

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD121619\
 Data File : VD064524.D
 Acq On : 16 Dec 2019 15:34
 Operator : VA/SY
 Sample : K6117-04RE
 Misc : 7.07G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TR-05-121319RE

Quant Time: Dec 17 01:54:23 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	58097	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	91439	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	93464	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	49094	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	34014	64.68	ug/l	0.00
Spiked Amount			Recovery	=	129.36%	
35) Dibromofluoromethane	7.92	113	32121	55.75	ug/l	0.00
Spiked Amount			Recovery	=	111.50%	
50) Toluene-d8	10.34	98	110646	50.99	ug/l	0.00
Spiked Amount			Recovery	=	101.98%	
62) 4-Bromofluorobenzene	12.64	95	40736	58.41	ug/l	0.00
Spiked Amount			Recovery	=	116.82%	

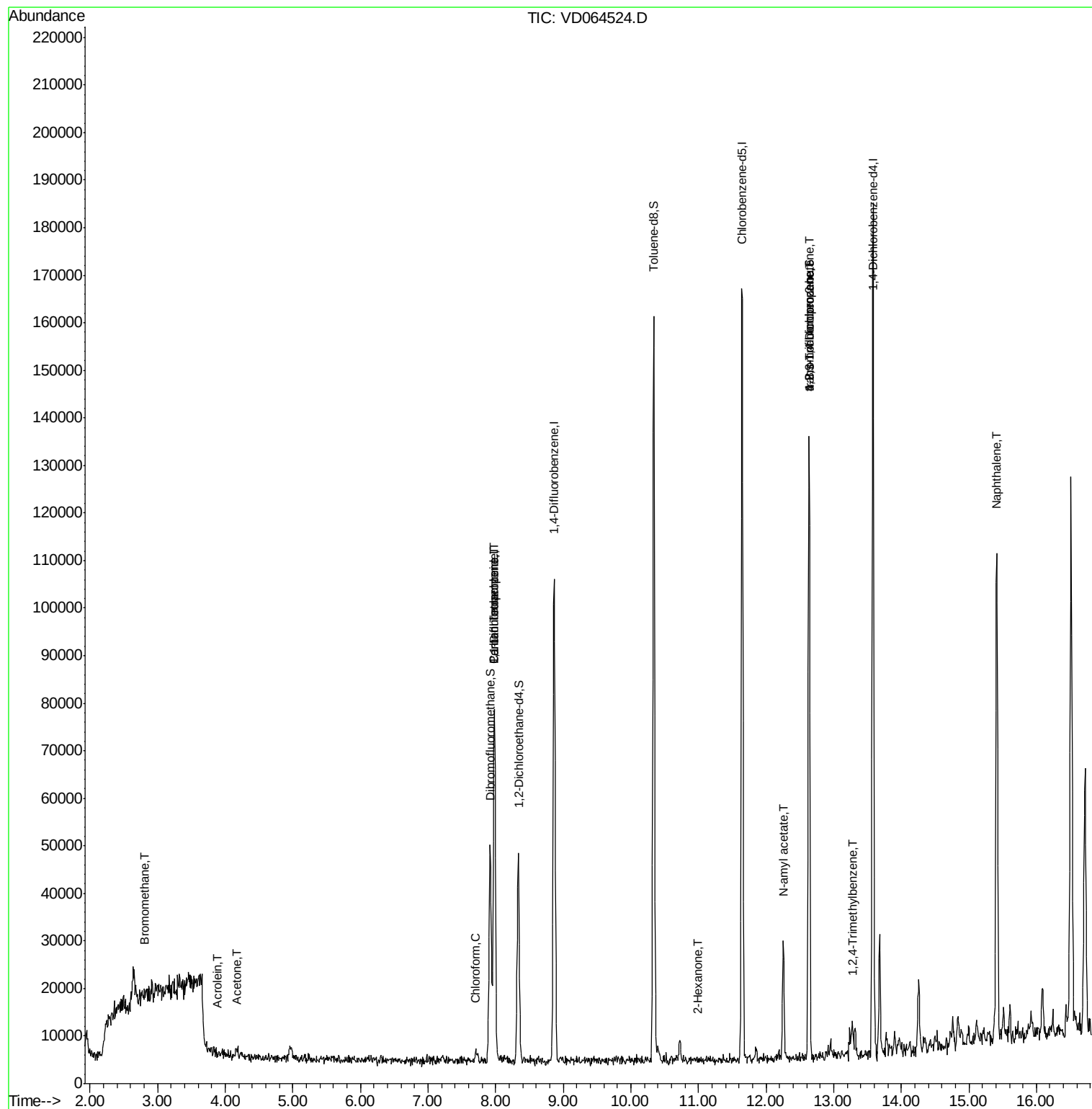
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.80	94	619	1.092	ug/l #	4
13) Acrolein	3.88	56	68	1.489	ug/l	88
16) Acetone	4.17	43	3428	32.259	ug/l #	76
20) Methylene Chloride	4.97	84	1309	Below Cal	#	86
30) Chloroform	7.71	83	1782	1.773	ug/l	84
31) Cyclohexane	7.98	56	1110	Below Cal	#	49
36) 1,1-Dichloropropene	7.98	75	4179	4.832	ug/l #	50
38) Carbon Tetrachloride	7.97	117	5417	5.934	ug/l #	18
59) 2-Hexanone	10.99	43	356	1.437	ug/l #	49
74) N-amyl acetate	12.25	43	14987	18.701	ug/l #	49
76) 1,2,3-Trichloropropane	12.64	75	21563	53.409	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	21563	116.460	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.28	105	3401	1.172	ug/l	85
92) 1,2-Dibromo-3-Chloropropan	14.47	75	70	Below Cal	#	1
95) Naphthalene	15.41	128	91901	50.840	ug/l	98

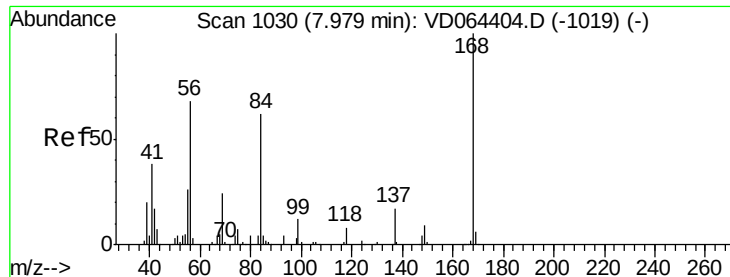
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD064524.D

Acq: 16 Dec 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

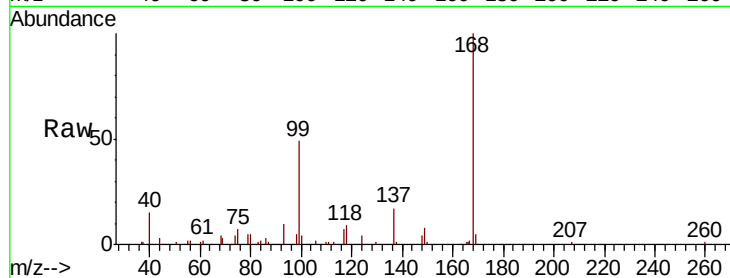
TR-05-121319RE

Tgt Ion:168 Resp: 58097

Ion Ratio Lower Upper

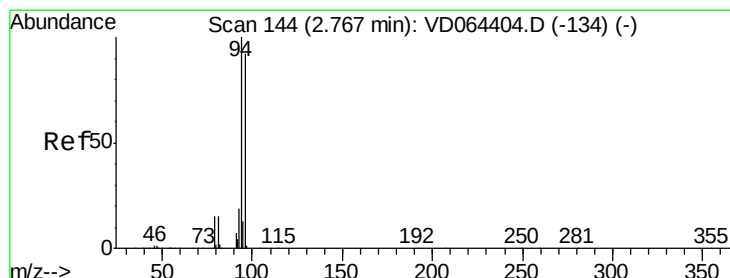
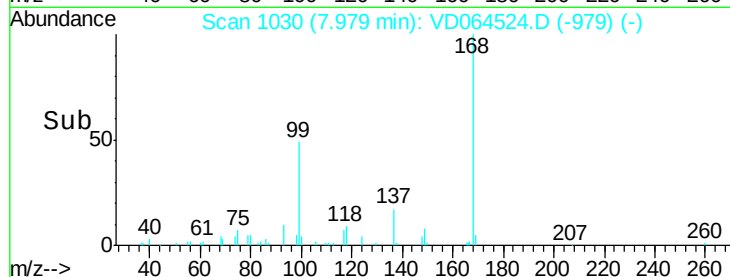
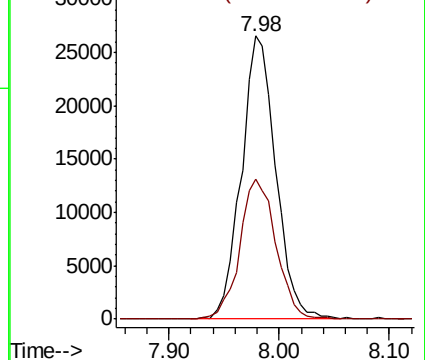
168 100

99 49.5 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#5

Bromomethane

Concen: 1.092 ug/l

RT: 2.80 min Scan# 149

Delta R.T. 0.03 min

Lab File: VD064524.D

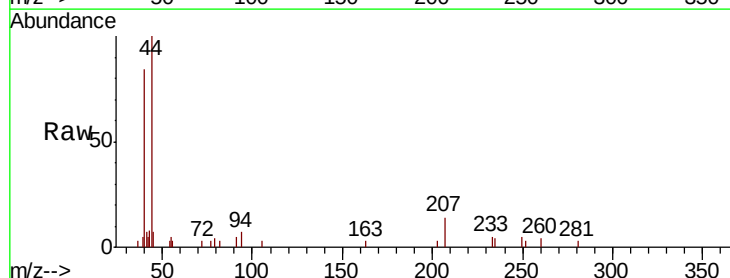
Acq: 16 Dec 2019 15:34

Tgt Ion: 94 Resp: 619

Ion Ratio Lower Upper

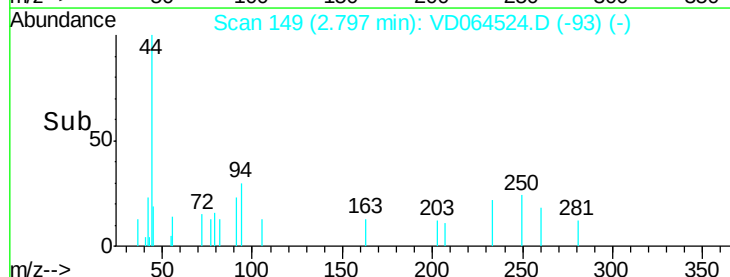
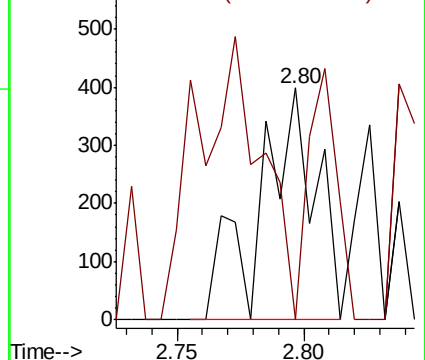
94 100

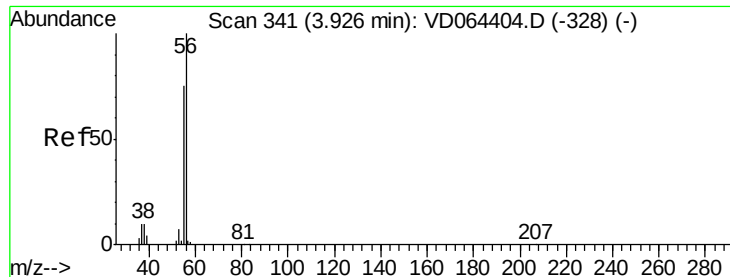
96 0.0 73.6 110.4#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#13

Acrolein

Concen: 1.489 ug/l

RT: 3.88 min Scan# 334

Delta R.T. -0.04 min

Lab File: VD064524.D

Acq: 16 Dec 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

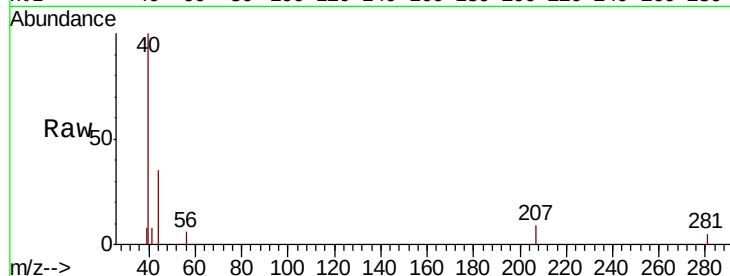
TR-05-121319RE

Tgt Ion: 56 Resp: 68

Ion Ratio Lower Upper

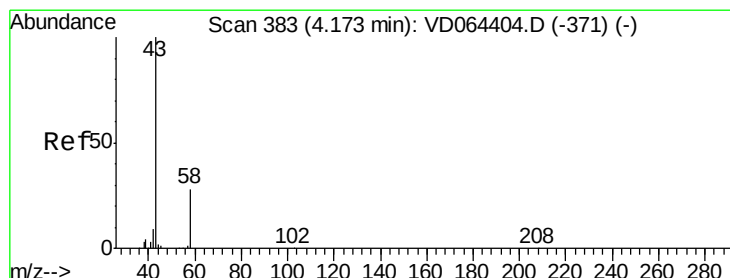
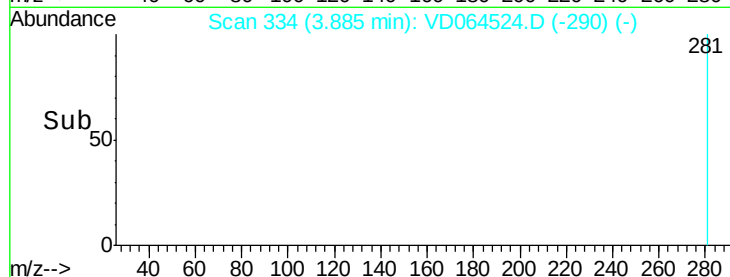
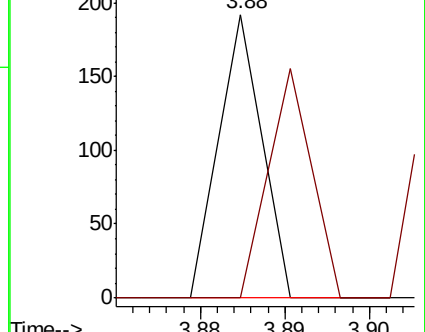
56 100

55 80.9 56.9 85.3



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 32.259 ug/l

RT: 4.17 min Scan# 383

Delta R.T. -0.00 min

Lab File: VD064524.D

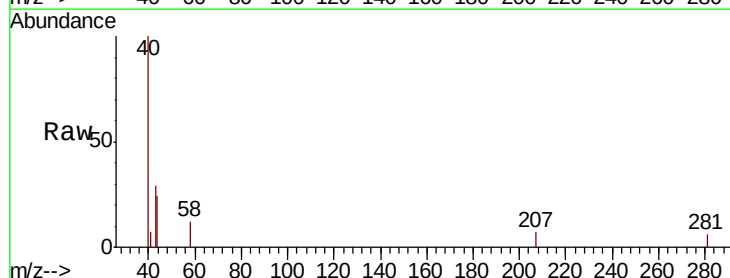
Acq: 16 Dec 2019 15:34

Tgt Ion: 43 Resp: 3428

Ion Ratio Lower Upper

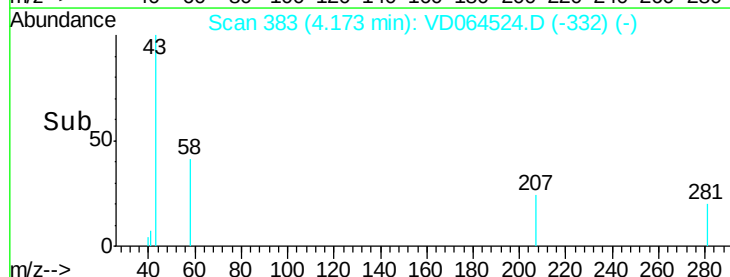
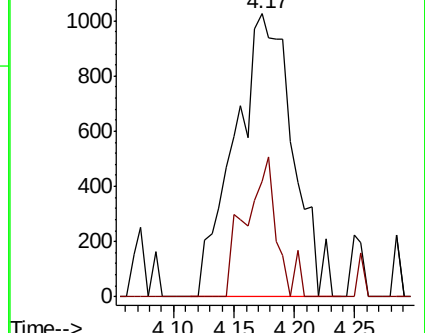
43 100

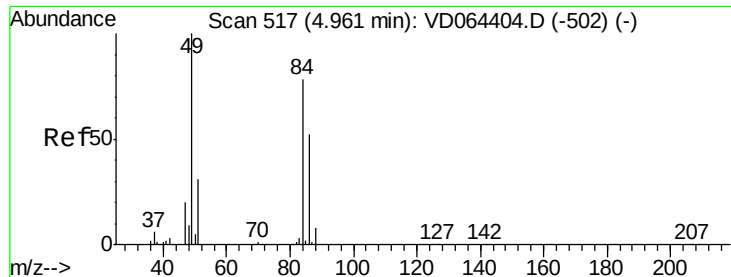
58 41.0 22.6 33.8#



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: VD064524.D

Acq: 16 Dec 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

TR-05-121319RE

Tgt Ion: 84 Resp: 1309

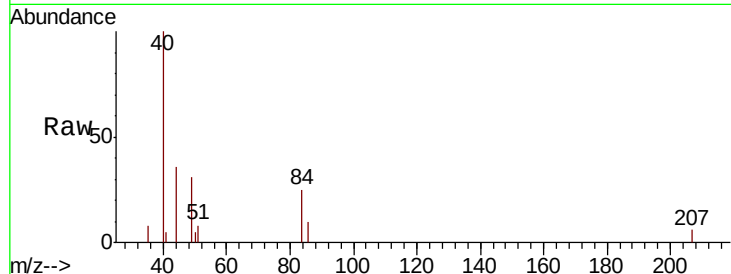
Ion Ratio Lower Upper

84 100

49 122.0 102.6 153.8

51 32.0 32.0 48.0#

86 41.6 53.4 80.0#

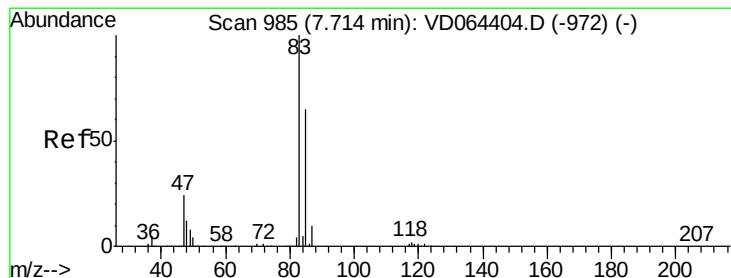
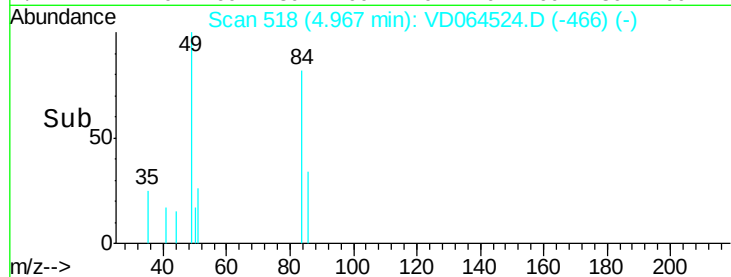
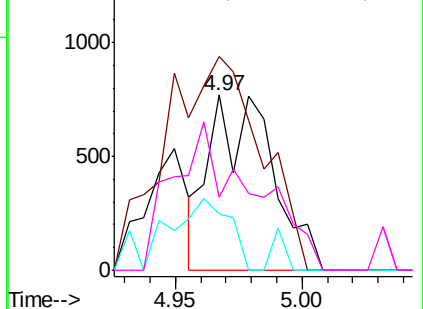


Abundance Ion 83.90 (83.60 to 84.60): VDC

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



#30

Chloroform

Concen: 1.773 ug/l

RT: 7.71 min Scan# 984

Delta R.T. -0.01 min

Lab File: VD064524.D

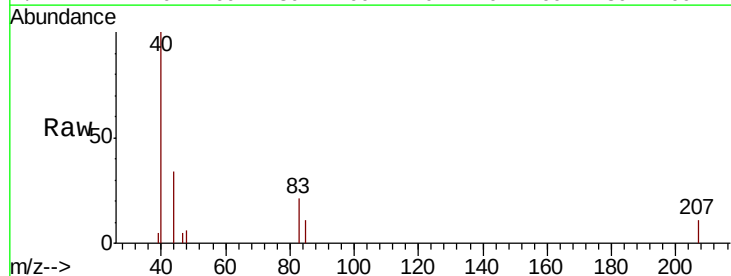
Acq: 16 Dec 2019 15:34

Tgt Ion: 83 Resp: 1782

Ion Ratio Lower Upper

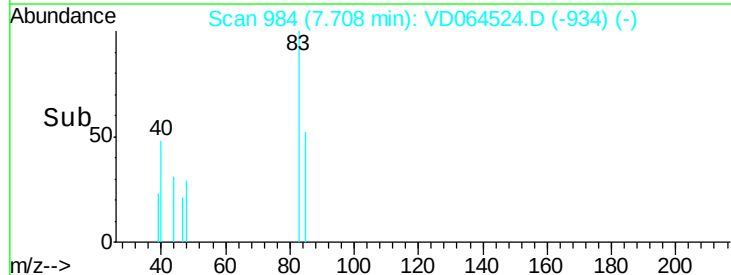
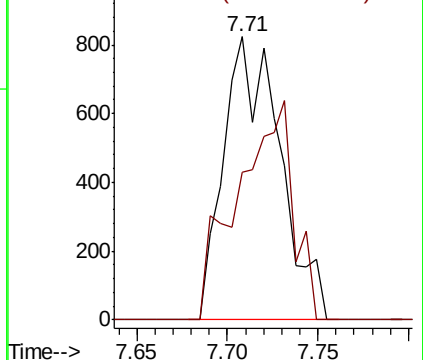
83 100

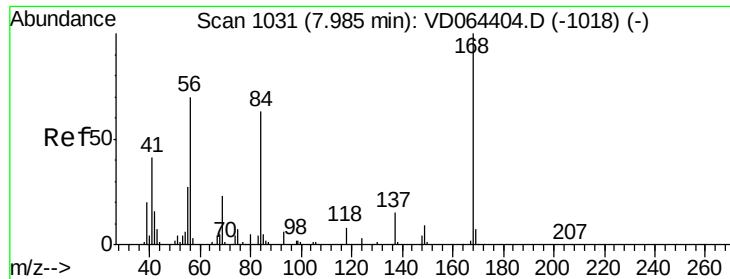
85 52.2 51.8 77.6



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

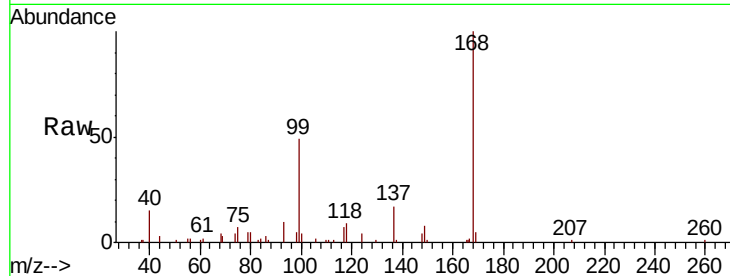




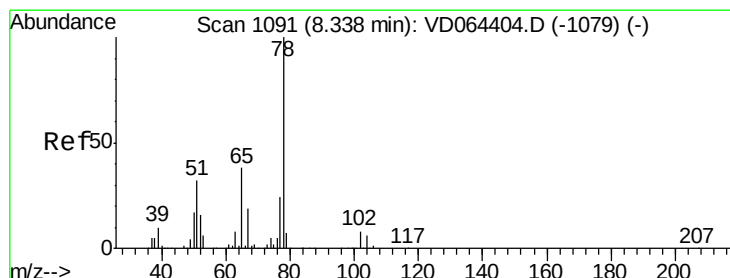
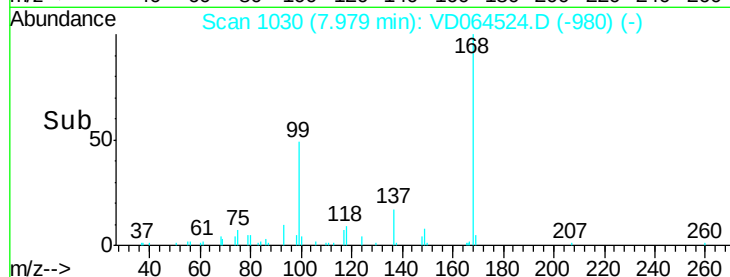
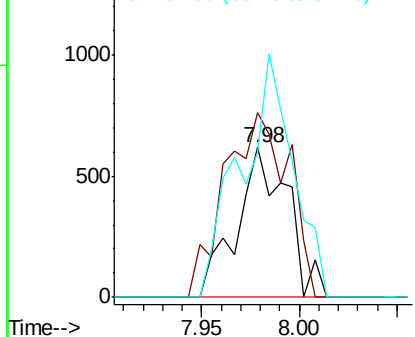
#31
Cyclohexane
Concen: Below Cal
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD064524.D
Acq: 16 Dec 2019 15:34

Instrument :
MSVOA_D
ClientSampleId :
TR-05-121319RE

Tgt Ion: 56 Resp: 1110
Ion Ratio Lower Upper
56 100
69 123.6 26.2 39.4#
84 96.6 70.3 105.5

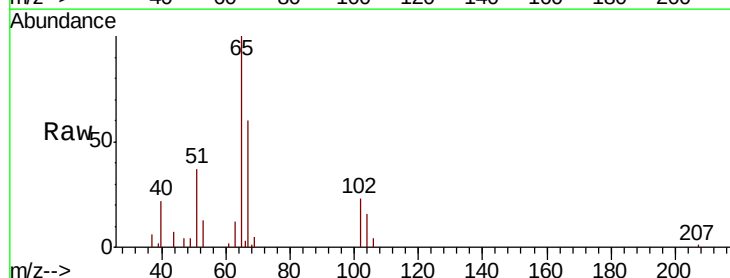


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

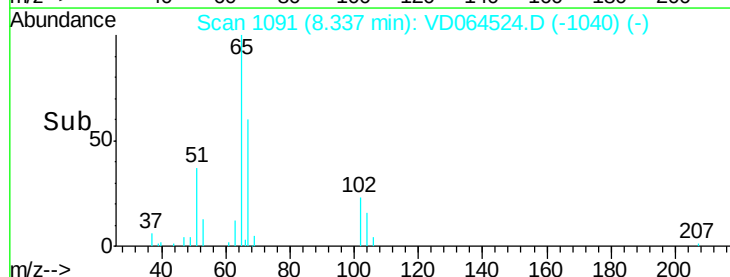
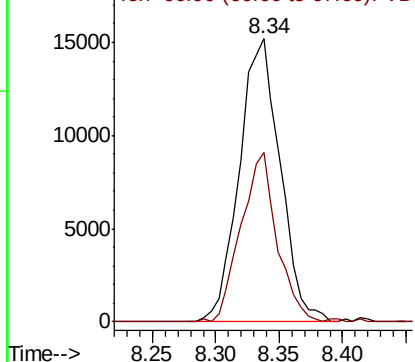


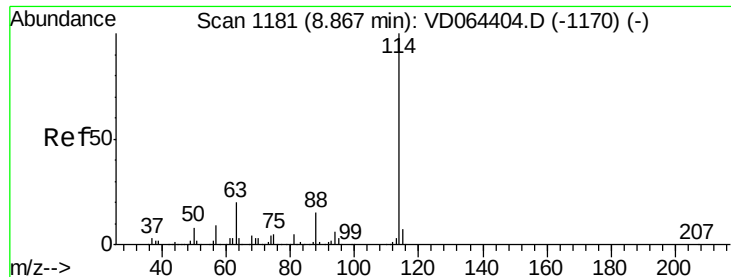
#33
1,2-Dichloroethane-d4
Concen: 64.682 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. -0.00 min
Lab File: VD064524.D
Acq: 16 Dec 2019 15:34

Tgt Ion: 65 Resp: 34014
Ion Ratio Lower Upper
65 100
67 52.8 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: VD064524.D

Acq: 16 Dec 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

TR-05-121319RE

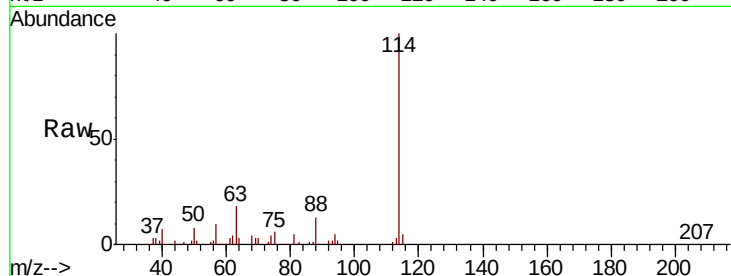
Tgt Ion:114 Resp: 91439

Ion Ratio Lower Upper

114 100

63 18.2 0.0 40.0

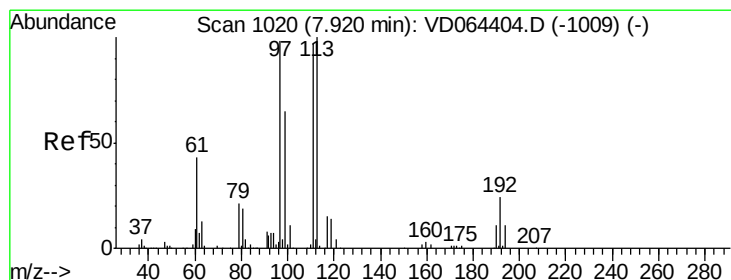
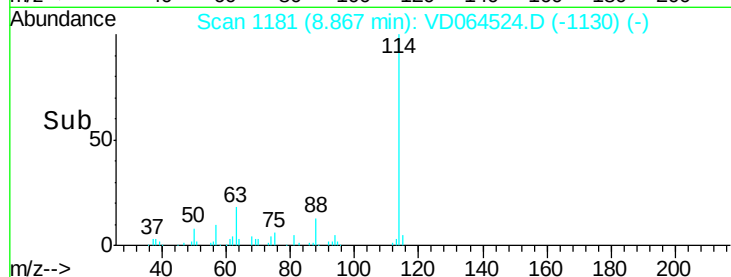
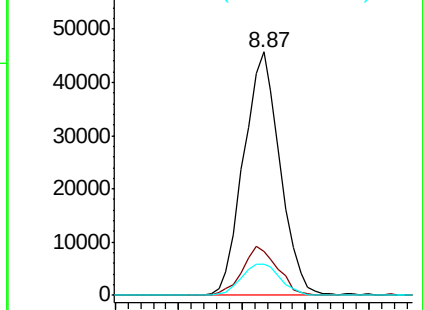
88 12.7 0.0 29.2



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: 55.755 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD064524.D

Acq: 16 Dec 2019 15:34

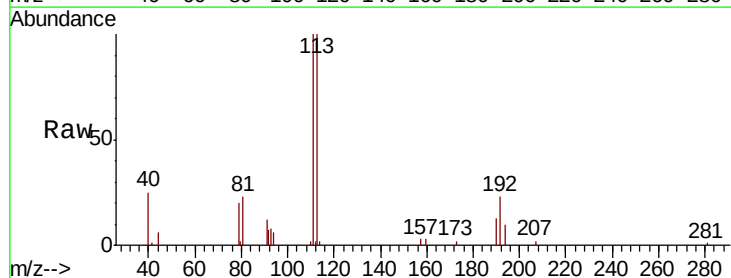
Tgt Ion:113 Resp: 32121

Ion Ratio Lower Upper

113 100

111 96.2 79.4 119.2

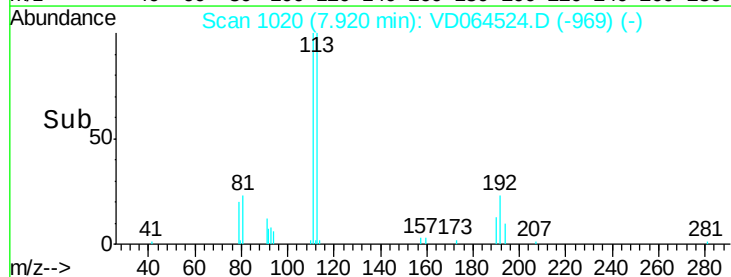
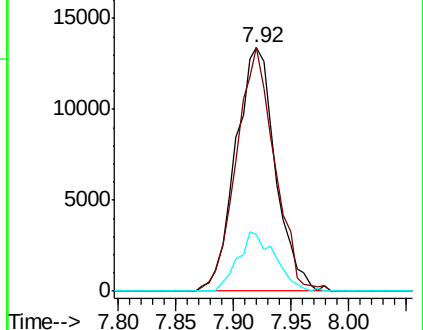
192 22.8 18.6 28.0

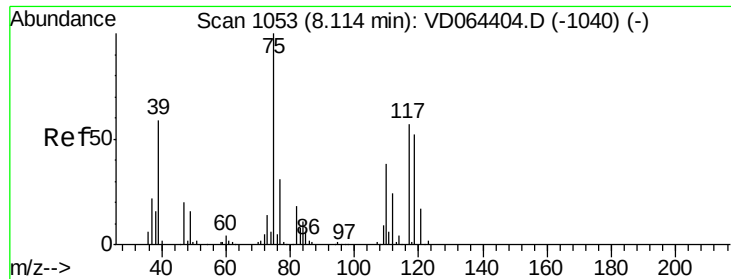


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

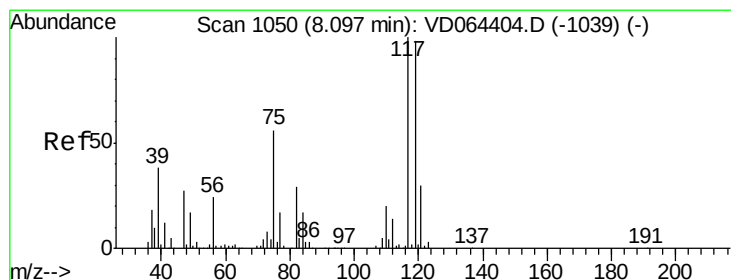
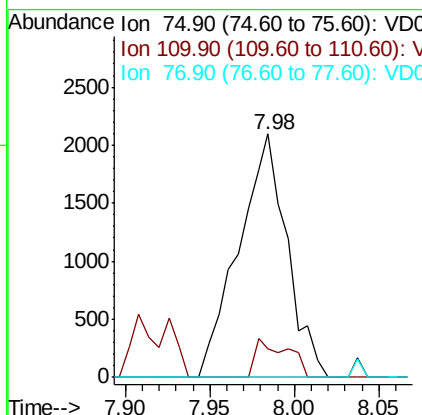
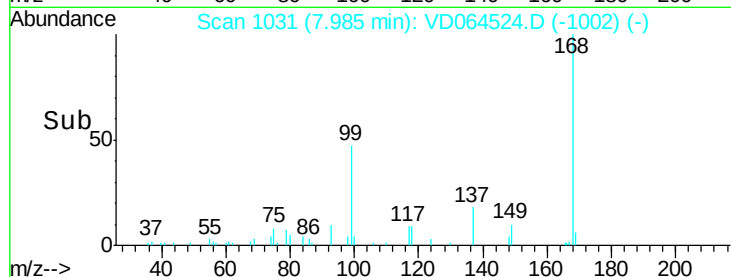
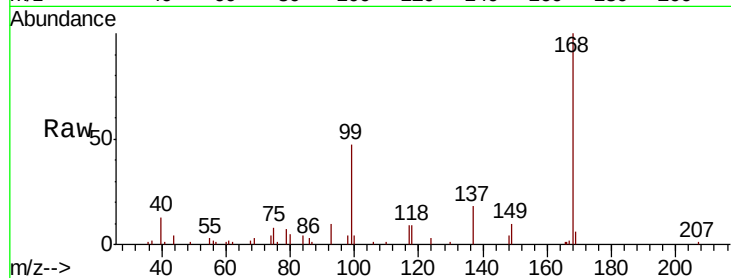




#36
 1,1-Dichloropropene
 Concen: 4.832 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064524.D
 Acq: 16 Dec 2019 15:34

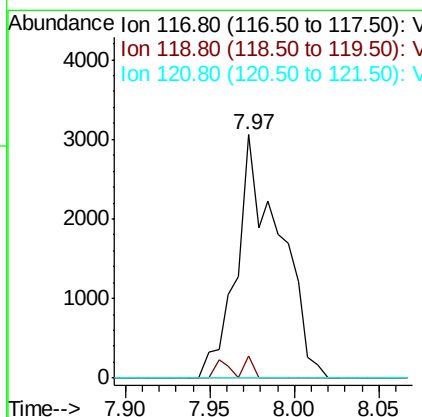
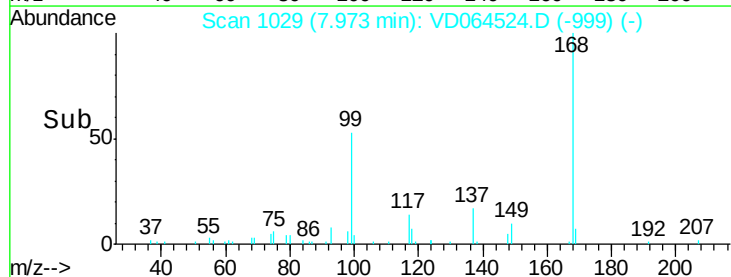
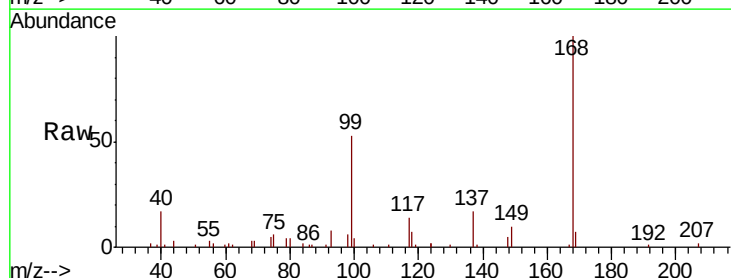
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 TR-05-121319RE

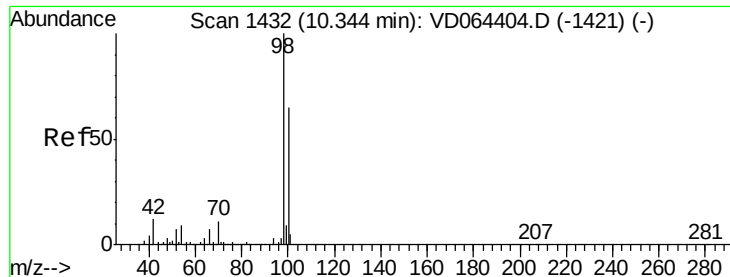
Tgt Ion: 75 Resp: 4179
 Ion Ratio Lower Upper
 75 100
 110 10.7 18.6 55.8#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.934 ug/l
 RT: 7.97 min Scan# 1029
 Delta R.T. -0.12 min
 Lab File: VD064524.D
 Acq: 16 Dec 2019 15:34

Tgt Ion: 117 Resp: 5417
 Ion Ratio Lower Upper
 117 100
 119 9.3 78.8 118.2#
 121 0.0 24.2 36.2#

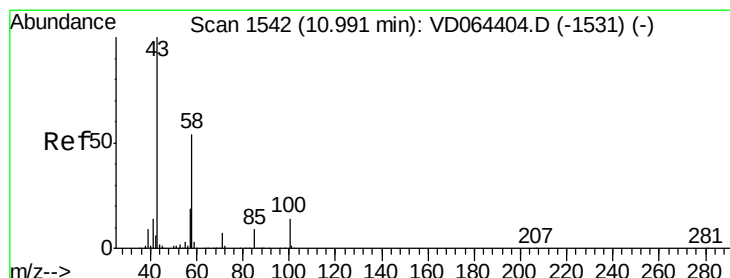
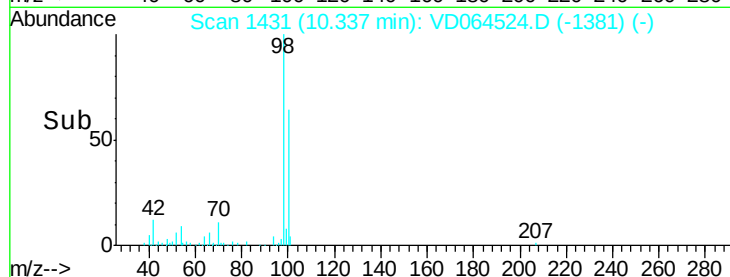
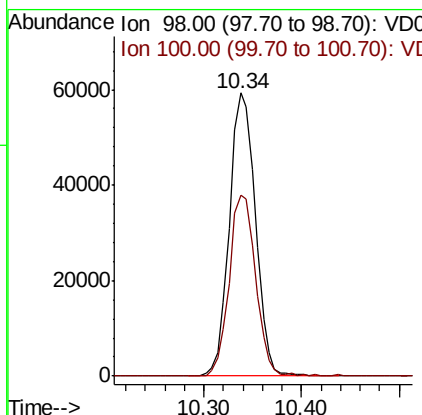
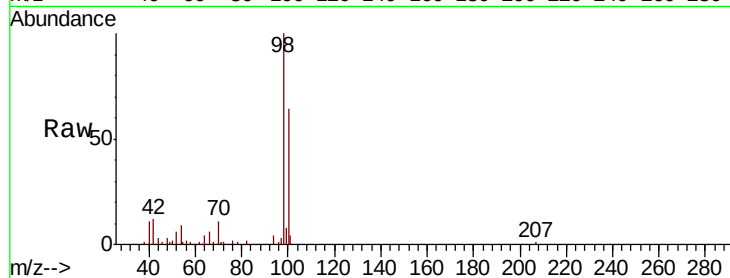




#50
Toluene-d8
Concen: 50.985 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.01 min
Lab File: VD064524.D
Acq: 16 Dec 2019 15:34

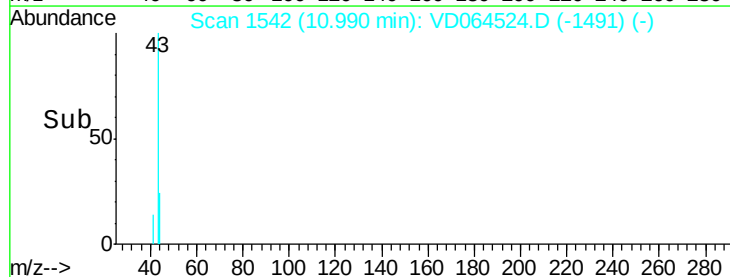
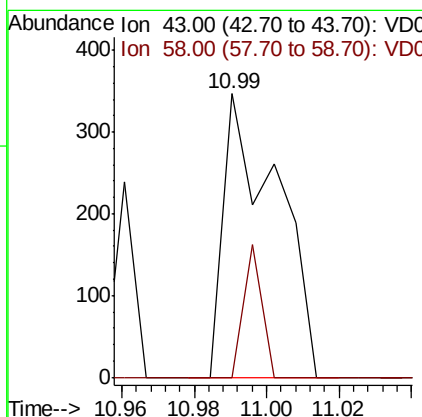
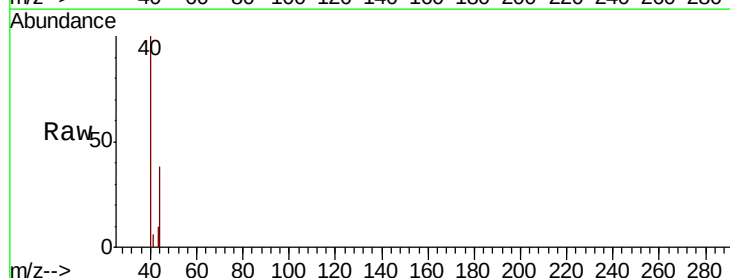
Instrument :
MSVOA_D
ClientSampleId :
TR-05-121319RE

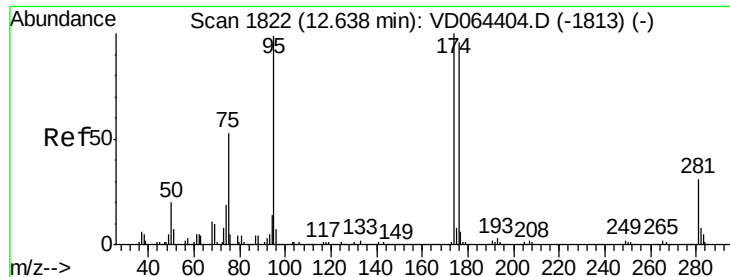
Tgt Ion: 98 Resp: 110646
Ion Ratio Lower Upper
98 100
100 64.5 52.6 79.0



#59
2-Hexanone
Concen: 1.437 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. -0.00 min
Lab File: VD064524.D
Acq: 16 Dec 2019 15:34

Tgt Ion: 43 Resp: 356
Ion Ratio Lower Upper
43 100
58 16.3 26.3 78.8#

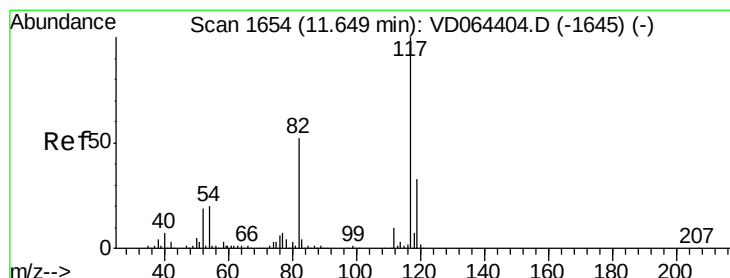
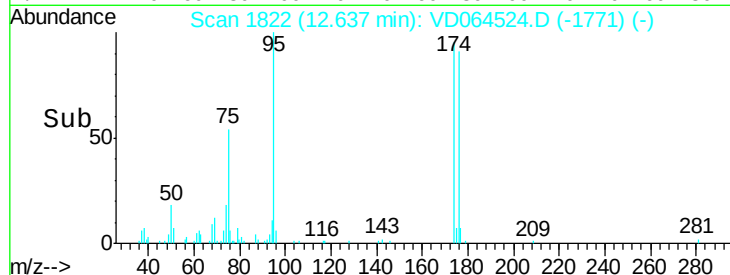
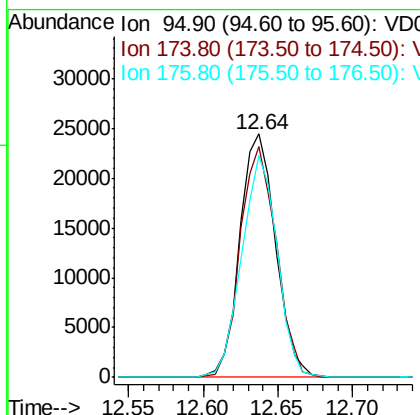
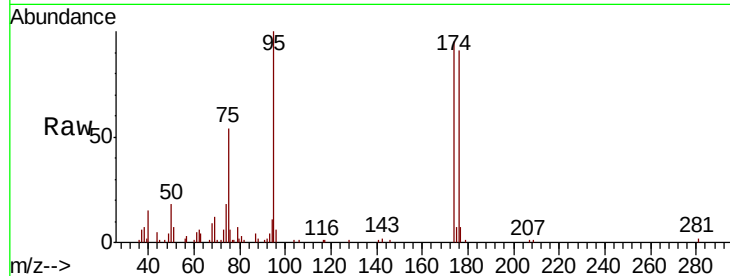




#62
4-Bromofluorobenzene
Concen: 58.409 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD064524.D
Acq: 16 Dec 2019 15:34

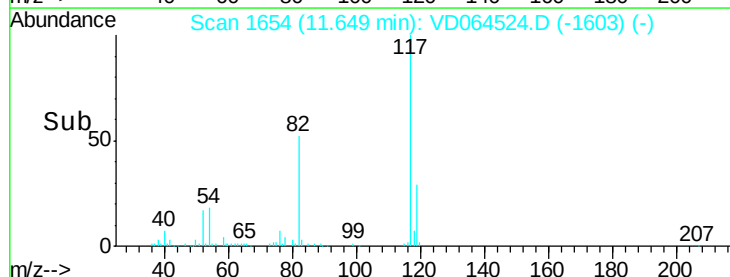
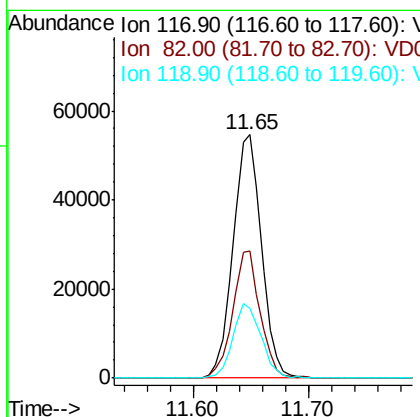
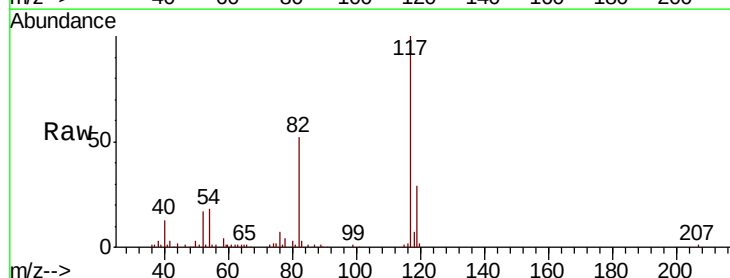
Instrument :
MSVOA_D
ClientSampleId :
TR-05-121319RE

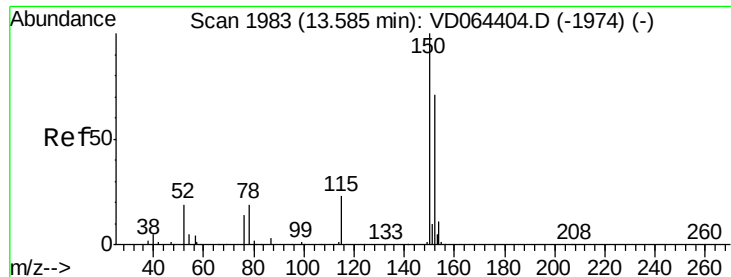
Tgt Ion: 95 Resp: 40736
Ion Ratio Lower Upper
95 100
174 95.3 0.0 197.2
176 89.7 0.0 189.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064524.D
Acq: 16 Dec 2019 15:34

Tgt Ion: 117 Resp: 93464
Ion Ratio Lower Upper
117 100
82 52.0 41.4 62.2
119 28.6 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: VD064524.D

Acq: 16 Dec 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

TR-05-121319RE

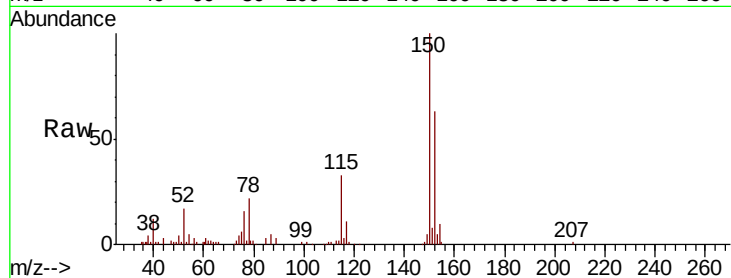
Tgt Ion:152 Resp: 49094

Ion Ratio Lower Upper

152 100

115 51.8 26.7 80.1

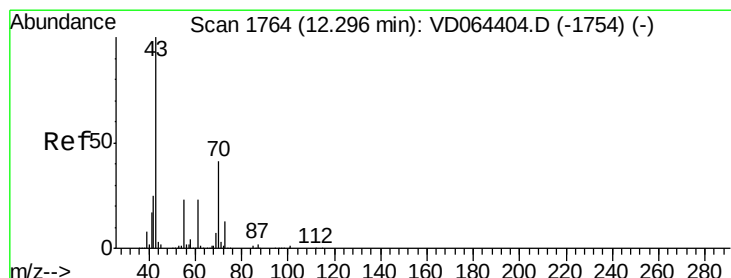
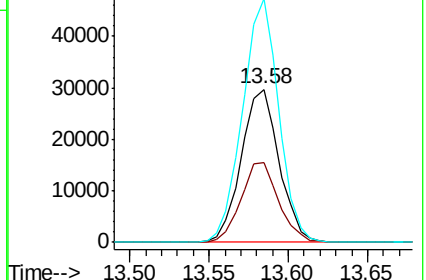
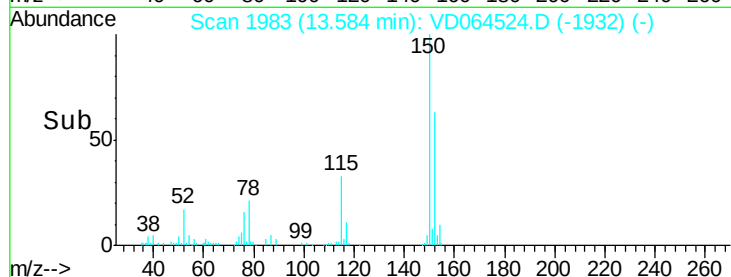
150 153.0 0.0 347.2



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



#74

N-ethyl acetate

Concen: 18.701 ug/l

RT: 12.25 min Scan# 1757

Delta R.T. -0.04 min

Lab File: VD064524.D

Acq: 16 Dec 2019 15:34

Tgt Ion: 43 Resp: 14987

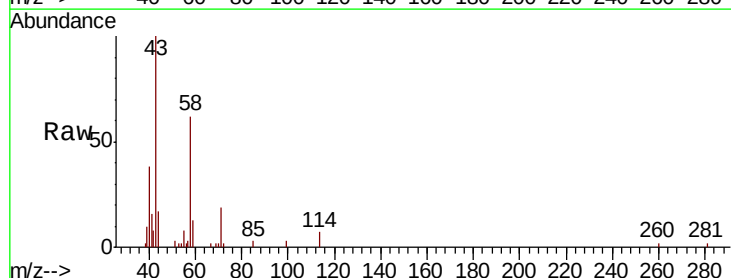
Ion Ratio Lower Upper

43 100

70 0.4 33.4 50.2#

55 9.9 18.9 28.3#

61 0.0 18.5 27.7#

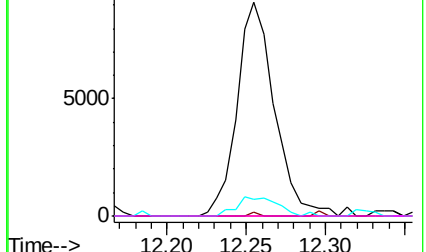
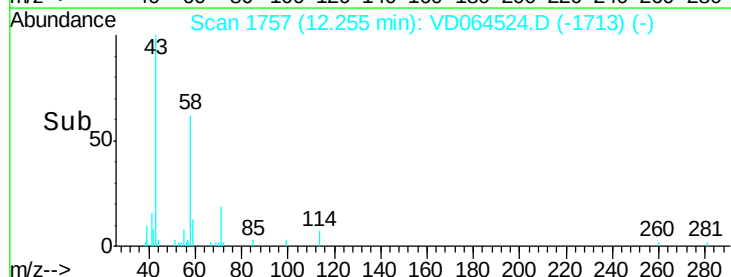


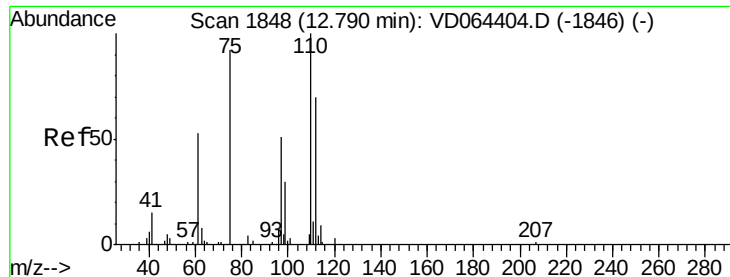
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC





#76

1,2,3-Trichloropropane

Concen: 53.409 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064524.D

Acq: 16 Dec 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

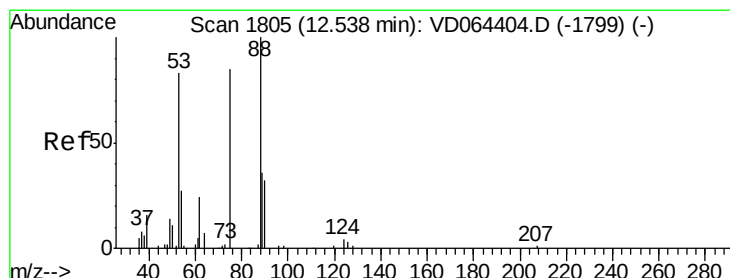
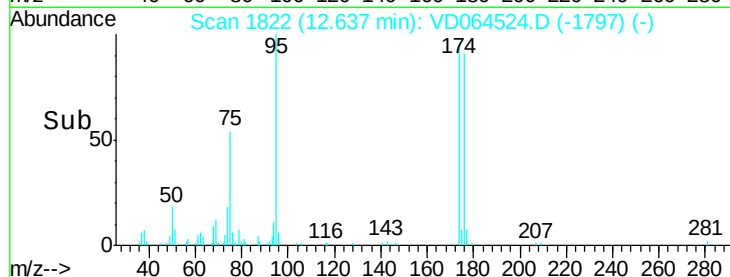
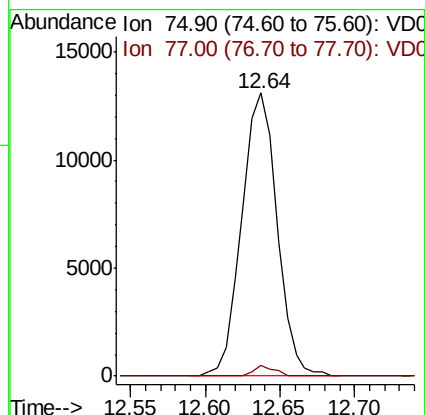
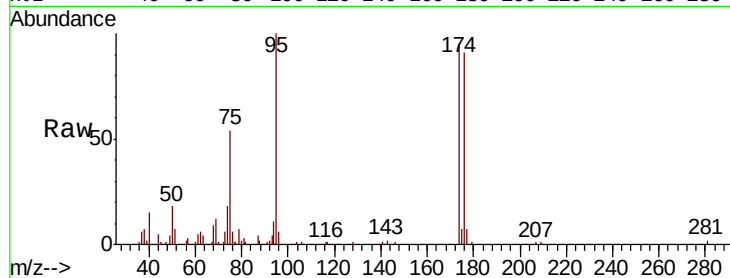
TR-05-121319RE

Tgt Ion: 75 Resp: 21563

Ion Ratio Lower Upper

75 100

77 2.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 116.460 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064524.D

Acq: 16 Dec 2019 15:34

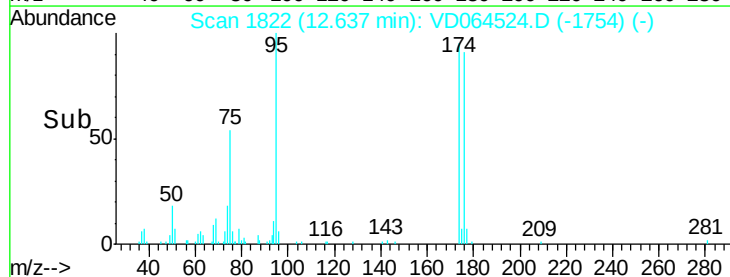
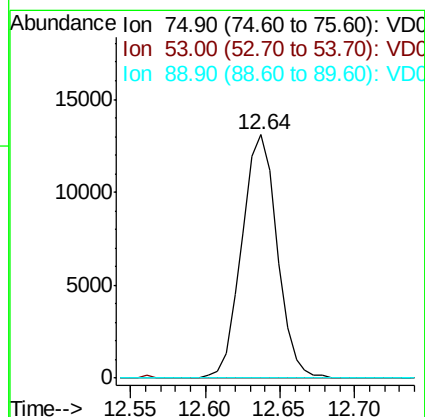
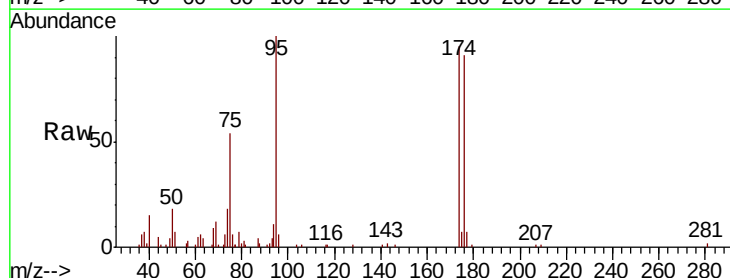
Tgt Ion: 75 Resp: 21563

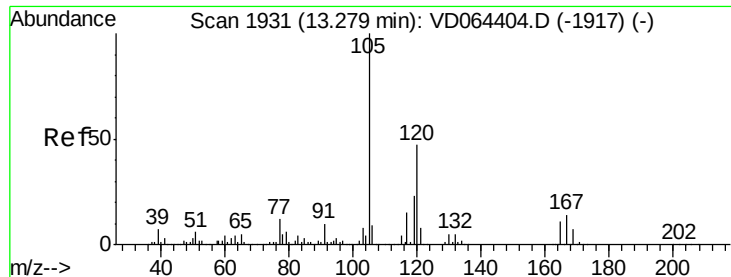
Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.0 38.5 57.7#

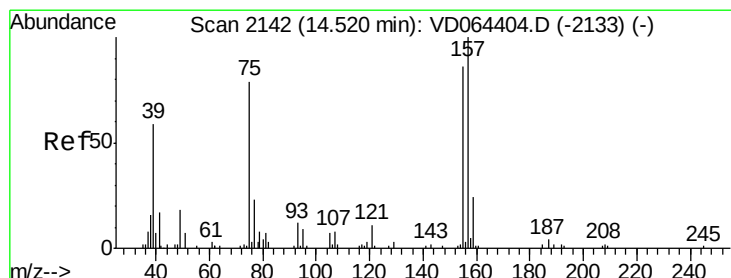
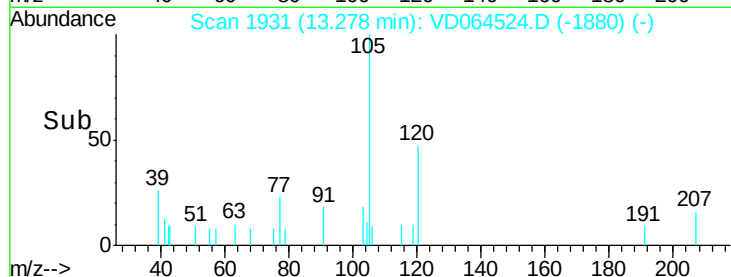
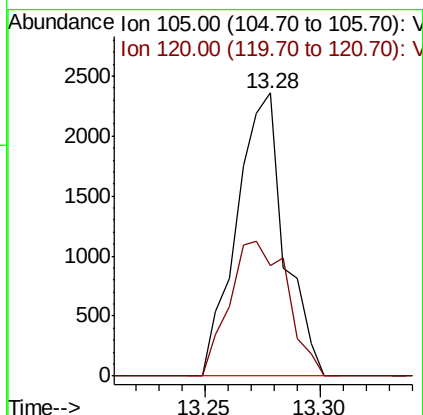
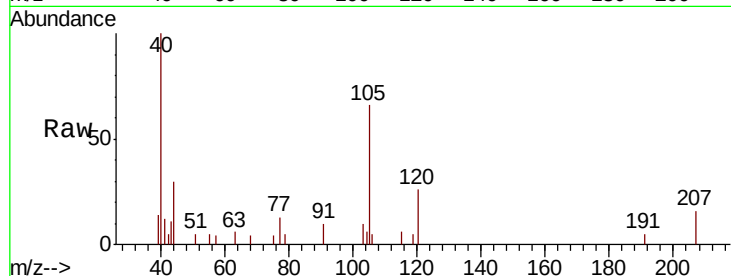




#84
 1,2,4-Trimethylbenzene
 Concen: 1.172 ug/l
 RT: 13.28 min Scan# 1931
 Delta R.T. -0.00 min
 Lab File: VD064524.D
 Acq: 16 Dec 2019 15:34

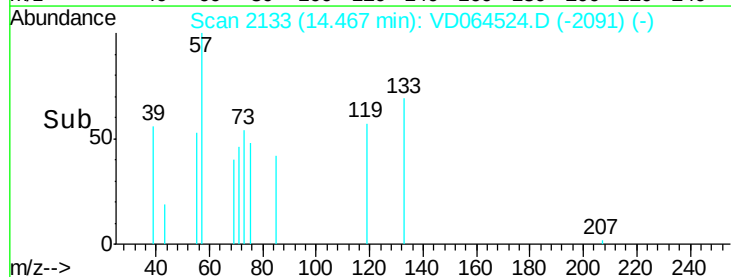
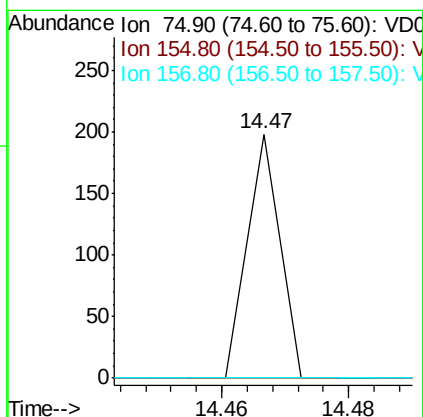
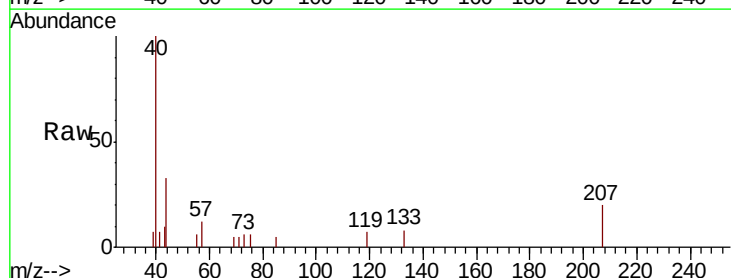
Instrument :
 MSVOA_D
 ClientSampleId :
 TR-05-121319RE

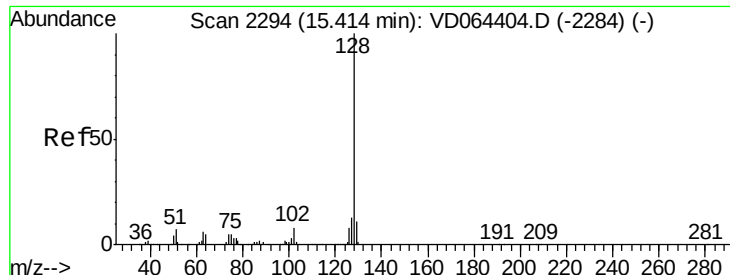
Tgt Ion: 105 Resp: 3401
 Ion Ratio Lower Upper
 105 100
 120 57.5 23.6 70.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.47 min Scan# 2133
 Delta R.T. -0.05 min
 Lab File: VD064524.D
 Acq: 16 Dec 2019 15:34

Tgt Ion: 75 Resp: 70
 Ion Ratio Lower Upper
 75 100
 155 0.0 51.9 155.7#
 157 0.0 63.2 189.8#





#95

Naphthalene

Concen: 50.840 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. -0.00 min

Lab File: VD064524.D

Acq: 16 Dec 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

TR-05-121319RE

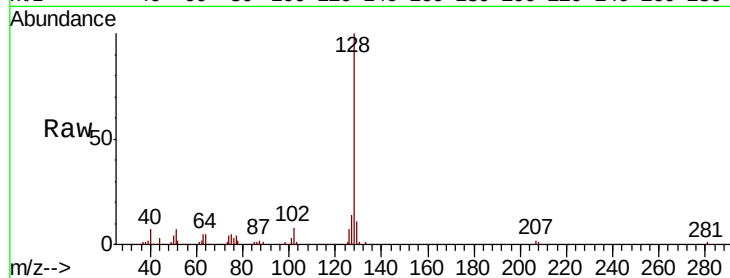
Tgt Ion:128 Resp: 91901

Ion Ratio Lower Upper

128 100

127 13.7 10.5 15.7

129 12.1 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

