

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD121719\
 Data File : VD064552.D
 Acq On : 17 Dec 2019 18:31
 Operator : VA/SY
 Sample : K6357-09
 Misc : 5.04G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 PF-D

Quant Time: Dec 18 00:49:41 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	498726	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	753973	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	736543	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	373570	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	194230	43.03	ug/l	0.00
Spiked Amount			Recovery	=	86.06%	
35) Dibromofluoromethane	7.92	113	219181	46.14	ug/l	0.00
Spiked Amount			Recovery	=	92.28%	
50) Toluene-d8	10.34	98	910183	50.86	ug/l	0.00
Spiked Amount			Recovery	=	101.72%	
62) 4-Bromofluorobenzene	12.64	95	322985	56.16	ug/l	0.00
Spiked Amount			Recovery	=	112.32%	

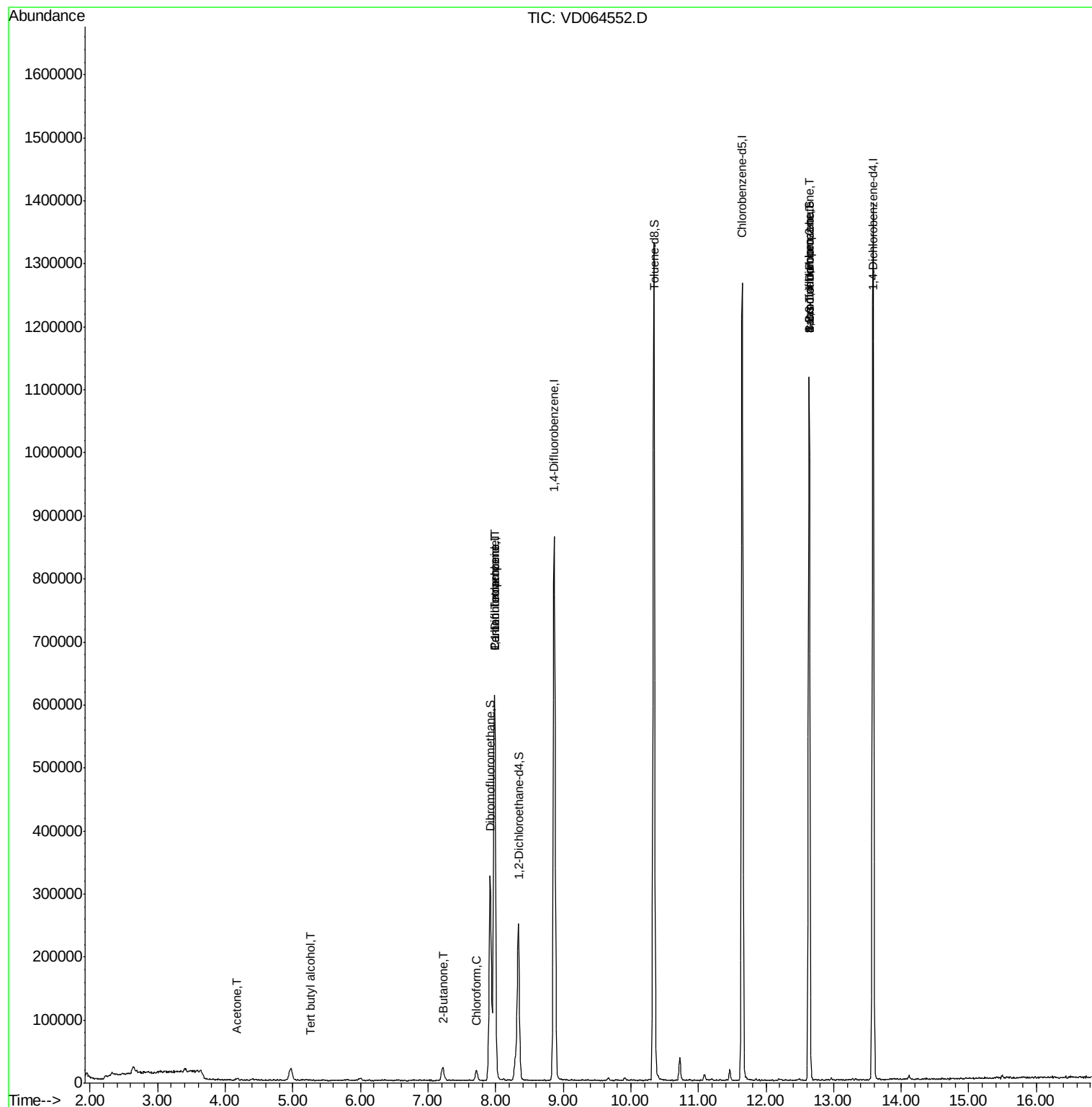
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.27	59	315	1.096	ug/l #	100
16) Acetone	4.17	43	4135	4.533	ug/l #	73
20) Methylene Chloride	4.97	84	14813	Below Cal		86
25) 2-Butanone	7.23	43	1843	1.429	ug/l #	49
30) Chloroform	7.72	83	14521	1.683	ug/l	87
31) Cyclohexane	7.98	56	10474	Below Cal	#	49
36) 1,1-Dichloropropene	7.98	75	34208	4.797	ug/l #	49
38) Carbon Tetrachloride	7.98	117	47012	6.246	ug/l #	15
71) Bromoform	12.64	173	3633	1.068	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	168694	54.911	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	168694	119.735	ug/l #	9

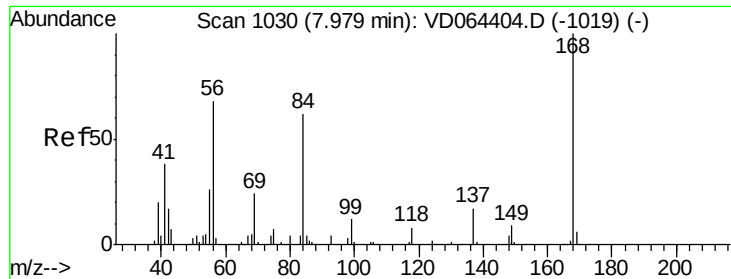
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_D\DATA\VD121719\
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD064552.D

Acq: 17 Dec 2019 18:31

Instrument :

MSVOA_D

ClientSampleId :

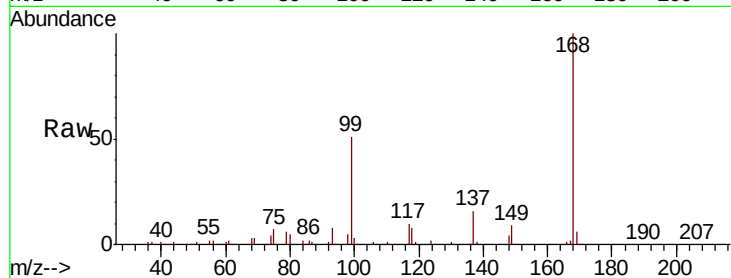
PF-D

Tgt Ion:168 Resp: 498726

Ion Ratio Lower Upper

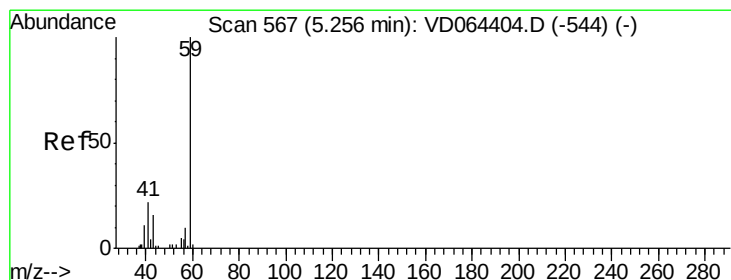
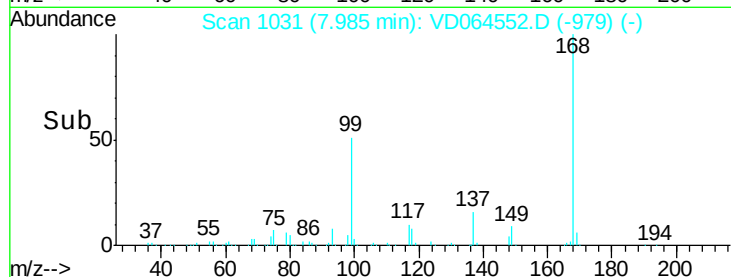
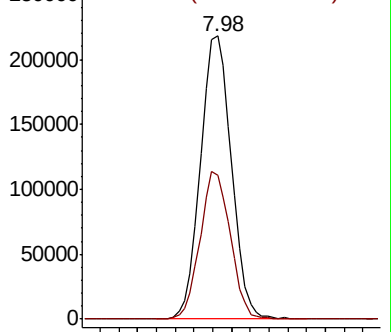
168 100

99 51.0 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: 1.096 ug/l

RT: 5.27 min Scan# 569

Delta R.T. 0.01 min

Lab File: VD064552.D

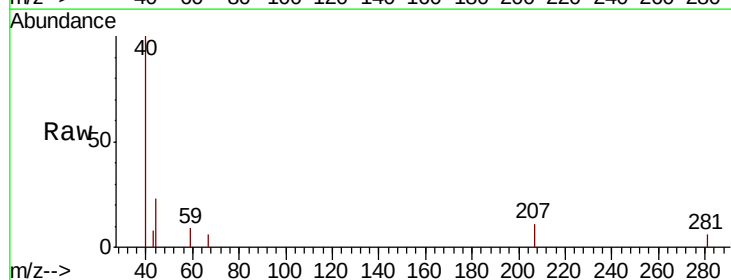
Acq: 17 Dec 2019 18:31

Tgt Ion: 59 Resp: 315

Ion Ratio Lower Upper

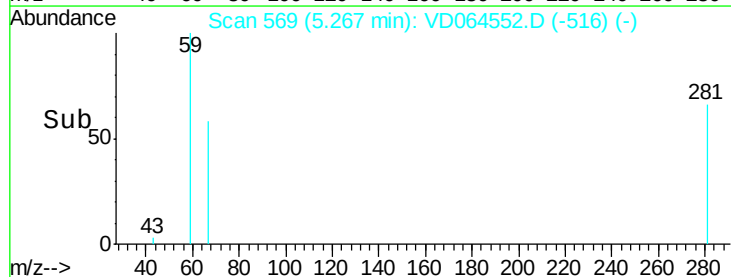
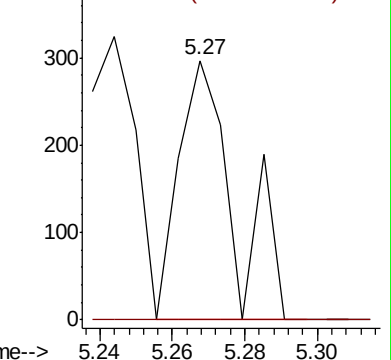
59 100

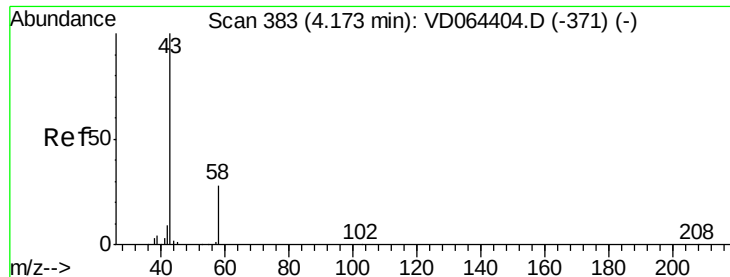
57 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 4.533 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.00 min

Lab File: VD064552.D

Acq: 17 Dec 2019 18:31

Instrument :

MSVOA_D

ClientSampleId :

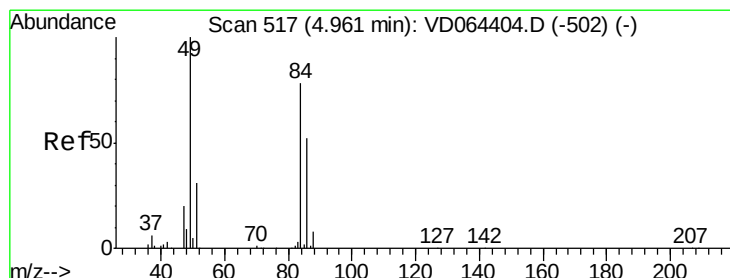
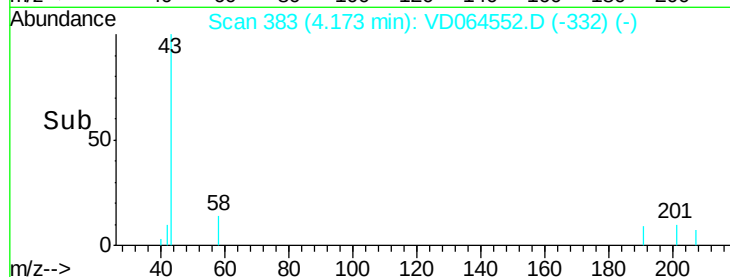
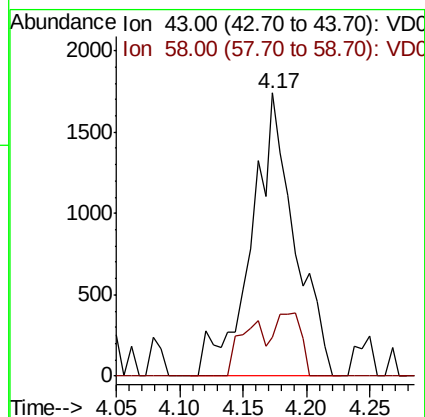
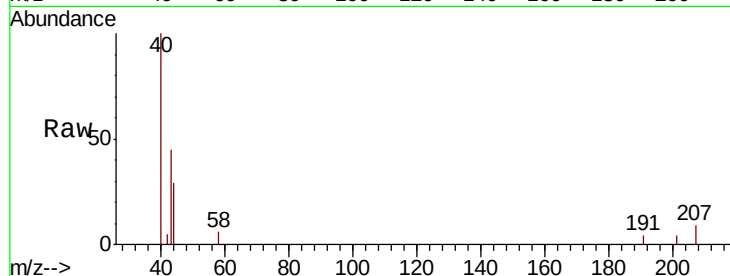
PF-D

Tgt Ion: 43 Resp: 4135

Ion Ratio Lower Upper

43 100

58 13.9 22.6 33.8#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD064552.D

Acq: 17 Dec 2019 18:31

Tgt Ion: 84 Resp: 14813

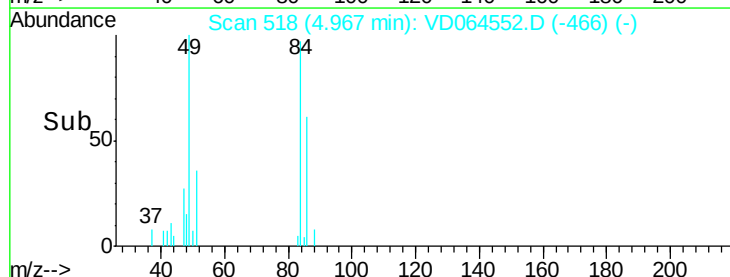
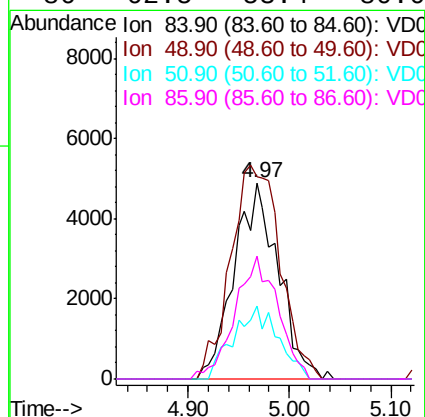
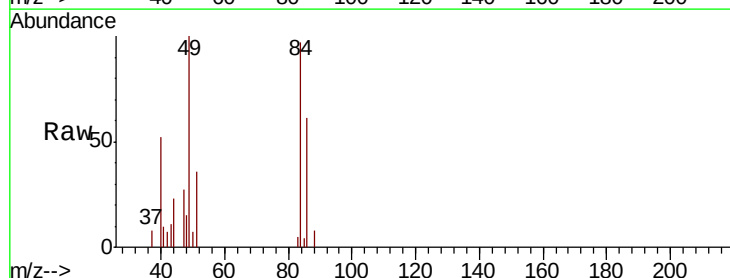
Ion Ratio Lower Upper

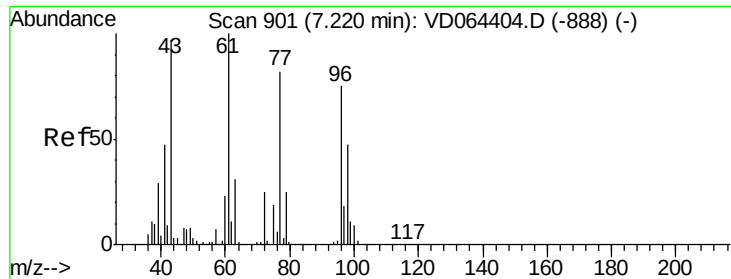
84 100

49 102.9 102.6 153.8

51 36.9 32.0 48.0

86 62.5 53.4 80.0





#25

2-Butanone

Concen: 1.429 ug/l

RT: 7.23 min Scan# 903

Delta R.T. 0.01 min

Lab File: VD064552.D

Acq: 17 Dec 2019 18:31

Instrument :

MSVOA_D

ClientSampleId :

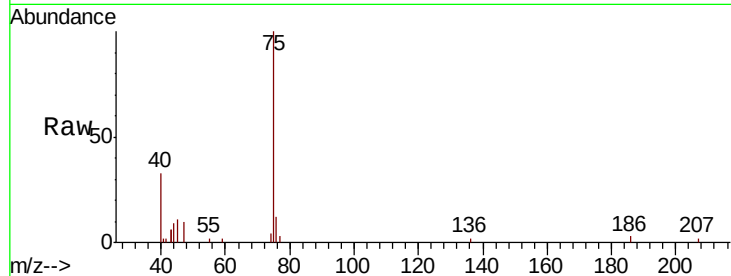
PF-D

Tgt Ion: 43 Resp: 1843

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

1200

1000

800

600

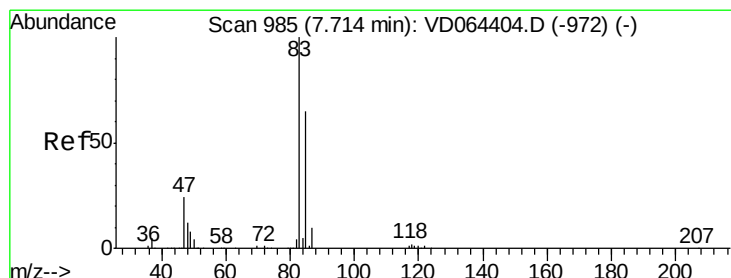
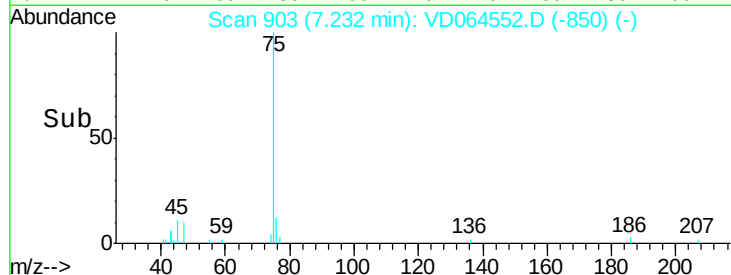
400

200

0

7.15 7.20 7.25

Time-->



#30

Chloroform

Concen: 1.683 ug/l

RT: 7.72 min Scan# 986

Delta R.T. 0.01 min

Lab File: VD064552.D

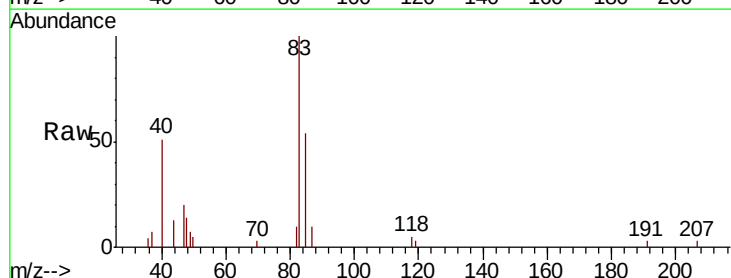
Acq: 17 Dec 2019 18:31

Tgt Ion: 83 Resp: 14521

Ion Ratio Lower Upper

83 100

85 54.2 51.8 77.6



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

6000

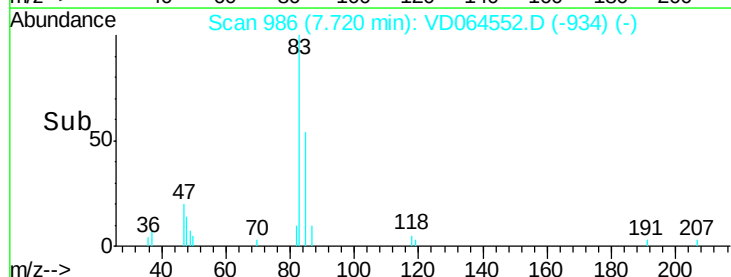
4000

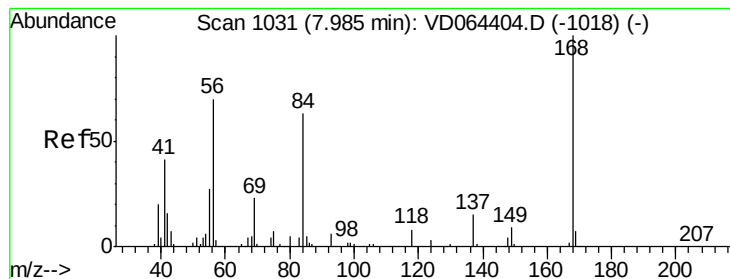
2000

0

7.65 7.70 7.75 7.80

Time-->





#31

Cyclohexane

Concen: Below Cal

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064552.D

Acq: 17 Dec 2019 18:31

Instrument :

MSVOA_D

ClientSampleID :

PF-D

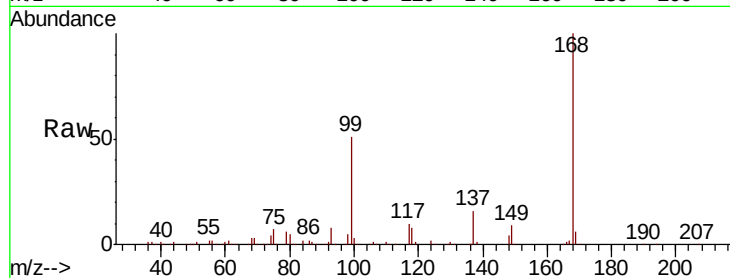
Tgt Ion: 56 Resp: 10474

Ion Ratio Lower Upper

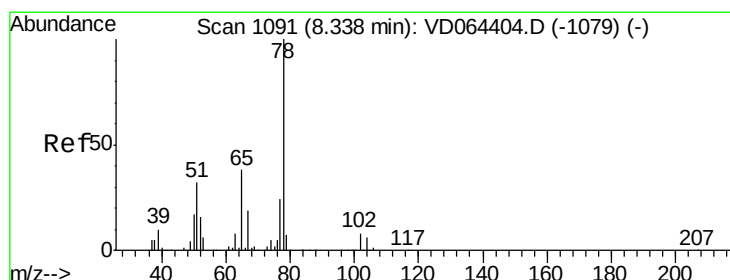
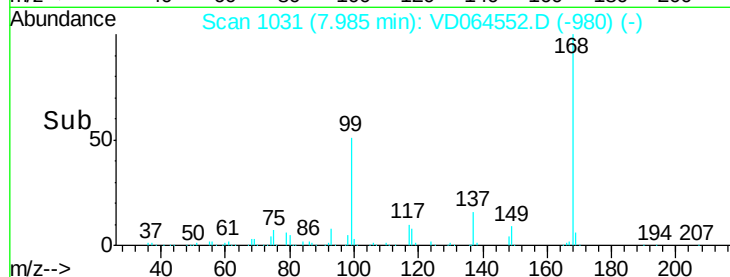
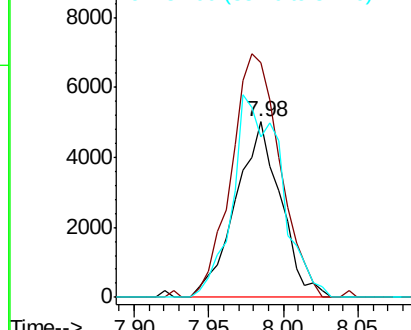
56 100

69 133.7 26.2 39.4#

84 91.4 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: 43.026 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD064552.D

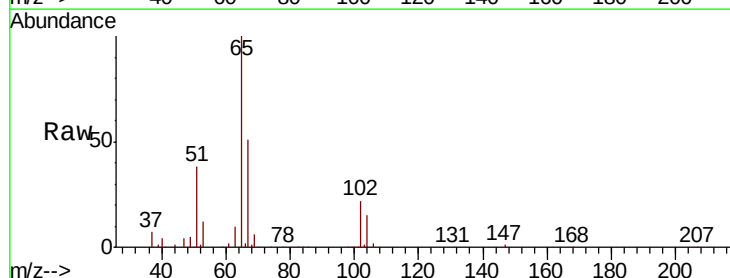
Acq: 17 Dec 2019 18:31

Tgt Ion: 65 Resp: 194230

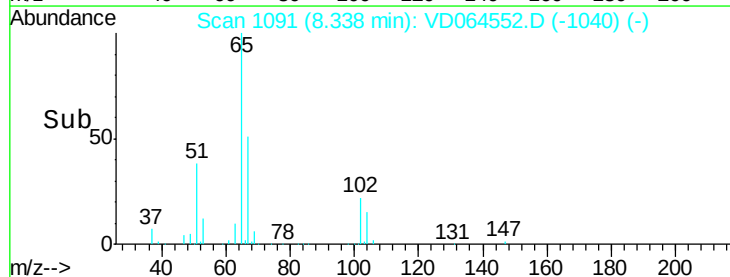
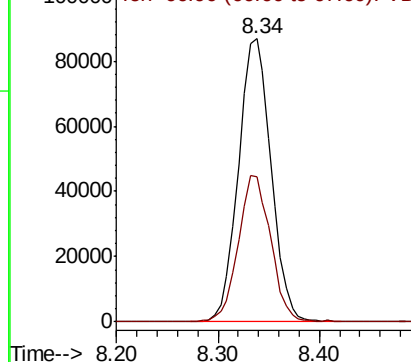
Ion Ratio Lower Upper

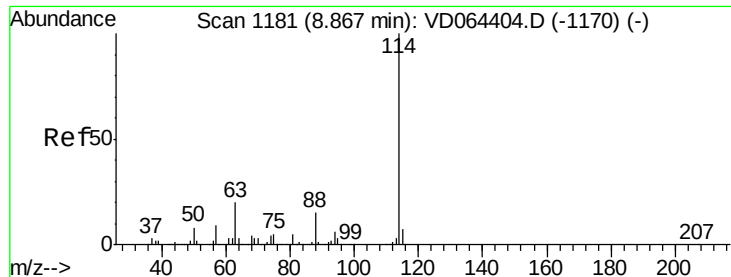
65 100

67 51.3 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: VD064552.D

Acq: 17 Dec 2019 18:31

Instrument :

MSVOA_D

ClientSampleId :

PF-D

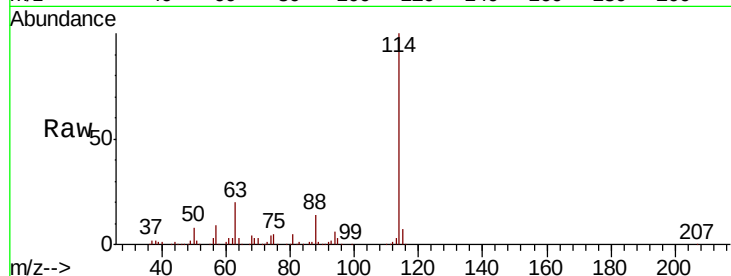
Tgt Ion:114 Resp: 753973

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.0

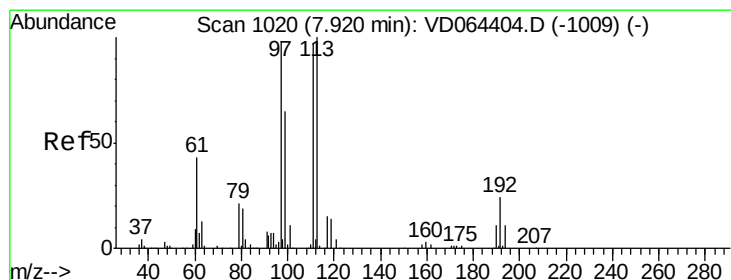
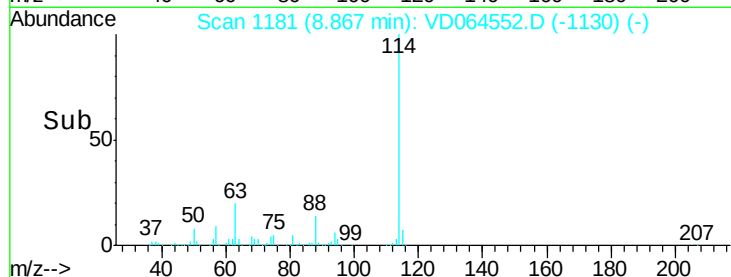
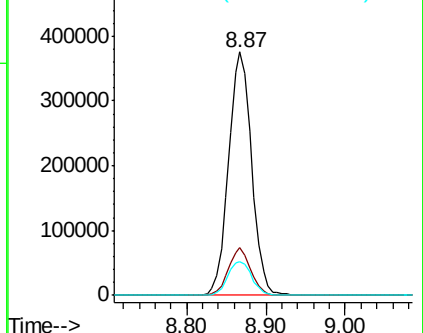
88 13.9 0.0 29.2



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: 46.139 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD064552.D

Acq: 17 Dec 2019 18:31

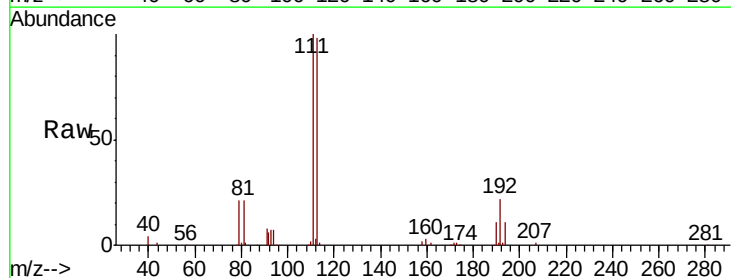
Tgt Ion:113 Resp: 219181

Ion Ratio Lower Upper

113 100

111 103.8 79.4 119.2

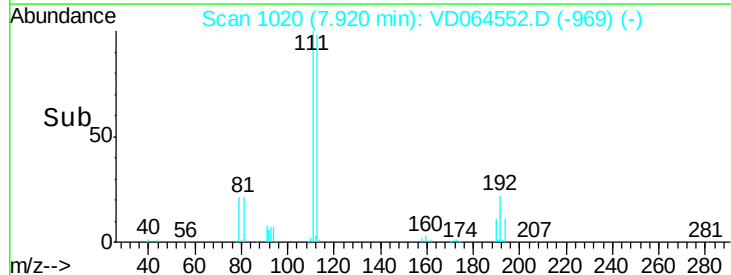
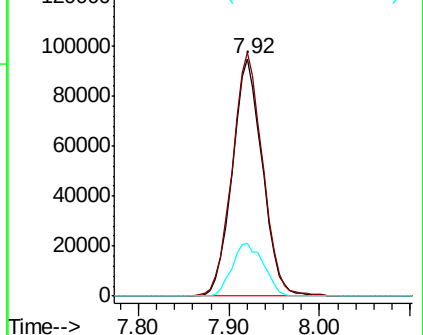
192 23.4 18.6 28.0

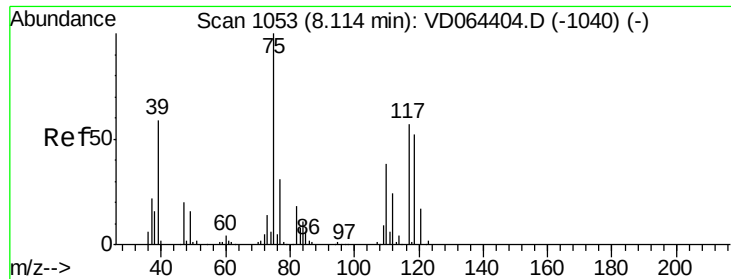


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

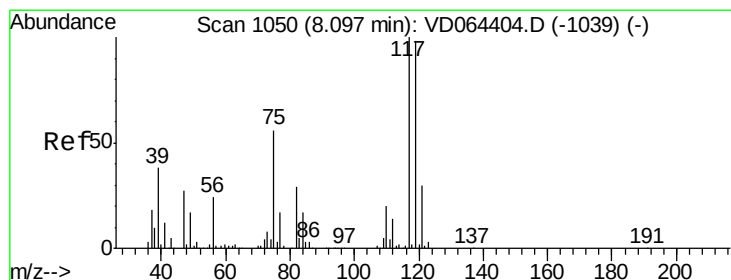
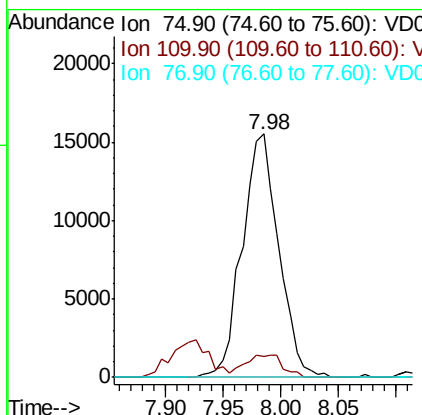
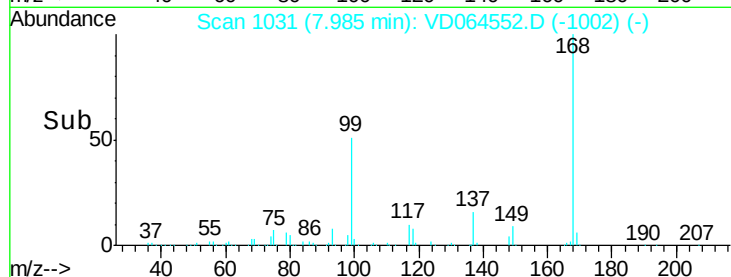
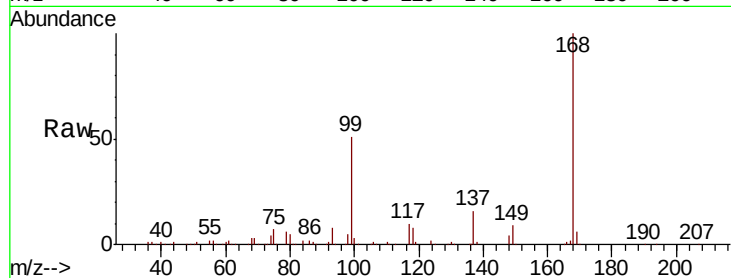




#36
 1,1-Dichloropropene
 Concen: 4.797 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064552.D
 Acq: 17 Dec 2019 18:31

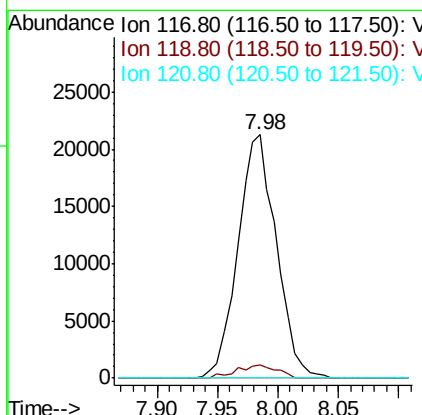
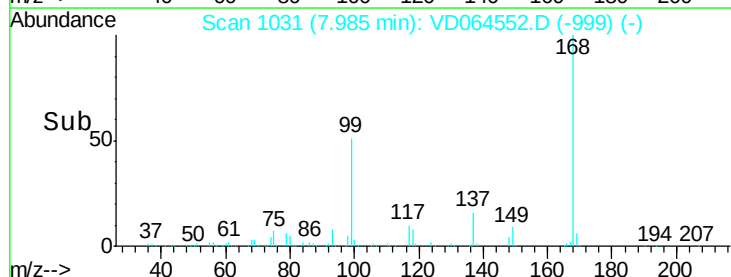
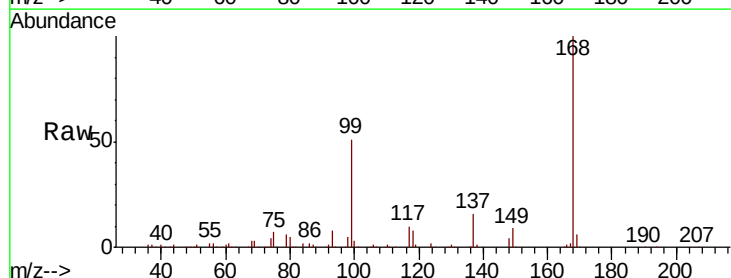
Instrument :
 MSVOA_D
 ClientSampleID :
 PF-D

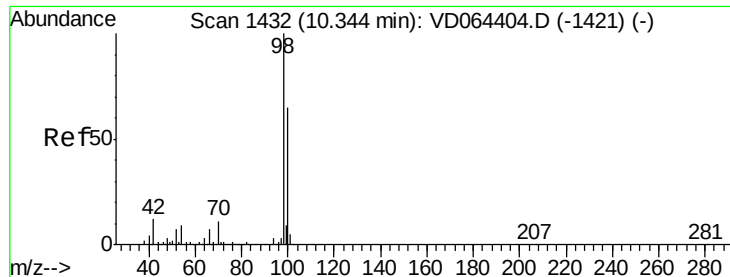
Tgt Ion: 75 Resp: 34208
 Ion Ratio Lower Upper
 75 100
 110 9.4 18.6 55.8#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.246 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.11 min
 Lab File: VD064552.D
 Acq: 17 Dec 2019 18:31

Tgt Ion: 117 Resp: 47012
 Ion Ratio Lower Upper
 117 100
 119 5.2 78.8 118.2#
 121 0.0 24.2 36.2#

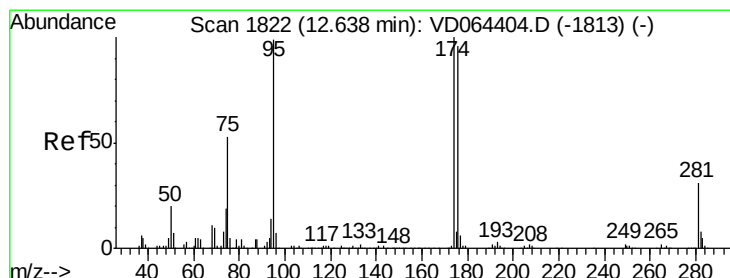
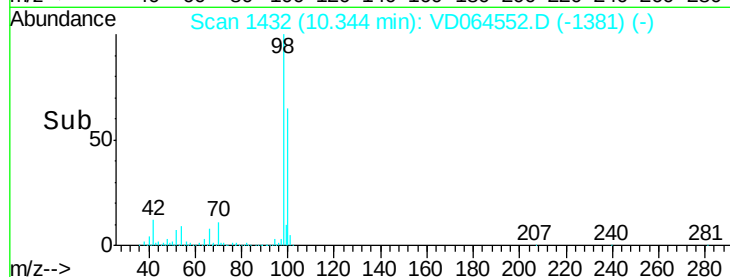
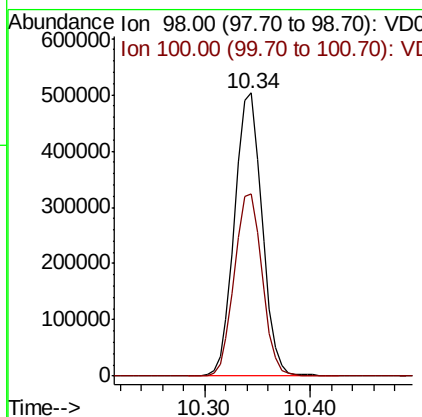
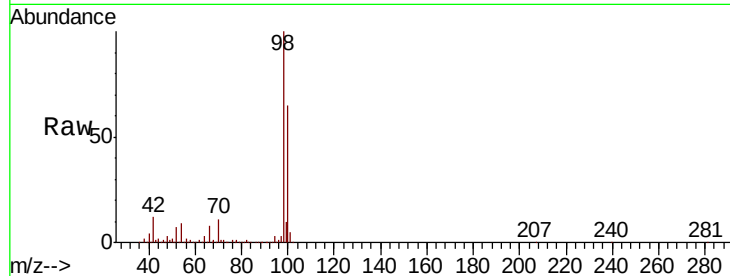




#50
Toluene-d8
Concen: 50.865 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD064552.D
Acq: 17 Dec 2019 18:31

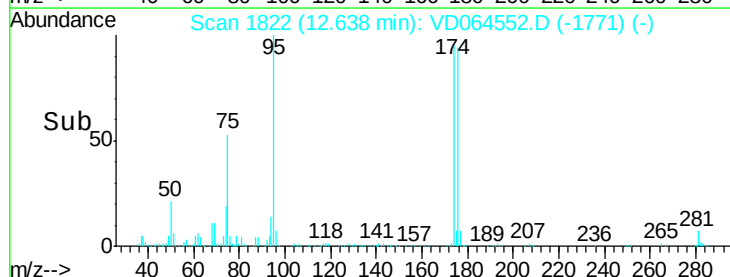
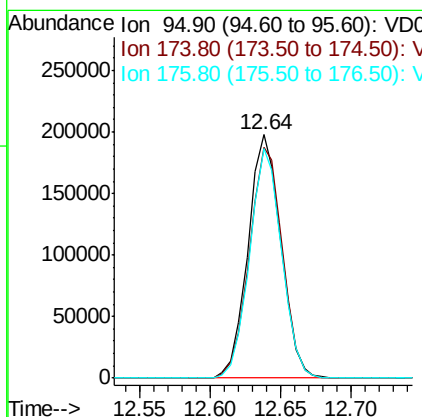
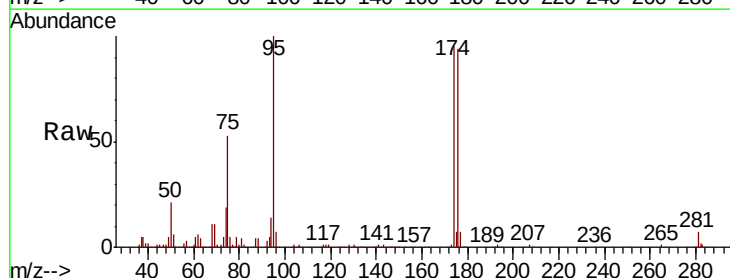
Instrument :
MSVOA_D
ClientSampled :
PF-D

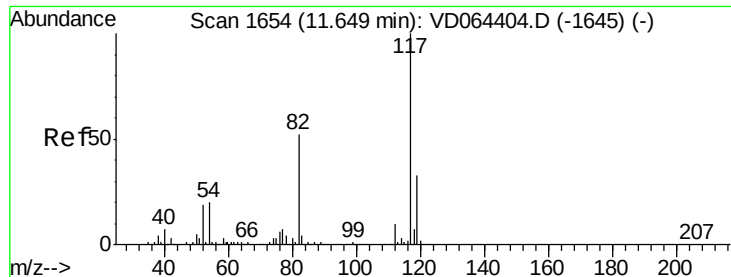
Tgt Ion: 98 Resp: 910183
Ion Ratio Lower Upper
98 100
100 65.1 52.6 79.0



#62
4-Bromofluorobenzene
Concen: 56.164 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064552.D
Acq: 17 Dec 2019 18:31

Tgt Ion: 95 Resp: 322985
Ion Ratio Lower Upper
95 100
174 95.3 0.0 197.2
176 91.9 0.0 189.6

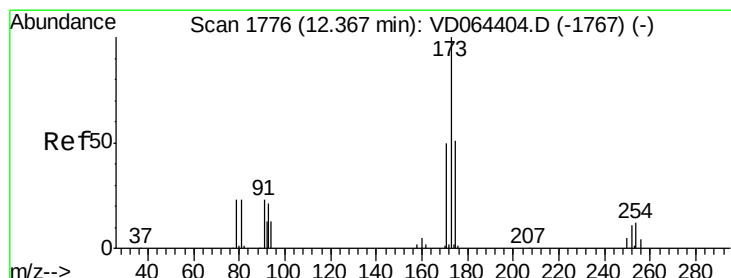
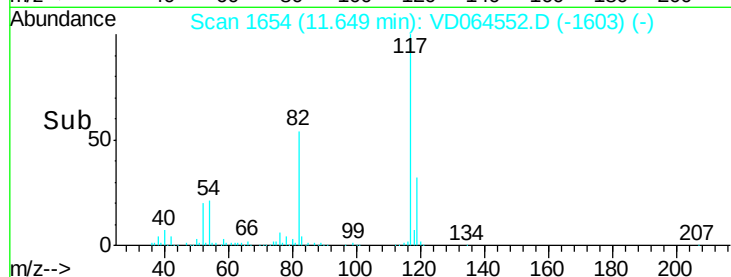
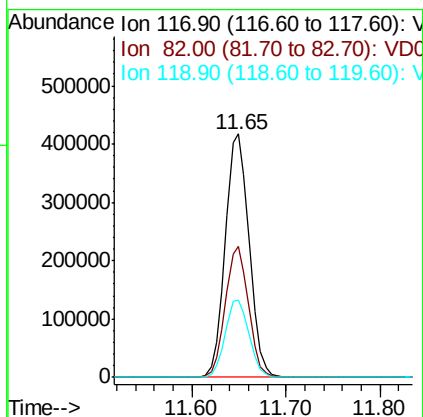
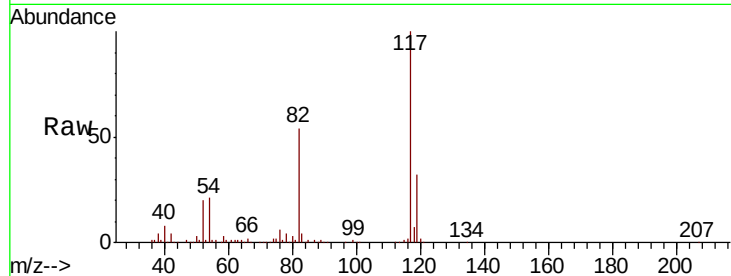




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064552.D
Acq: 17 Dec 2019 18:31

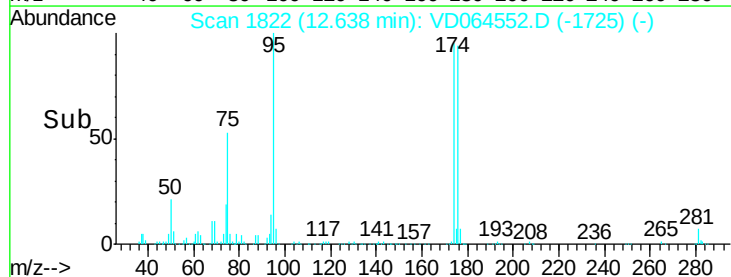
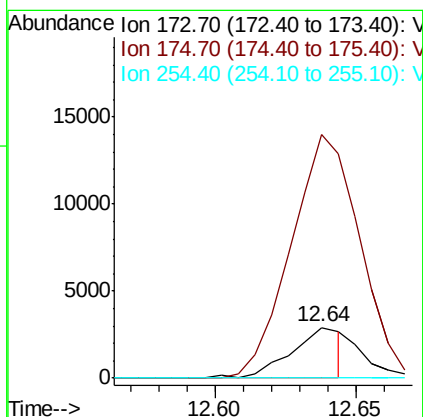
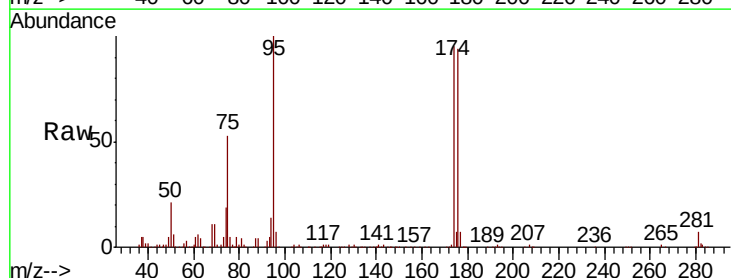
Instrument :
MSVOA_D
ClientSampled :
PF-D

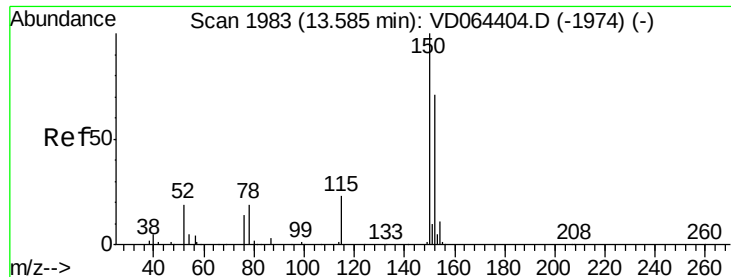
Tgt Ion:117 Resp: 736543
Ion Ratio Lower Upper
117 100
82 53.9 41.4 62.2
119 31.9 26.2 39.2



#71
Bromoform
Concen: 1.068 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.27 min
Lab File: VD064552.D
Acq: 17 Dec 2019 18:31

Tgt Ion:173 Resp: 3633
Ion Ratio Lower Upper
173 100
175 484.9 25.3 75.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064552.D

Acq: 17 Dec 2019 18:31

Instrument :

MSVOA_D

ClientSampleId :

PF-D

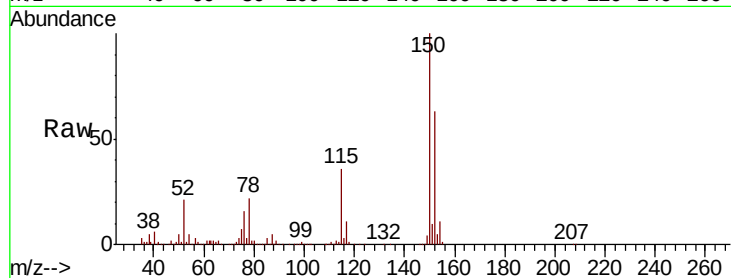
Tgt Ion:152 Resp: 373570

Ion Ratio Lower Upper

152 100

115 54.9 26.7 80.1

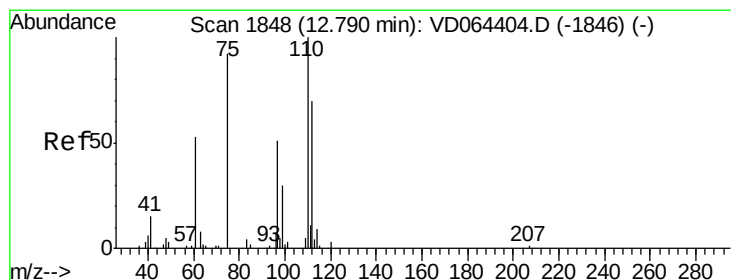
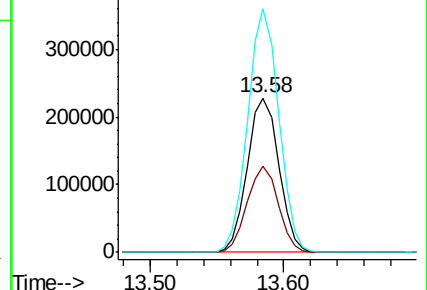
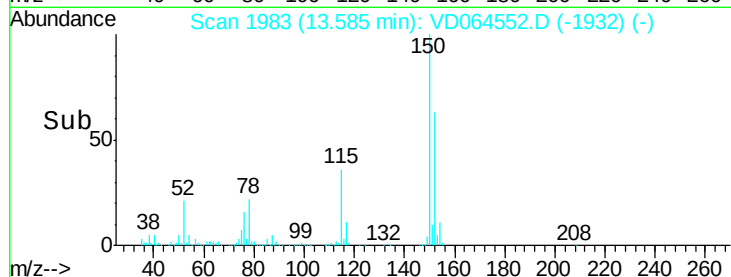
150 154.5 0.0 347.2



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: 54.911 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064552.D

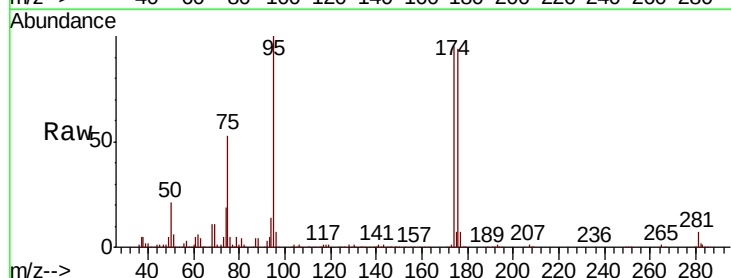
Acq: 17 Dec 2019 18:31

Tgt Ion: 75 Resp: 168694

Ion Ratio Lower Upper

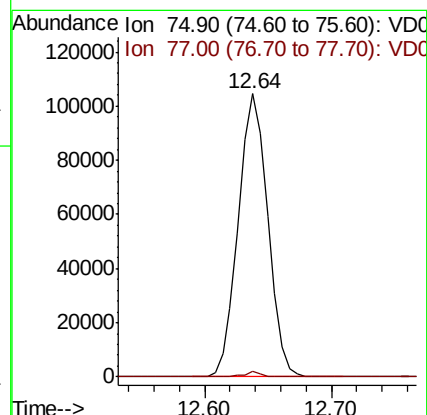
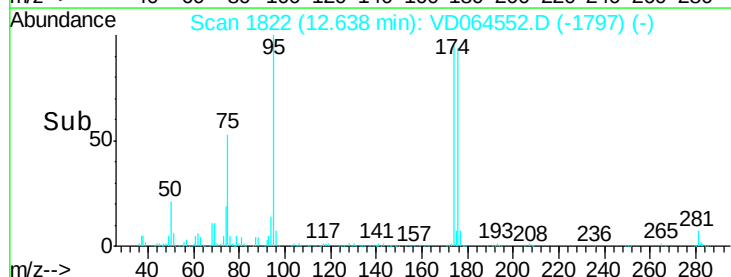
75 100

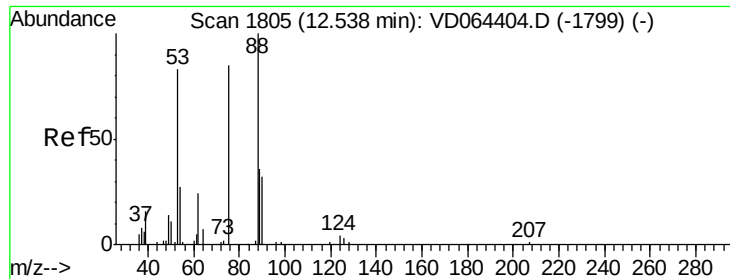
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 119.735 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064552.D

Acq: 17 Dec 2019 18:31

Instrument :

MSVOA_D

ClientSampleId :

PF-D

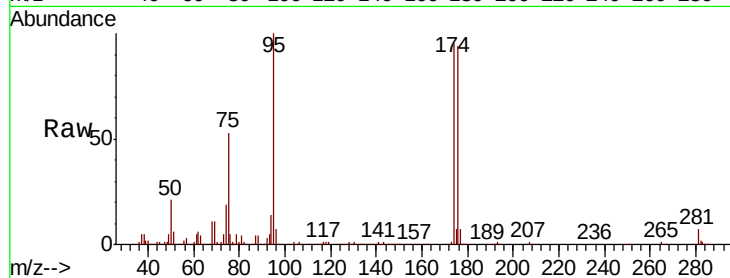
Tgt Ion: 75 Resp: 168694

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.0 38.5 57.7#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

