

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD123019\
 Data File : VD064675.D
 Acq On : 30 Dec 2019 13:43
 Operator : VA/SY
 Sample : K6114-01
 Misc : 7.54G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 EO-O1-122719

Quant Time: Dec 31 07:08:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

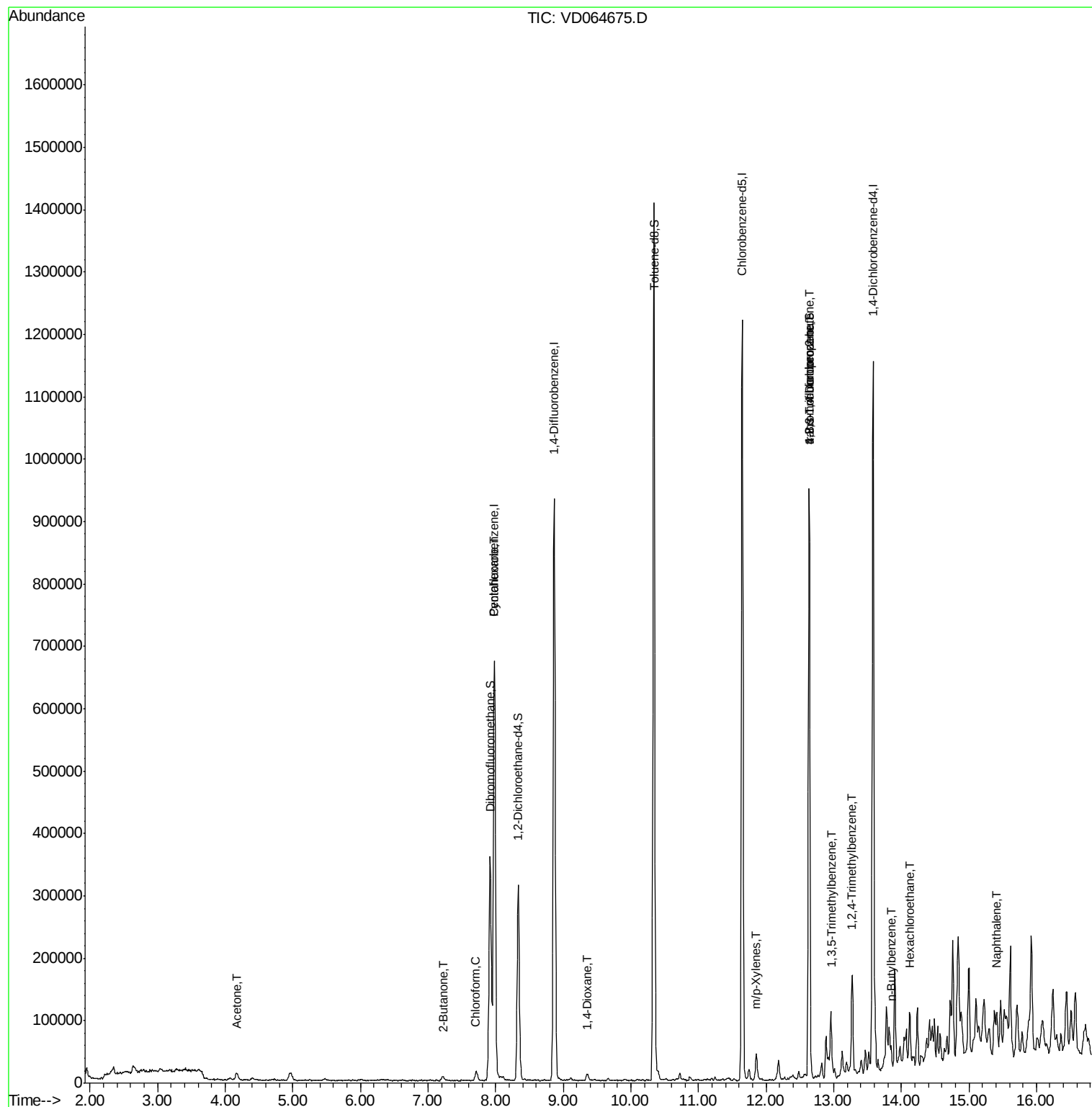
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	528682	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	800661	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	681574	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	295154	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	246256	52.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.64%	
35) Dibromofluoromethane	7.92	113	244281	49.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.46%	
50) Toluene-d8	10.34	98	948069	50.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.78%	
62) 4-Bromofluorobenzene	12.64	95	274308	46.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.22%	
Target Compounds						
					Qvalue	
16) Acetone	4.17	43	19335	21.608	ug/l #	82
20) Methylene Chloride	4.97	84	8857	Below Cal		88
25) 2-Butanone	7.23	43	2779	2.169	ug/l #	80
30) Chloroform	7.71	83	13141	1.442	ug/l	99
31) Cyclohexane	7.98	56	14580	1.677	ug/l #	25
49) 1,4-Dioxane	9.34	88	56	1.734	ug/l #	1
68) m/p-Xylenes	11.86	106	10564	1.066	ug/l	98
76) 1,2,3-Trichloropropane	12.64	75	147467	63.271	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.97	105	24014	1.386	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.64	75	147467	132.329	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.27	105	89249	5.172	ug/l	100
89) n-Butylbenzene	13.85	91	22312	1.256	ug/l #	72
90) Hexachloroethane	14.13	117	4662	1.238	ug/l #	21
95) Naphthalene	15.41	128	50609	5.157	ug/l #	92

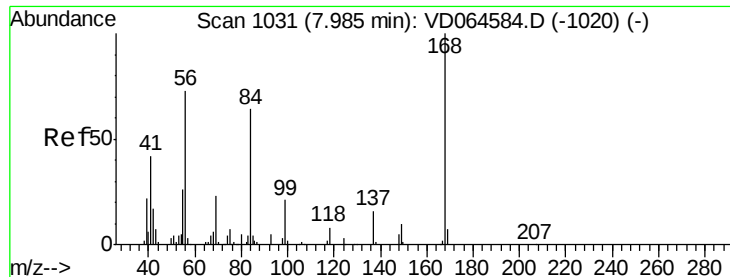
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064675.D

Acq: 30 Dec 2019 13:43

Instrument :

MSVOA_D

ClientSampleId :

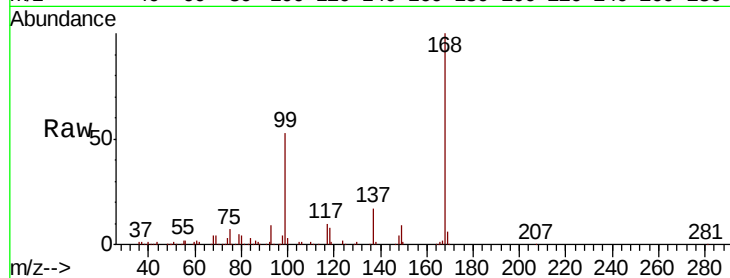
EO-O1-122719

Tot Ion:168 Resp: 528682

Ion Ratio Lower Upper

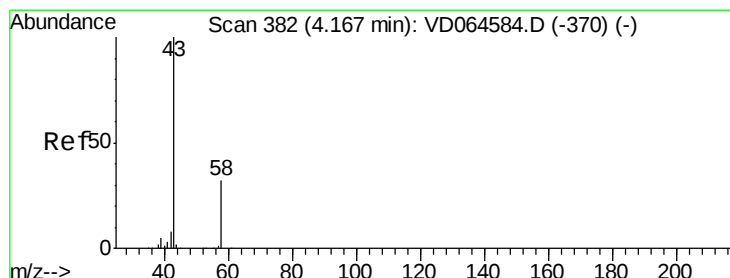
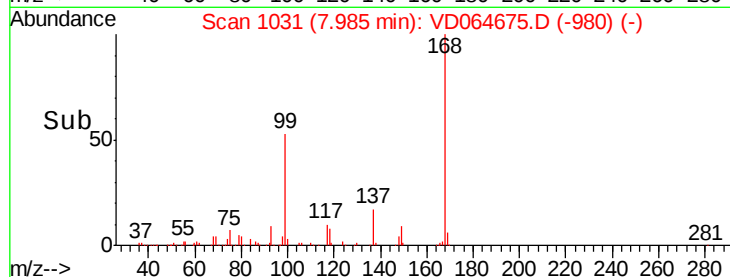
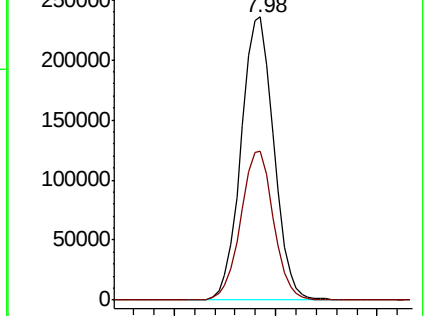
168 100

99 52.3 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#16

Acetone

Concen: 21.608 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD064675.D

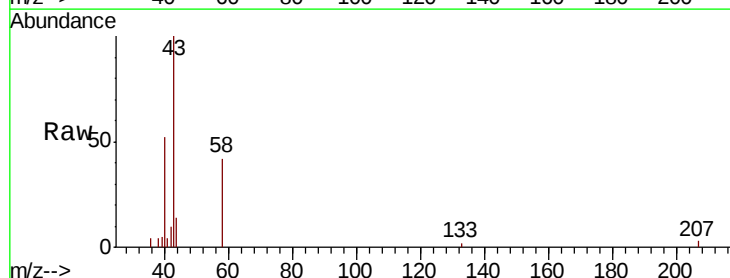
Acq: 30 Dec 2019 13:43

Tgt Ion: 43 Resp: 19335

Ion Ratio Lower Upper

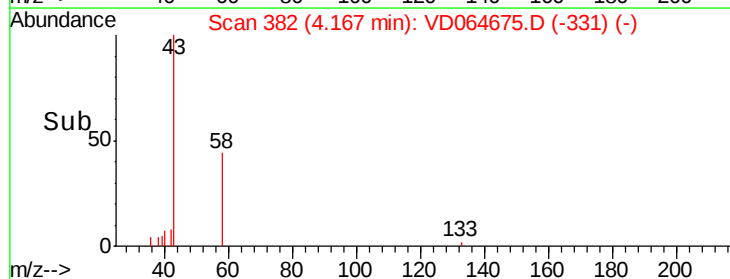
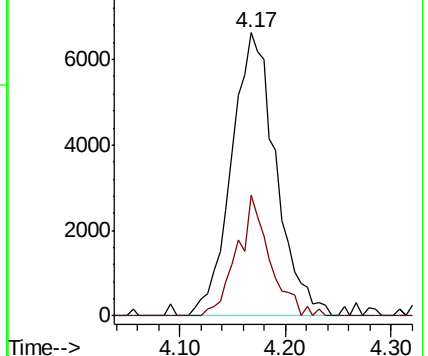
43 100

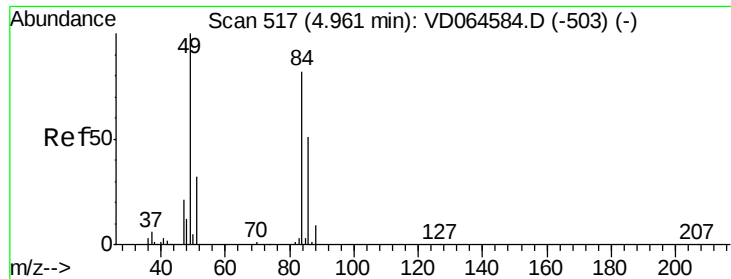
58 42.5 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

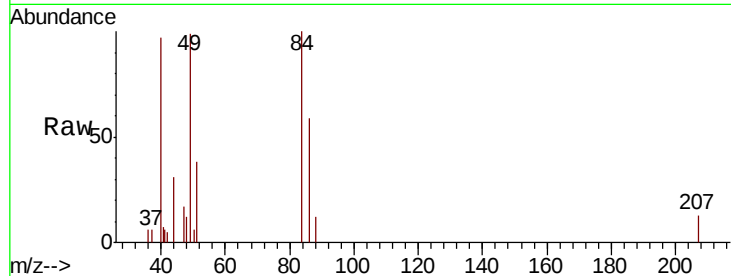




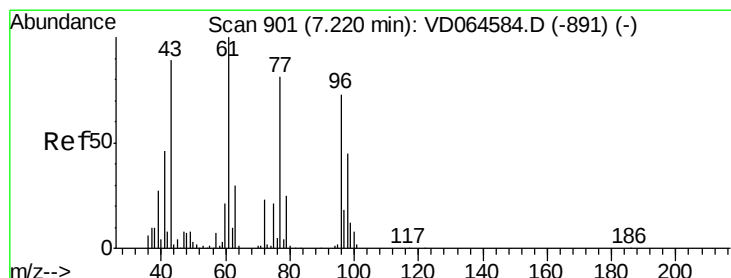
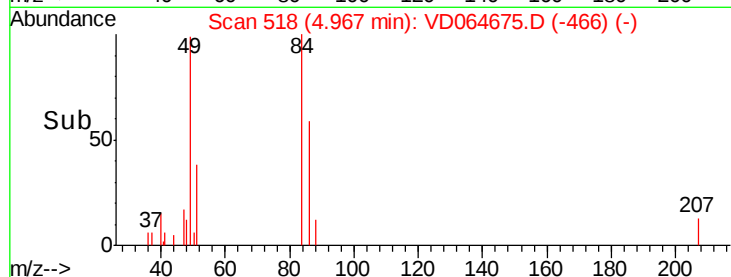
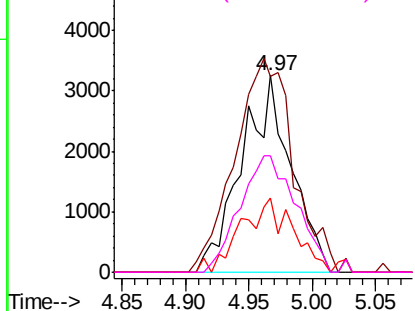
#20
Methylene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD064675.D
Acq: 30 Dec 2019 13:43

Instrument :
MSVOA_D
ClientSampleId :
EO-O1-122719

Tot Ion:	84	Resp:	8857
Ion	Ratio	Lower	Upper
84	100		
49	99.4	97.2	145.8
51	37.7	31.4	47.0
86	59.4	49.3	73.9

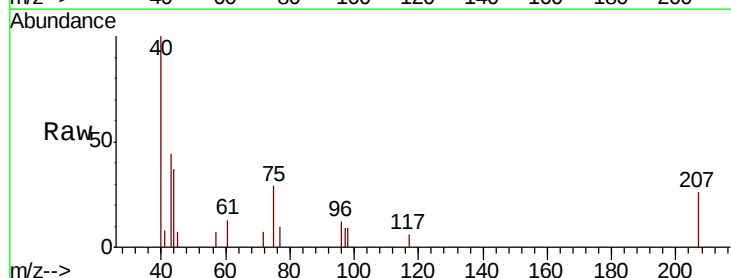


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

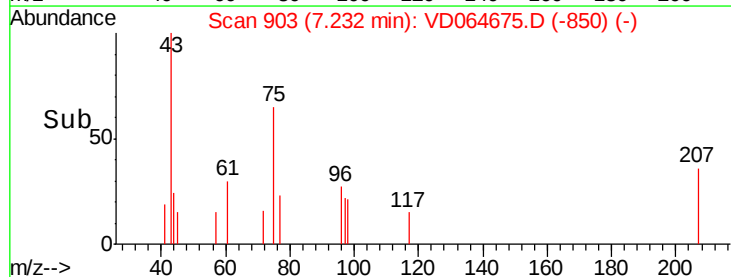
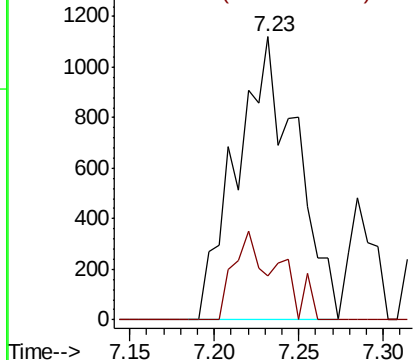


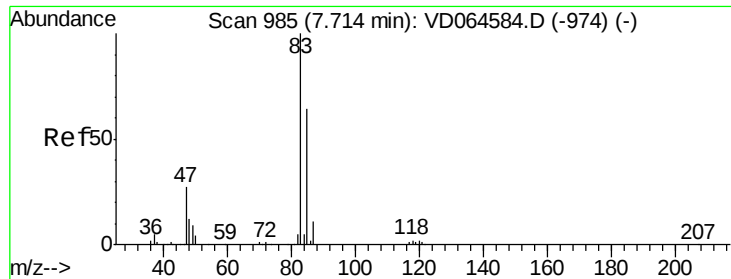
#25
2-Butanone
Concen: 2.169 ug/l
RT: 7.23 min Scan# 903
Delta R.T. 0.01 min
Lab File: VD064675.D
Acq: 30 Dec 2019 13:43

Tgt Ion:	43	Resp:	2779
Ion	Ratio	Lower	Upper
43	100		
72	15.6	20.7	31.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC

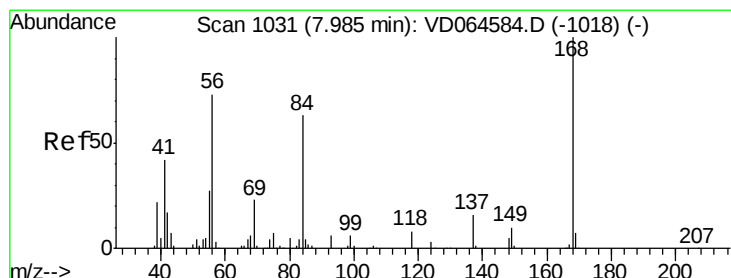
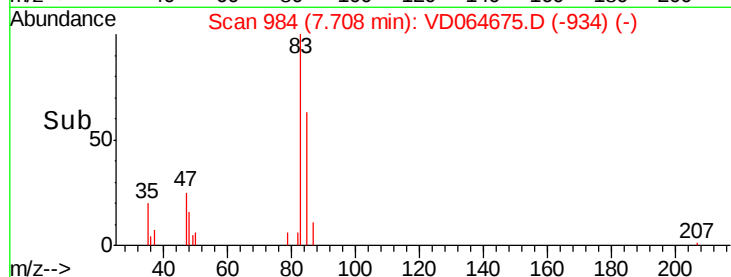
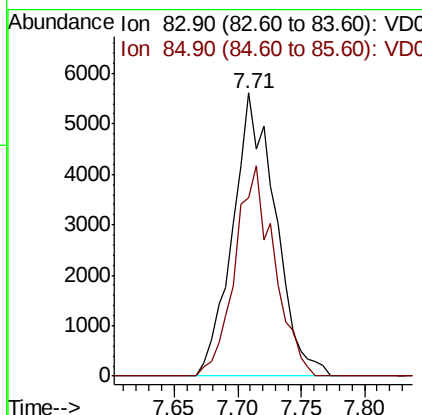
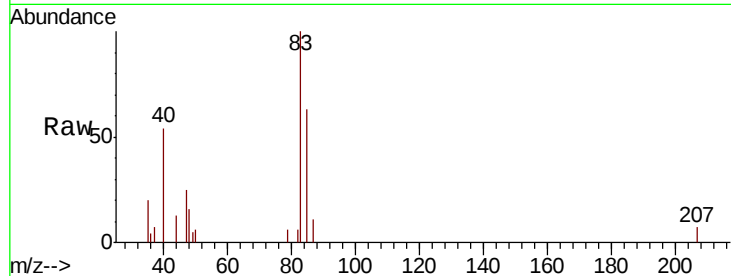




#30
Chloroform
Concen: 1.442 ug/l
RT: 7.71 min Scan# 984
Delta R.T. -0.01 min
Lab File: VD064675.D
Acq: 30 Dec 2019 13:43

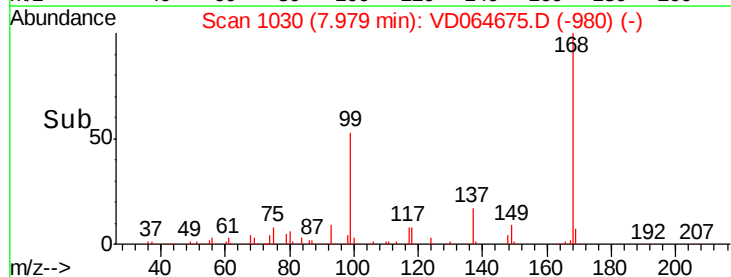
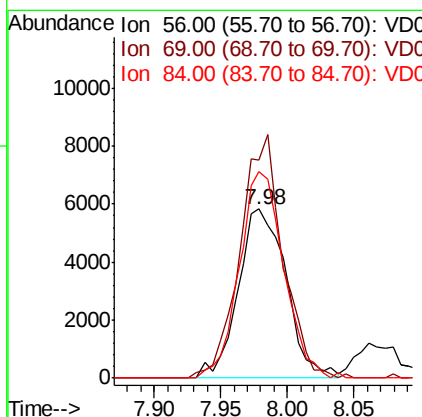
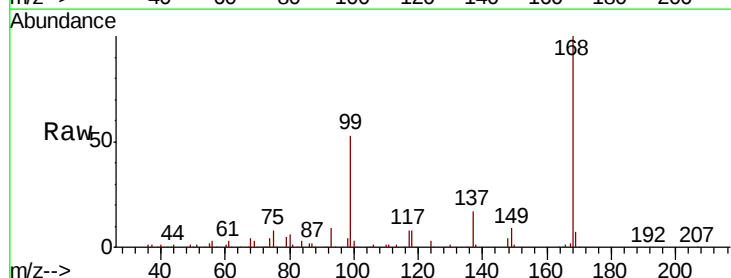
Instrument :
MSVOA_D
ClientSampleId :
EO-O1-122719

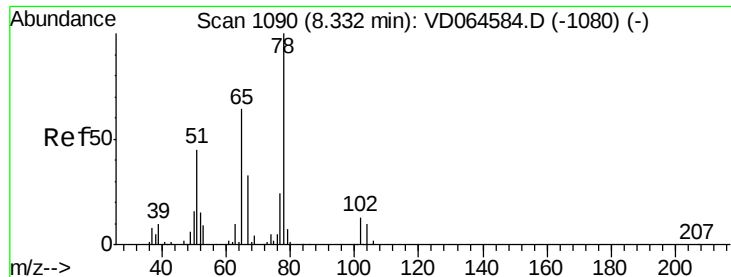
Tot Ion: 83 Resp: 13141
Ion Ratio Lower Upper
83 100
85 62.9 51.1 76.7



#31
Cyclohexane
Concen: 1.677 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD064675.D
Acq: 30 Dec 2019 13:43

Tgt Ion: 56 Resp: 14580
Ion Ratio Lower Upper
56 100
69 128.8 24.7 37.1#
84 122.2 69.4 104.2#

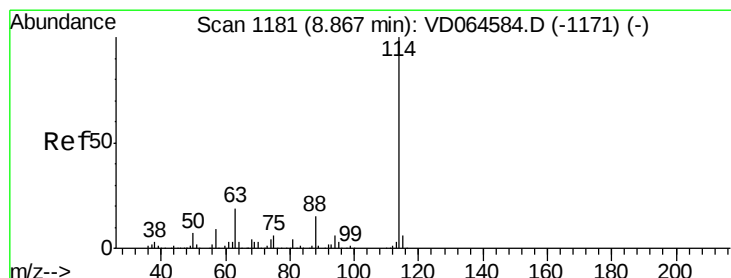
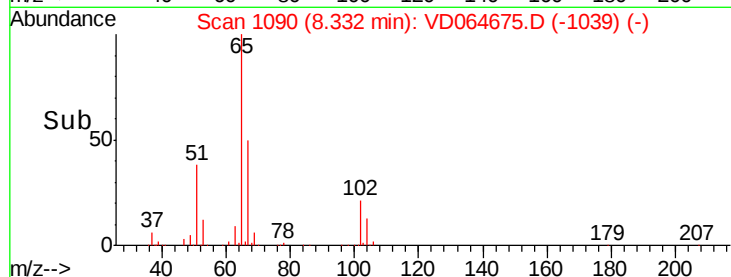
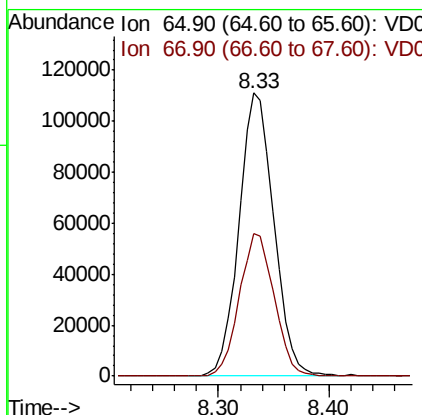
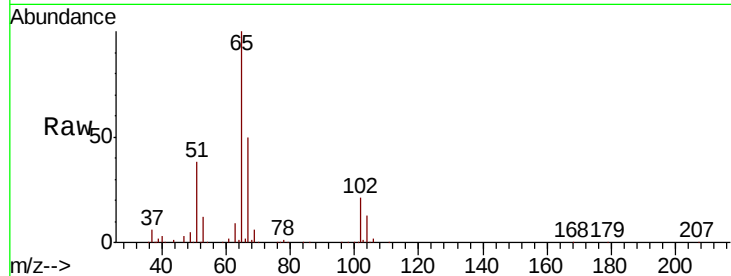




#33
 1,2-Dichloroethane-d4
 Concen: 52.824 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD064675.D
 Acq: 30 Dec 2019 13:43

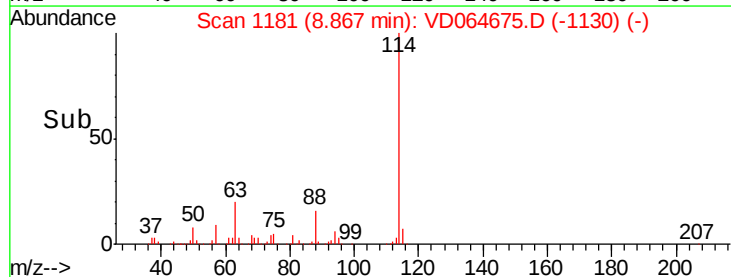
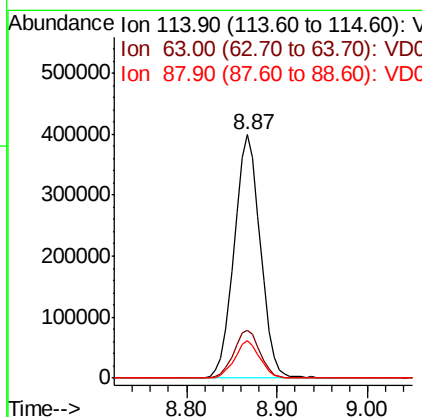
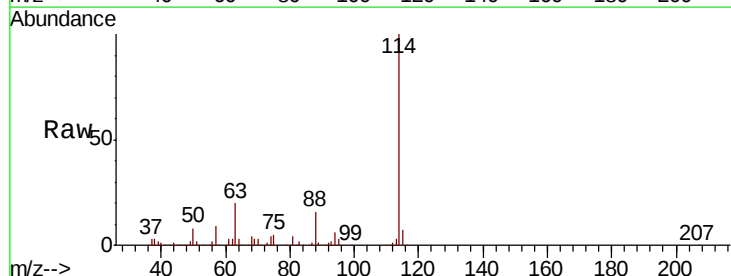
Instrument :
 MSVOA_D
 ClientSampleId :
 EO-O1-122719

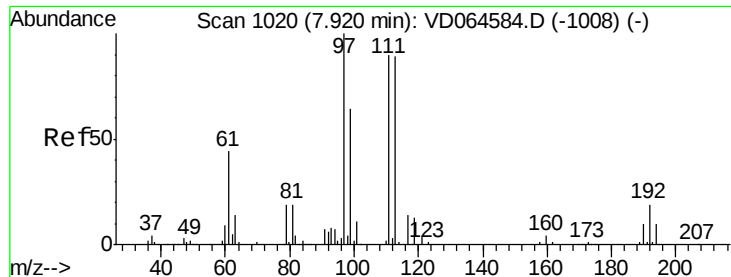
Tot Ion: 65 Resp: 246256
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064675.D
 Acq: 30 Dec 2019 13:43

Tgt Ion: 114 Resp: 800661
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 38.0
 88 15.7 0.0 29.2

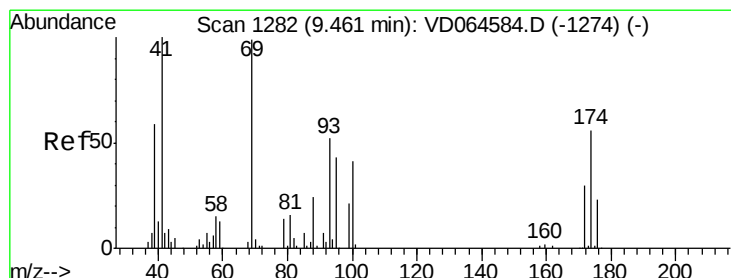
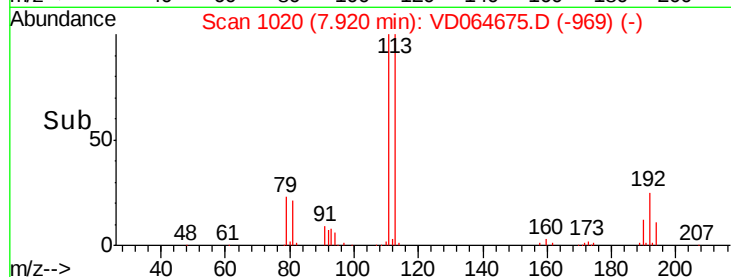
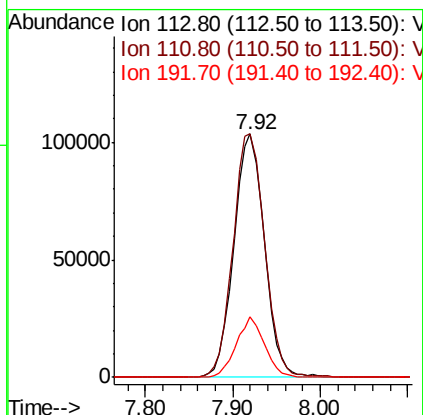
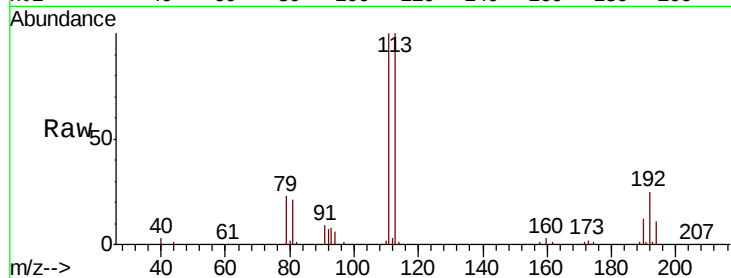




#35
 Dibromofluoromethane
 Concen: 49.730 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064675.D
 Acq: 30 Dec 2019 13:43

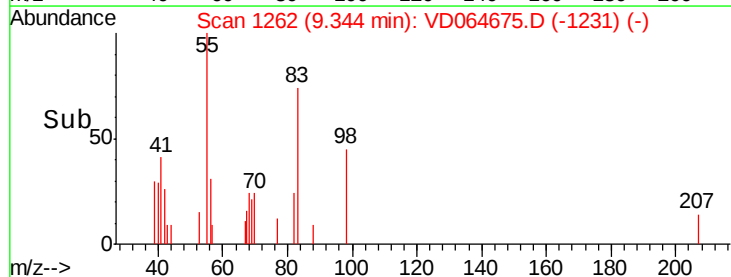
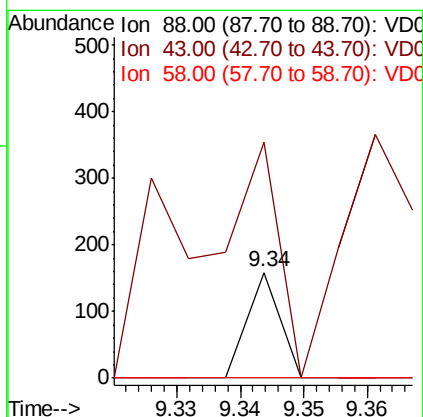
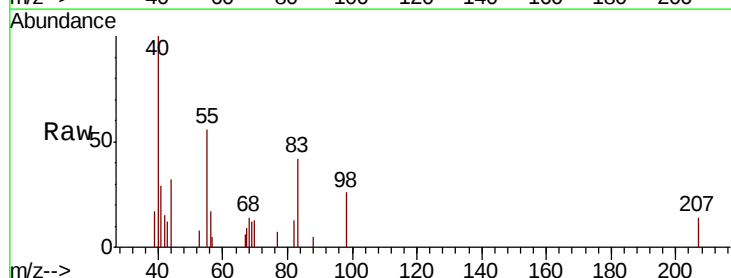
Instrument :
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 ClientSampleId :
 EO-O1-122719

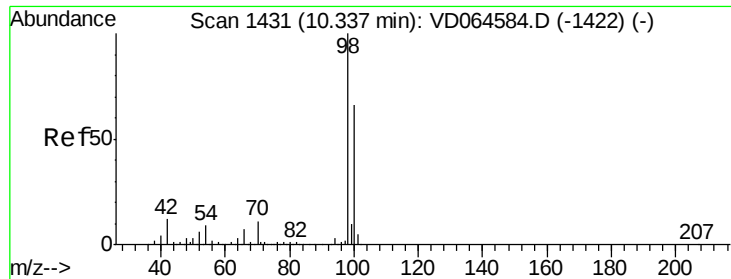
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	80.6	121.0
192	22.7	17.9	26.9



#49
 1,4-Dioxane
 Concen: 1.734 ug/l
 RT: 9.34 min Scan# 1262
 Delta R.T. -0.12 min
 Lab File: VD064675.D
 Acq: 30 Dec 2019 13:43

Tgt Ion	Ratio	Lower	Upper
88	100		
43	646.4	27.7	41.5#
58	0.0	53.8	80.6#





#50

Toluene-d8

Concen: 50.394 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD064675.D

Acq: 30 Dec 2019 13:43

Instrument :

MSVOA_D

ClientSampleId :

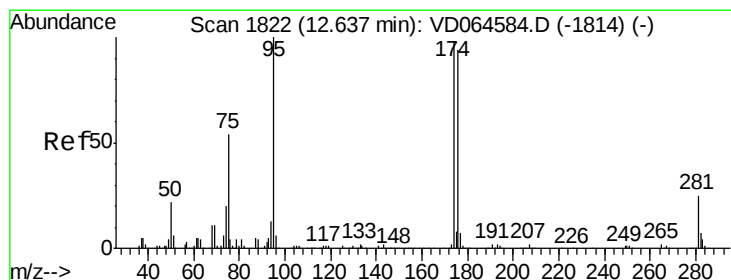
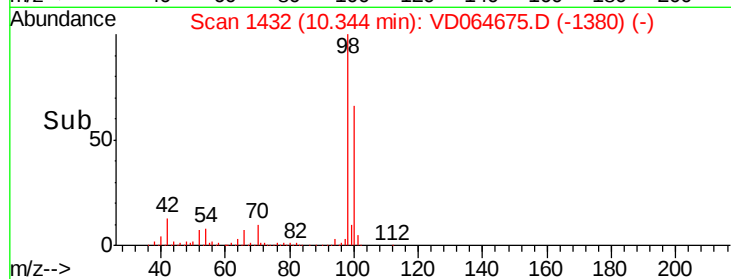
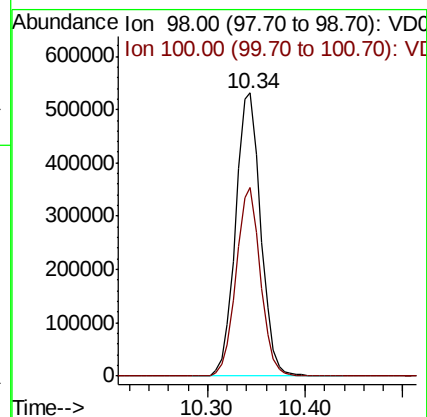
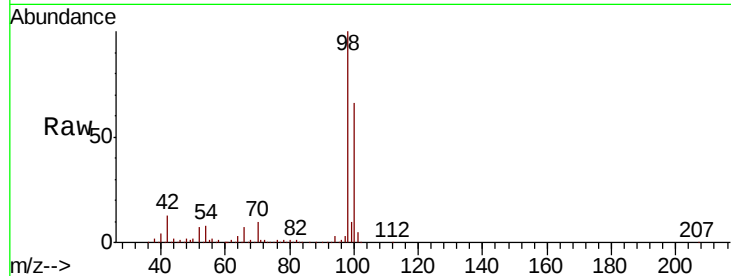
EO-O1-122719

Tot Ion: 98 Resp: 948069

Ion Ratio Lower Upper

98 100

100 64.6 51.7 77.5



#62

4-Bromofluorobenzene

Concen: 46.111 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064675.D

Acq: 30 Dec 2019 13:43

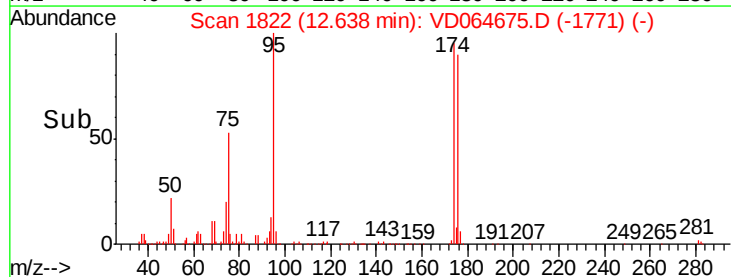
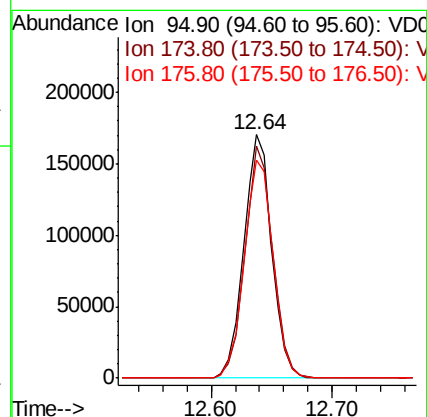
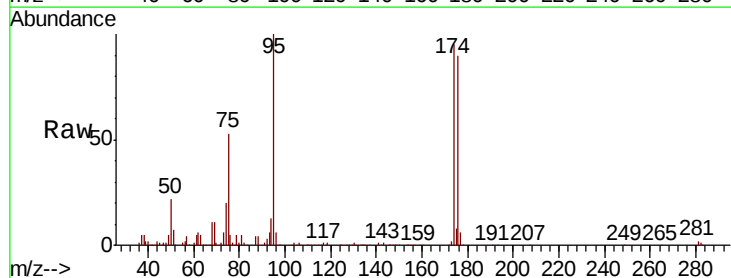
Tgt Ion: 95 Resp: 274308

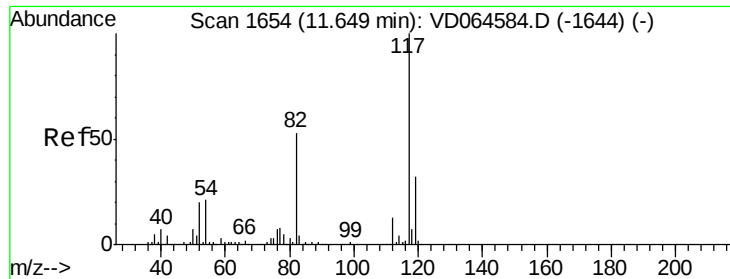
Ion Ratio Lower Upper

95 100

174 94.8 0.0 193.2

176 92.7 0.0 184.2

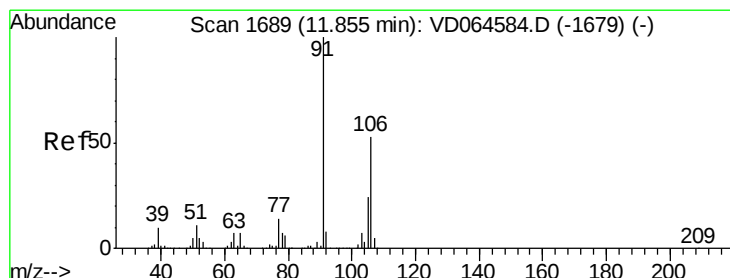
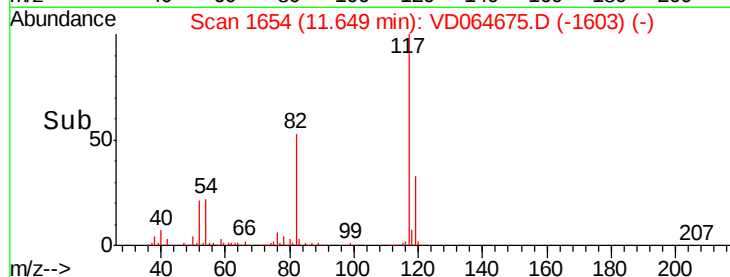
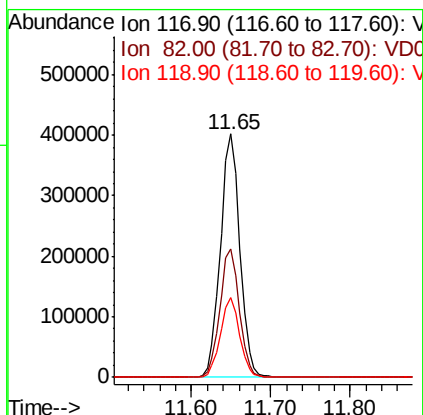
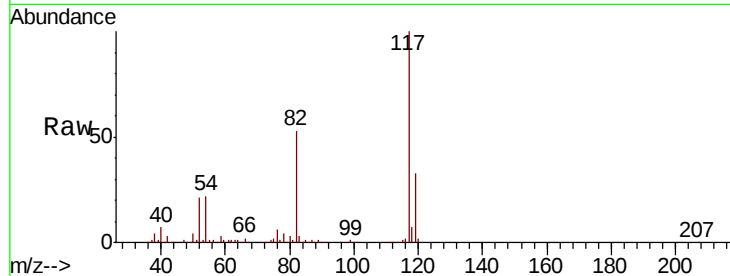




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064675.D
Acq: 30 Dec 2019 13:43

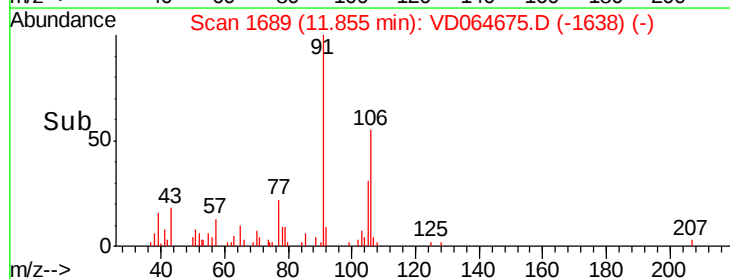
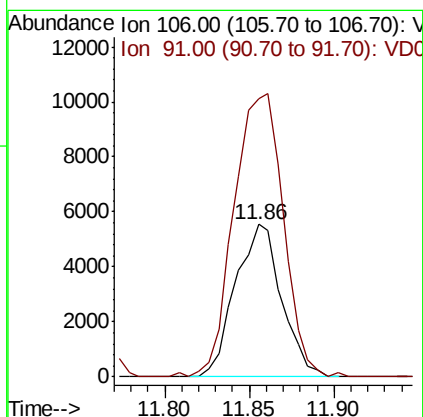
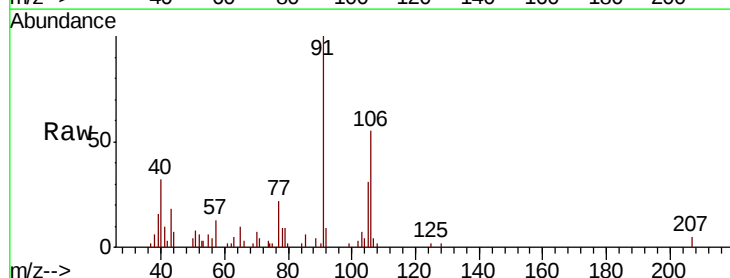
Instrument :
MSVOA_D
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EO-O1-122719

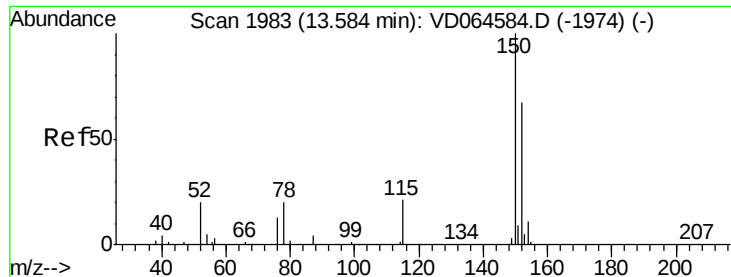
Tot Ion:117 Resp: 681574
Ion Ratio Lower Upper
117 100
82 53.0 42.2 63.4
119 32.7 26.0 39.0



#68
m/p-Xylenes
Concen: 1.066 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD064675.D
Acq: 30 Dec 2019 13:43

Tgt Ion:106 Resp: 10564
Ion Ratio Lower Upper
106 100
91 199.0 156.3 234.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064675.D

Acq: 30 Dec 2019 13:43

Instrument :

MSVOA_D

ClientSampleId :

EO-O1-122719

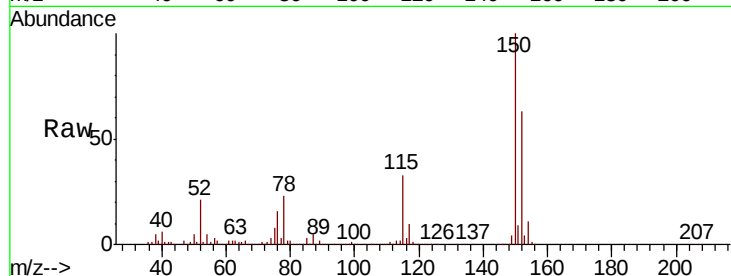
Tot Ion:152 Resp: 295154

Ion Ratio Lower Upper

152 100

115 56.0 27.8 83.4

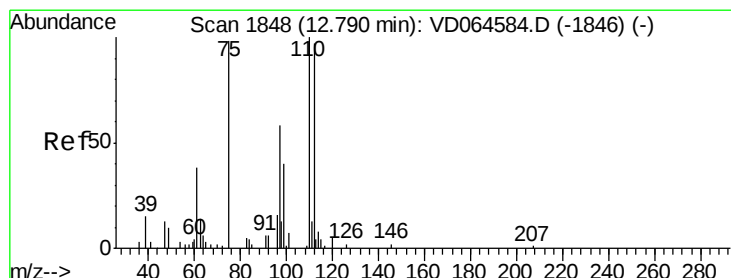
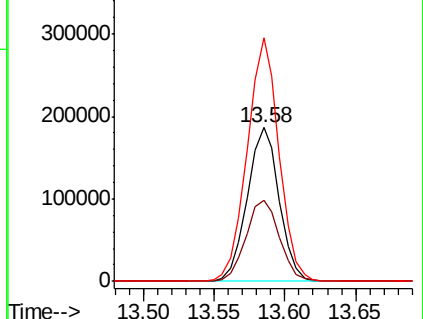
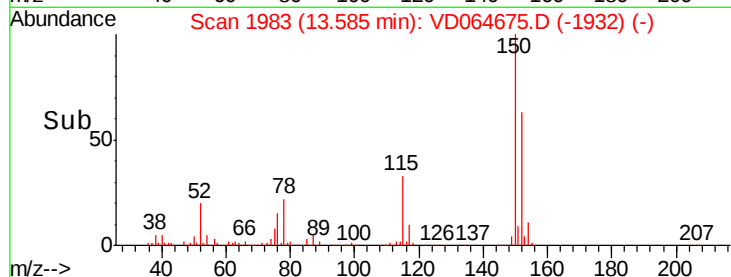
150 157.8 0.0 351.4



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: 63.271 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064675.D

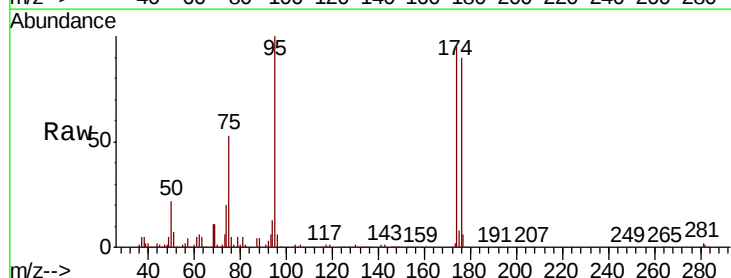
Acq: 30 Dec 2019 13:43

Tgt Ion: 75 Resp: 147467

Ion Ratio Lower Upper

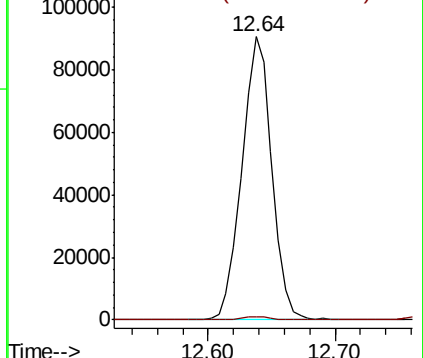
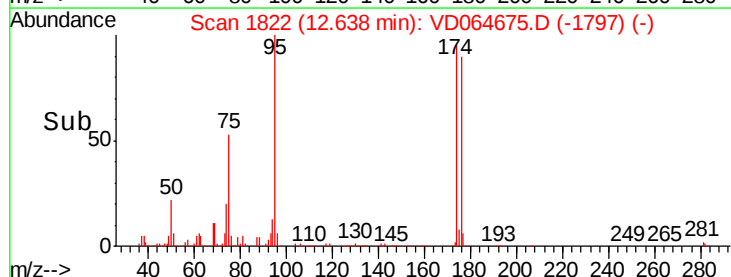
75 100

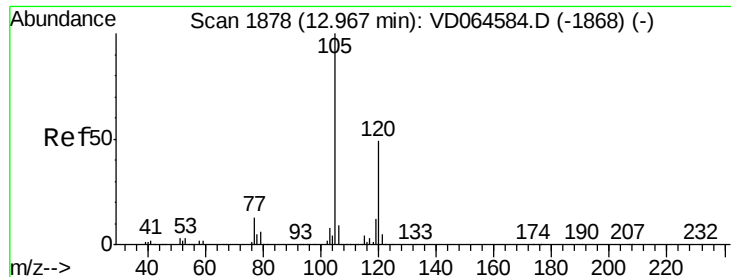
77 1.2 0.0 0.0#



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: 1.386 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD064675.D

Acq: 30 Dec 2019 13:43

Instrument :

MSVOA_D

ClientSampleId :

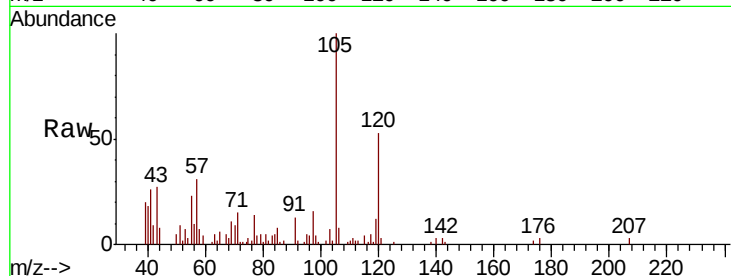
EO-O1-122719

Tot Ion:105 Resp: 24014

Ion Ratio Lower Upper

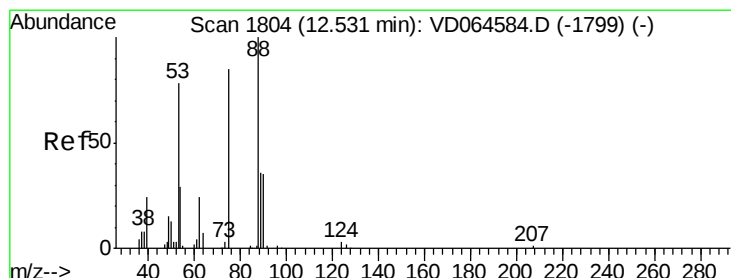
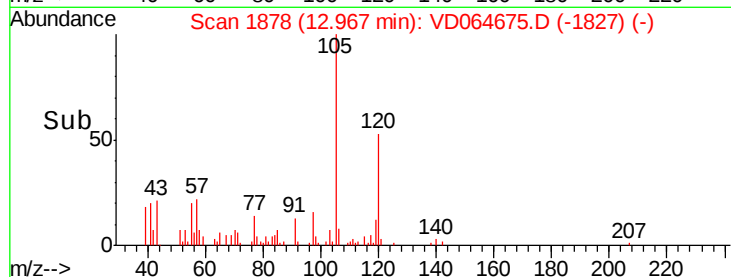
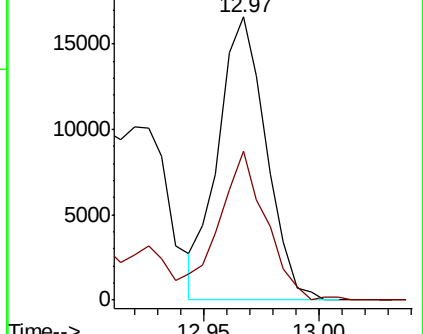
105 100

120 52.8 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 132.329 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064675.D

Acq: 30 Dec 2019 13:43

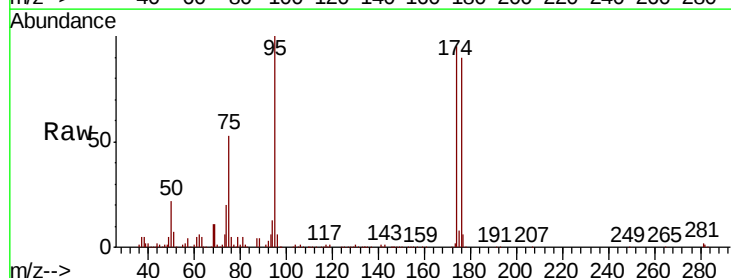
Tgt Ion: 75 Resp: 147467

Ion Ratio Lower Upper

75 100

53 0.0 78.8 118.2#

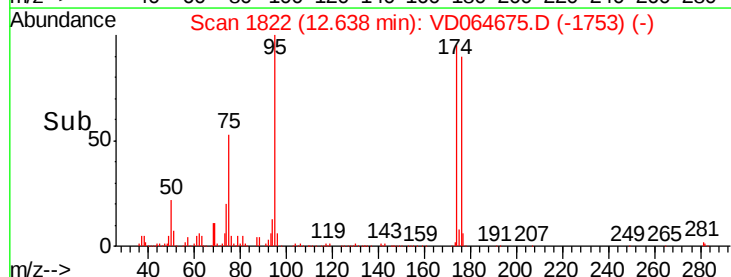
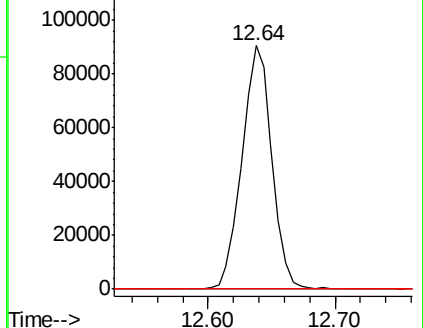
89 0.0 38.3 57.5#

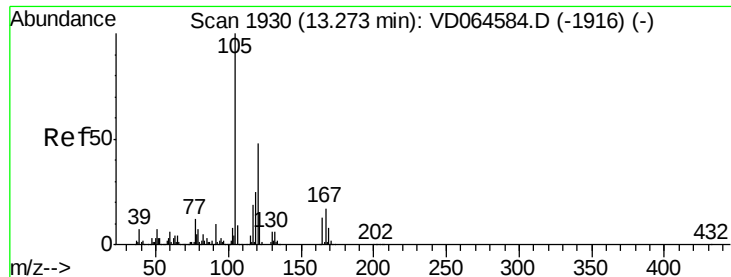


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#84

1,2,4-Trimethylbenzene

Concen: 5.172 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VD064675.D

Acq: 30 Dec 2019 13:43

Instrument :

MSVOA_D

ClientSampleId :

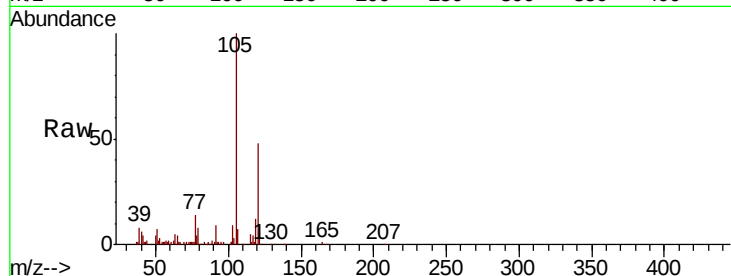
EO-O1-122719

Tot Ion:105 Resp: 89249

Ion Ratio Lower Upper

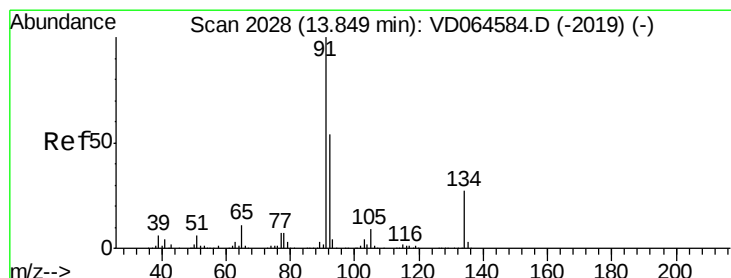
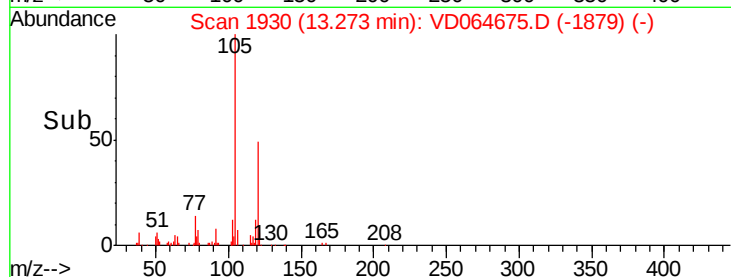
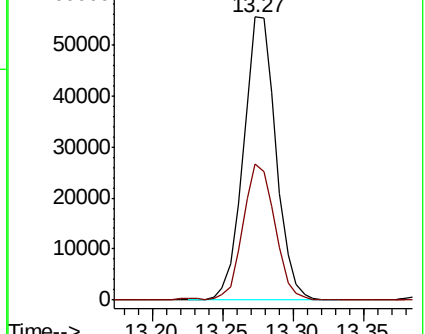
105 100

120 47.3 23.8 71.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#89

n-Butylbenzene

Concen: 1.256 ug/l

RT: 13.85 min Scan# 2028

Delta R.T. 0.00 min

Lab File: VD064675.D

Acq: 30 Dec 2019 13:43

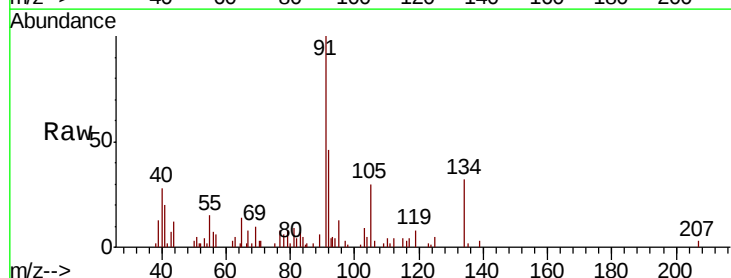
Tgt Ion: 91 Resp: 22312

Ion Ratio Lower Upper

91 100

92 43.1 26.8 80.4

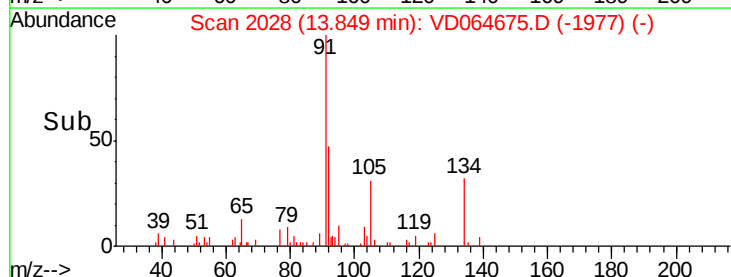
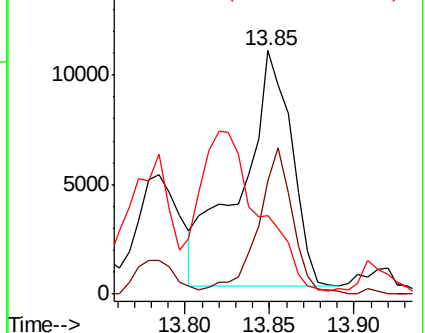
134 0.0 14.0 41.9#

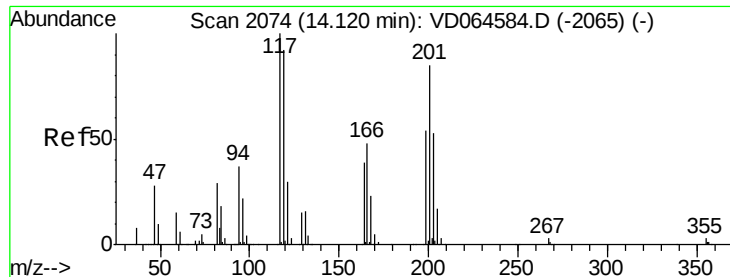


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 1.238 ug/l

RT: 14.13 min Scan# 2076

Delta R.T. 0.01 min

Lab File: VD064675.D

Acq: 30 Dec 2019 13:43

Instrument :

MSVOA_D

ClientSampleId :

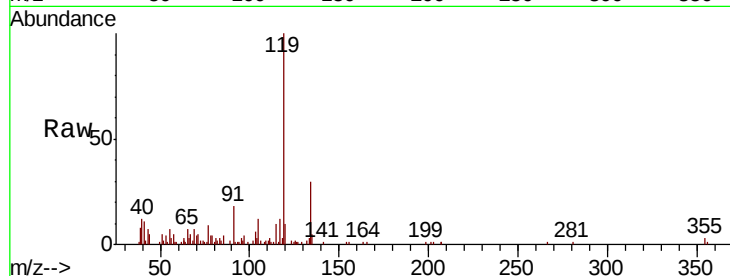
EO-O1-122719

Tot Ion:117 Resp: 4662

Ion Ratio Lower Upper

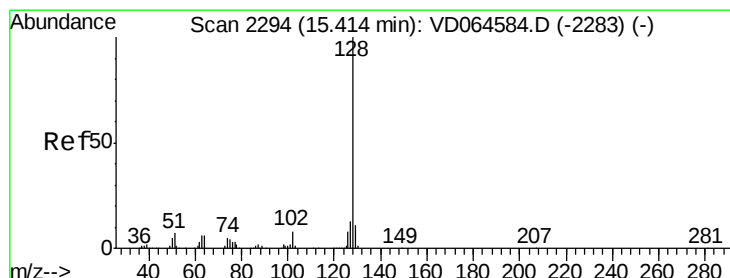
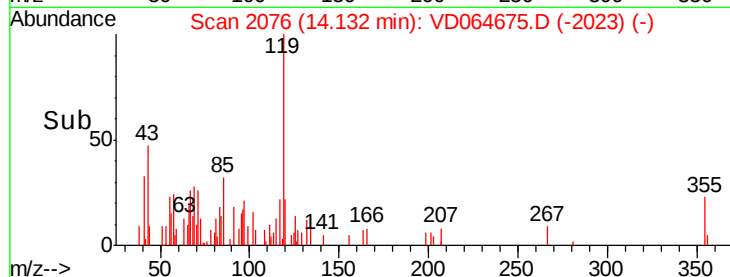
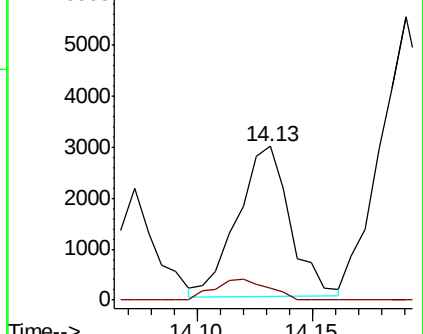
117 100

201 14.2 44.0 131.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 5.157 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD064675.D

Acq: 30 Dec 2019 13:43

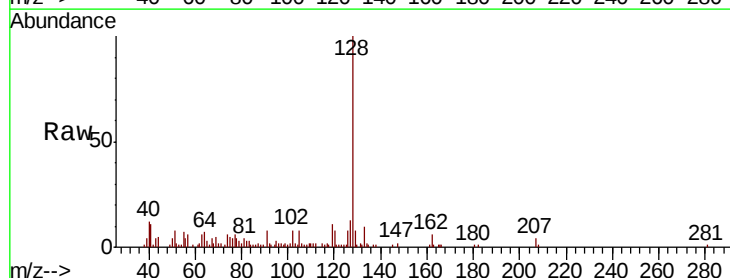
Tgt Ion:128 Resp: 50609

Ion Ratio Lower Upper

128 100

127 16.1 10.3 15.5#

129 13.5 8.5 12.7#



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

