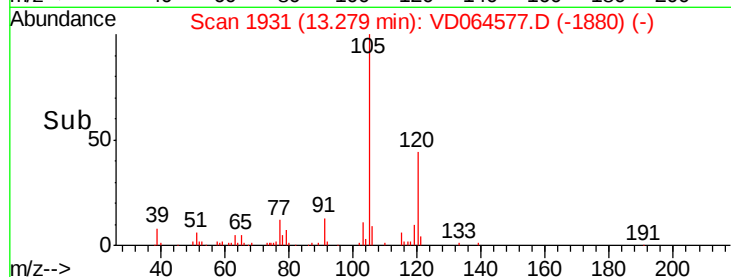
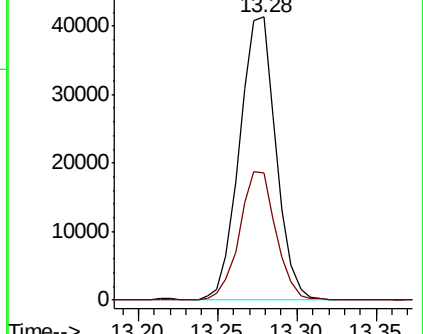
105 100

120 45.6 23.6 70.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.52 min Scan# 2142

Delta R.T. 0.00 min

Lab File: VD064577.D

Acq: 23 Dec 2019 19:24

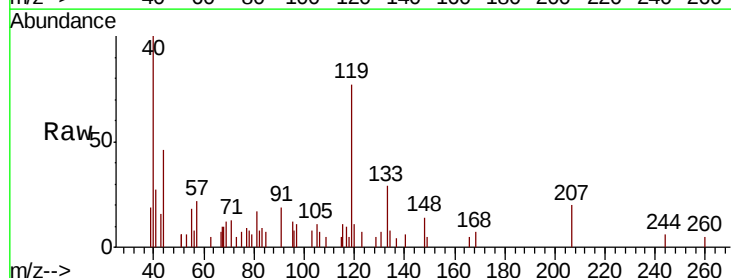
Tgt Ion: 75 Resp: 79

Ion Ratio Lower Upper

75 100

155 0.0 51.9 155.7#

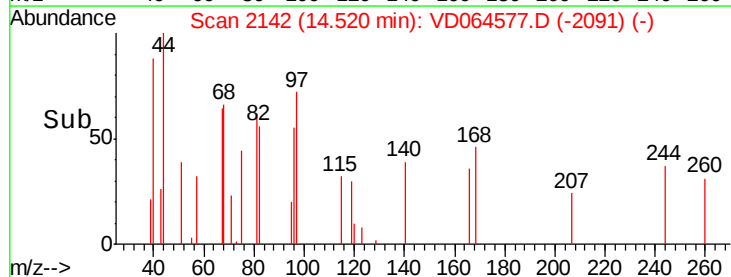
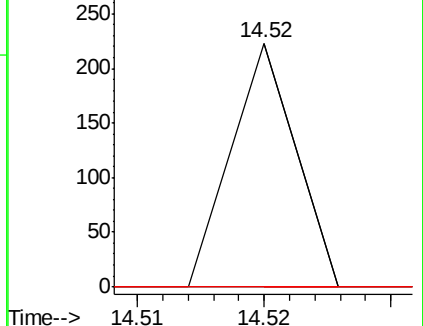
157 0.0 63.2 189.8#

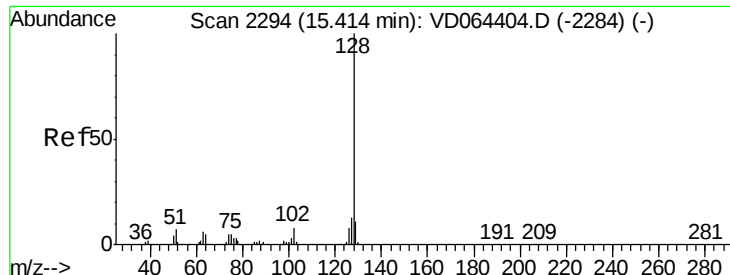


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 22.722 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD064577.D

Acq: 23 Dec 2019 19:24

Instrument :

MSVOA_D

ClientSampleId :

SU-01-122319

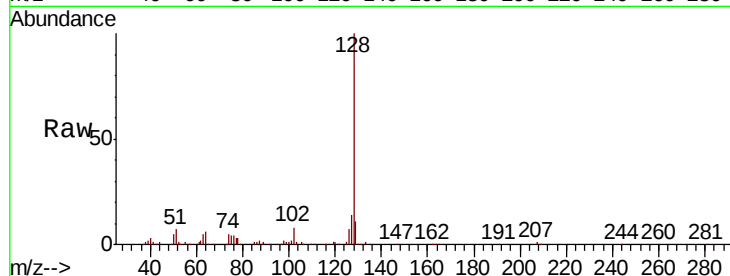
Tot Ion:128 Resp: 189200

Ion Ratio Lower Upper

128 100

127 13.9 10.5 15.7

129 11.4 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

