

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080519\
 Data File : VD063381.D
 Acq On : 5 Aug 2019 15:27
 Operator : VA/AP
 Sample : K4090-03
 Misc : 6.71g/5ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-02-080219-B

Quant Time: Aug 06 07:50:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	1107890	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1438642	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	1169207	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	577344	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	607867	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
35) Dibromofluoromethane	6.91	113	656751	53.47	ug/l	0.00
Spiked Amount			Recovery	=	106.94%	
50) Toluene-d8	10.41	98	1354142	49.26	ug/l	0.00
Spiked Amount			Recovery	=	98.52%	
62) 4-Bromofluorobenzene	13.56	95	517285	41.29	ug/l	0.00
Spiked Amount			Recovery	=	82.58%	

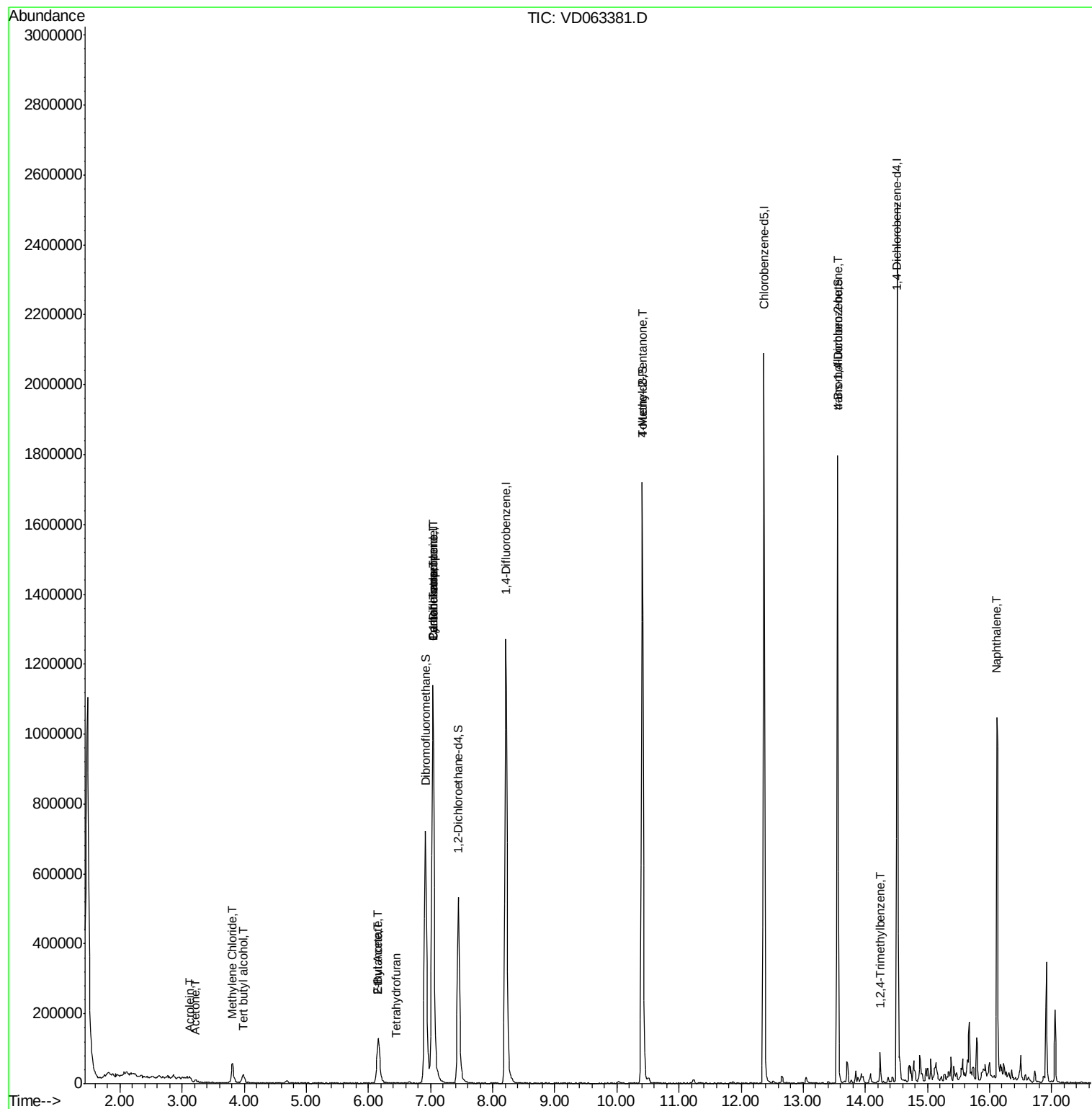
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.99	59	20425	37.860	ug/l #	69
13) Acrolein	3.13	56	636	1.225	ug/l	91
16) Acetone	3.22	43	13597	5.677	ug/l	97
20) Methylene Chloride	3.81	84	31277	3.231	ug/l	88
25) 2-Butanone	6.15	43	9806	4.079	ug/l	92
29) Tetrahydrofuran	6.46	42	1332	1.170	ug/l #	71
31) Cyclohexane	7.04	56	24440	2.232	ug/l #	19
36) 1,1-Dichloropropene	7.04	75	81124	6.179	ug/l #	54
37) Ethyl Acetate	6.15	43	9806	1.662	ug/l #	1
38) Carbon Tetrachloride	7.04	117	106384	5.382	ug/l #	15
51) 4-Methyl-2-Pentanone	10.40	43	7014	1.369	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.55	75	246926	128.233	ug/l #	3
84) 1,2,4-Trimethylbenzene	14.24	105	37682	1.166	ug/l	95
95) Naphthalene	16.13	128	713131	39.932	ug/l	97

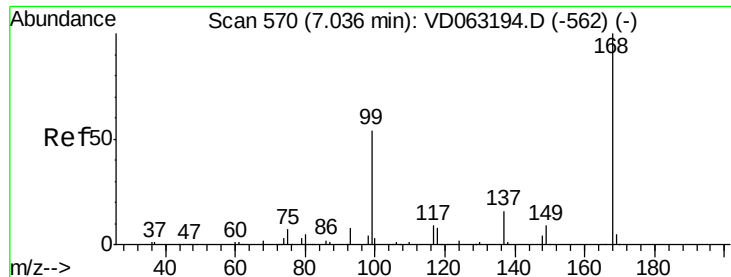
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 30 03:04:50 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD063381.D

Acq: 5 Aug 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

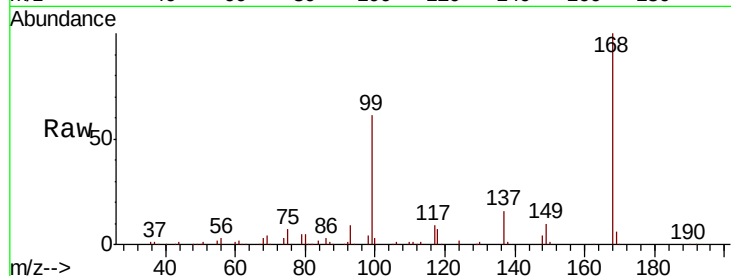
OR-02-080219-B

Tgt Ion:168 Resp: 1107890

Ion Ratio Lower Upper

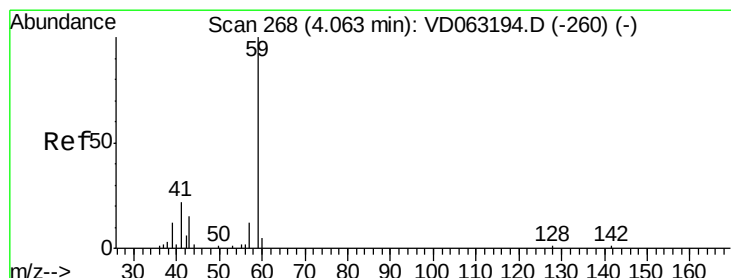
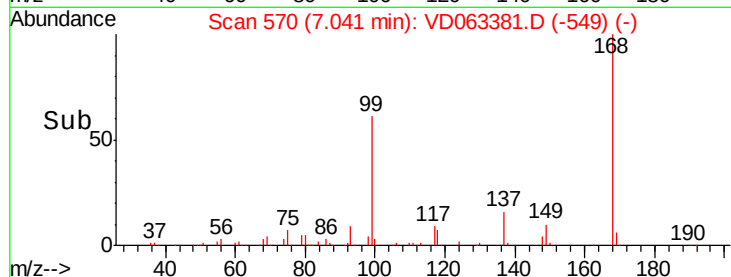
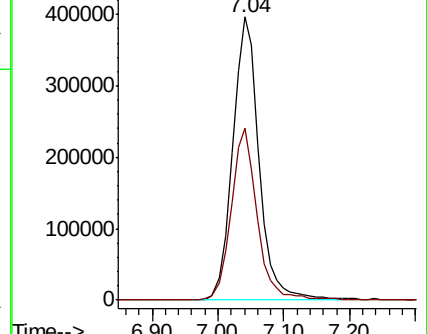
168 100

99 61.0 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 37.860 ug/l

RT: 3.99 min Scan# 260

Delta R.T. -0.07 min

Lab File: VD063381.D

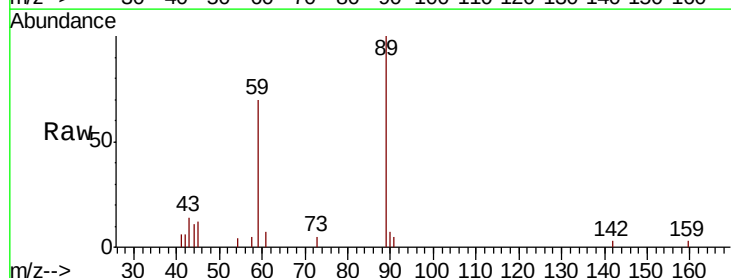
Acq: 5 Aug 2019 15:27

Tgt Ion: 59 Resp: 20425

Ion Ratio Lower Upper

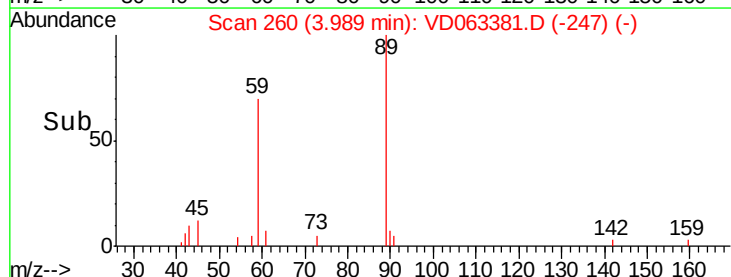
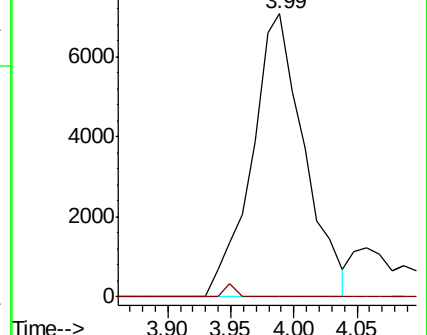
59 100

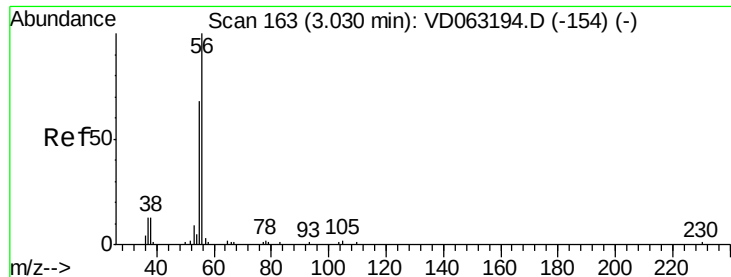
57 0.0 9.6 14.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 1.225 ug/l

RT: 3.13 min Scan# 173

Delta R.T. 0.10 min

Lab File: VD063381.D

Acq: 5 Aug 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

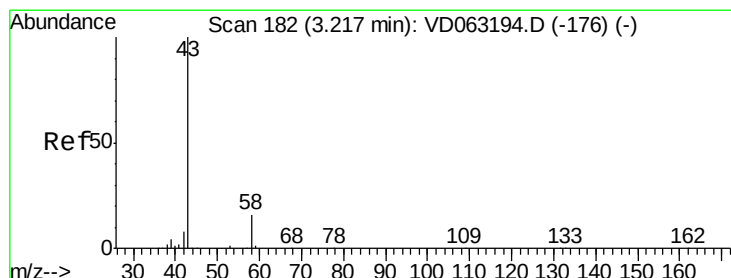
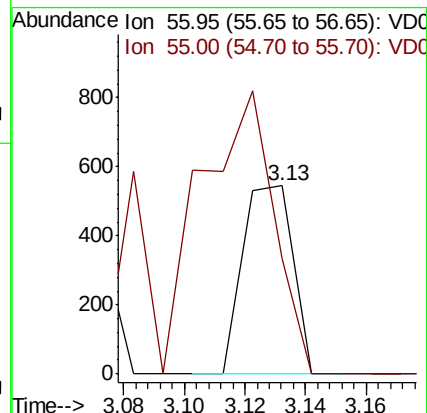
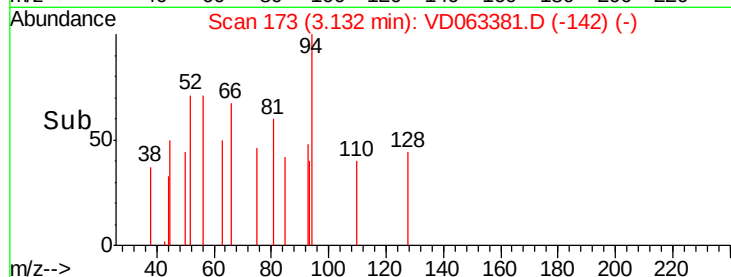
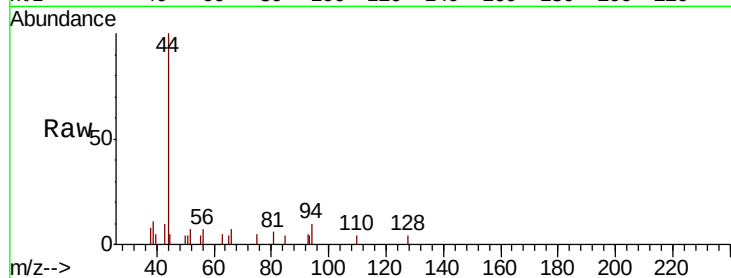
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Tgt Ion: 56 Resp: 636

Ion Ratio Lower Upper

56 100

55 61.4 55.3 82.9



#16

Acetone

Concen: 5.677 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063381.D

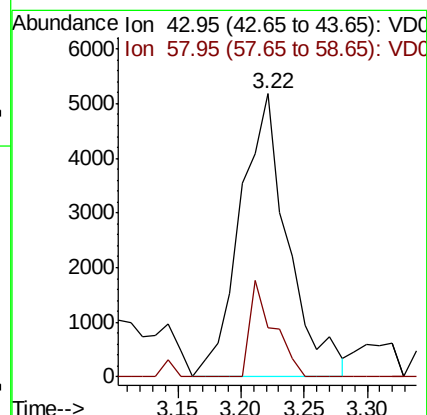
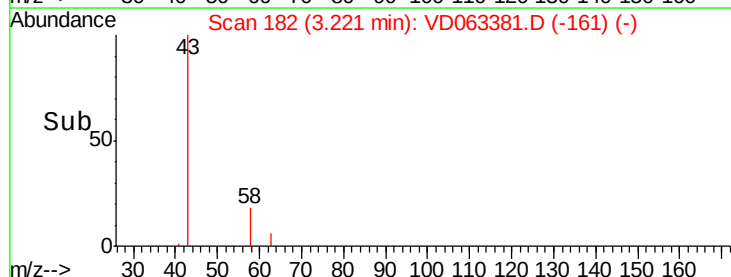
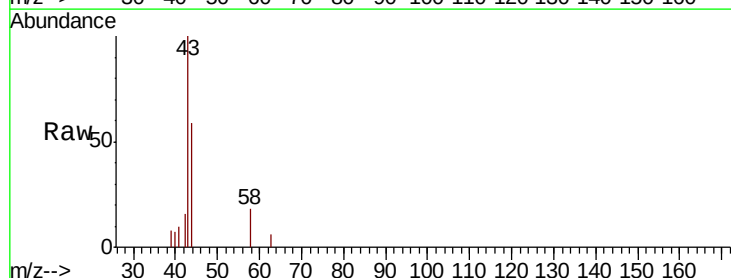
Acq: 5 Aug 2019 15:27

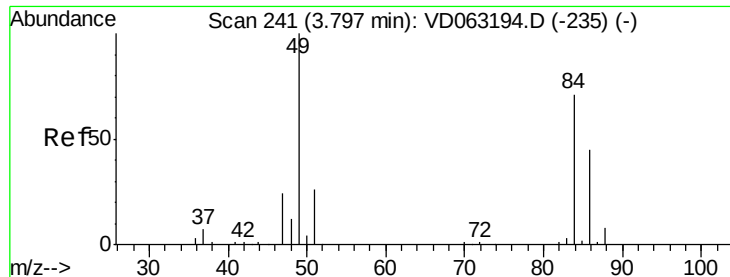
Tgt Ion: 43 Resp: 13597

Ion Ratio Lower Upper

43 100

58 17.6 13.0 19.4

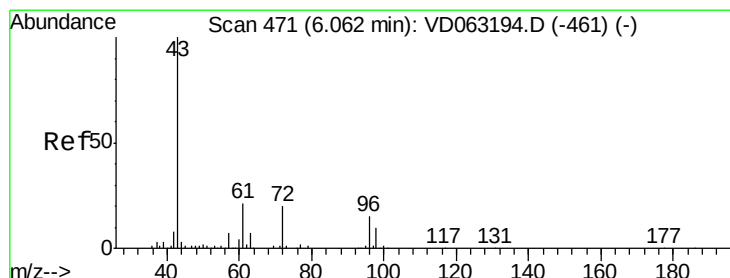
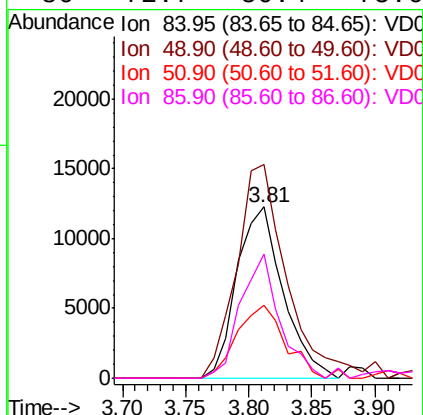
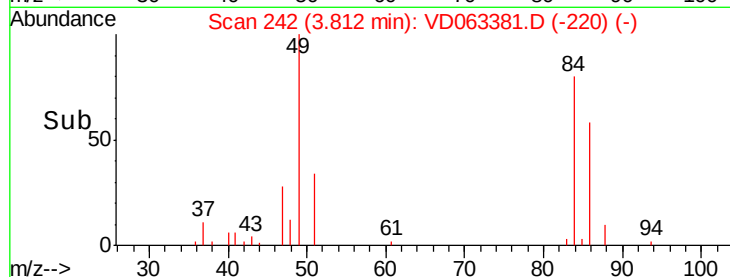
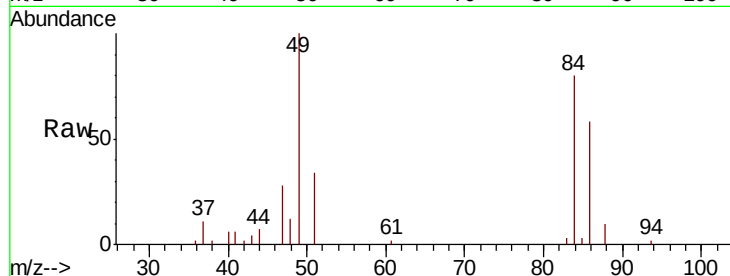




#20
Methylene Chloride
Concen: 3.231 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.01 min
Lab File: VD063381.D
Acq: 5 Aug 2019 15:27

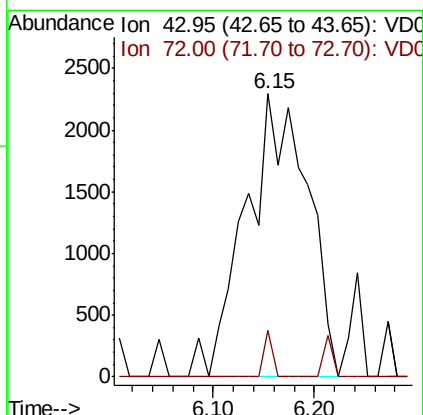
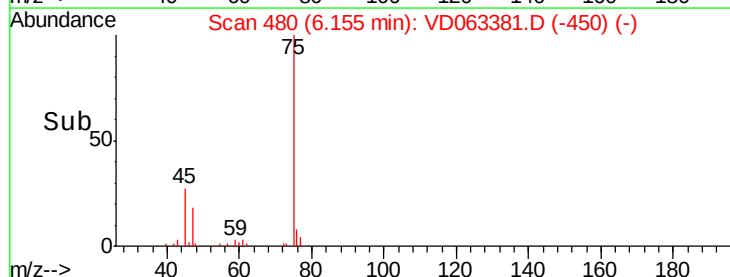
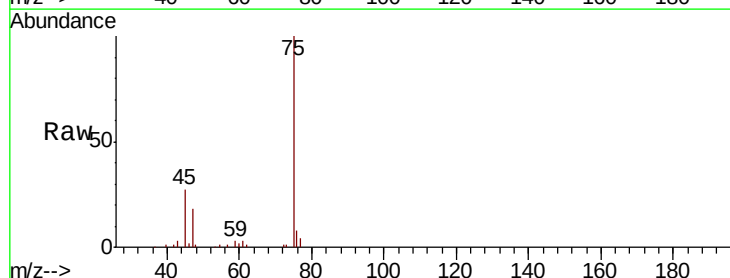
Instrument :
MSVOA_D
ClientSampleId :
OR-02-080219-B

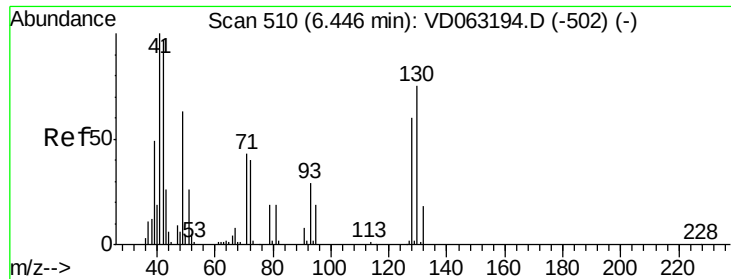
Tgt Ion: 84 Resp: 31277
Ion Ratio Lower Upper
84 100
49 124.7 112.5 168.7
51 42.5 29.6 44.4
86 72.7 50.4 75.6



#25
2-Butanone
Concen: 4.079 ug/l
RT: 6.15 min Scan# 480
Delta R.T. 0.09 min
Lab File: VD063381.D
Acq: 5 Aug 2019 15:27

Tgt Ion: 43 Resp: 9806
Ion Ratio Lower Upper
43 100
72 16.5 16.3 24.5





#29

Tetrahydrofuran

Concen: 1.170 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.01 min

Lab File: VD063381.D

Acq: 5 Aug 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

OR-02-080219-B

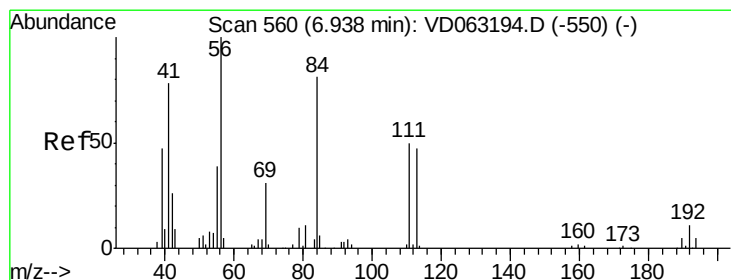
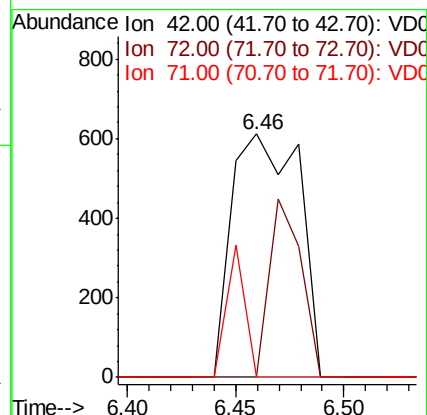
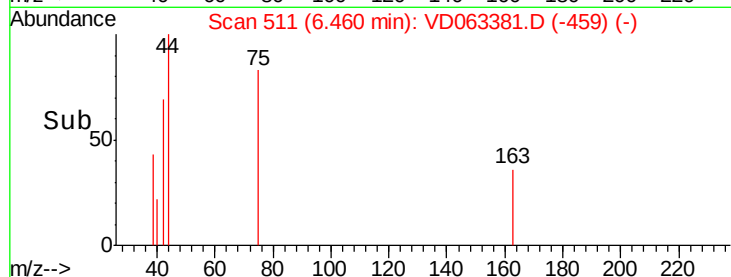
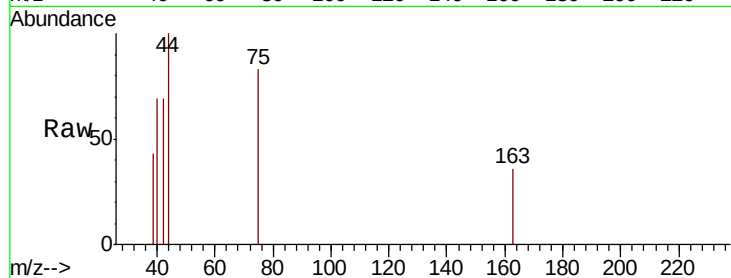
Tgt Ion: 42 Resp: 1332

Ion Ratio Lower Upper

42 100

72 34.5 33.4 50.2

71 14.8 35.7 53.5#



#31

Cyclohexane

Concen: 2.232 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.10 min

Lab File: VD063381.D

Acq: 5 Aug 2019 15:27

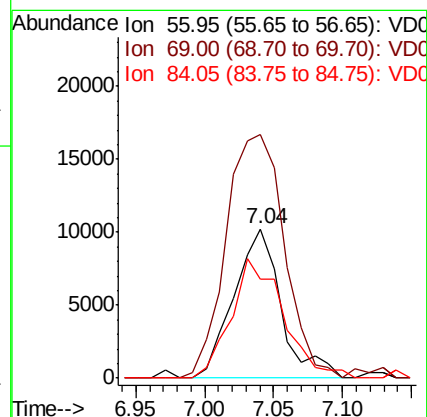
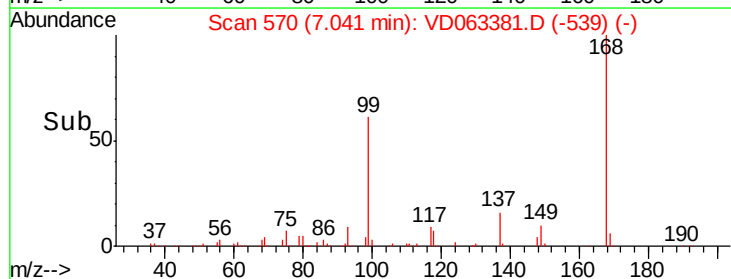
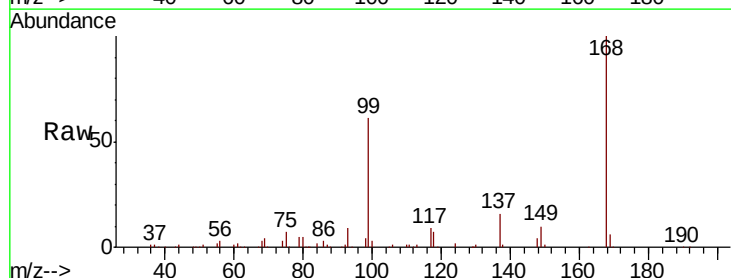
Tgt Ion: 56 Resp: 24440

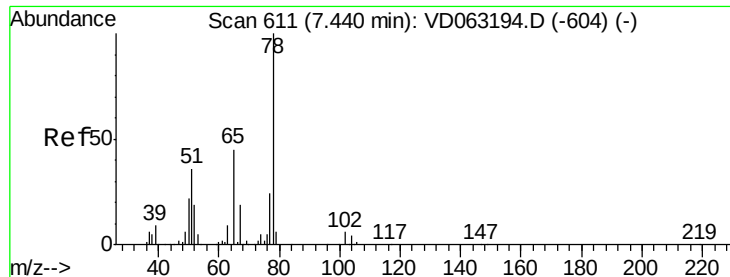
Ion Ratio Lower Upper

56 100

69 167.1 24.5 36.7#

84 66.1 64.9 97.3

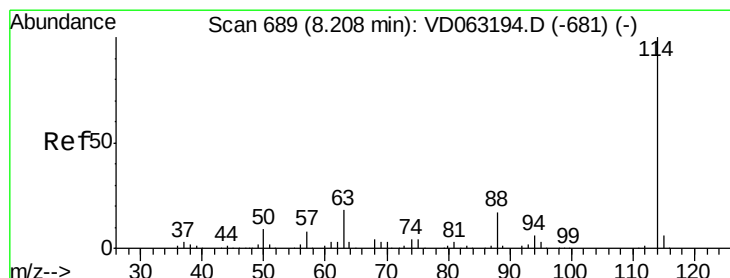
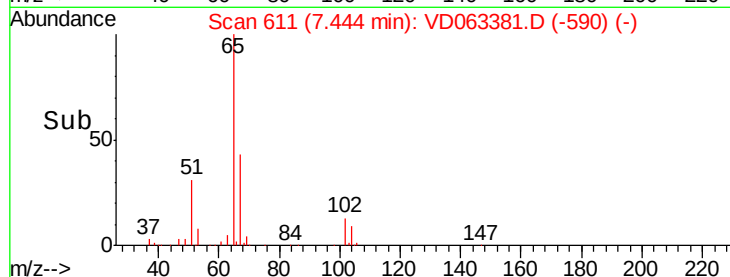
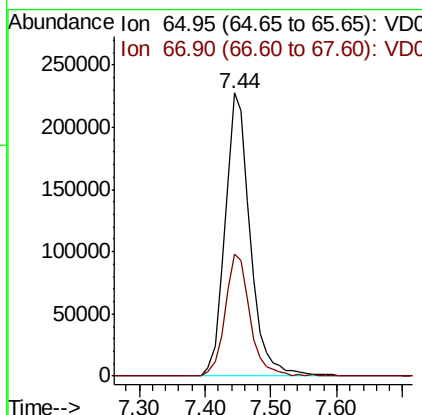
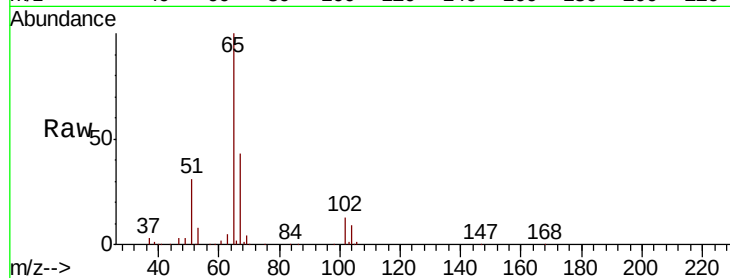




#33
 1,2-Dichloroethane-d4
 Concen: 49.448 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. 0.00 min
 Lab File: VD063381.D
 Acq: 5 Aug 2019 15:27

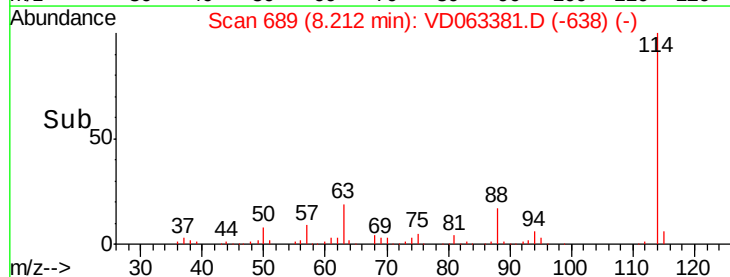
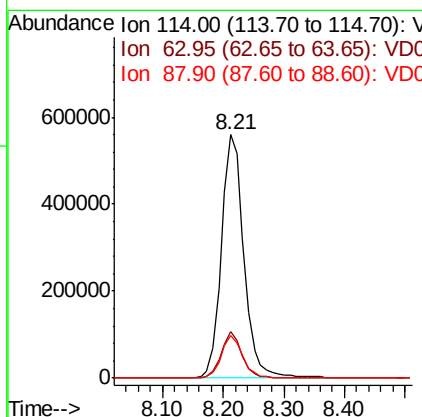
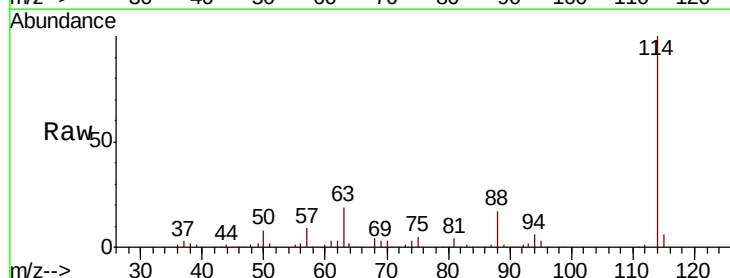
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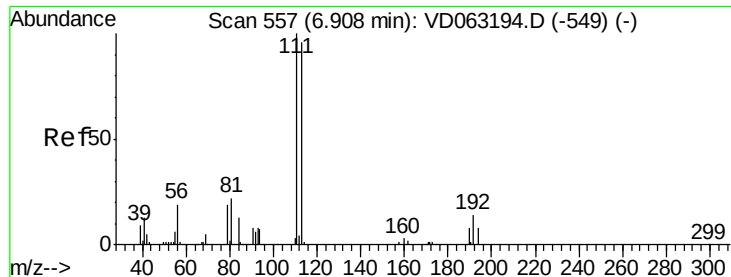
Tgt Ion: 65 Resp: 607867
 Ion Ratio Lower Upper
 65 100
 67 43.2 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. 0.00 min
 Lab File: VD063381.D
 Acq: 5 Aug 2019 15:27

Tgt Ion: 114 Resp: 1438642
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 35.2
 88 17.3 0.0 34.6

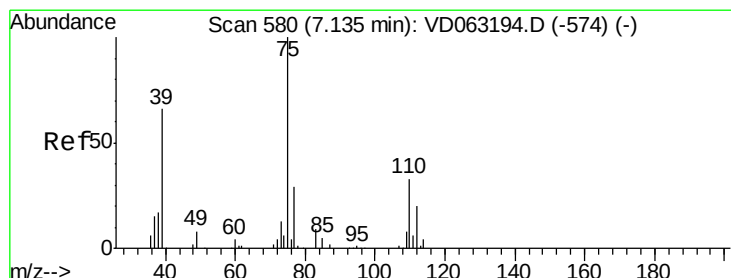
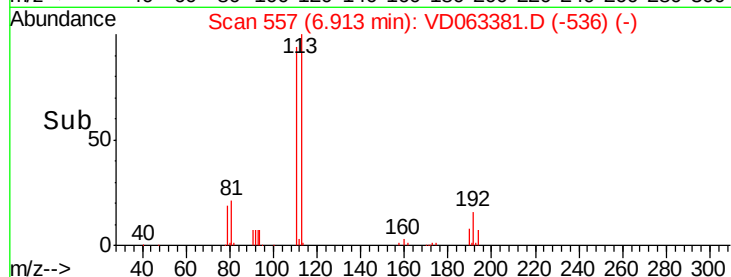
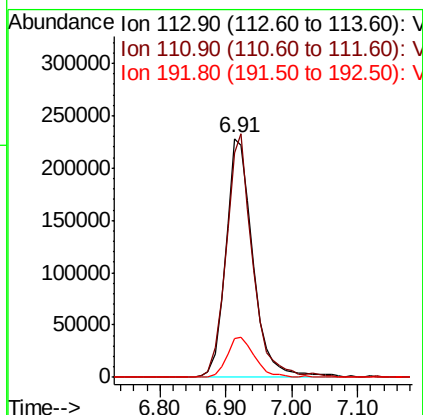
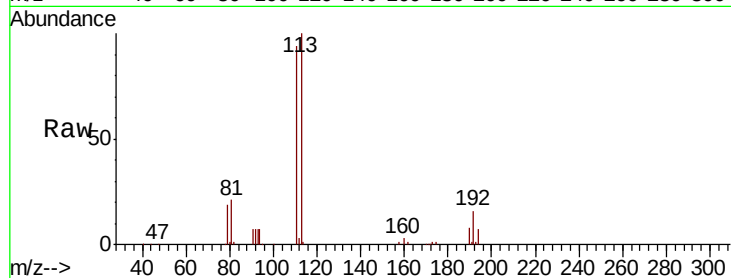




#35
 Dibromofluoromethane
 Concen: 53.469 ug/l
 RT: 6.91 min Scan# 557
 Delta R.T. 0.00 min
 Lab File: VD063381.D
 Acq: 5 Aug 2019 15:27

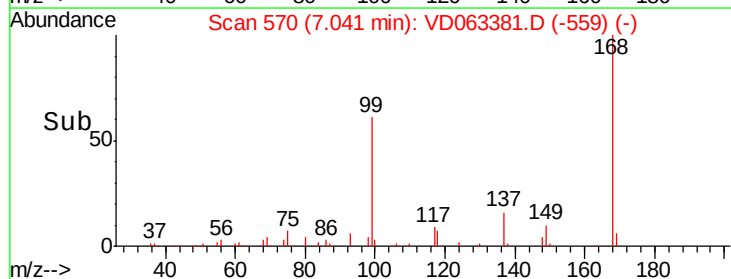
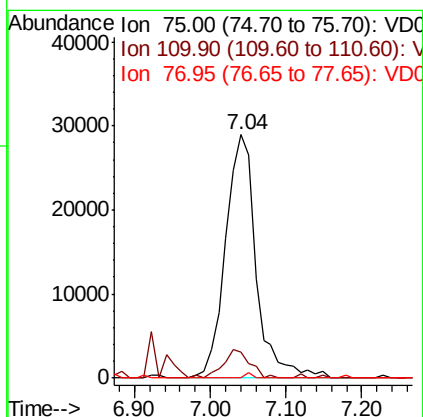
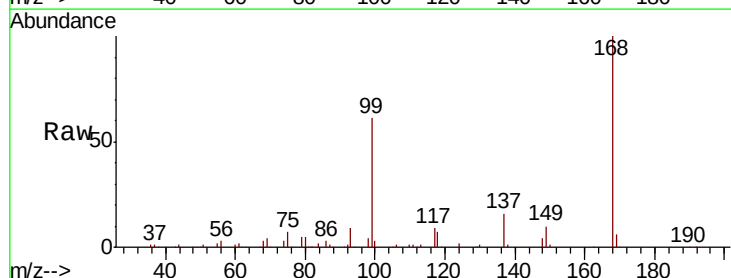
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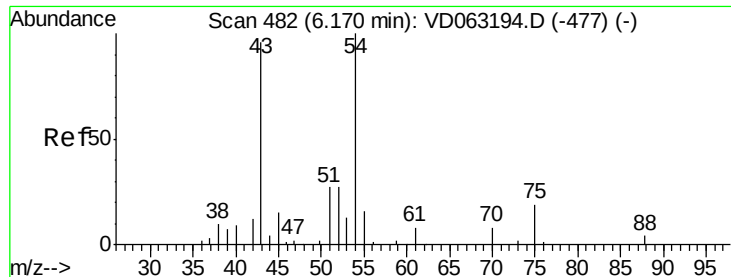
Tgt Ion	Ratio	Lower	Upper
113	100		
111	94.1	83.2	124.8
192	16.3	11.8	17.8



#36
 1,1-Dichloropropene
 Concen: 6.179 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.09 min
 Lab File: VD063381.D
 Acq: 5 Aug 2019 15:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.5	16.1	48.2#
77	0.0	22.7	34.1#

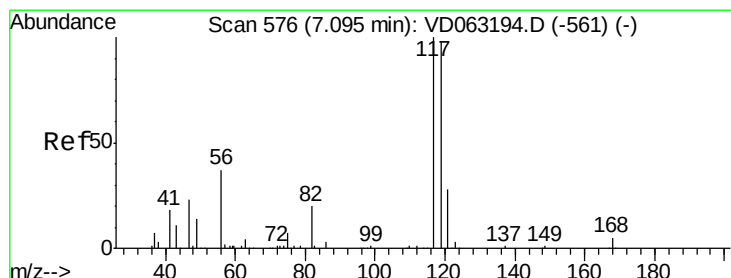
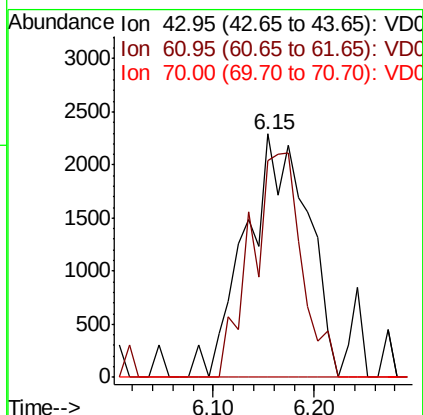
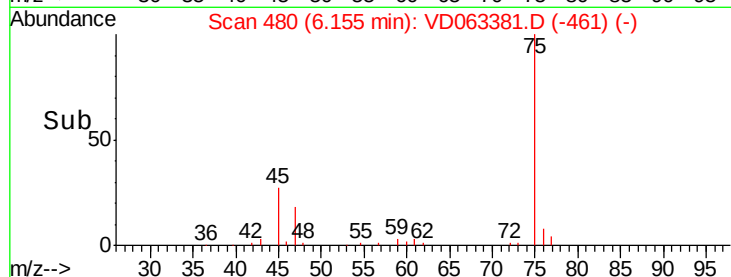
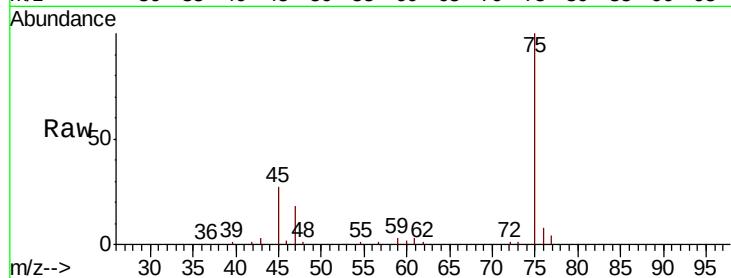




#37
Ethyl Acetate
Concen: 1.662 ug/l
RT: 6.15 min Scan# 480
Delta R.T. -0.02 min
Lab File: VD063381.D
Acq: 5 Aug 2019 15:27

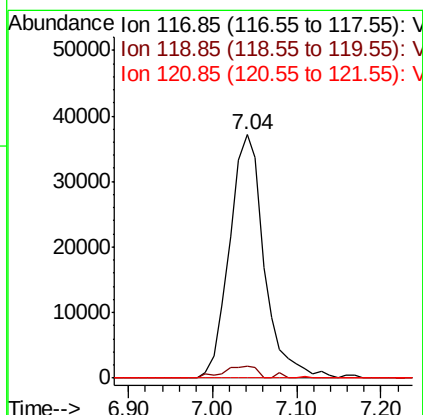
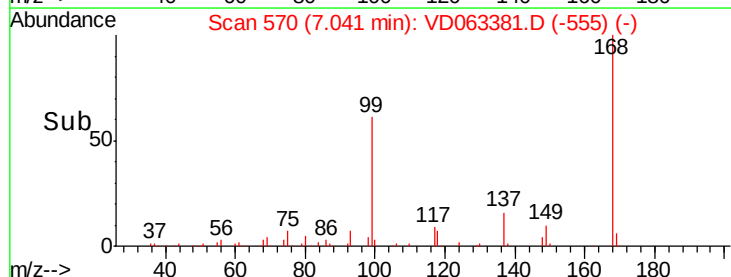
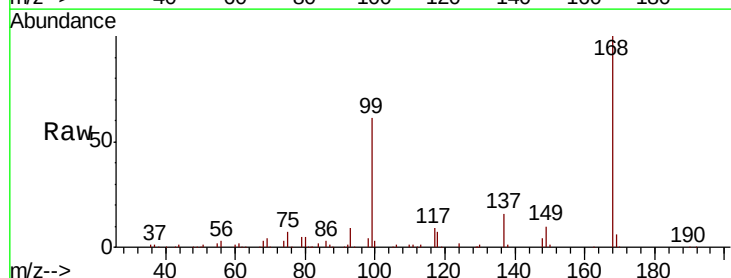
Instrument :
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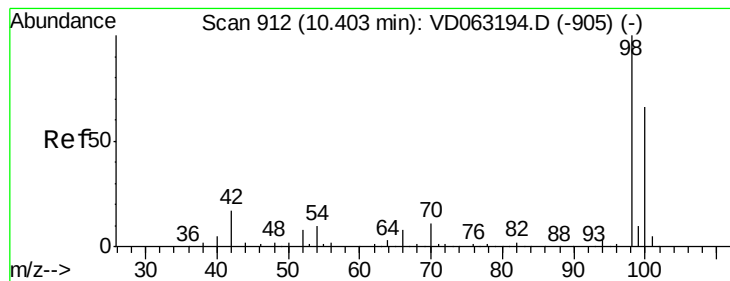
Tgt Ion: 43 Resp: 9806
Ion Ratio Lower Upper
43 100
61 89.1 11.3 16.9#
70 0.0 5.1 7.7#



#38
Carbon Tetrachloride
Concen: 5.382 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.05 min
Lab File: VD063381.D
Acq: 5 Aug 2019 15:27

Tgt Ion: 117 Resp: 106384
Ion Ratio Lower Upper
117 100
119 4.8 78.2 117.2#
121 0.0 22.1 33.1#





#50

Toluene-d8

Concen: 49.261 ug/l

RT: 10.41 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD063381.D

Acq: 5 Aug 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

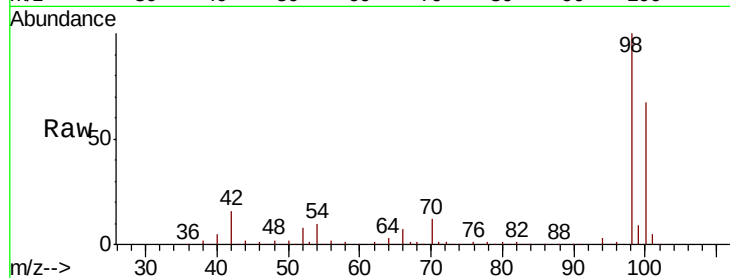
OR-02-080219-B

Tgt Ion: 98 Resp: 1354142

Ion Ratio Lower Upper

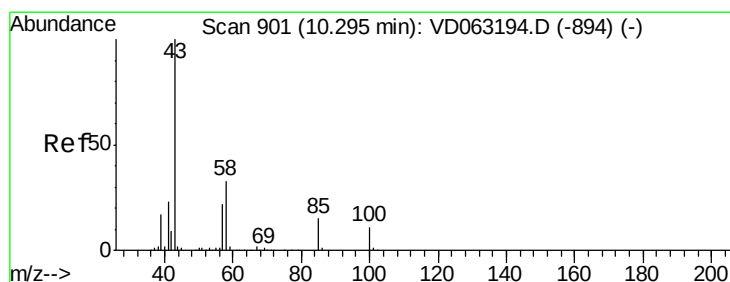
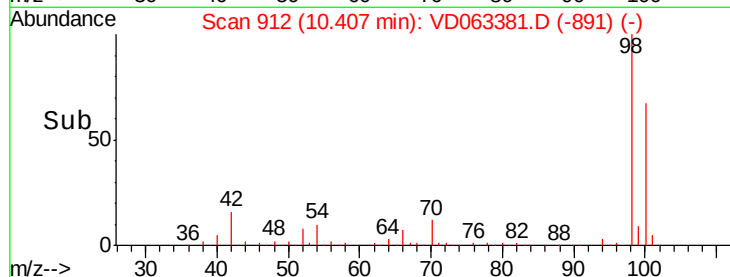
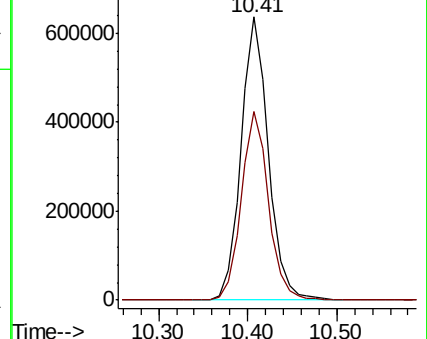
98 100

100 66.6 53.2 79.8



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: 1.369 ug/l

RT: 10.40 min Scan# 911

Delta R.T. 0.10 min

Lab File: VD063381.D

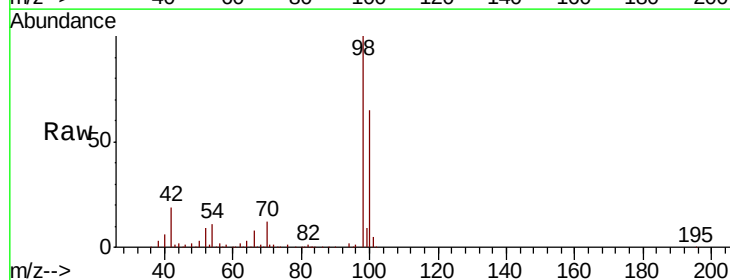
Acq: 5 Aug 2019 15:27

Tgt Ion: 43 Resp: 7014

Ion Ratio Lower Upper

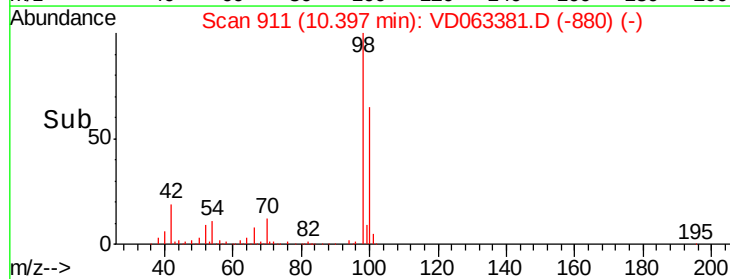
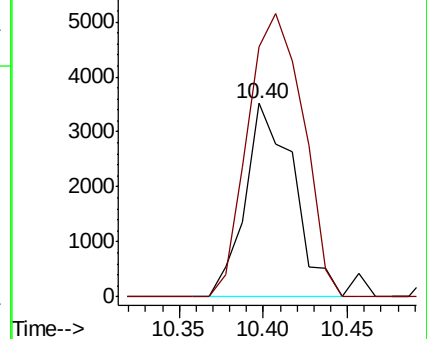
43 100

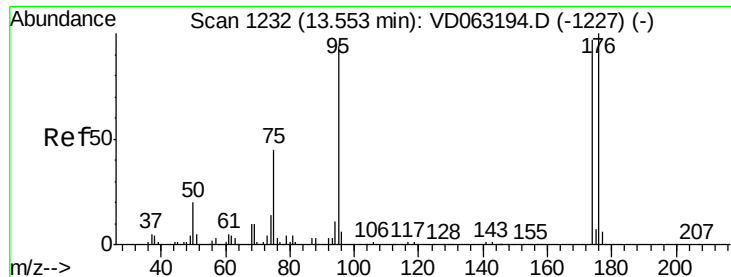
58 129.4 26.2 39.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: 41.295 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD063381.D

Acq: 5 Aug 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

OR-02-080219-B

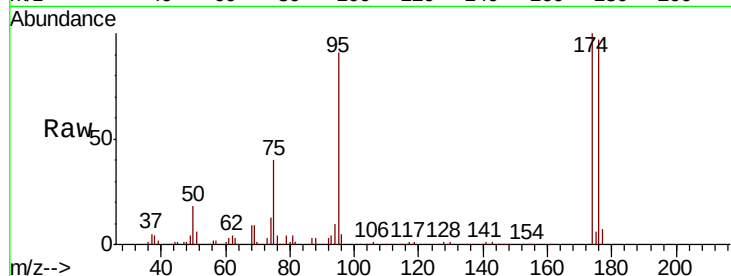
Tgt Ion: 95 Resp: 517285

Ion Ratio Lower Upper

95 100

174 110.5 0.0 205.4

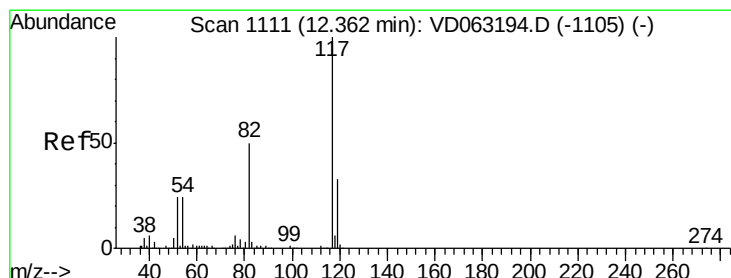
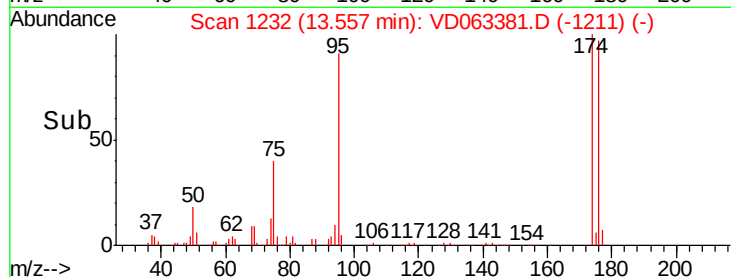
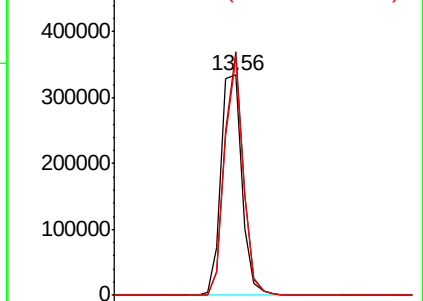
176 107.5 0.0 211.8



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD063381.D

Acq: 5 Aug 2019 15:27

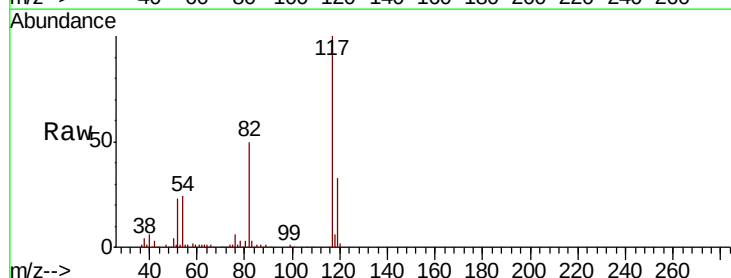
Tgt Ion: 117 Resp: 1169207

Ion Ratio Lower Upper

117 100

82 50.5 40.1 60.1

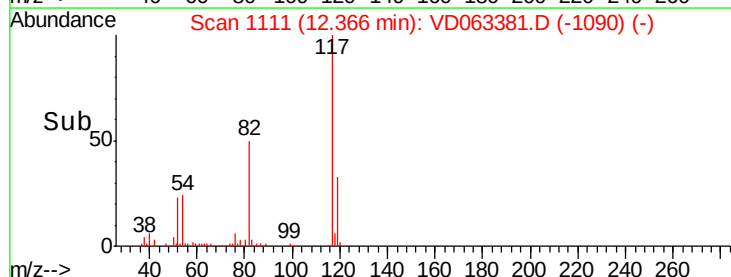
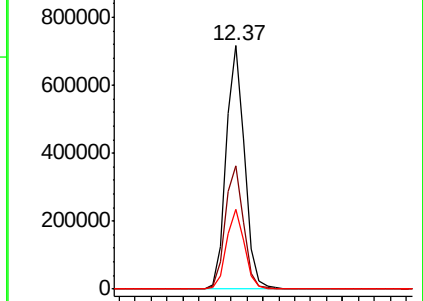
119 32.5 26.5 39.7

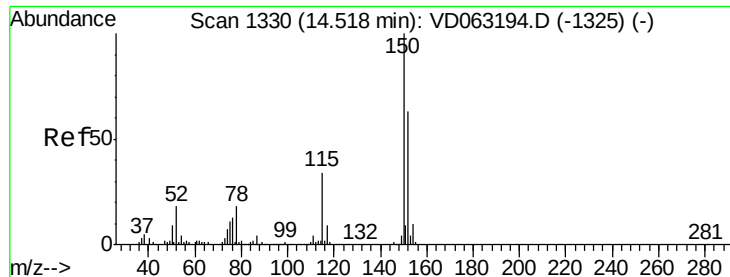


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

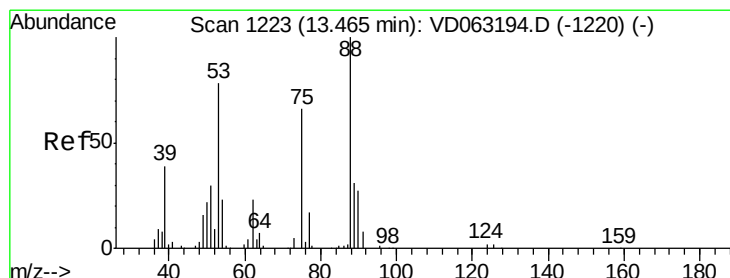
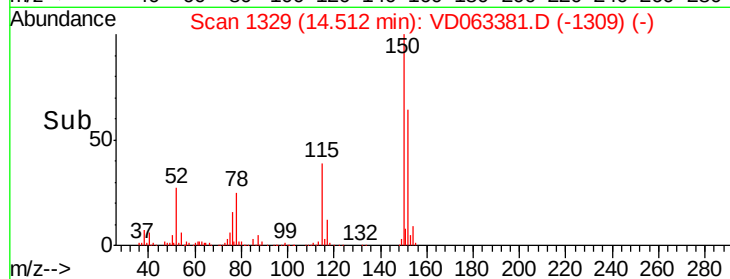
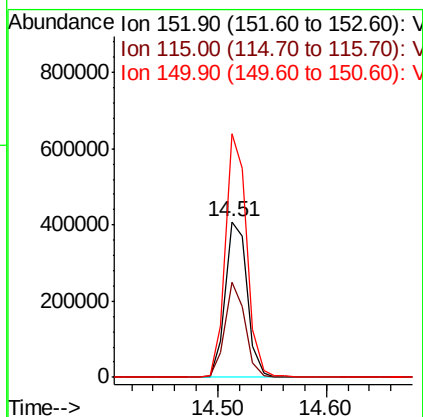
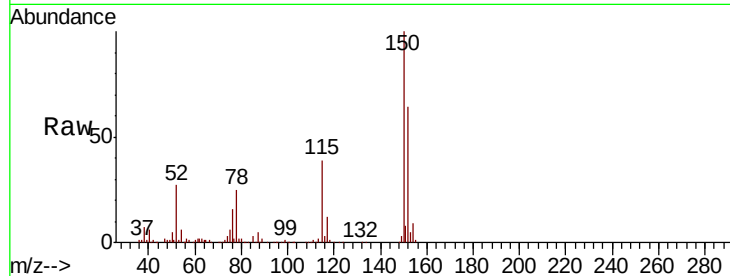




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.51 min Scan# 1329
 Delta R.T. -0.01 min
 Lab File: VD063381.D
 Acq: 5 Aug 2019 15:27

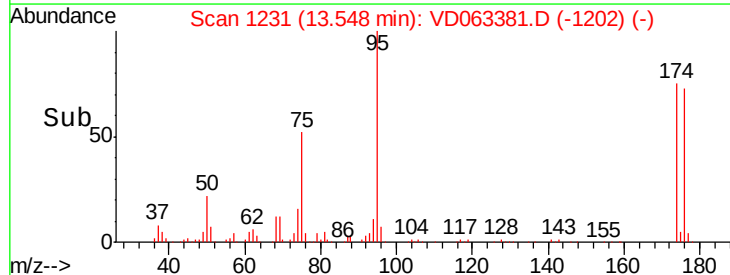
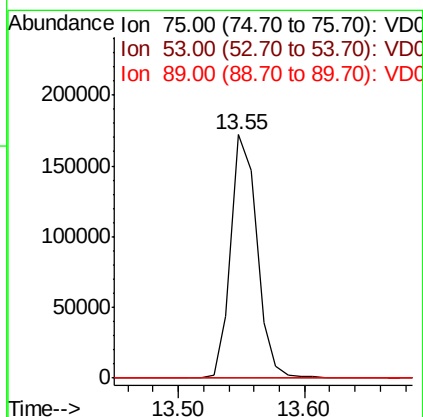
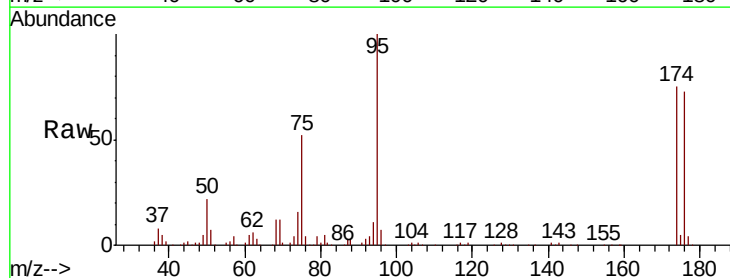
Instrument :
 MSVOA_D
 ClientSampleId :
 OR-02-080219-B

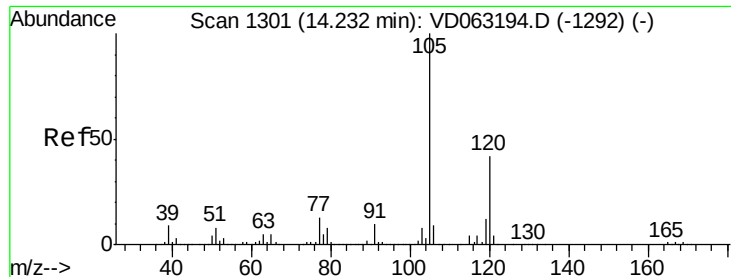
Tgt Ion:152 Resp: 577344
 Ion Ratio Lower Upper
 152 100
 115 61.5 27.5 82.4
 150 156.7 0.0 320.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 128.233 ug/l
 RT: 13.55 min Scan# 1231
 Delta R.T. 0.08 min
 Lab File: VD063381.D
 Acq: 5 Aug 2019 15:27

Tgt Ion: 75 Resp: 246926
 Ion Ratio Lower Upper
 75 100
 53 0.0 94.9 142.3#
 89 0.0 37.4 56.0#





#84

1,2,4-Trimethylbenzene

Concen: 1.166 ug/l

RT: 14.24 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VD063381.D

Acq: 5 Aug 2019 15:27

Instrument :

MSVOA_D

ClientSampleId :

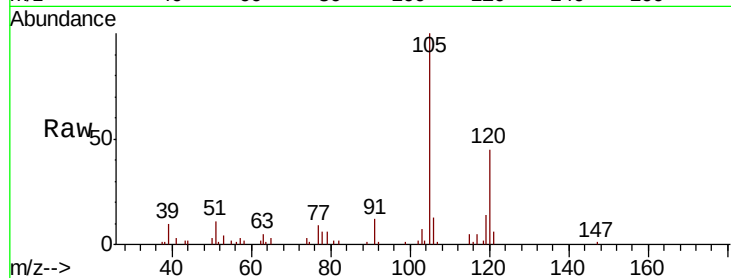
OR-02-080219-B

Tgt Ion:105 Resp: 37682

Ion Ratio Lower Upper

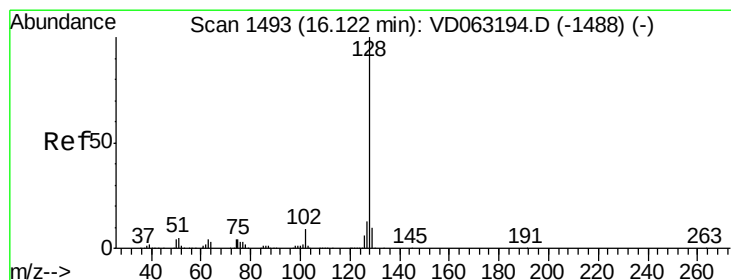
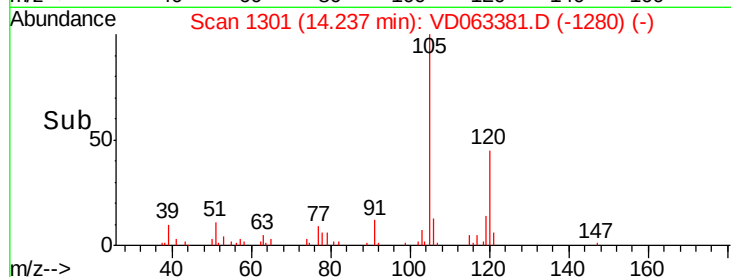
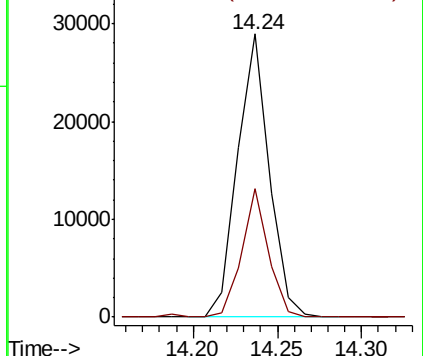
105 100

120 45.2 20.9 62.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#95

Naphthalene

Concen: 39.932 ug/l

RT: 16.13 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VD063381.D

Acq: 5 Aug 2019 15:27

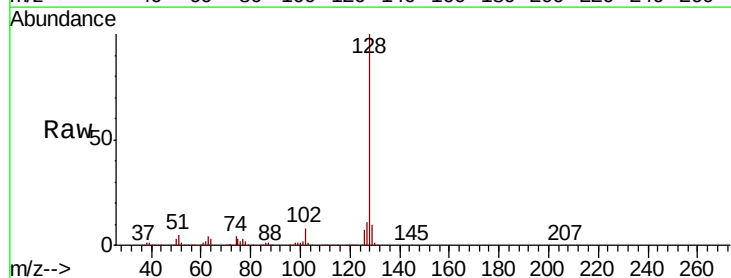
Tgt Ion:128 Resp: 713131

Ion Ratio Lower Upper

128 100

127 11.3 10.2 15.4

129 10.1 7.8 11.8



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

