

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122619\
 Data File : VD064595.D
 Acq On : 26 Dec 2019 13:14
 Operator : VA/SY
 Sample : K6435-02
 Misc : 6.10G/5.00ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 27 01:39:34 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

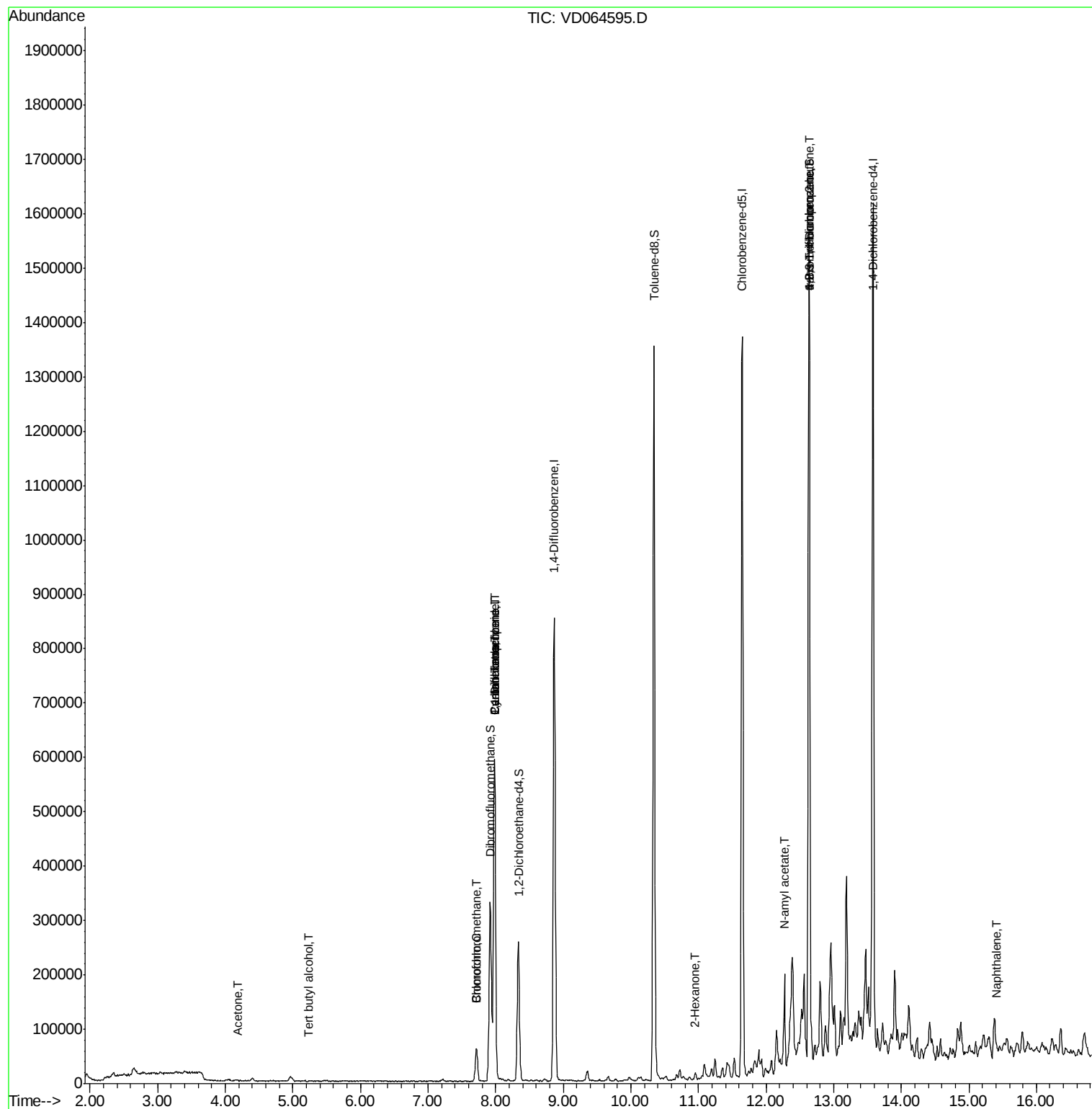
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	467735	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	741035	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	783021	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	411073	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	203997	49.46	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.92%	
35) Dibromofluoromethane	7.92	113	225519	49.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.20%	
50) Toluene-d8	10.34	98	916235	52.62	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.24%	
62) 4-Bromofluorobenzene	12.64	95	356687	64.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	129.56%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.24	59	332	1.405	ug/l #	70
16) Acetone	4.19	43	3111	7.342	ug/l #	46
20) Methylene Chloride	4.96	84	6003	Below Cal	#	84
28) Bromochloromethane	7.71	49	5247	1.757	ug/l #	11
30) Chloroform	7.71	83	58197	7.220	ug/l	98
31) Cyclohexane	7.98	56	12296	1.599	ug/l #	49
36) 1,1-Dichloropropene	7.98	75	32663	4.579	ug/l #	50
38) Carbon Tetrachloride	7.98	117	44237	5.817	ug/l #	16
59) 2-Hexanone	10.95	43	6770	3.618	ug/l #	27
74) N-amyl acetate	12.27	43	38480	6.128	ug/l #	66
76) 1,2,3-Trichloropropane	12.64	75	191414	58.968	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	191414	123.329	ug/l #	11
95) Naphthalene	15.41	128	18073	1.322	ug/l #	89

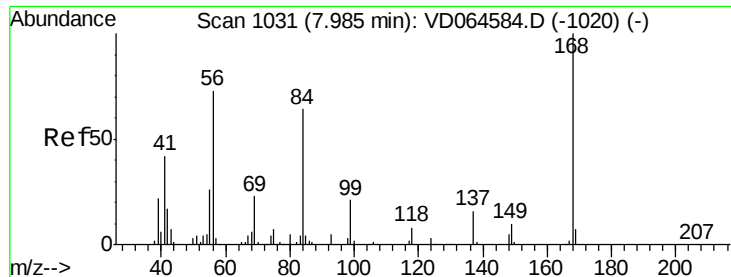
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 24 13:19:06 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064595.D

Acq: 26 Dec 2019 13:14

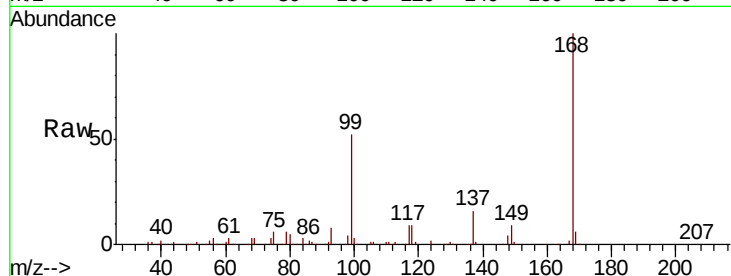
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 467735

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

7.98

200000

150000

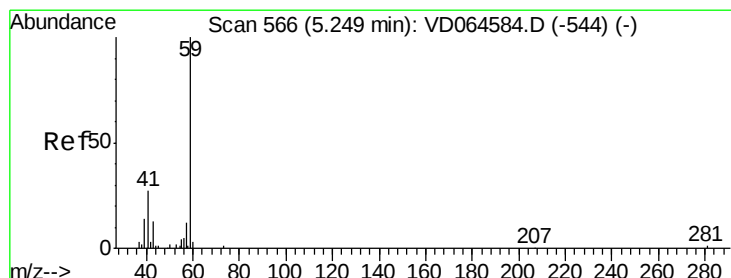
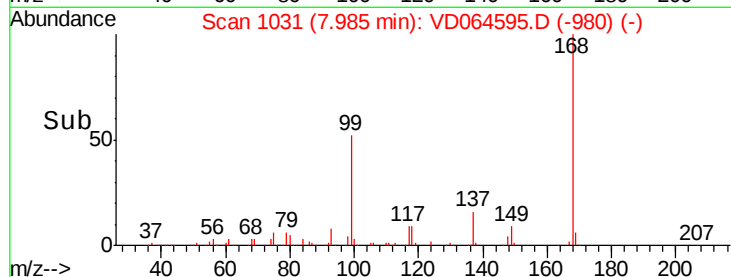
100000

50000

0

Time-->

7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 1.405 ug/l

RT: 5.24 min Scan# 564

Delta R.T. -0.01 min

Lab File: VD064595.D

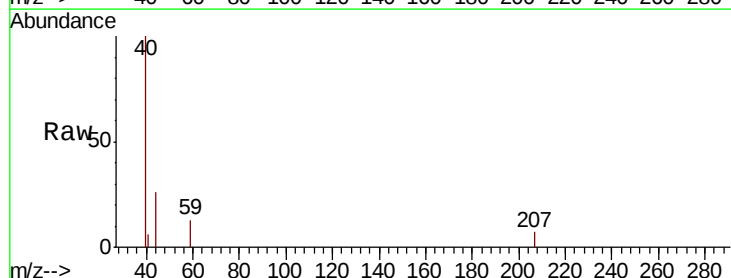
Acq: 26 Dec 2019 13:14

Tgt Ion: 59 Resp: 332

Ion Ratio Lower Upper

59 100

57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.24

500

400

300

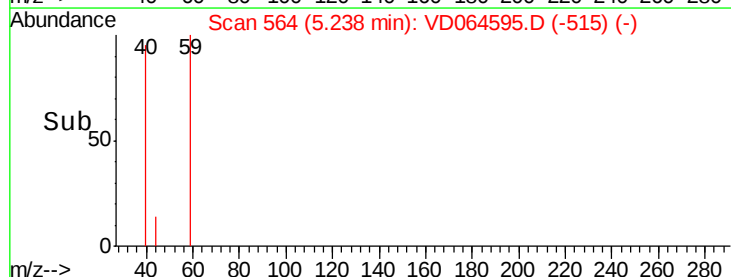
200

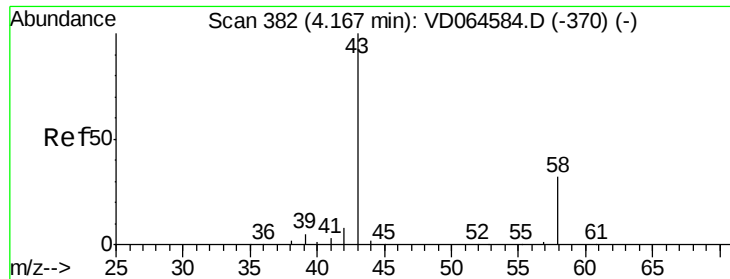
100

0

Time-->

5.22 5.24 5.26





#16

Acetone

Concen: 7.342 ug/l

RT: 4.19 min Scan# 385

Delta R.T. 0.02 min

Lab File: VD064595.D

Acq: 26 Dec 2019 13:14

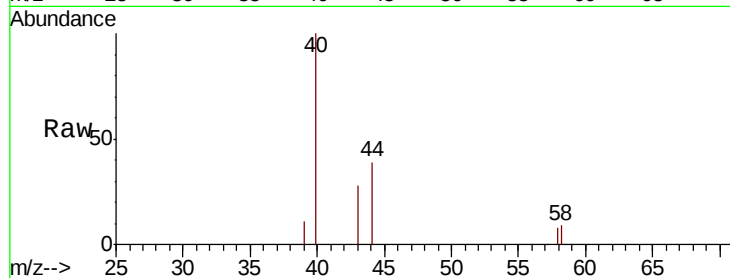
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 3111

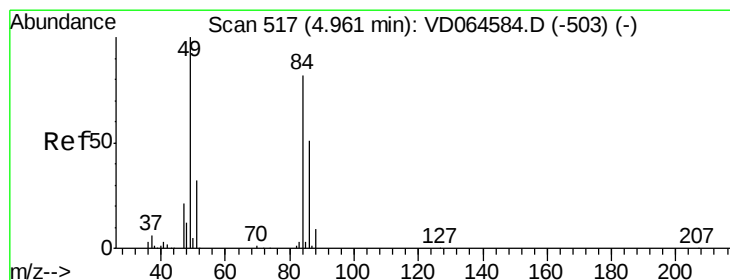
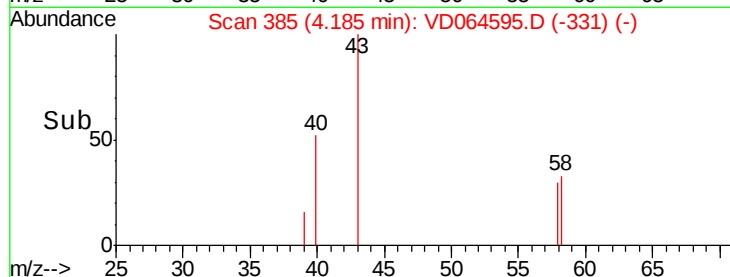
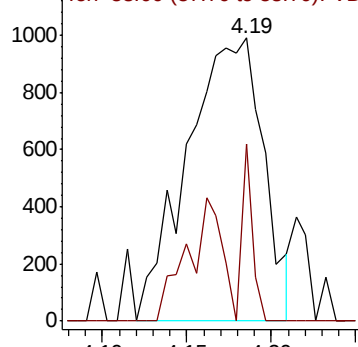
Ion Ratio Lower Upper

43 100

58 62.7 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: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD064595.D

Acq: 26 Dec 2019 13:14

Tgt Ion: 84 Resp: 6003

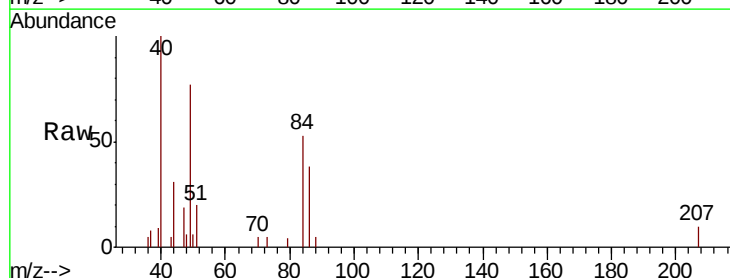
Ion Ratio Lower Upper

84 100

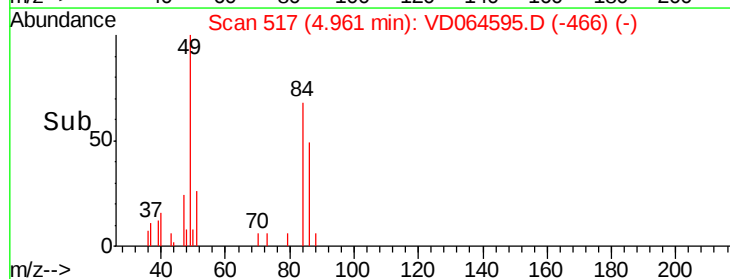
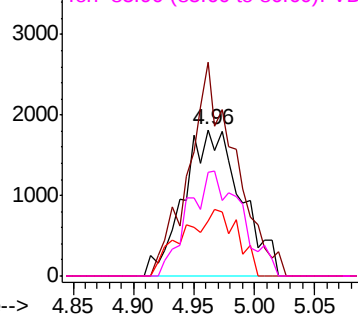
49 146.2 97.2 145.8#

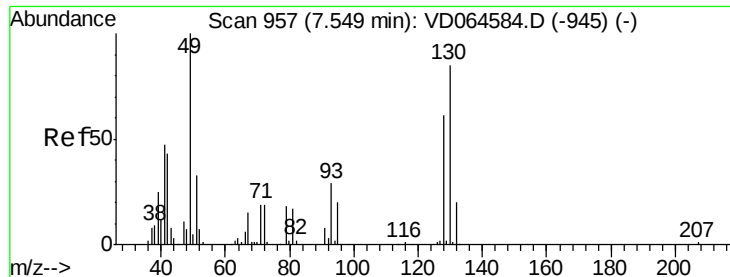
51 37.9 31.4 47.0

86 71.0 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





#28

Bromochloromethane

Concen: 1.757 ug/l

RT: 7.71 min Scan# 984

Delta R.T. 0.16 min

Lab File: VD064595.D

Acq: 26 Dec 2019 13:14

Instrument :
MSVOA_D
ClientSampleId :

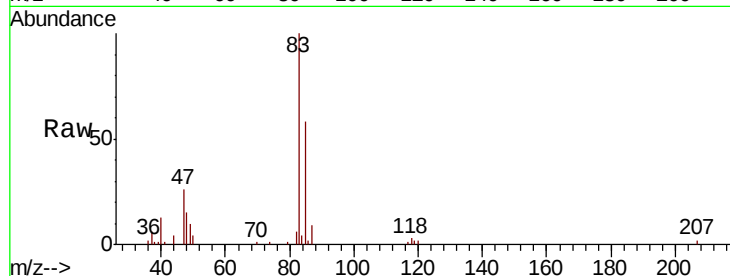
Tot Ion: 49 Resp: 5247

Ion Ratio Lower Upper

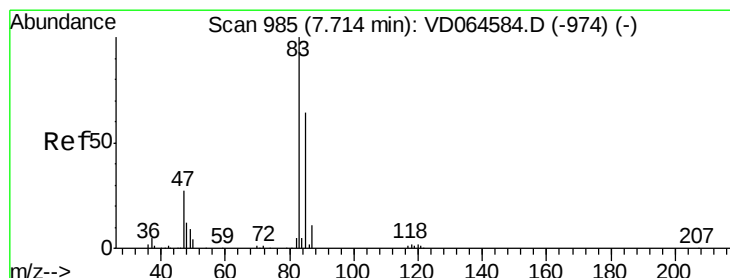
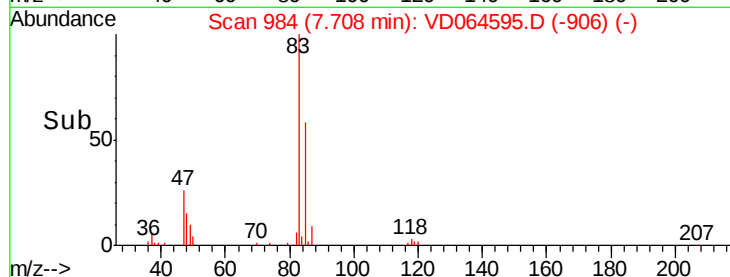
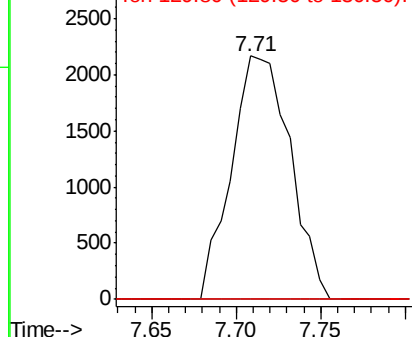
49 100

129 0.0 0.0 4.8

130 0.0 65.0 97.6#



Abundance Ion 48.90 (48.60 to 49.60): VDC
Ion 128.80 (128.50 to 129.50): VDC
Ion 129.80 (129.50 to 130.50): VDC



#30

Chloroform

Concen: 7.220 ug/l

RT: 7.71 min Scan# 985

Delta R.T. 0.00 min

Lab File: VD064595.D

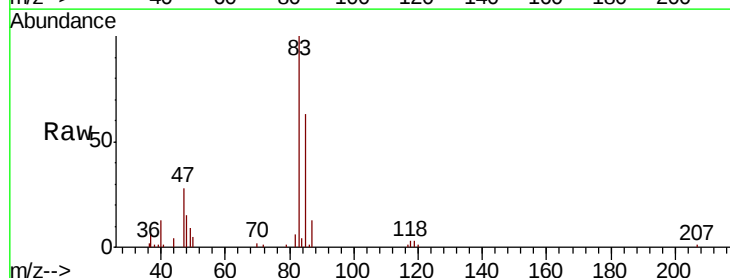
Acq: 26 Dec 2019 13:14

Tgt Ion: 83 Resp: 58197

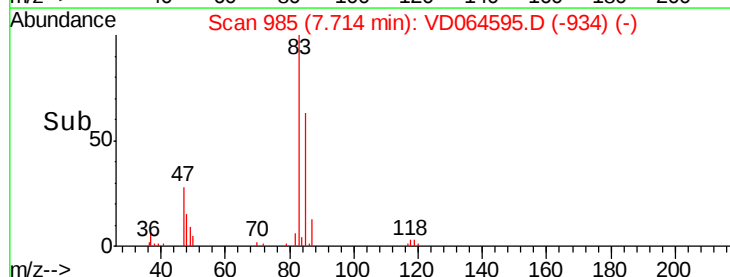
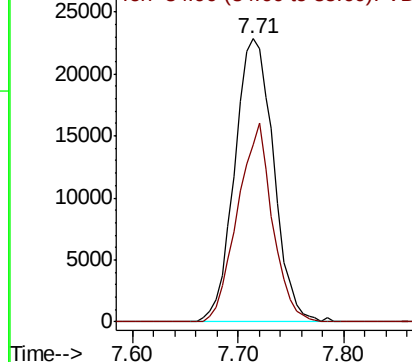
Ion Ratio Lower Upper

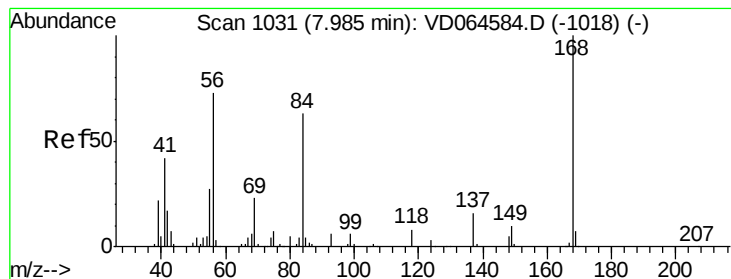
83 100

85 62.6 51.1 76.7



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 84.90 (84.60 to 85.60): VDC





#31

Cyclohexane

Concen: 1.599 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064595.D

Acq: 26 Dec 2019 13:14

Instrument :
MSVOA_D
ClientSampled :

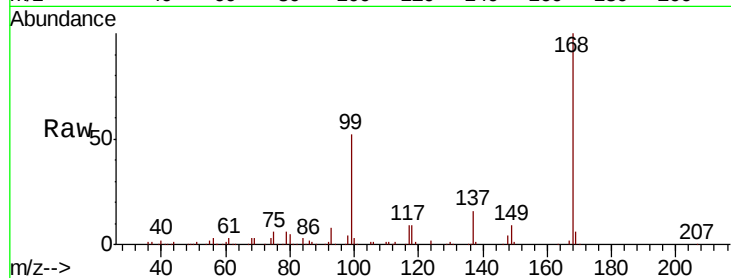
Tot Ion: 56 Resp: 12296

Ion Ratio Lower Upper

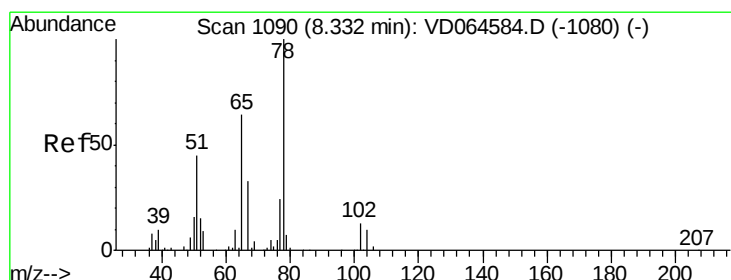
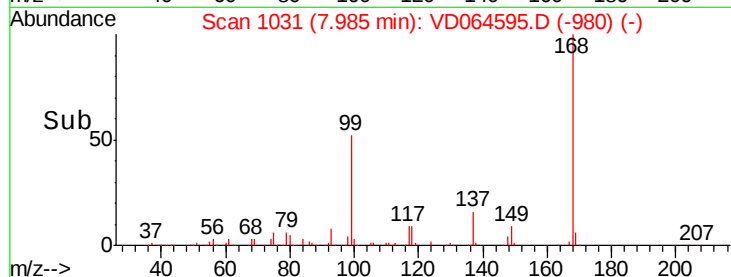
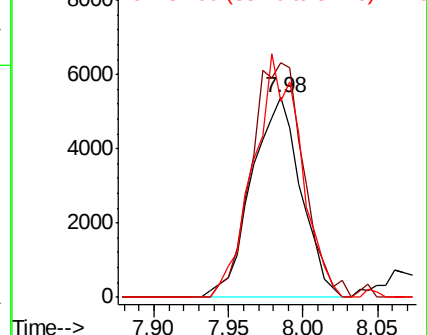
56 100

69 117.6 24.7 37.1#

84 98.2 69.4 104.2



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: 49.461 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD064595.D

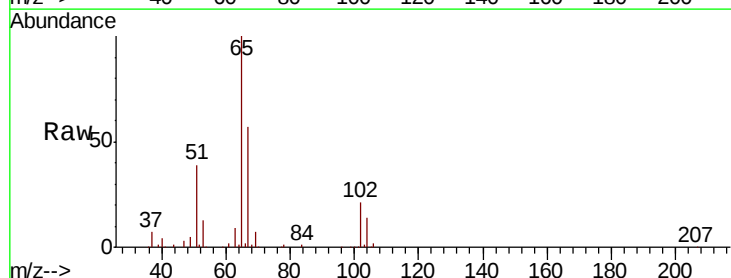
Acq: 26 Dec 2019 13:14

Tgt Ion: 65 Resp: 203997

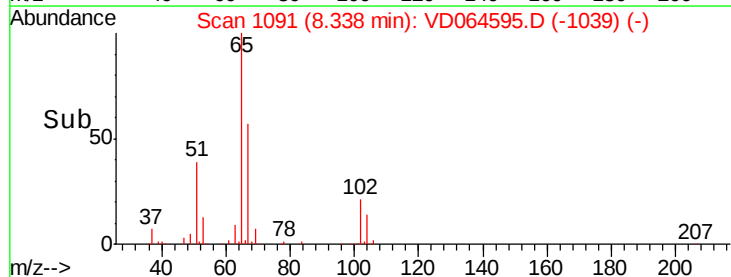
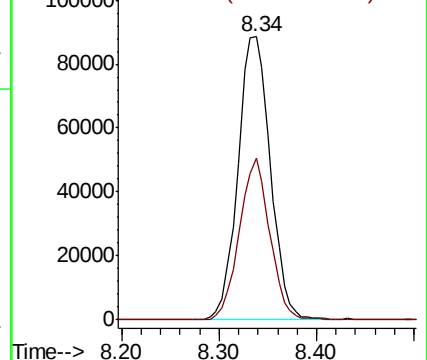
Ion Ratio Lower Upper

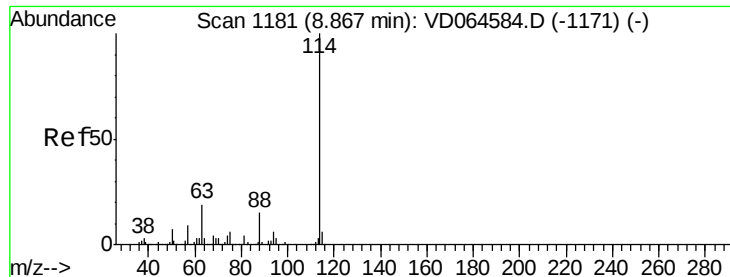
65 100

67 53.9 0.0 106.2



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

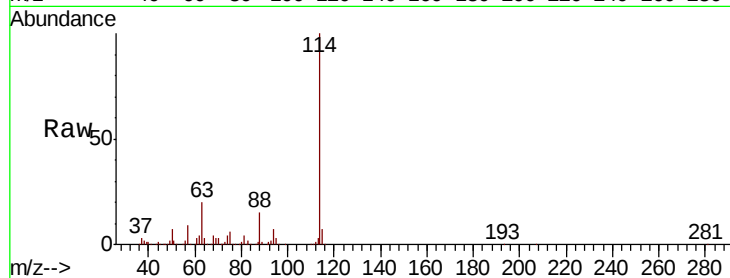




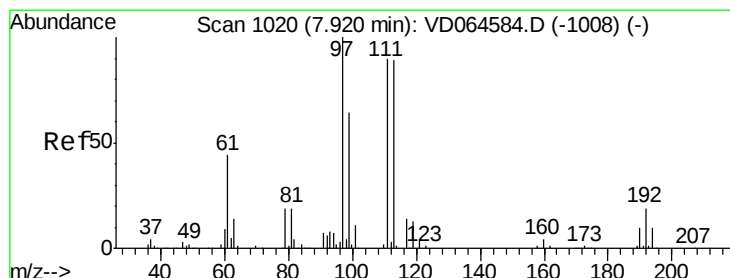
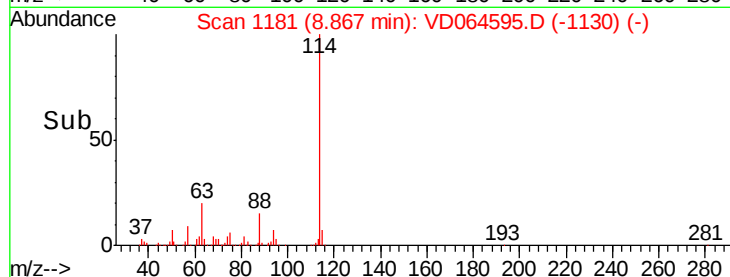
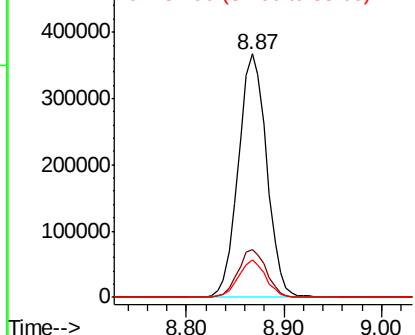
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064595.D
 Acq: 26 Dec 2019 13:14

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 741035
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 38.0
 88 15.4 0.0 29.2

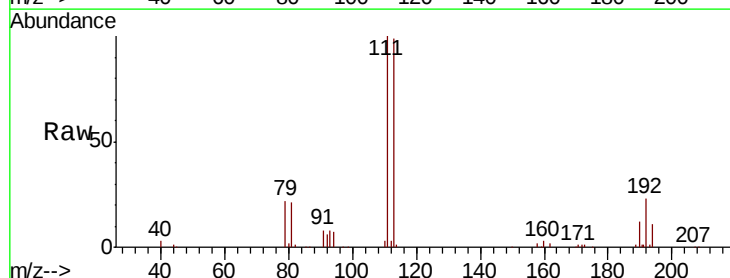


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

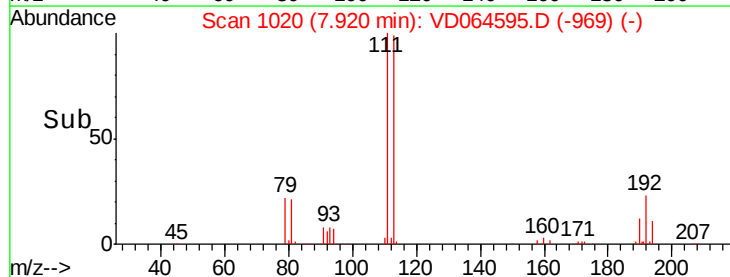
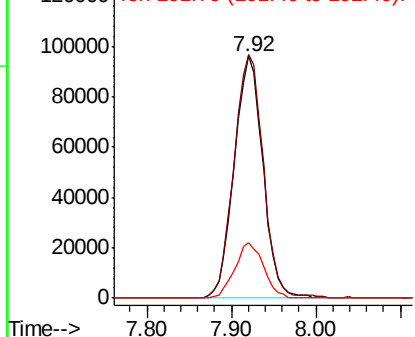


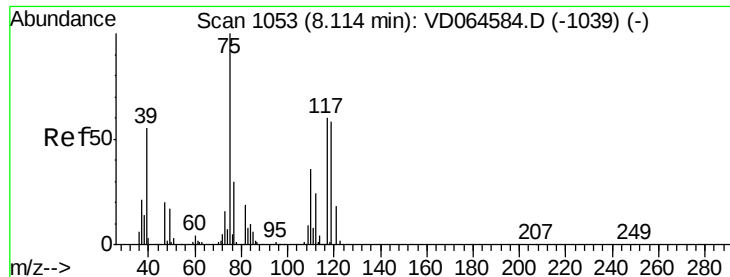
#35
 Dibromofluoromethane
 Concen: 49.604 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064595.D
 Acq: 26 Dec 2019 13:14

Tgt Ion:113 Resp: 225519
 Ion Ratio Lower Upper
 113 100
 111 101.5 80.6 121.0
 192 22.9 17.9 26.9



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: 4.579 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD064595.D

Acq: 26 Dec 2019 13:14

Instrument :

MSVOA_D

ClientSampleId :

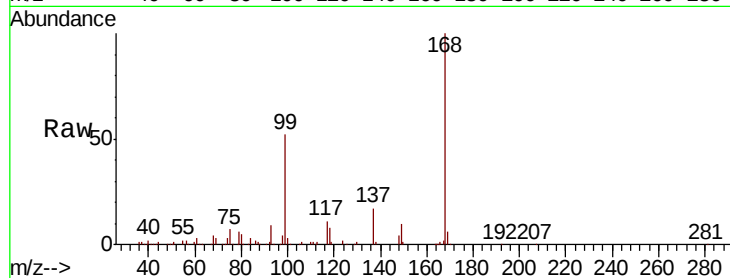
Tot Ion: 75 Resp: 32663

Ion Ratio Lower Upper

75 100

110 9.2 18.1 54.1#

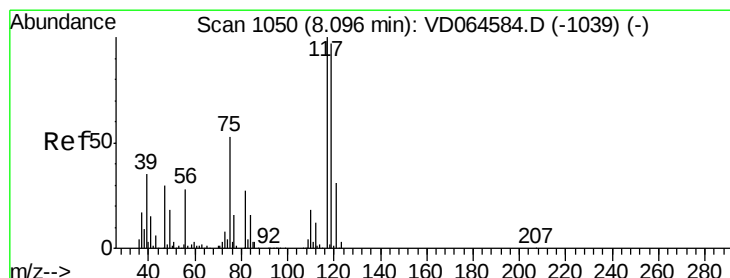
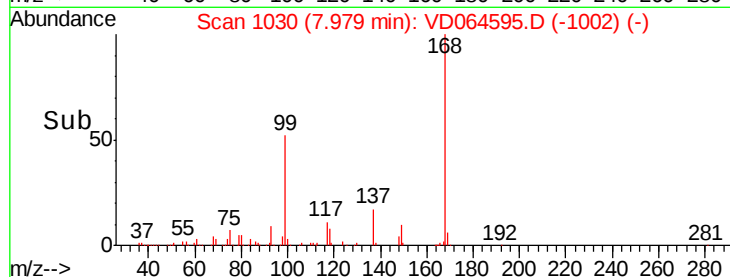
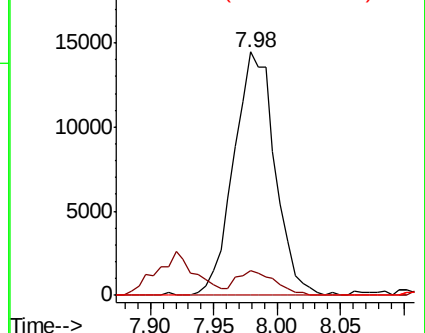
77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V



#38

Carbon Tetrachloride

Concen: 5.817 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064595.D

Acq: 26 Dec 2019 13:14

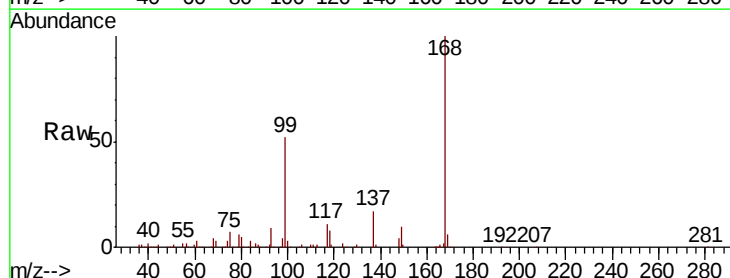
Tgt Ion: 117 Resp: 44237

Ion Ratio Lower Upper

117 100

119 5.6 77.3 115.9#

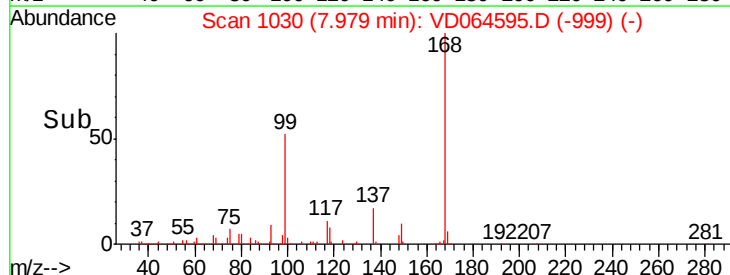
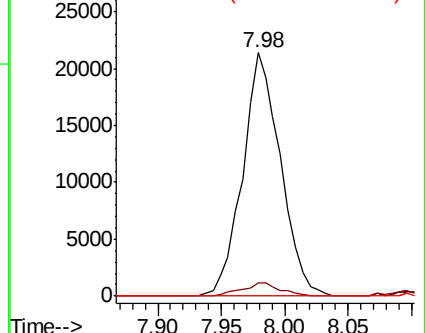
121 0.0 25.0 37.6#

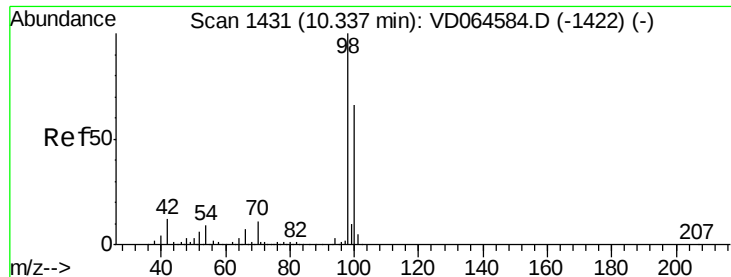


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 52.620 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD064595.D

Acq: 26 Dec 2019 13:14

Instrument :

MSVOA_D

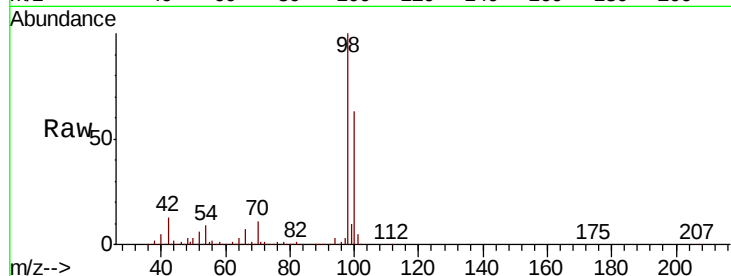
ClientSampled :

Tot Ion: 98 Resp: 916235

Ion Ratio Lower Upper

98 100

100 64.2 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

10.34

500000

400000

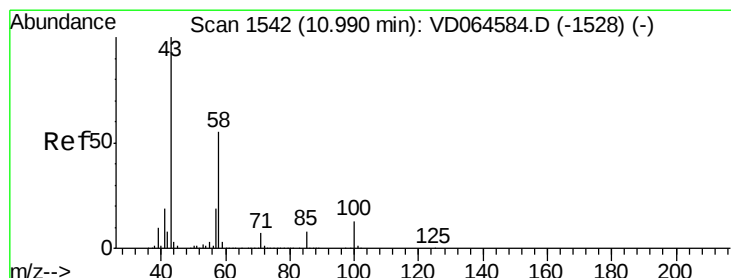
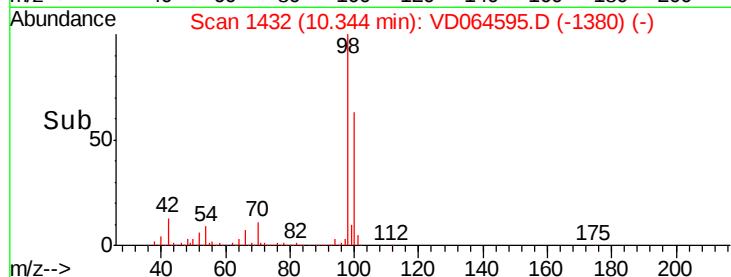
300000

200000

100000

0

Time-->



#59

2-Hexanone

Concen: 3.618 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. -0.04 min

Lab File: VD064595.D

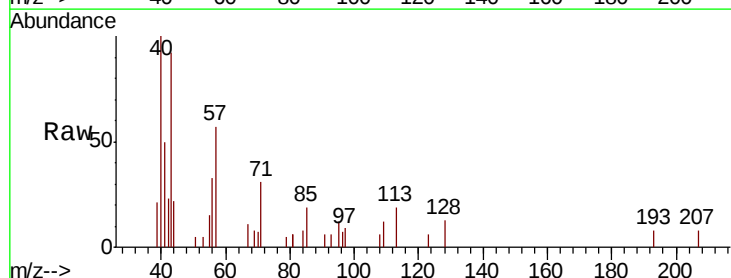
Acq: 26 Dec 2019 13:14

Tgt Ion: 43 Resp: 6770

Ion Ratio Lower Upper

43 100

58 1.1 26.4 79.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.95

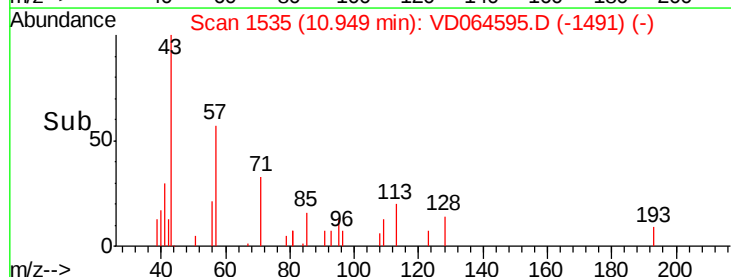
3000

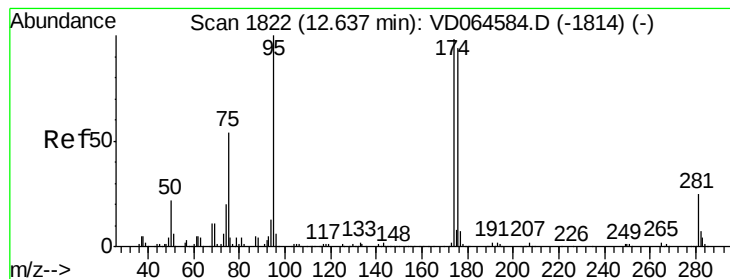
2000

1000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 64.783 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064595.D

Acq: 26 Dec 2019 13:14

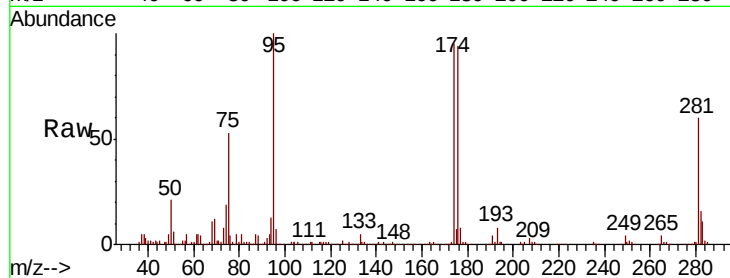
Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 95 Resp: 356687

Ion	Ratio	Lower	Upper
95	100		
174	95.7	0.0	193.2
176	92.5	0.0	184.2

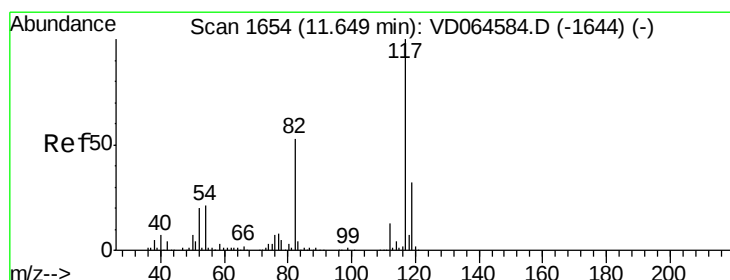
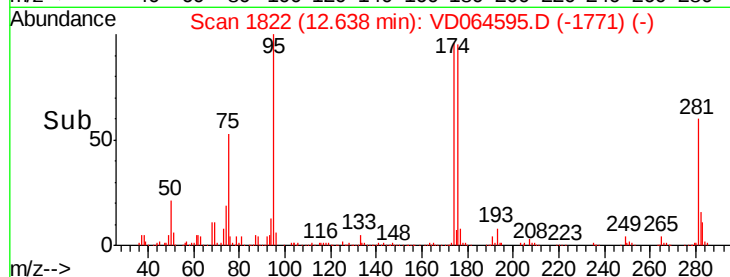
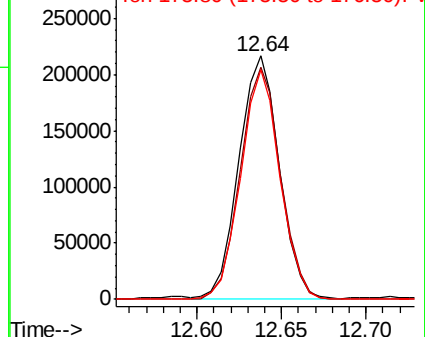


Abundance

Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

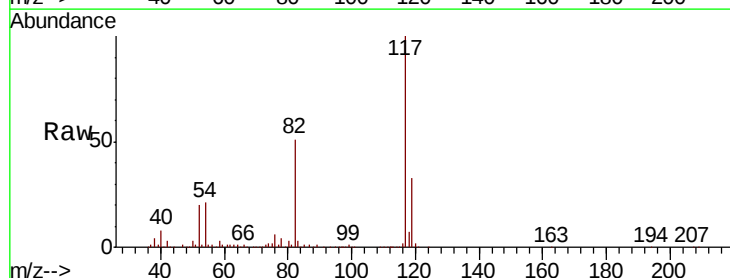
Delta R.T. 0.00 min

Lab File: VD064595.D

Acq: 26 Dec 2019 13:14

Tgt Ion: 117 Resp: 783021

Ion	Ratio	Lower	Upper
117	100		
82	50.6	42.2	63.4
119	32.8	26.0	39.0

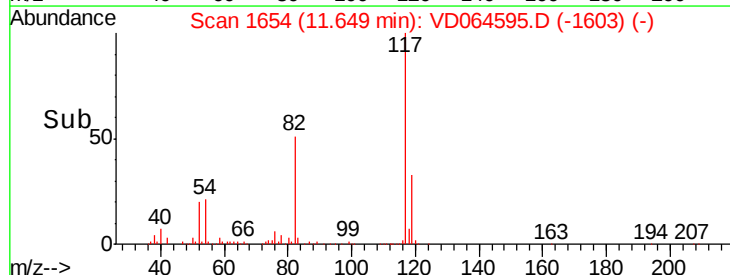
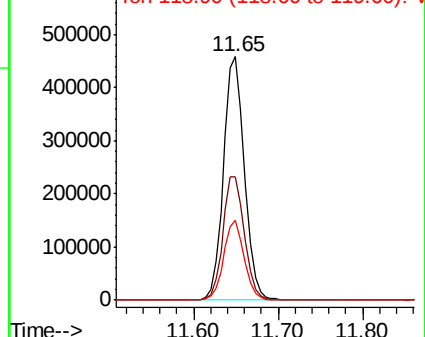


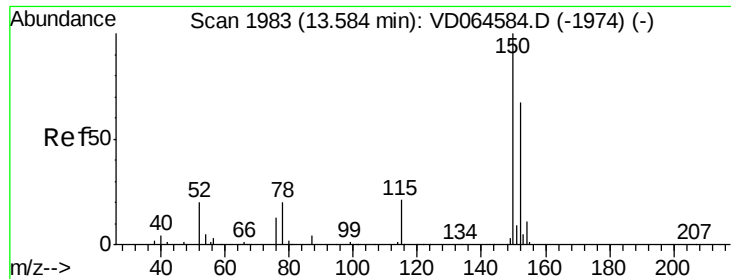
Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



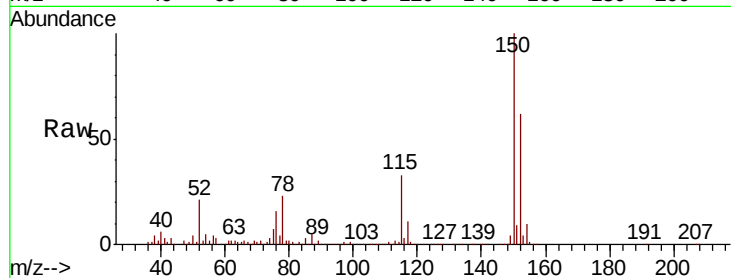


#72

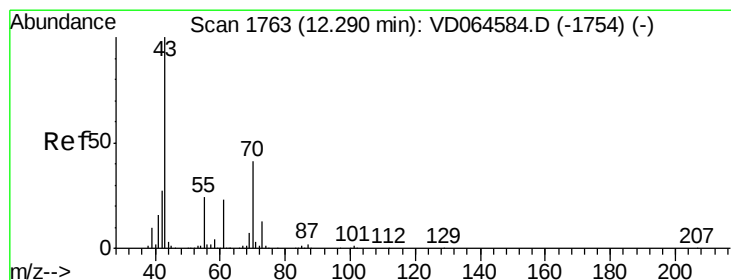
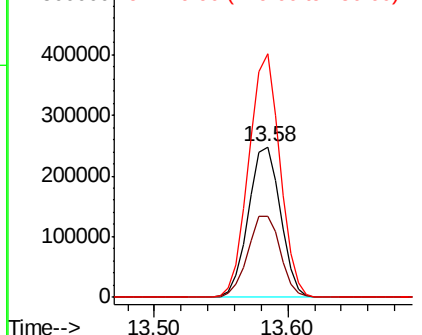
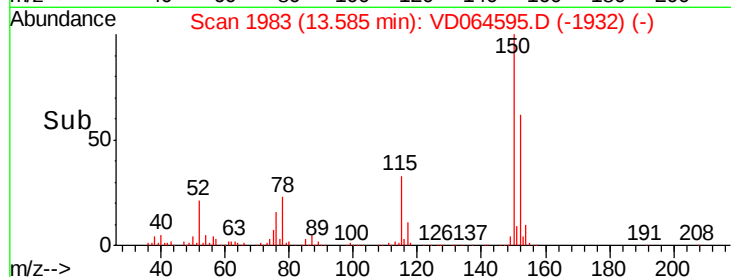
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064595.D
Acq: 26 Dec 2019 13:14

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:152 Resp: 411073
Ion Ratio Lower Upper
152 100
115 54.7 27.8 83.4
150 157.1 0.0 351.4



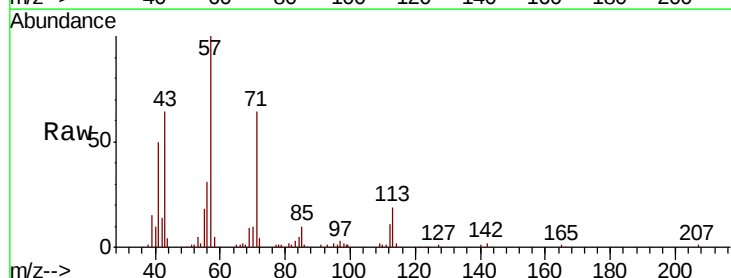
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



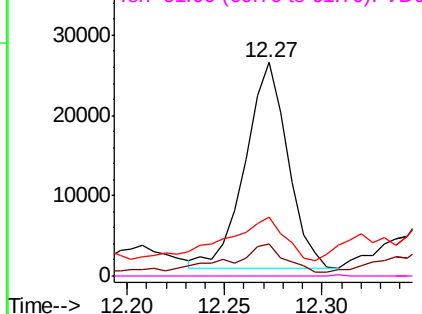
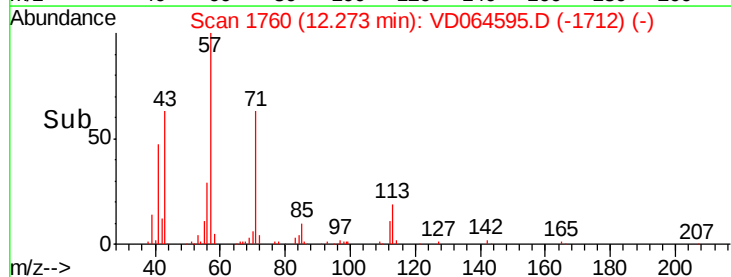
#74

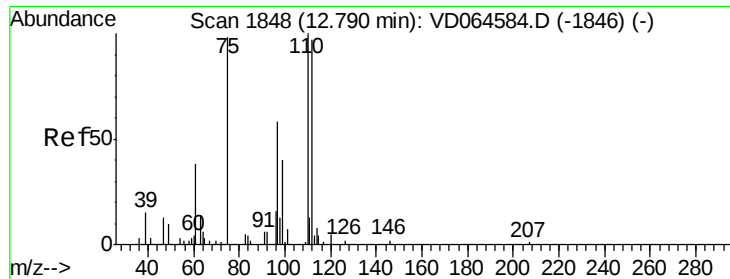
N-ethyl acetate
Concen: 6.128 ug/l
RT: 12.27 min Scan# 1760
Delta R.T. -0.02 min
Lab File: VD064595.D
Acq: 26 Dec 2019 13:14

Tgt Ion: 43 Resp: 38480
Ion Ratio Lower Upper
43 100
70 16.2 33.4 50.0#
55 29.9 19.4 29.0#
61 0.0 18.3 27.5#



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: 58.968 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064595.D

Acq: 26 Dec 2019 13:14

Instrument :

MSVOA_D

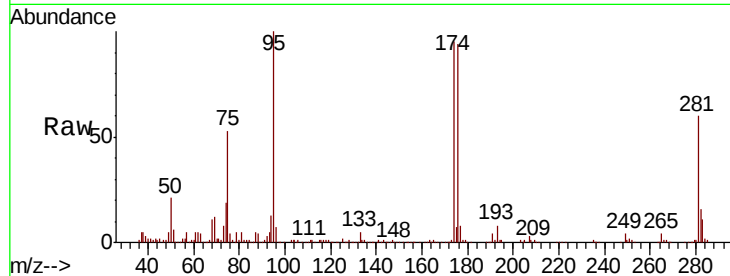
ClientSampleId :

Tot Ion: 75 Resp: 191414

Ion Ratio Lower Upper

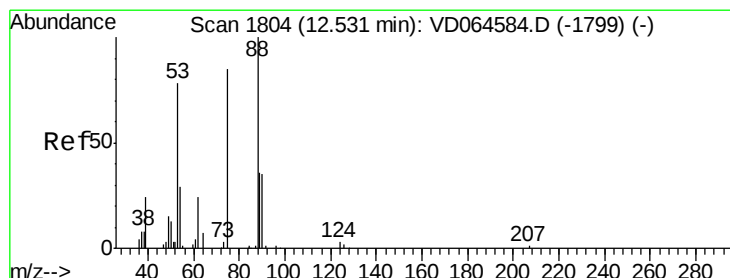
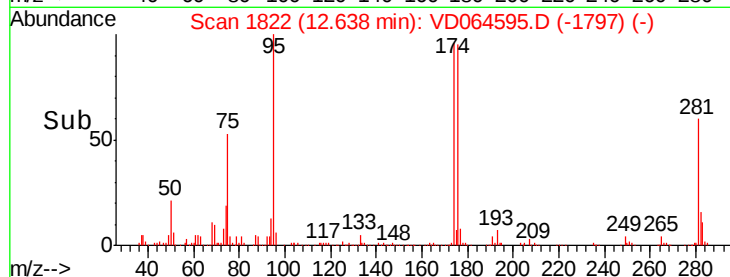
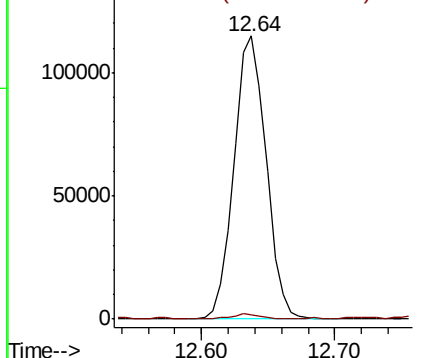
75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 123.329 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064595.D

Acq: 26 Dec 2019 13:14

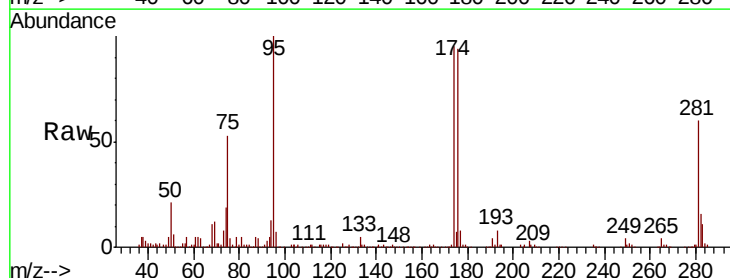
Tgt Ion: 75 Resp: 191414

Ion Ratio Lower Upper

75 100

53 0.5 78.8 118.2#

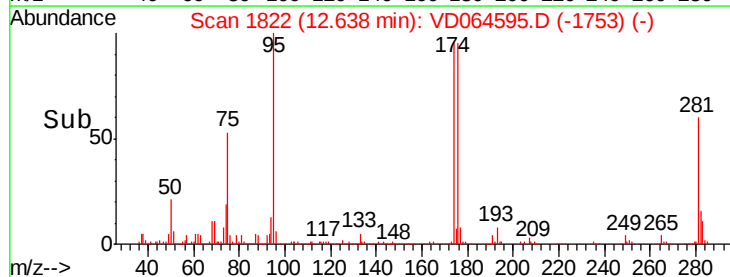
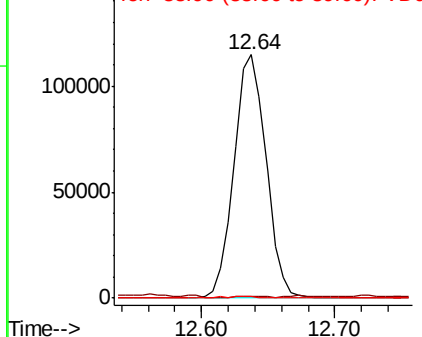
89 0.6 38.3 57.5#

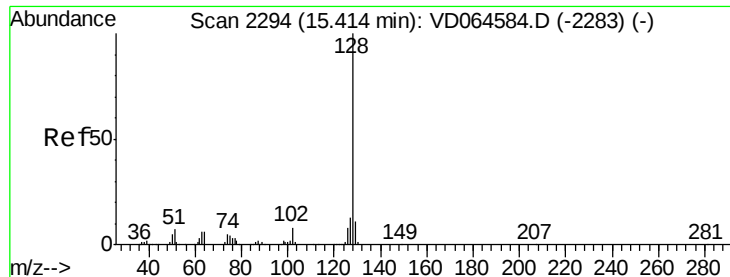


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#95

Naphthalene

Concen: 1.322 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

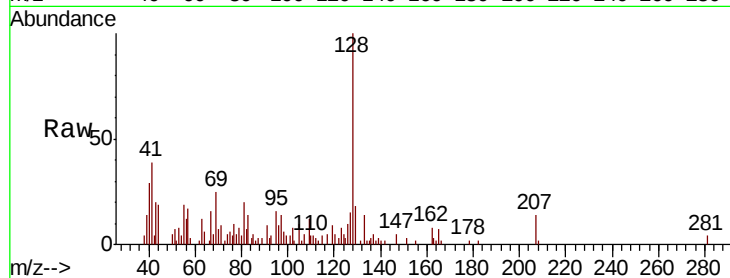
Lab File: VD064595.D

Acq: 26 Dec 2019 13:14

Instrument :

MSVOA_D

ClientSampleId :



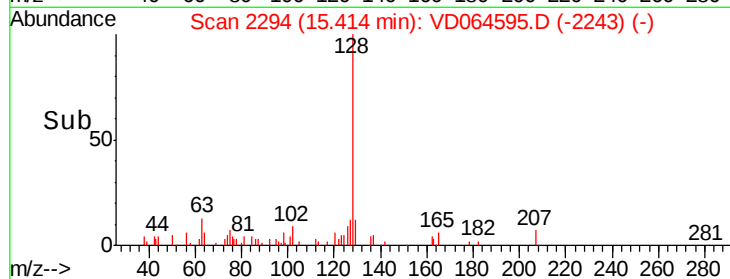
Tot Ion:128 Resp: 18073

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

129 19.5 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

