

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD082319\
 Data File : VD063764.D
 Acq On : 23 Aug 2019 14:17
 Operator : JC/SY
 Sample : K4477-11
 Misc : 6.07g/5ml/MSVOA_D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-2(1-3)

Quant Time: Aug 26 01:06:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	13848	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	8.21	114	20587	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	19365	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	12559	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	10856	73.34	ug/l	-0.03
Spiked Amount			Recovery	=	146.68%	
35) Dibromofluoromethane	6.91	113	8494	48.99	ug/l	-0.03
Spiked Amount			Recovery	=	97.98%	
50) Toluene-d8	10.39	98	19858	52.09	ug/l	-0.03
Spiked Amount			Recovery	=	104.18%	
62) 4-Bromofluorobenzene	13.55	95	11160	64.59	ug/l	0.00
Spiked Amount			Recovery	=	129.18%	

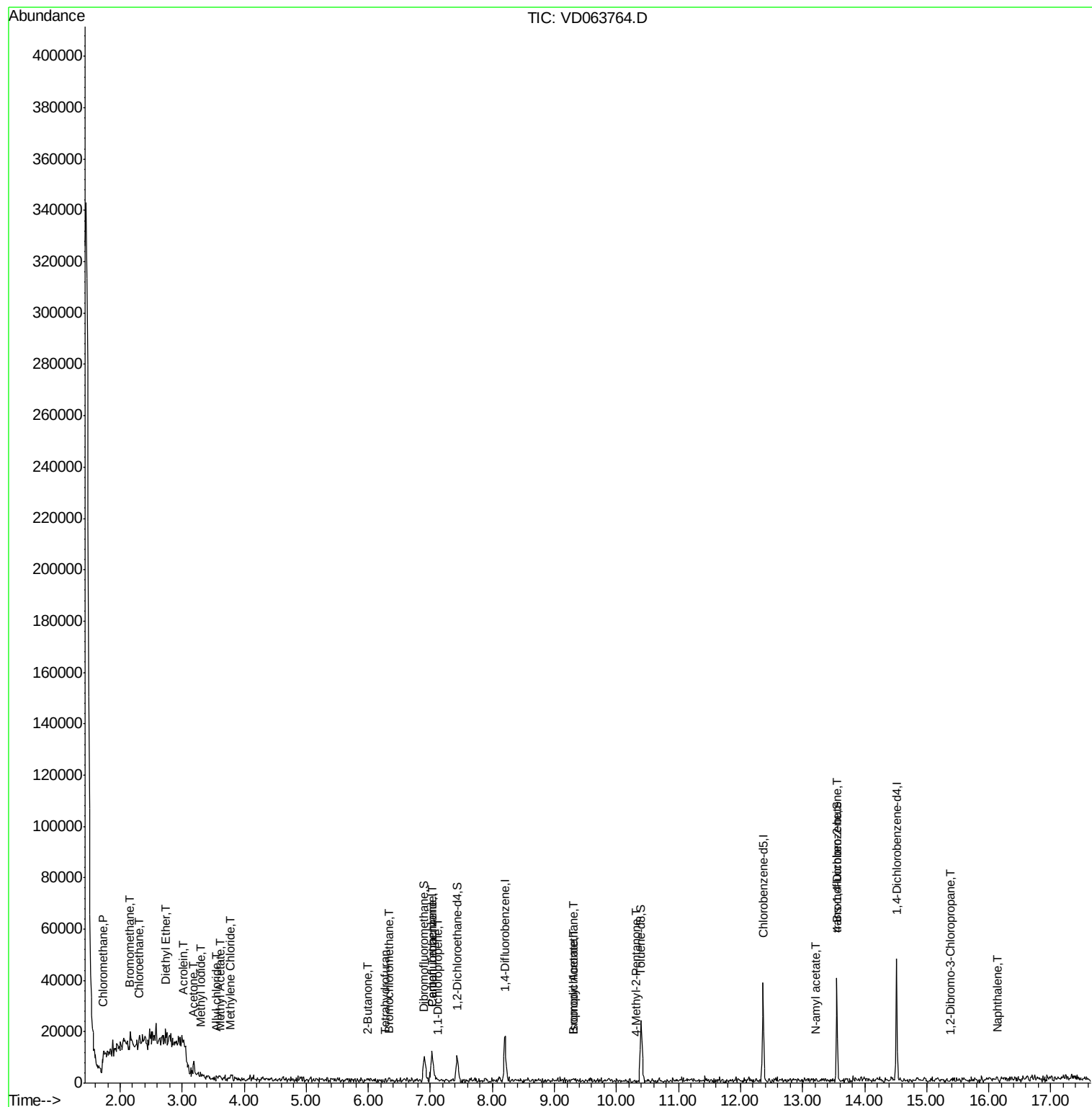
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.73	50	737	5.630	ug/l #	41
5) Bromomethane	2.15	94	2400	39.142	ug/l #	11
6) Chloroethane	2.29	64	251	4.224	ug/l #	42
8) Diethyl Ether	2.73	74	208	5.780	ug/l	94
10) Methyl Iodide	3.30	142	218	1.024	ug/l #	29
13) Acrolein	3.03	56	210	33.109	ug/l #	1
14) Allyl chloride	3.55	41	601	3.573	ug/l #	44
16) Acetone	3.18	43	8545	283.977	ug/l #	92
18) Methyl Acetate	3.61	43	258	4.527	ug/l #	57
20) Methylene Chloride	3.79	84	864	6.640	ug/l #	69
25) 2-Butanone	5.98	43	198	6.663	ug/l #	58
28) Bromochloromethane	6.34	49	210	2.407	ug/l #	7
29) Tetrahydrofuran	6.27	42	385	27.802	ug/l #	35
36) 1,1-Dichloropropene	7.13	75	235	1.291	ug/l #	42
38) Carbon Tetrachloride	7.02	117	709	2.585	ug/l #	13
43) Isopropyl Acetate	9.31	43	191	1.870	ug/l #	48
47) Bromodichloromethane	9.30	83	231	1.131	ug/l #	26
51) 4-Methyl-2-Pentanone	10.31	43	209	2.990	ug/l #	40
74) N-amyl acetate	13.21	43	229	1.142	ug/l #	53
81) trans-1,4-Dichloro-2-buten	13.55	75	4628	119.464	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	15.38	75	184	7.370	ug/l #	1
95) Naphthalene	16.12	128	889	2.379	ug/l #	71

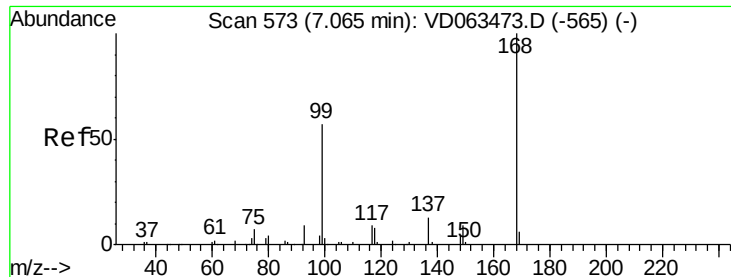
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Aug 10 06:42:47 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.04 min

Lab File: VD063764.D

Acq: 23 Aug 2019 14:17

Instrument :

MSVOA_D

ClientSampleId :

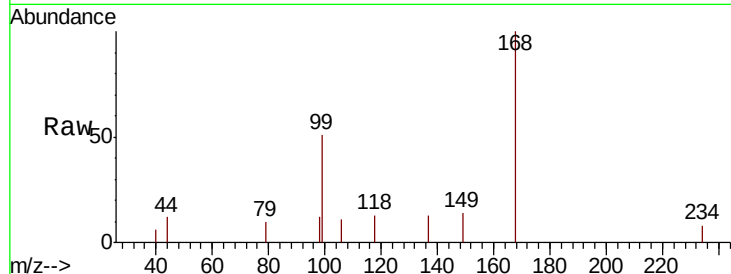
TP-2(1-3)

Tgt Ion:168 Resp: 13848

Ion Ratio Lower Upper

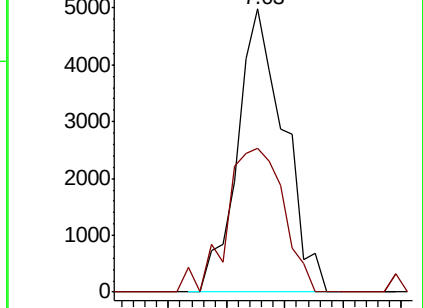
168 100

99 50.8 46.7 70.1

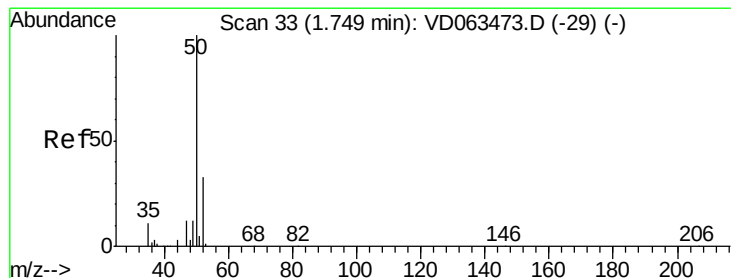
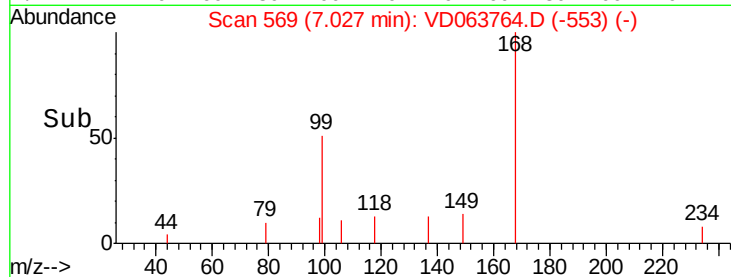


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



Time-->



#3

Chloromethane

Concen: 5.630 ug/l

RT: 1.73 min Scan# 31

Delta R.T. -0.02 min

Lab File: VD063764.D

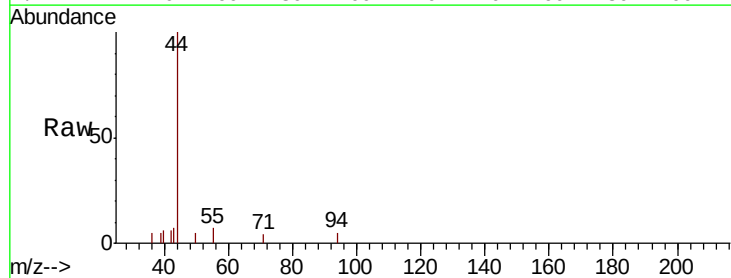
Acq: 23 Aug 2019 14:17

Tgt Ion: 50 Resp: 737

Ion Ratio Lower Upper

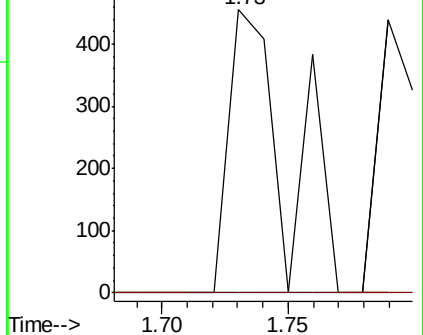
50 100

52 0.0 26.6 40.0#

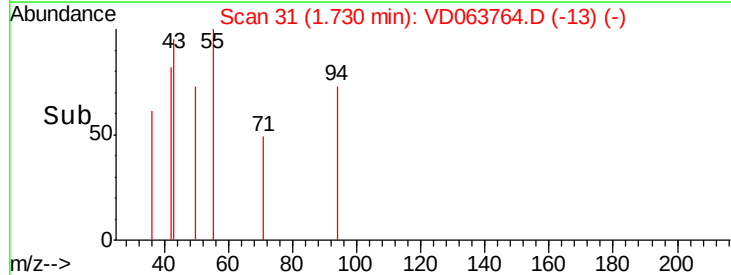


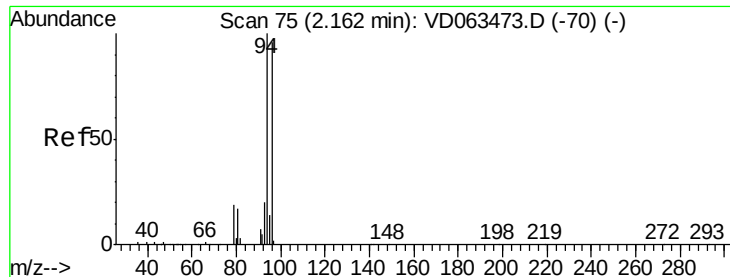
Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



Time-->





#5

Bromomethane

Concen: 39.142 ug/l

RT: 2.15 min Scan# 74

Delta R.T. -0.01 min

Lab File: VD063764.D

Acq: 23 Aug 2019 14:17

Instrument :

MSVOA_D

ClientSampleId :

TP-2(1-3)

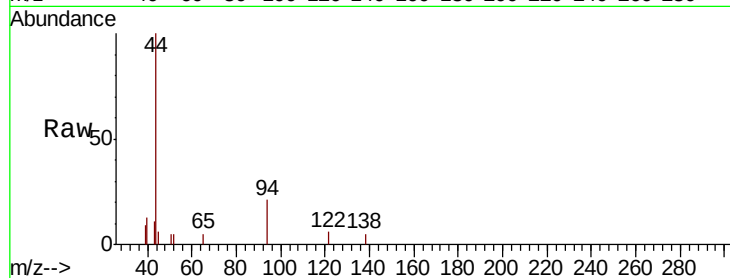
Tgt Ion: 94 Resp: 2400

Ion Ratio Lower Upper

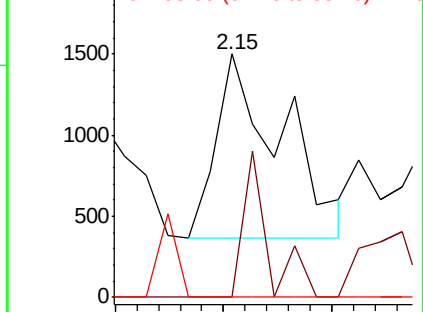
94 100

96 0.0 76.5 114.7#

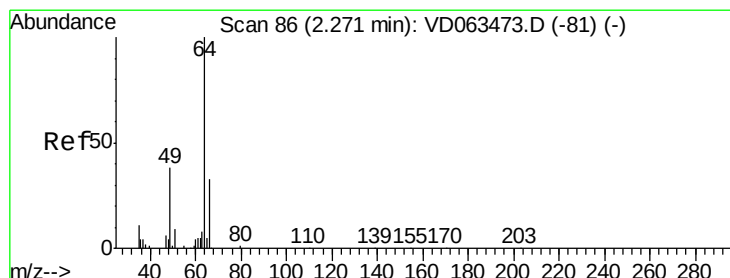
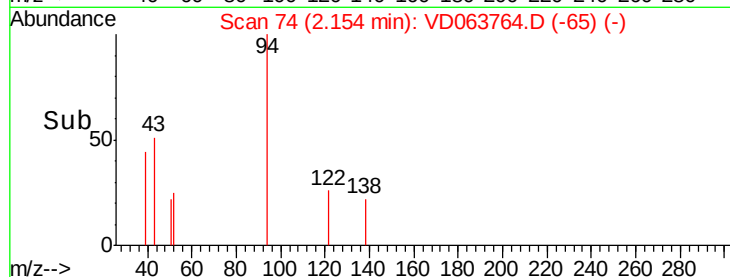
93 0.0 15.8 23.8#



Abundance Ion 94.00 (93.70 to 94.70): VDC
Ion 96.00 (95.70 to 96.70): VDC
Ion 93.00 (92.70 to 93.70): VDC



Time-->



#6

Chloroethane

Concen: 4.224 ug/l

RT: 2.29 min Scan# 88

Delta R.T. 0.02 min

Lab File: VD063764.D

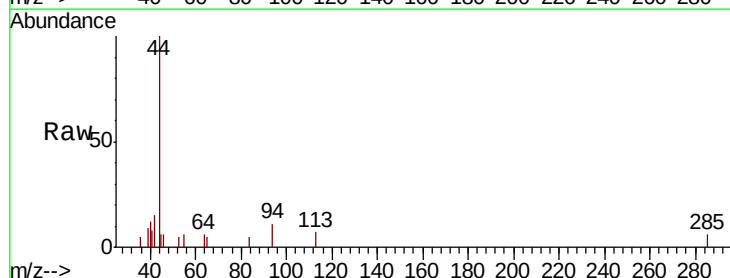
Acq: 23 Aug 2019 14:17

Tgt Ion: 64 Resp: 251

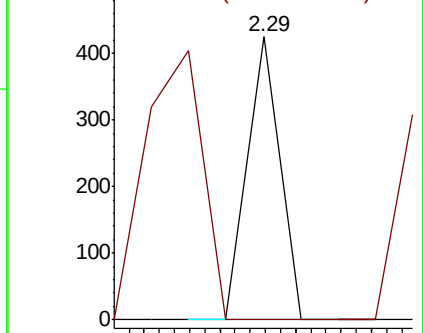
Ion Ratio Lower Upper

64 100

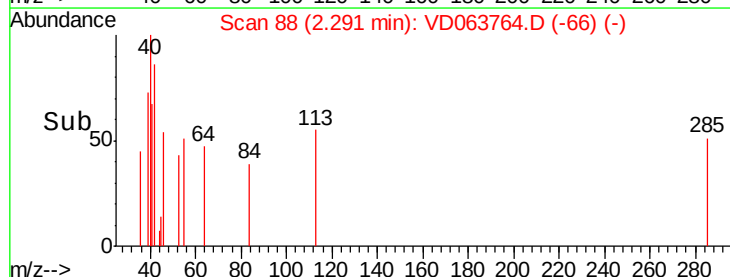
66 0.0 26.3 39.5#

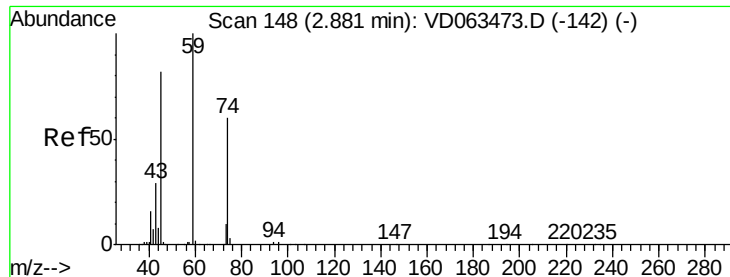


Abundance Ion 63.95 (63.65 to 64.65): VDC
Ion 65.90 (65.60 to 66.60): VDC



Time-->





#8

Diethyl Ether

Concen: 5.780 ug/l

RT: 2.73 min Scan# 133

Delta R.T. -0.15 min

Lab File: VD063764.D

Acq: 23 Aug 2019 14:17

Instrument :

MSVOA_D

ClientSampleId :

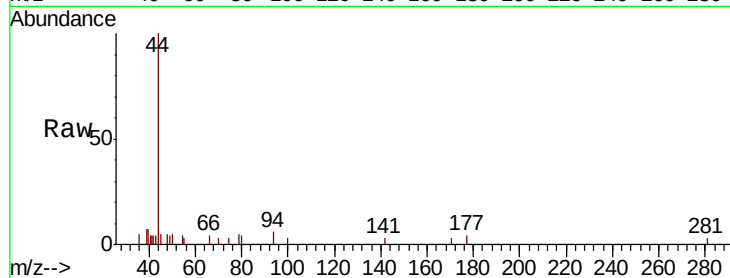
TP-2(1-3)

Tgt Ion: 74 Resp: 208

Ion Ratio Lower Upper

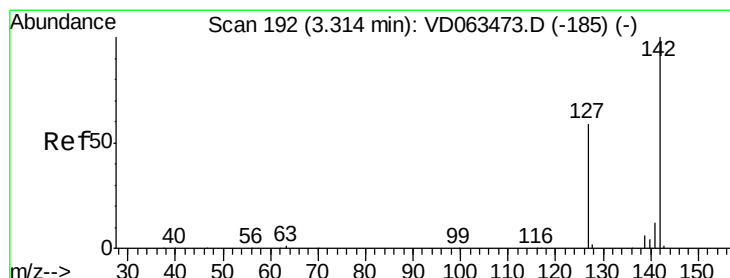
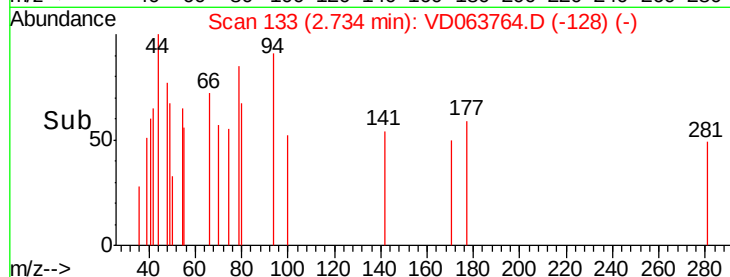
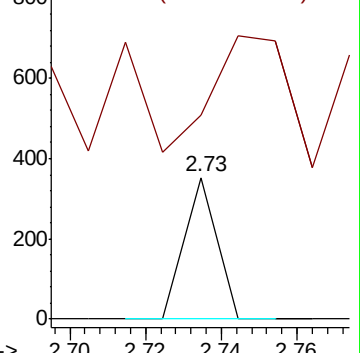
74 100

45 144.6 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#10

Methyl Iodide

Concen: 1.024 ug/l

RT: 3.30 min Scan# 190

Delta R.T. -0.02 min

Lab File: VD063764.D

Acq: 23 Aug 2019 14:17

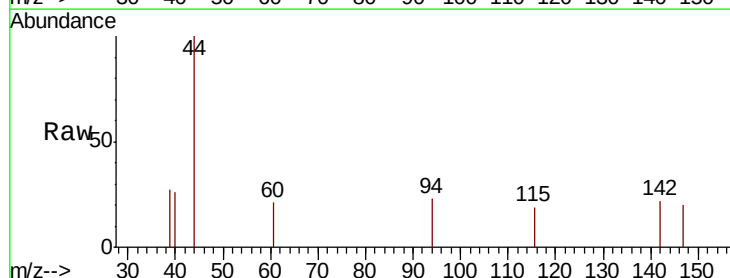
Tgt Ion: 142 Resp: 218

Ion Ratio Lower Upper

142 100

127 0.0 47.2 70.8#

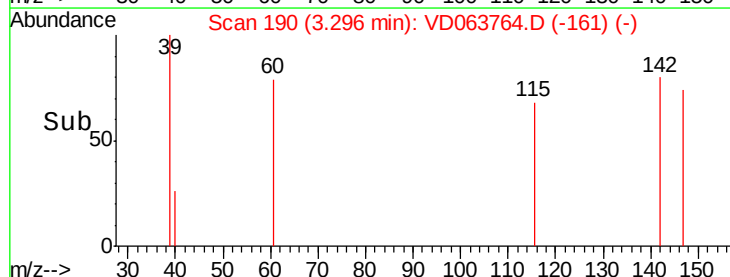
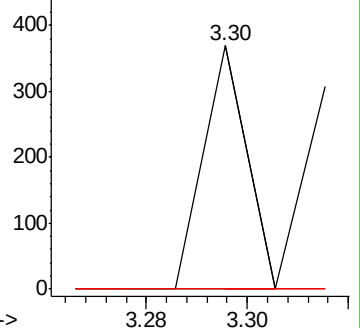
141 0.0 9.8 14.8#

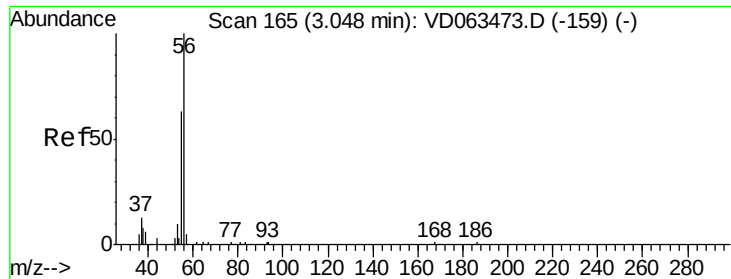


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#13

Acrolein

Concen: 33.109 ug/l

RT: 3.03 min Scan# 163

Delta R.T. -0.02 min

Lab File: VD063764.D

Acq: 23 Aug 2019 14:17

Instrument :

MSVOA_D

ClientSampleId :

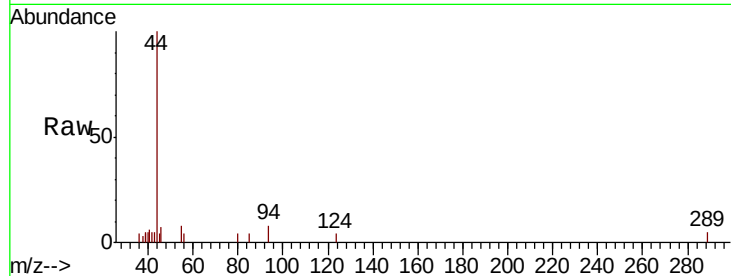
TP-2(1-3)

Tgt Ion: 56 Resp: 210

Ion Ratio Lower Upper

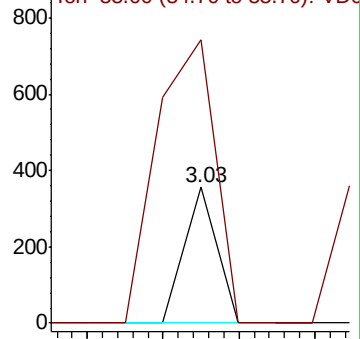
56 100

55 208.4 51.3 76.9#

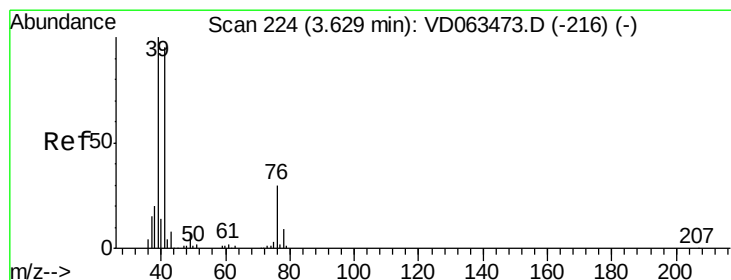
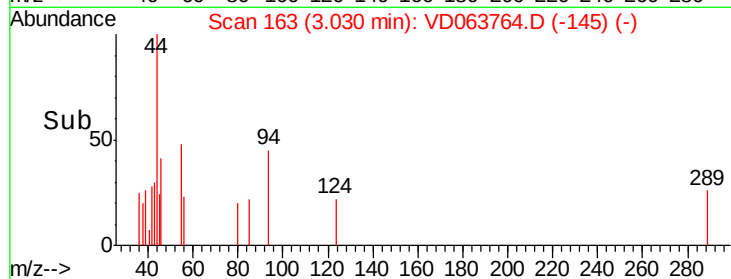


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



Time-->



#14

Allyl chloride

Concen: 3.573 ug/l

RT: 3.55 min Scan# 216

Delta R.T. -0.08 min

Lab File: VD063764.D

Acq: 23 Aug 2019 14:17

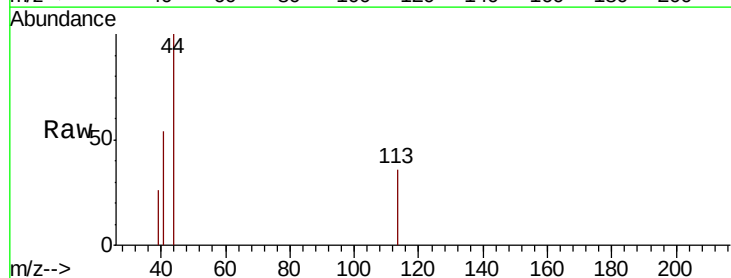
Tgt Ion: 41 Resp: 601

Ion Ratio Lower Upper

41 100

39 47.6 84.2 126.4#

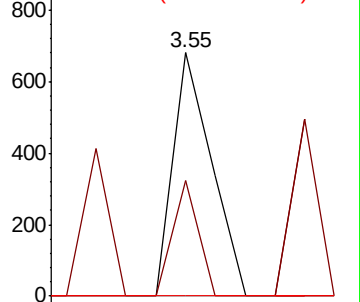
76 0.0 26.0 39.0#



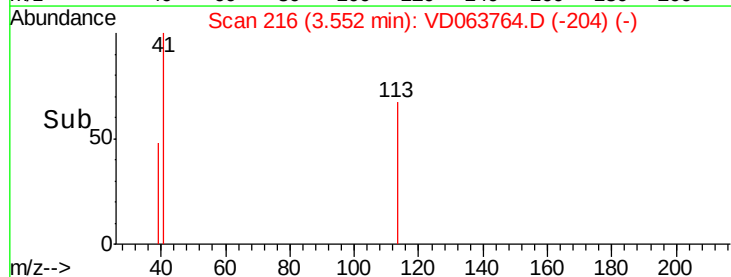
Abundance Ion 41.05 (40.75 to 41.75): VDC

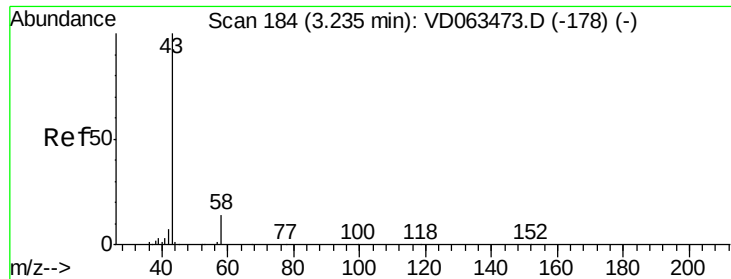
Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC



Time-->

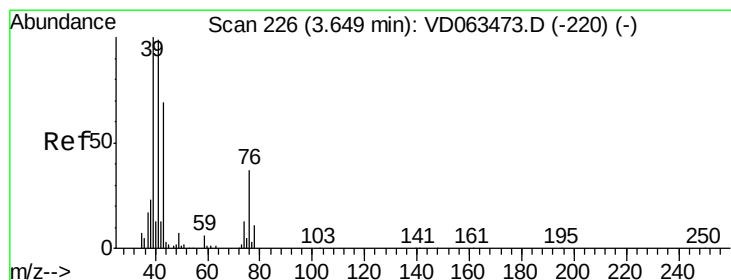
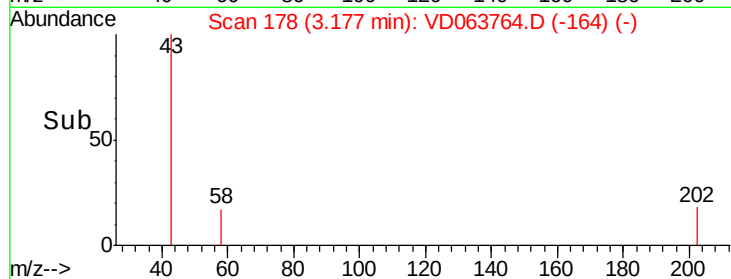
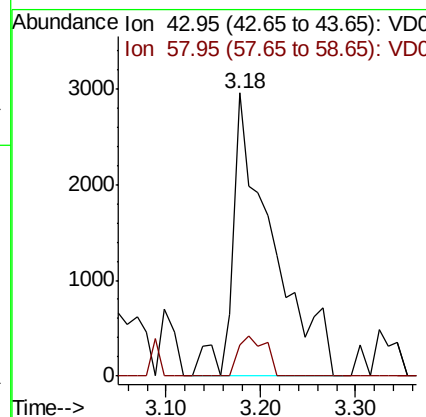
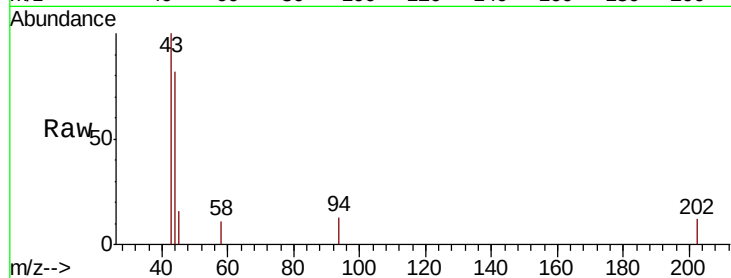




#16
Acetone
Concen: 283.977 ug/l
RT: 3.18 min Scan# 178
Delta R.T. -0.06 min
Lab File: VD063764.D
Acq: 23 Aug 2019 14:17

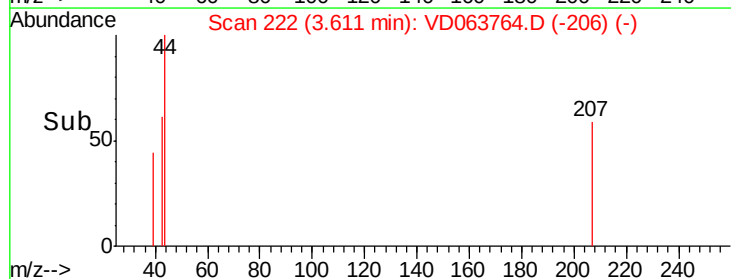
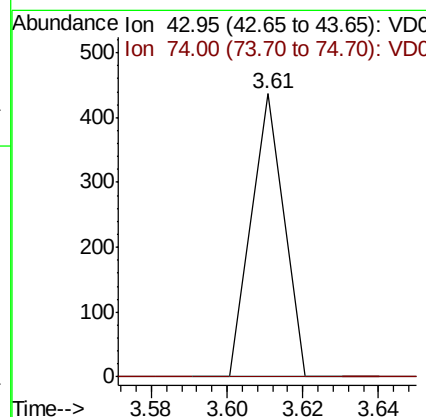
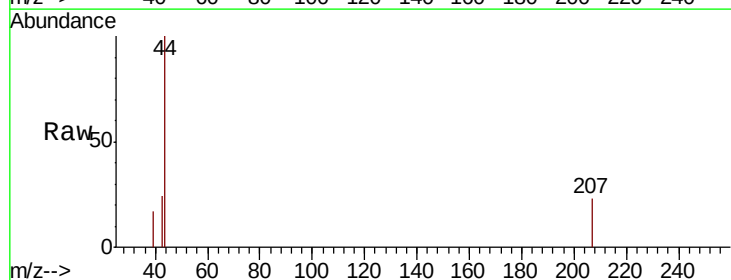
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TP-2(1-3)

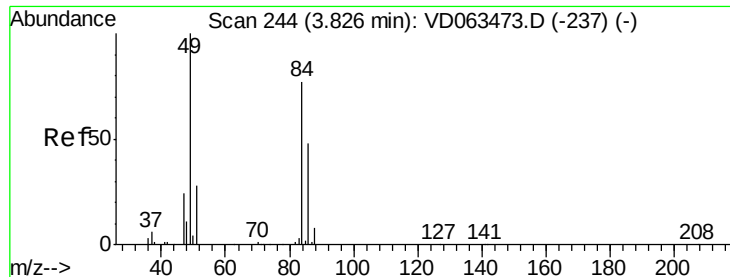
Tgt Ion: 43 Resp: 8545
Ion Ratio Lower Upper
43 100
58 11.0 11.4 17.2#



#18
Methyl Acetate
Concen: 4.527 ug/l
RT: 3.61 min Scan# 222
Delta R.T. -0.04 min
Lab File: VD063764.D
Acq: 23 Aug 2019 14:17

Tgt Ion: 43 Resp: 258
Ion Ratio Lower Upper
43 100
74 0.0 15.4 23.2#

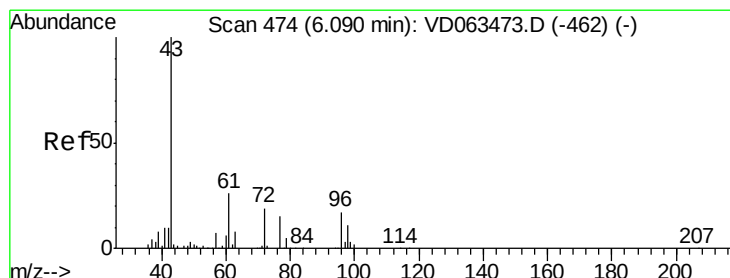
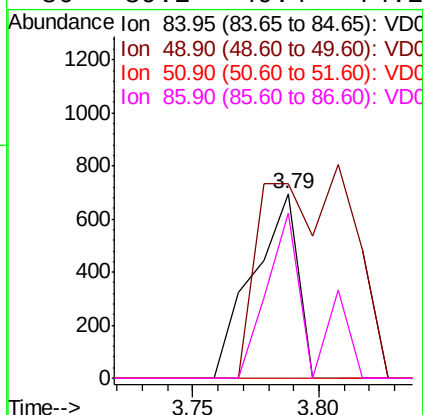
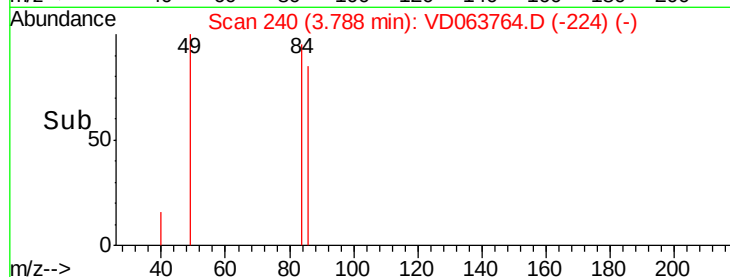
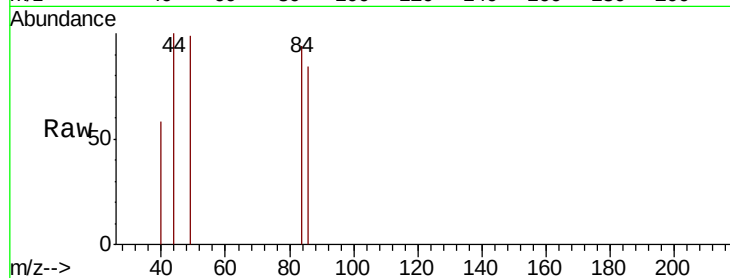




#20
Methylene Chloride
Concen: 6.640 ug/l
RT: 3.79 min Scan# 240
Delta R.T. -0.04 min
Lab File: VD063764.D
Acq: 23 Aug 2019 14:17

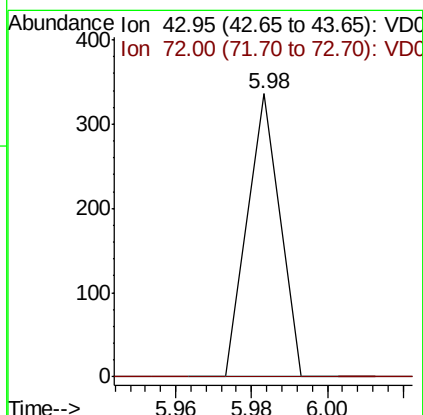
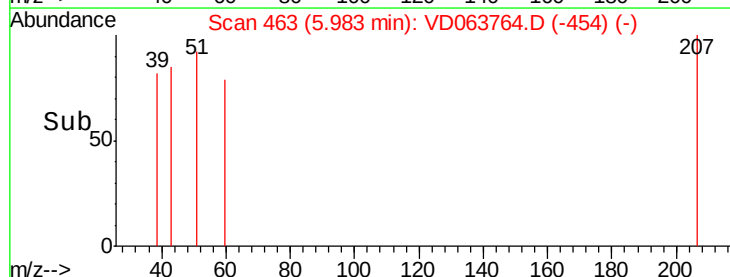
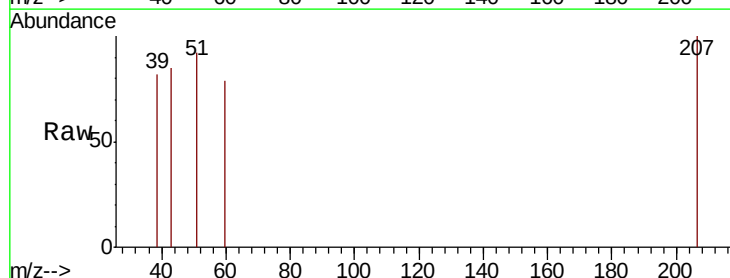
Instrument :
MSVOA_D
ClientSampleId :
TP-2(1-3)

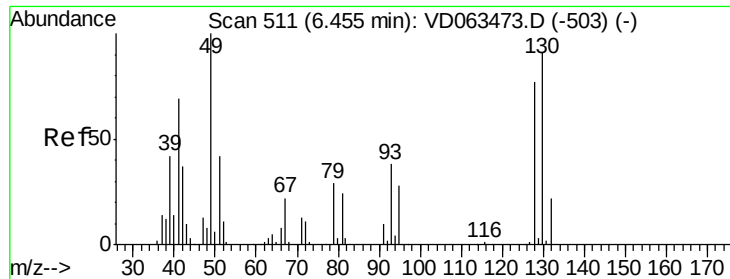
Tgt Ion: 84 Resp: 864
Ion Ratio Lower Upper
84 100
49 105.3 103.4 155.2
51 0.0 28.5 42.7#
86 89.2 49.4 74.2#



#25
2-Butanone
Concen: 6.663 ug/l
RT: 5.98 min Scan# 463
Delta R.T. -0.11 min
Lab File: VD063764.D
Acq: 23 Aug 2019 14:17

Tgt Ion: 43 Resp: 198
Ion Ratio Lower Upper
43 100
72 0.0 15.1 22.7#





#28

Bromochloromethane

Concen: 2.407 ug/l

RT: 6.34 min Scan# 499

Delta R.T. -0.12 min

Lab File: VD063764.D

Acq: 23 Aug 2019 14:17

Instrument :

MSVOA_D

ClientSampleId :

TP-2(1-3)

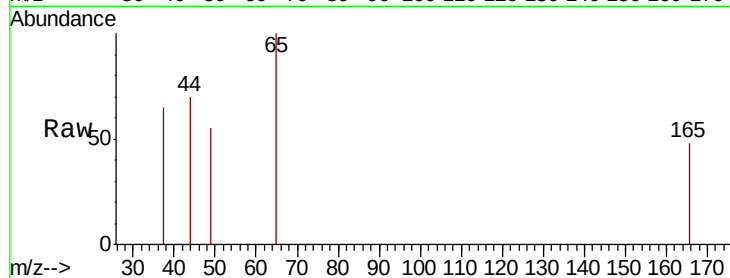
Tgt Ion: 49 Resp: 210

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

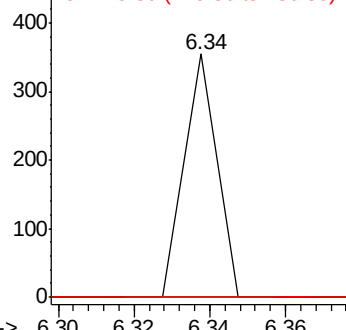
130 0.0 72.4 108.6#



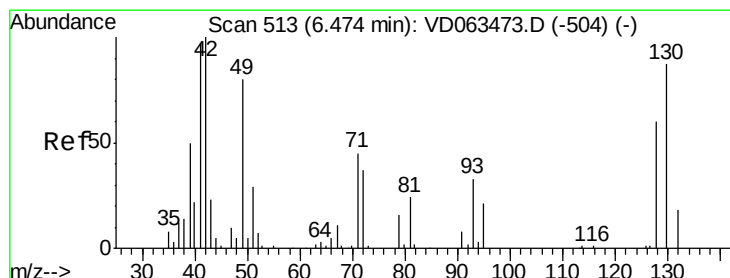
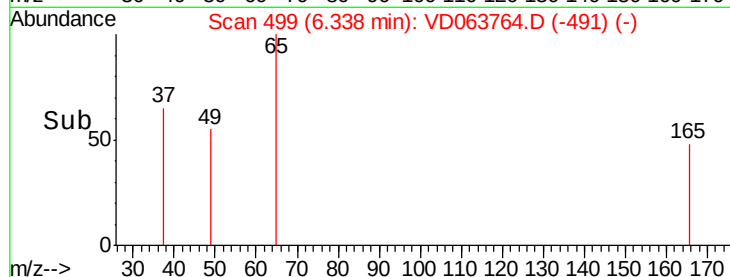
Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): VDC

Ion 129.80 (129.50 to 130.50): VDC



Time-->



#29

Tetrahydrofuran

Concen: 27.802 ug/l

RT: 6.27 min Scan# 492

Delta R.T. -0.21 min

Lab File: VD063764.D

Acq: 23 Aug 2019 14:17

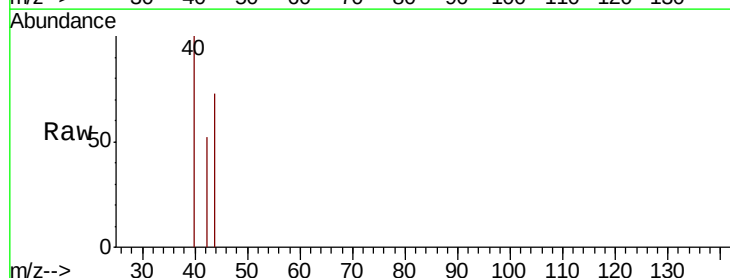
Tgt Ion: 42 Resp: 385

Ion Ratio Lower Upper

42 100

72 0.0 31.5 47.3#

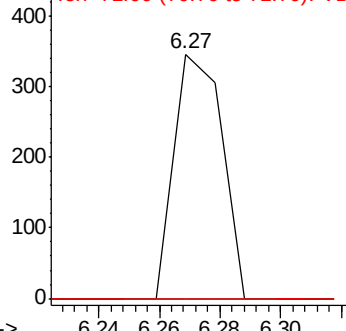
71 0.0 33.8 50.8#



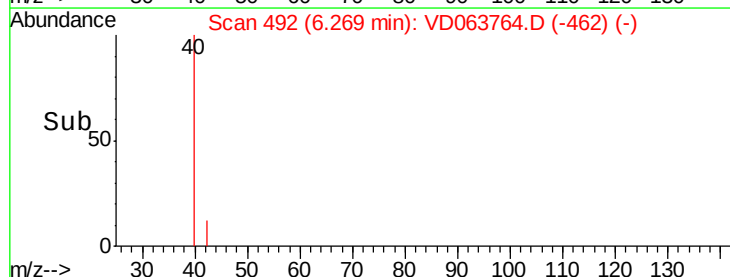
Abundance Ion 42.00 (41.70 to 42.70): VDC

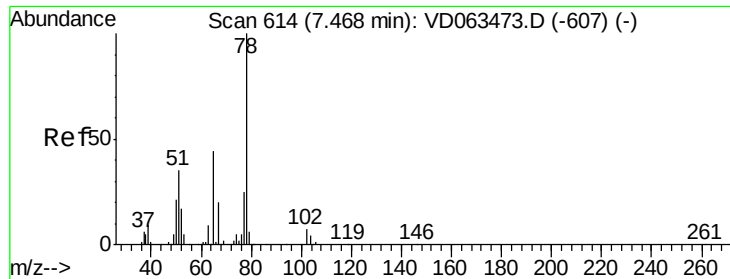
Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



Time-->

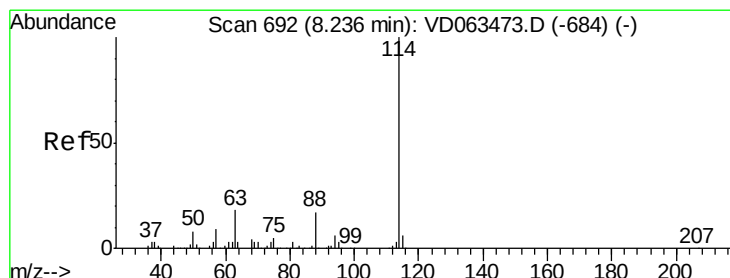
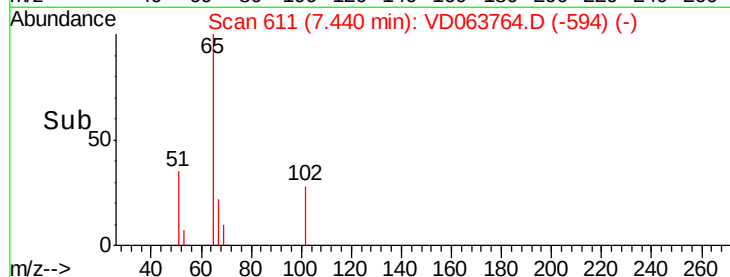
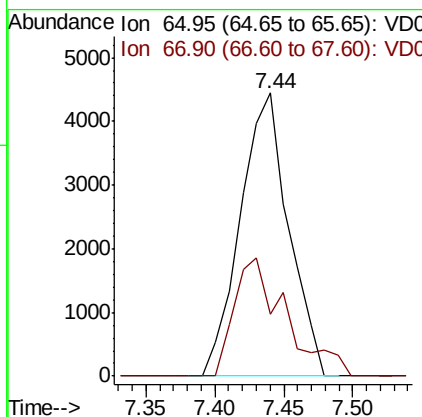
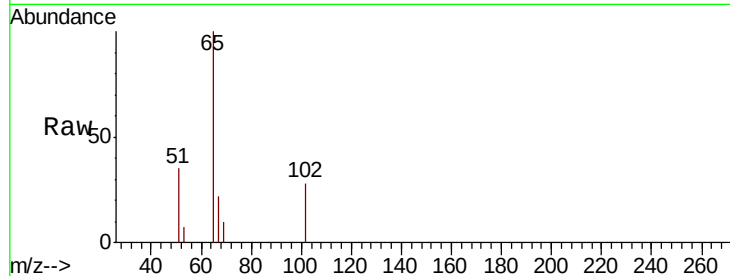




#33
 1,2-Dichloroethane-d4
 Concen: 73.339 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. -0.03 min
 Lab File: VD063764.D
 Acq: 23 Aug 2019 14:17

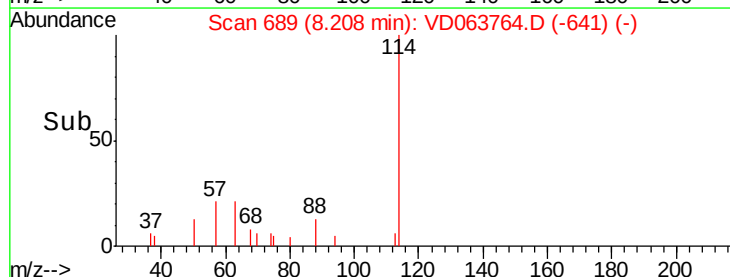
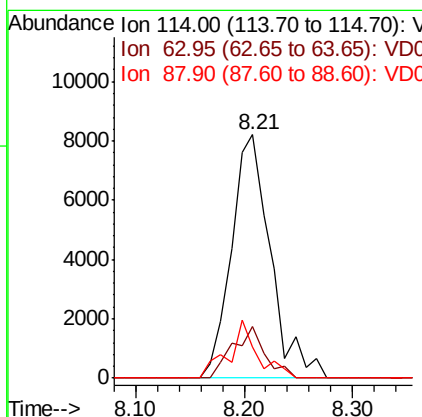
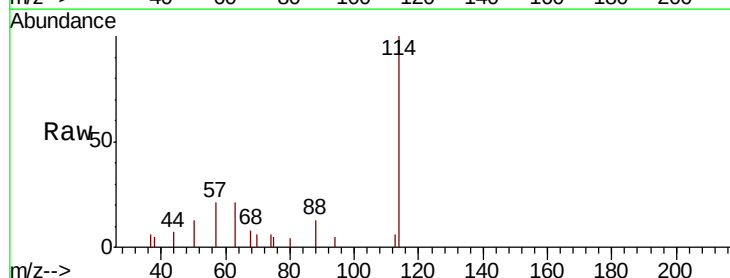
Instrument :
 MSVOA_D
 ClientSampleId :
 TP-2(1-3)

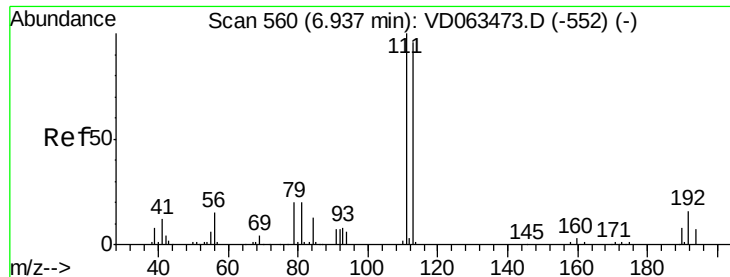
Tgt Ion: 65 Resp: 10856
 Ion Ratio Lower Upper
 65 100
 67 21.8 0.0 89.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.03 min
 Lab File: VD063764.D
 Acq: 23 Aug 2019 14:17

Tgt Ion: 114 Resp: 20587
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 36.2
 88 12.6 0.0 35.0





#35

Dibromofluoromethane

Concen: 48.989 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.03 min

Lab File: VD063764.D

Acq: 23 Aug 2019 14:17

Instrument :

MSVOA_D

ClientSampled :

TP-2(1-3)

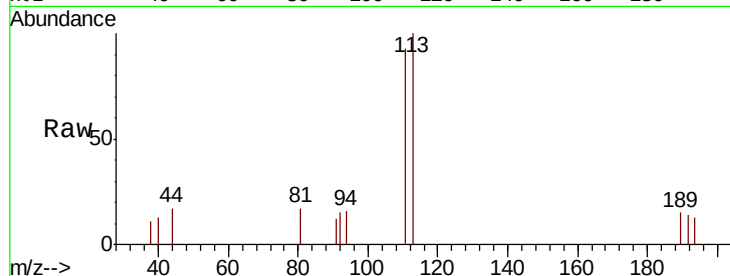
Tgt Ion:113 Resp: 8494

Ion Ratio Lower Upper

113 100

111 93.4 83.1 124.7

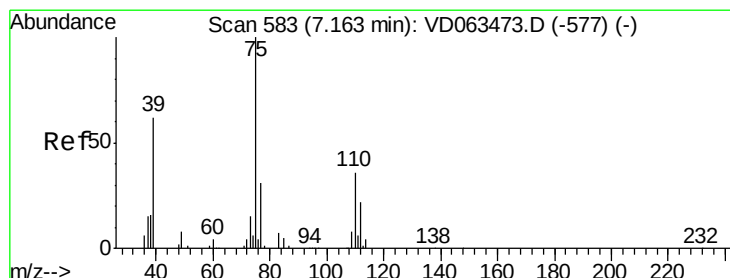
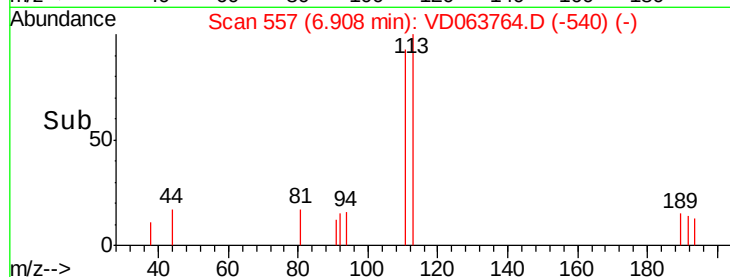
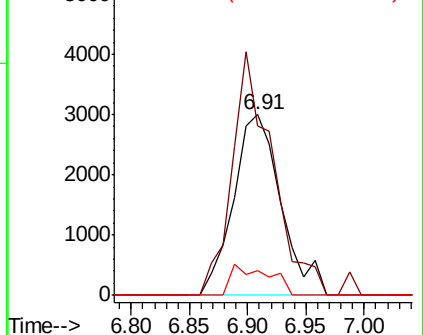
192 13.5 13.1 19.7



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 1.291 ug/l

RT: 7.13 min Scan# 580

Delta R.T. -0.03 min

Lab File: VD063764.D

Acq: 23 Aug 2019 14:17

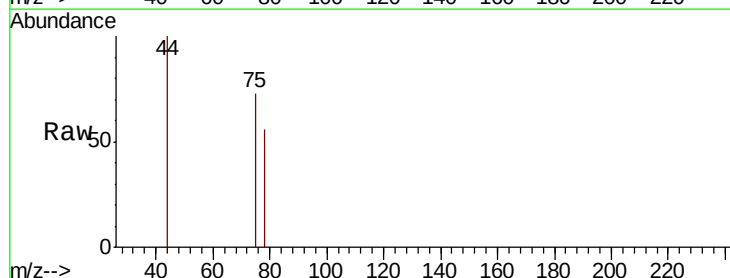
Tgt Ion: 75 Resp: 235

Ion Ratio Lower Upper

75 100

110 0.0 17.6 52.8#

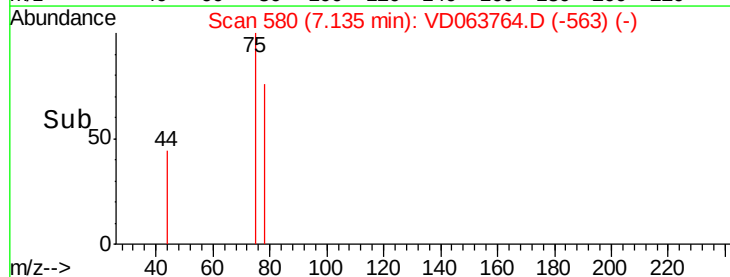
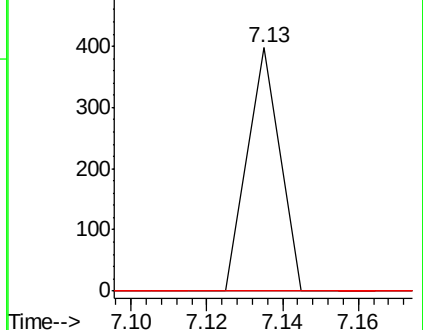
77 0.0 24.3 36.5#

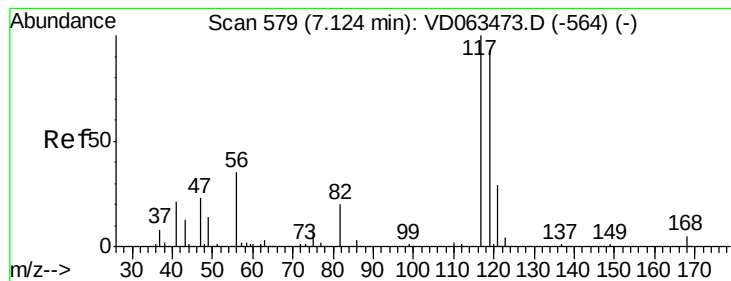


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#38

Carbon Tetrachloride

Concen: 2.585 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.11 min

Lab File: VD063764.D

Acq: 23 Aug 2019 14:17

Instrument :

MSVOA_D

ClientSampleId :

TP-2(1-3)

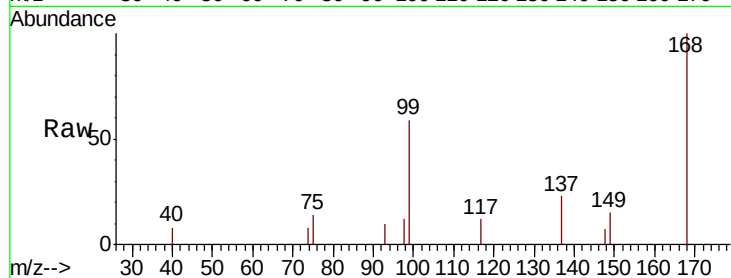
Tgt Ion:117 Resp: 709

Ion Ratio Lower Upper

117 100

119 0.0 74.2 111.2#

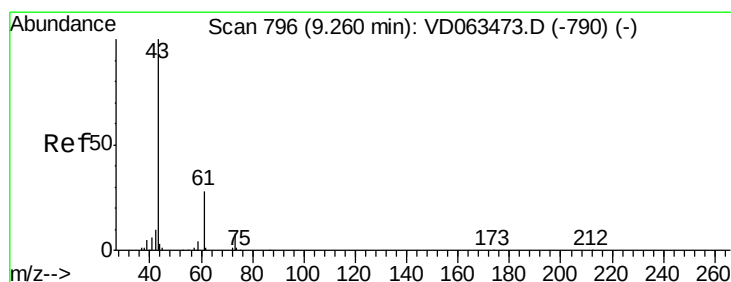
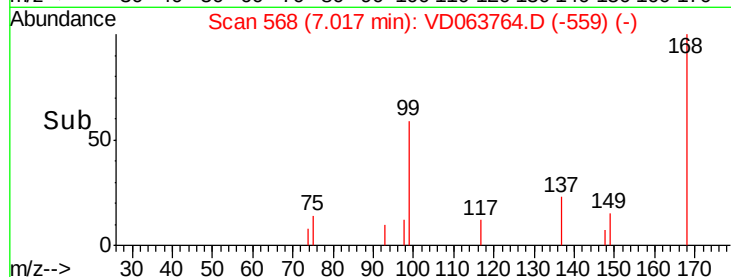
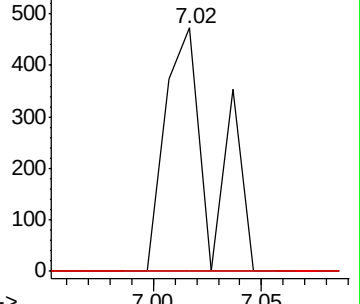
121 0.0 23.1 34.7#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#43

Isopropyl Acetate

Concen: 1.870 ug/l

RT: 9.31 min Scan# 801

Delta R.T. 0.05 min

Lab File: VD063764.D

Acq: 23 Aug 2019 14:17

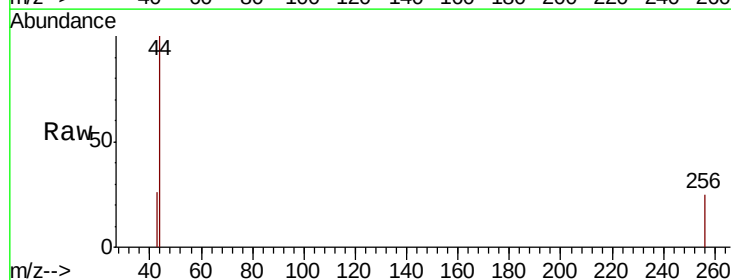
Tgt Ion: 43 Resp: 191

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.2#

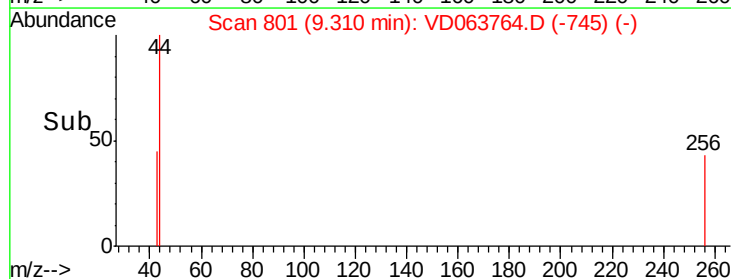
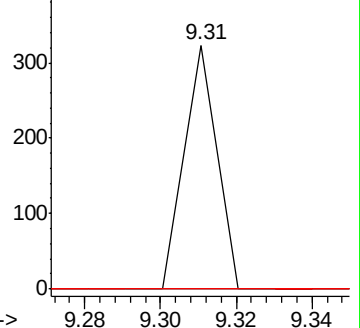
87 0.0 0.2 0.4#

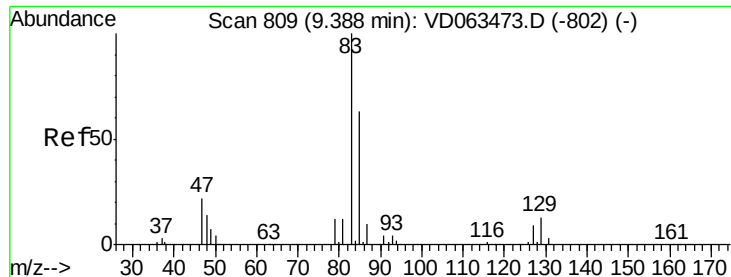


Abundance Ion 42.95 (42.65 to 43.65): V

Ion 60.95 (60.65 to 61.65): V

Ion 87.00 (86.70 to 87.70): V





#47

Bromodichloromethane

Concen: 1.131 ug/l

RT: 9.30 min Scan# 800

Delta R.T. -0.09 min

Lab File: VD063764.D

Acq: 23 Aug 2019 14:17

Instrument :

MSVOA_D

ClientSampleId :

TP-2(1-3)

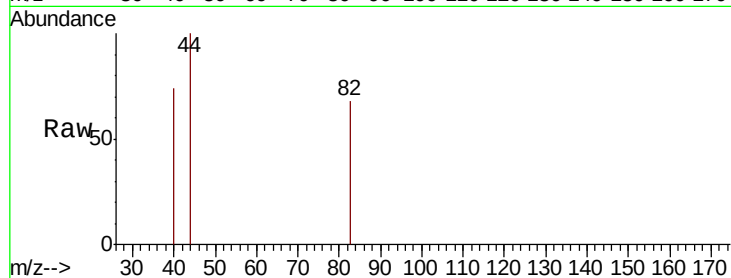
Tgt Ion: 83 Resp: 231

Ion Ratio Lower Upper

83 100

85 0.0 50.1 75.1#

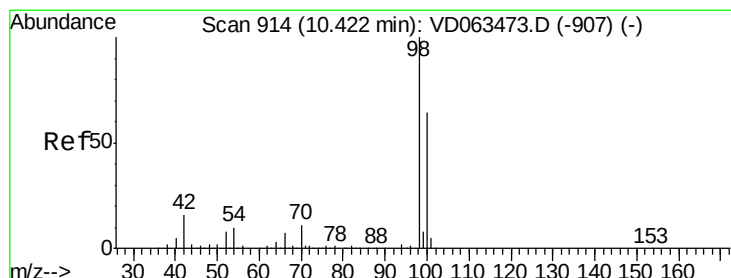
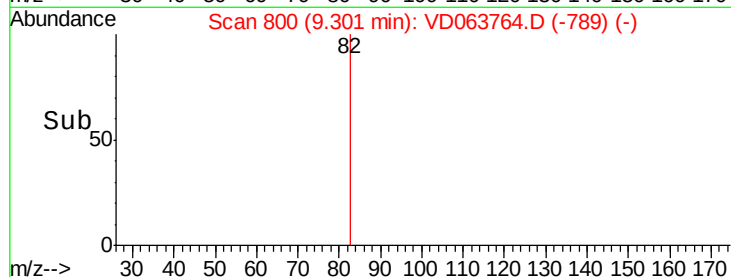
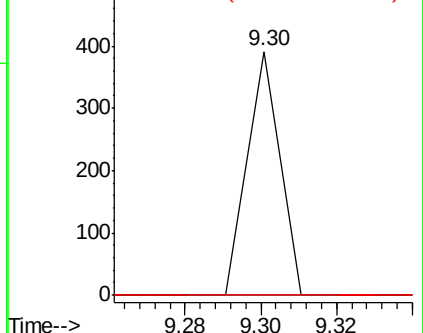
127 0.0 7.6 11.4#



Abundance Ion 82.85 (82.55 to 83.55): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 126.80 (126.50 to 127.50): VDC



#50

Toluene-d8

Concen: 52.094 ug/l

RT: 10.39 min Scan# 911

Delta R.T. -0.03 min

Lab File: VD063764.D

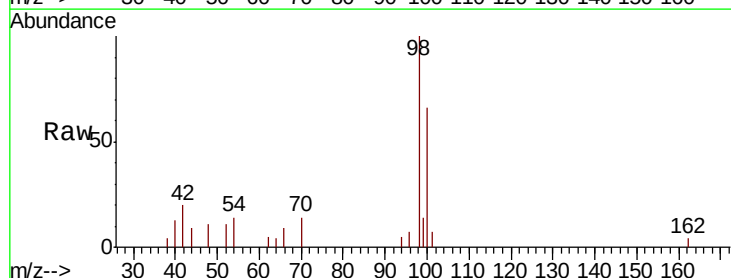
Acq: 23 Aug 2019 14:17

Tgt Ion: 98 Resp: 19858

Ion Ratio Lower Upper

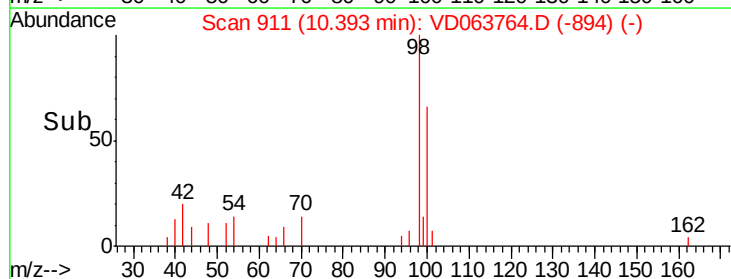
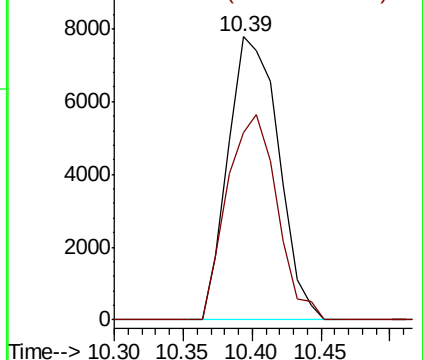
98 100

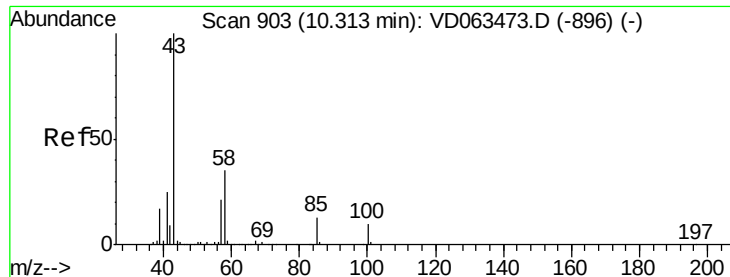
100 66.1 51.7 77.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

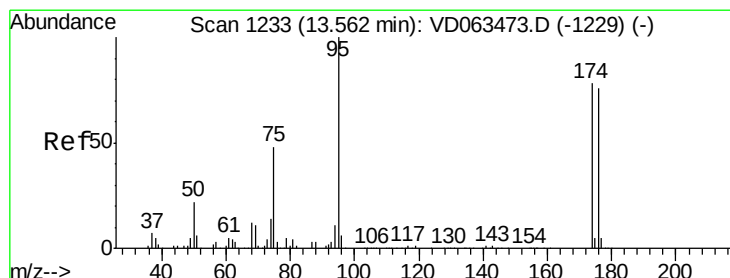
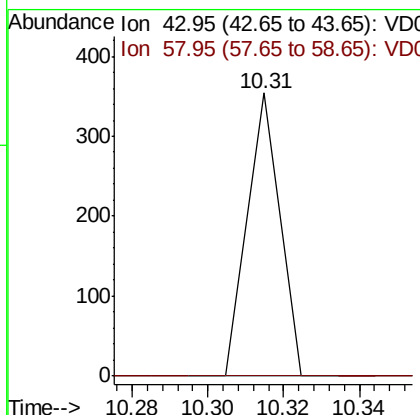
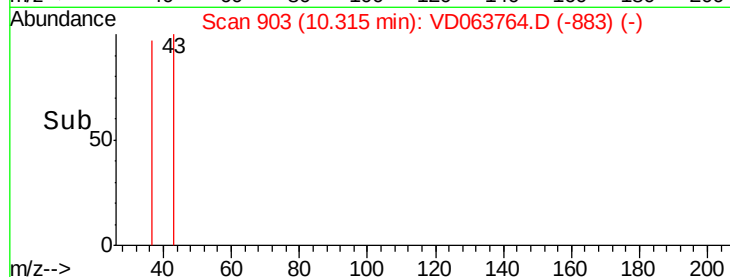
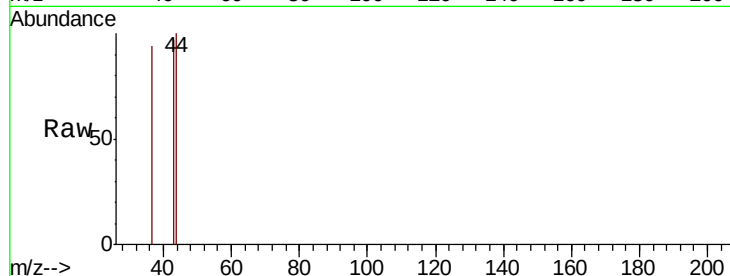




#51
 4-Methyl-2-Pentanone
 Concen: 2.990 ug/l
 RT: 10.31 min Scan# 903
 Delta R.T. 0.00 min
 Lab File: VD063764.D
 Acq: 23 Aug 2019 14:17

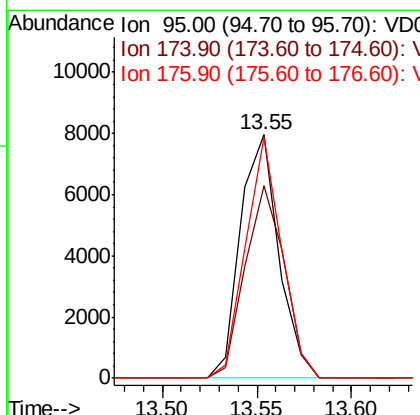
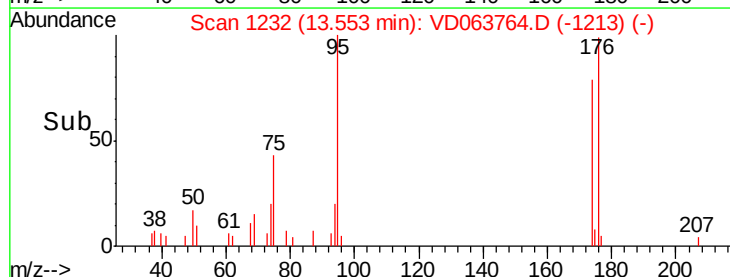
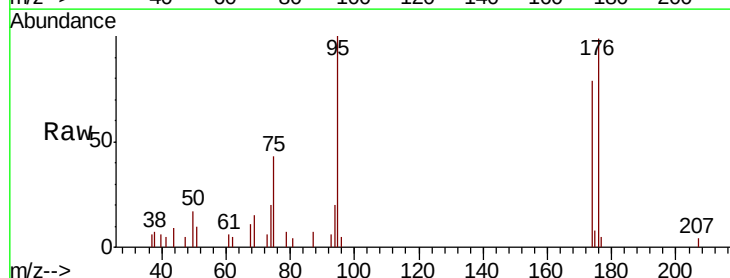
Instrument :
 MSVOA_D
 ClientSampleId :
 TP-2(1-3)

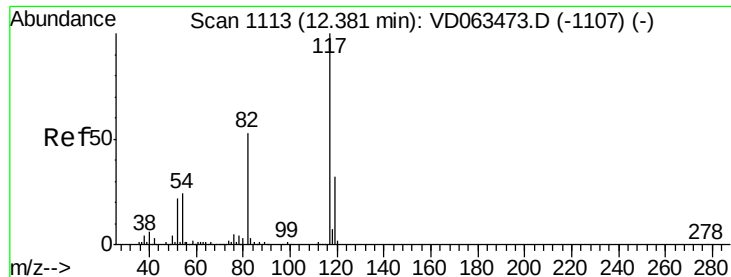
Tgt Ion: 43 Resp: 209
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.0 42.0#



#62
 4-Bromofluorobenzene
 Concen: 64.593 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. -0.01 min
 Lab File: VD063764.D
 Acq: 23 Aug 2019 14:17

Tgt Ion: 95 Resp: 11160
 Ion Ratio Lower Upper
 95 100
 174 79.1 0.0 155.4
 176 99.0 0.0 152.4

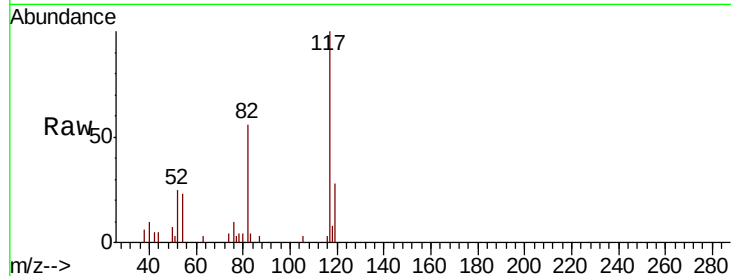




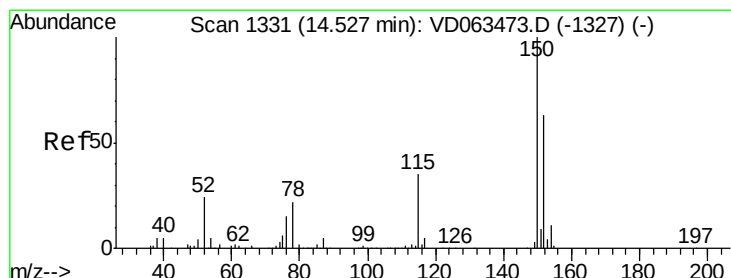
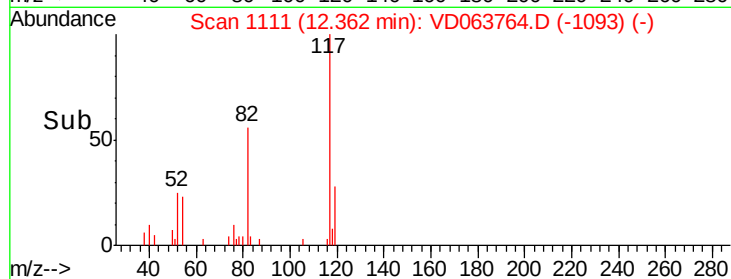
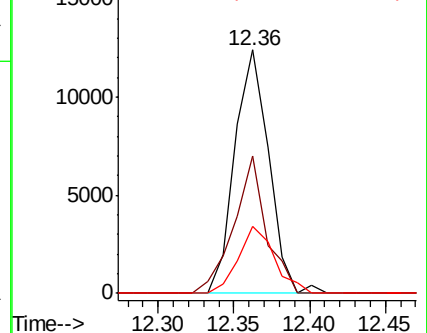
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VD063764.D
Acq: 23 Aug 2019 14:17

Instrument :
MSVOA_D
ClientSampleId :
TP-2(1-3)

Tgt Ion:117 Resp: 19365
Ion Ratio Lower Upper
117 100
82 56.2 42.0 63.0
119 27.6 25.4 38.0

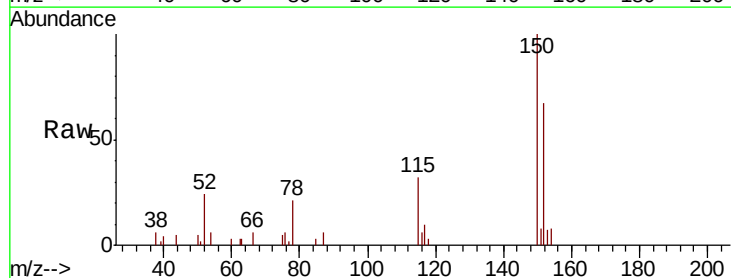


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

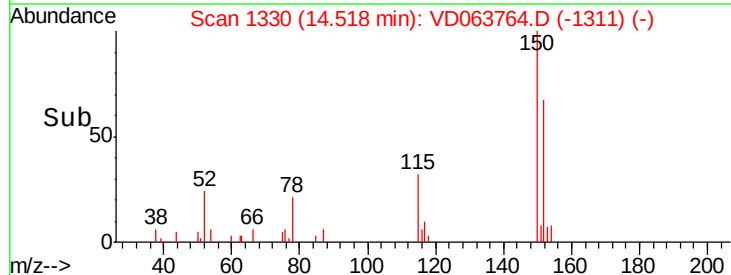
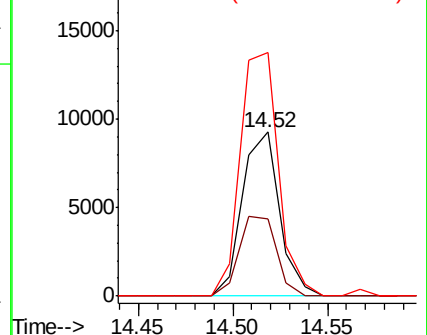


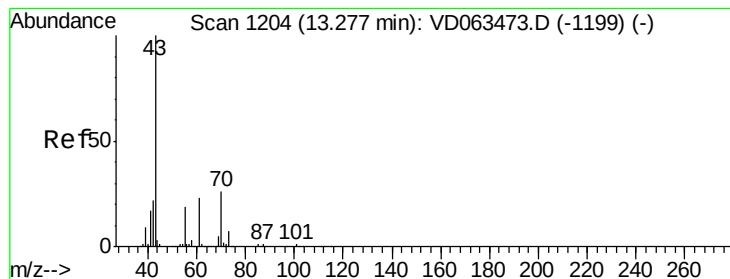
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VD063764.D
Acq: 23 Aug 2019 14:17

Tgt Ion:152 Resp: 12559
Ion Ratio Lower Upper
152 100
115 47.0 30.9 92.7
150 148.4 0.0 318.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 1.142 ug/l

RT: 13.21 min Scan# 1197

Delta R.T. -0.07 min

Lab File: VD063764.D

Acq: 23 Aug 2019 14:17

Instrument :

MSVOA_D

ClientSampleId :

TP-2(1-3)

Tgt Ion: 43 Resp: 229

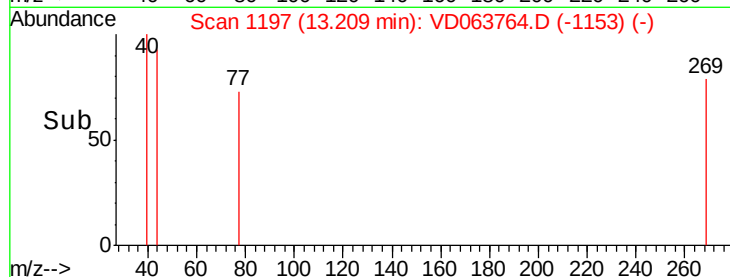
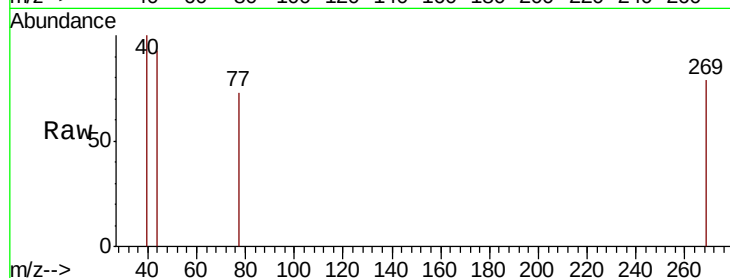
Ion Ratio Lower Upper

43 100

70 0.0 21.1 31.7#

55 0.0 15.4 23.0#

61 0.0 18.2 27.2#

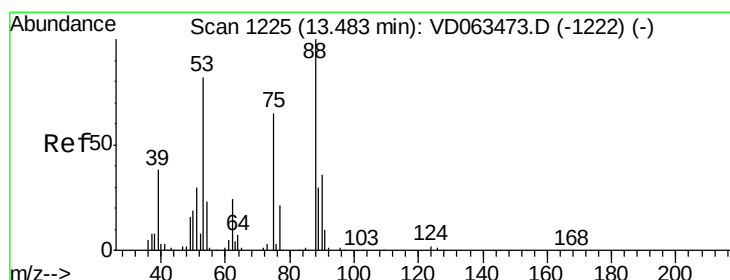
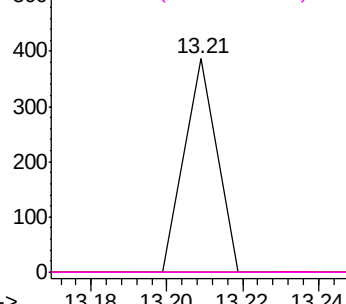


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 119.464 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD063764.D

Acq: 23 Aug 2019 14:17

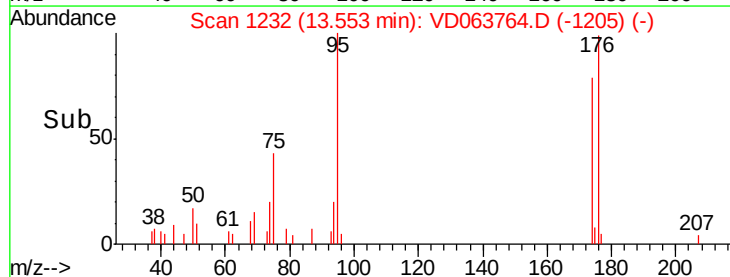
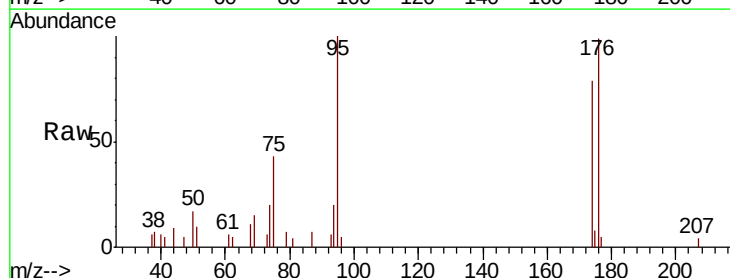
Tgt Ion: 75 Resp: 4628

Ion Ratio Lower Upper

75 100

53 0.0 101.0 151.4#

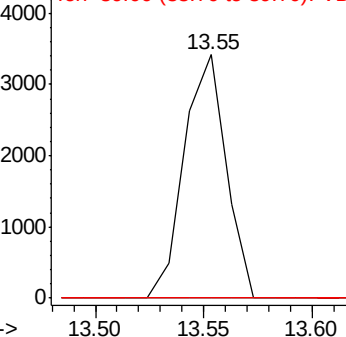
89 0.0 37.0 55.6#

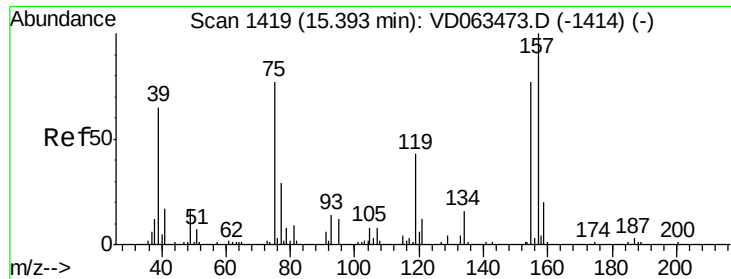


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#92

1,2-Dibromo-3-Chloropropane

Concen: 7.370 ug/l

RT: 15.38 min Scan# 1418

Delta R.T. -0.01 min

Lab File: VD063764.D

Acq: 23 Aug 2019 14:17

Instrument :

MSVOA_D

ClientSampleId :

TP-2(1-3)

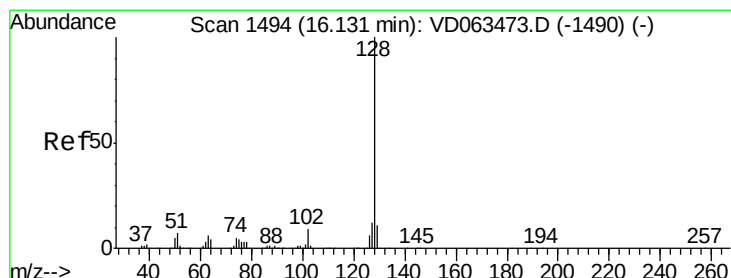
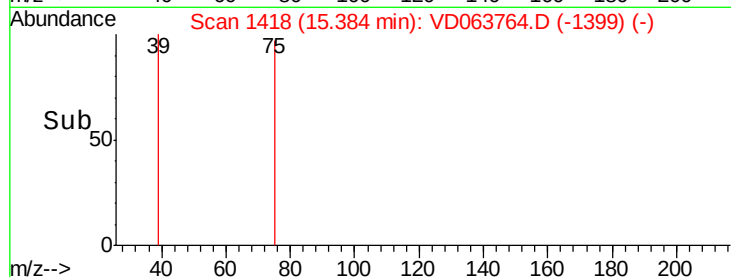
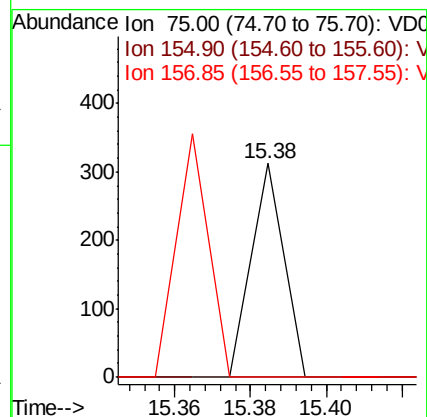
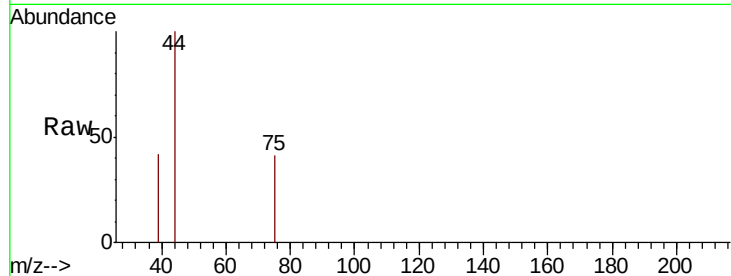
Tgt Ion: 75 Resp: 184

Ion Ratio Lower Upper

75 100

155 0.0 50.1 150.3#

157 0.0 65.0 195.1#



#95

Naphthalene

Concen: 2.379 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.01 min

Lab File: VD063764.D

Acq: 23 Aug 2019 14:17

Tgt Ion: 128 Resp: 889

Ion Ratio Lower Upper

128 100

127 0.0 9.4 14.0#

129 0.0 8.5 12.7#

