

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD071619\
 Data File : VD063099.D
 Acq On : 16 Jul 2019 11:54
 Operator : VA/AP
 Sample : K3833-02
 Misc : 5.01g/5ml/MSVOA_D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 DRILLING-MUD

Quant Time: Jul 16 12:24:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	707538	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	956280	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	740271	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	413740	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.44	65	392707	44.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.12%	
35) Dibromofluoromethane	6.91	113	440900	46.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.58%	
50) Toluene-d8	10.40	98	892654	43.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.26%	
62) 4-Bromofluorobenzene	13.55	95	384911	40.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.34%	

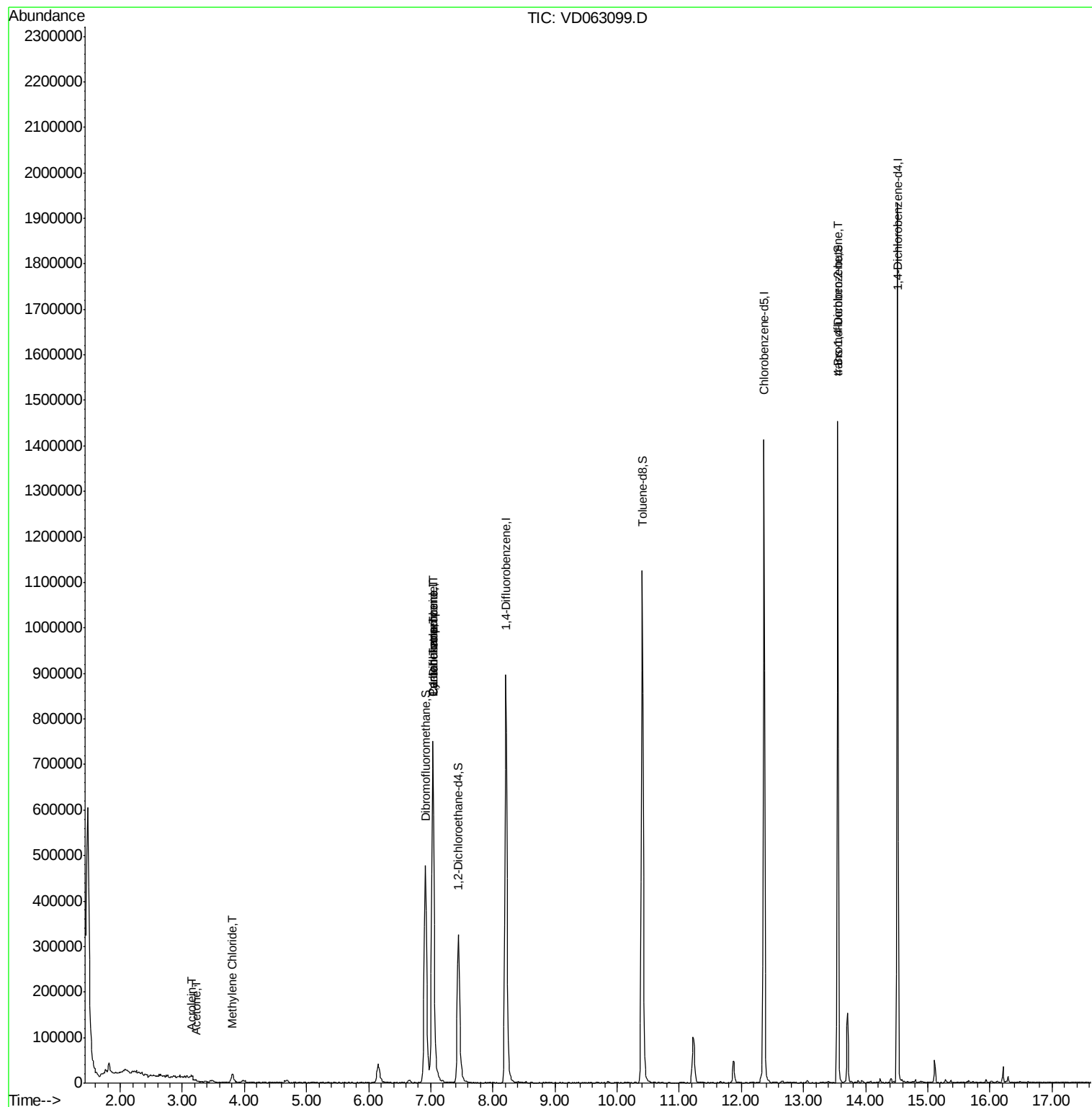
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.57	85	1491	Below Cal	#	43
3) Chloromethane	1.74	50	759	Below Cal	#	48
5) Bromomethane	2.13	94	683	Below Cal	#	13
13) Acrolein	3.16	56	371	2.417	ug/l #	17
16) Acetone	3.21	43	8455	3.972	ug/l #	89
18) Methyl Acetate	3.63	43	628	Below Cal	#	63
20) Methylene Chloride	3.81	84	11002	1.368	ug/l #	82
31) Cyclohexane	7.03	56	17161	2.045	ug/l #	19
36) 1,1-Dichloropropene	7.03	75	58102	5.402	ug/l #	50
38) Carbon Tetrachloride	7.04	117	75540	4.622	ug/l #	14
81) trans-1,4-Dichloro-2-buten	13.55	75	183523	109.500	ug/l #	1

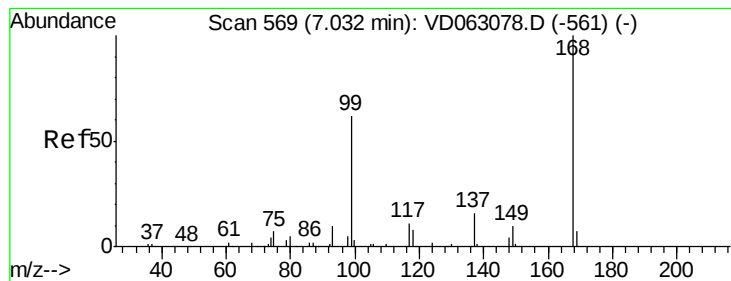
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD063099.D

Acq: 16 Jul 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

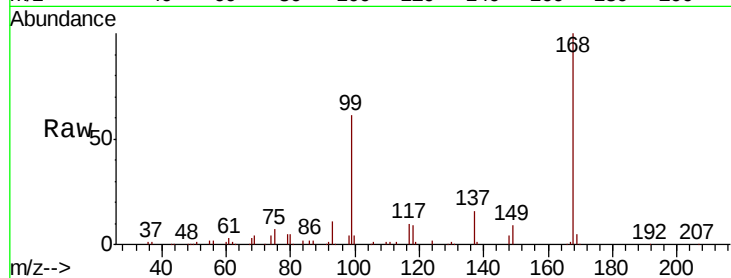
DRILLING-MUD

Tgt Ion:168 Resp: 707538

Ion Ratio Lower Upper

168 100

99 60.5 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

250000

200000

150000

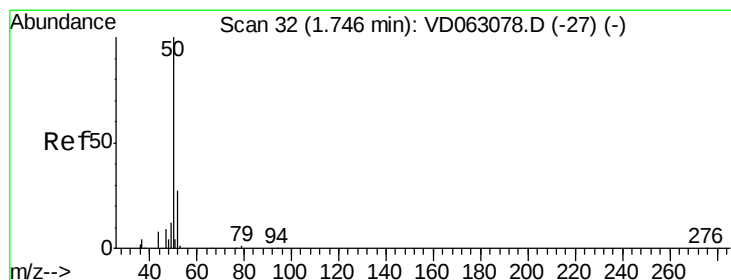
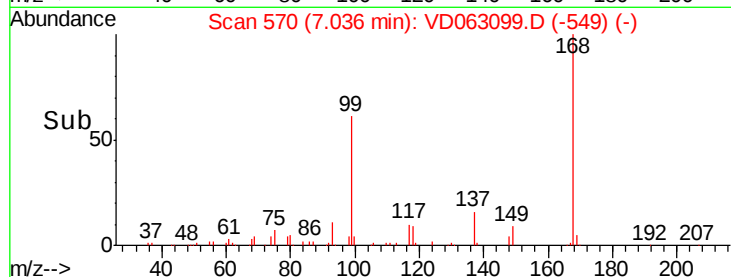
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#3

Chloromethane

Concen: Below Cal

RT: 1.74 min Scan# 32

Delta R.T. -0.01 min

Lab File: VD063099.D

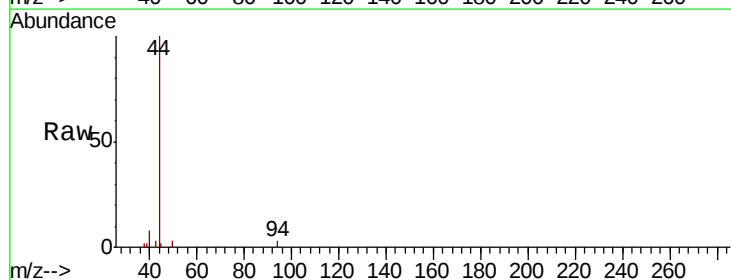
Acq: 16 Jul 2019 11:54

Tgt Ion: 50 Resp: 759

Ion Ratio Lower Upper

50 100

52 0.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.74

600

500

400

300

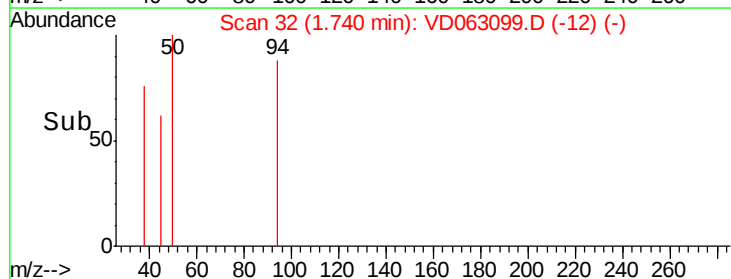
200

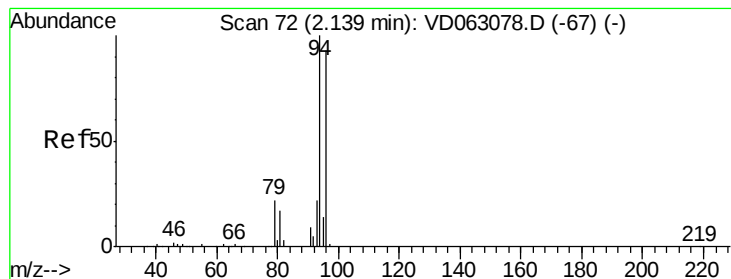
100

0

Time-->

1.72 1.74 1.76





#5

Bromomethane

Concen: Below Cal

RT: 2.13 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD063099.D

Acq: 16 Jul 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

DRILLING-MUD

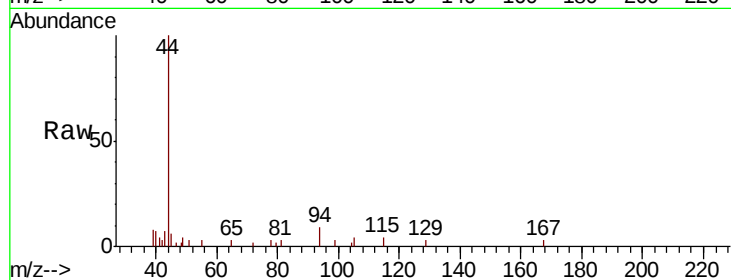
Tgt Ion: 94 Resp: 683

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#

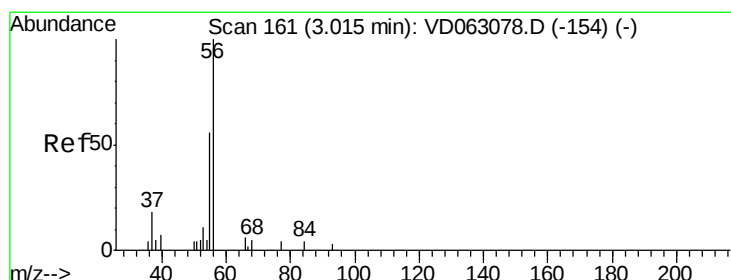
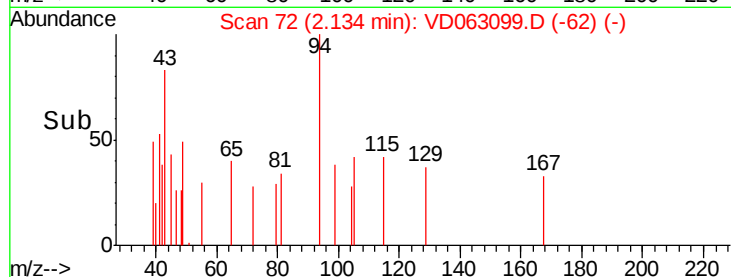
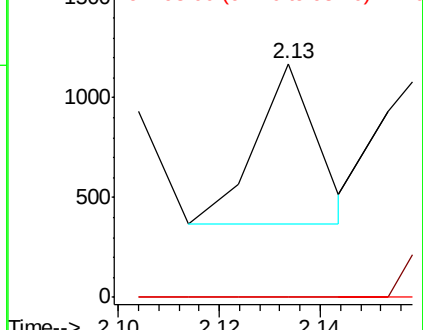
93 0.0 17.8 26.6#



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



#13

Acrolein

Concen: 2.417 ug/l

RT: 3.16 min Scan# 176

Delta R.T. 0.14 min

Lab File: VD063099.D

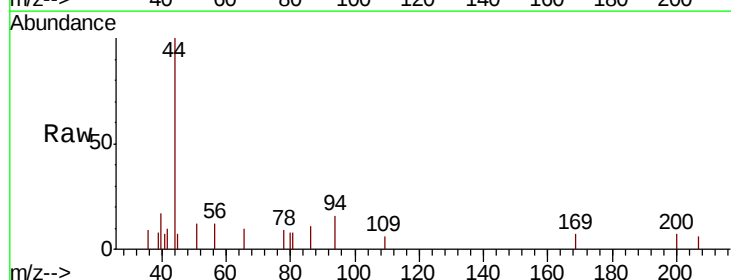
Acq: 16 Jul 2019 11:54

Tgt Ion: 56 Resp: 371

Ion Ratio Lower Upper

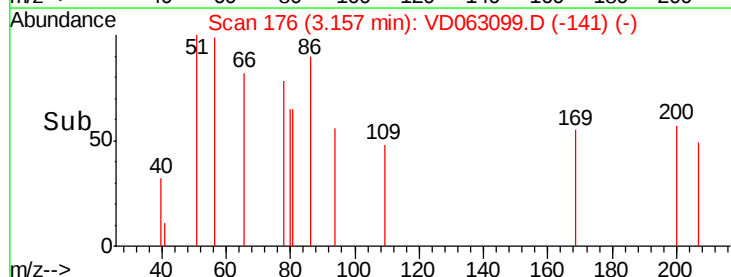
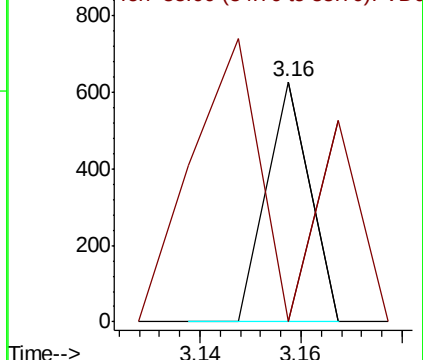
56 100

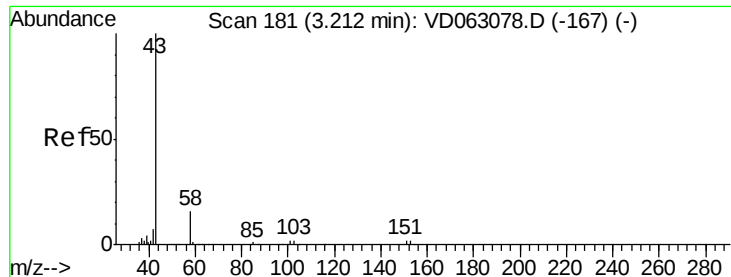
55 0.0 53.0 79.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 3.972 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD063099.D

Acq: 16 Jul 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

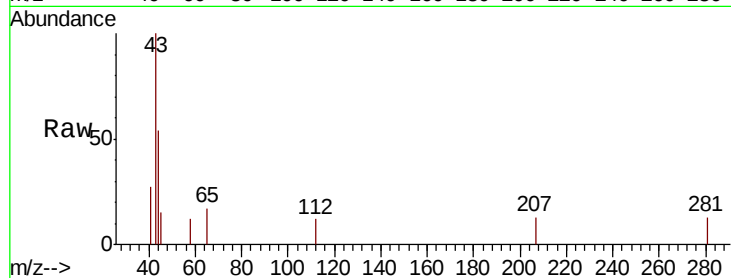
DRILLING-MUD

Tgt Ion: 43 Resp: 8455

Ion Ratio Lower Upper

43 100

58 11.6 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.21

3000

2500

2000

1500

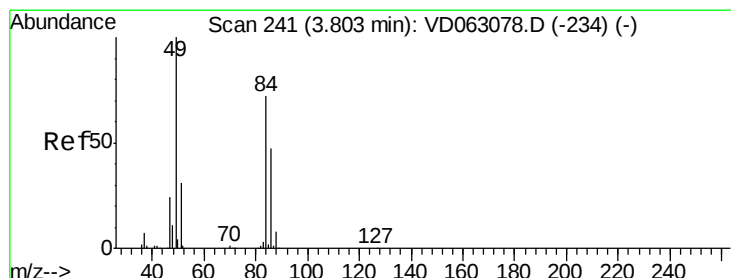
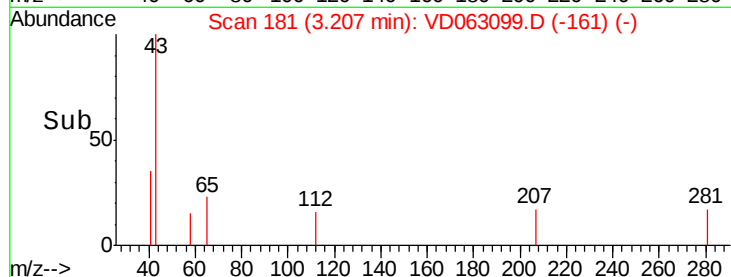
1000

500

0

Time-->

3.10 3.15 3.20 3.25 3.30



#20

Methylene Chloride

Concen: 1.368 ug/l

RT: 3.81 min Scan# 242

Delta R.T. 0.00 min

Lab File: VD063099.D

Acq: 16 Jul 2019 11:54

Tgt Ion: 84 Resp: 11002

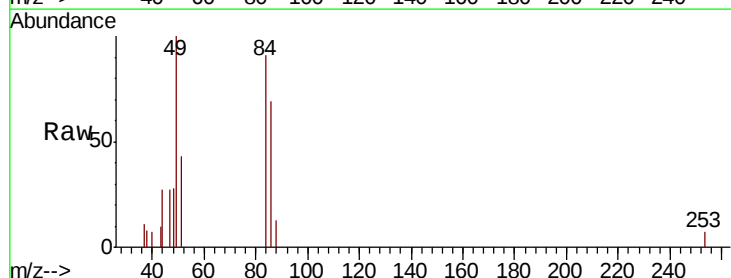
Ion Ratio Lower Upper

84 100

49 109.4 110.5 165.7#

51 47.3 34.6 51.8

86 75.1 51.6 77.4



Abundance Ion 83.95 (83.65 to 84.65): 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

8000

6000

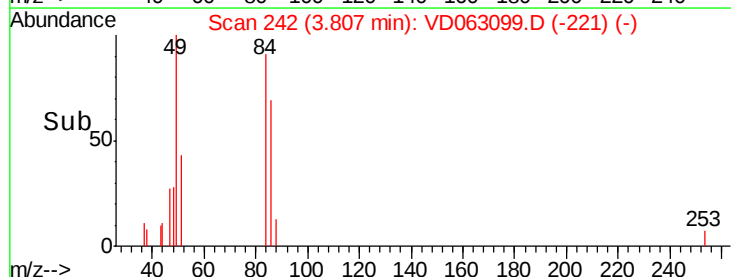
4000

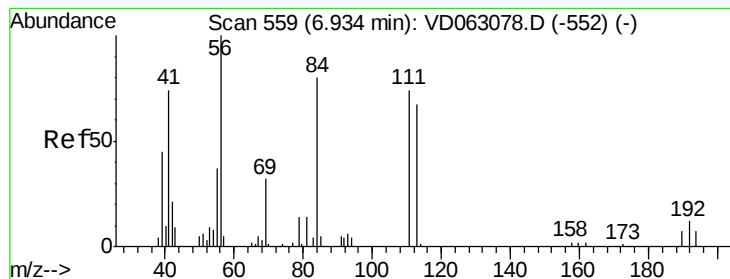
2000

0

Time-->

3.70 3.75 3.80 3.85 3.90





#31

Cyclohexane

Concen: 2.045 ug/l

RT: 7.03 min Scan# 569

Delta R.T. 0.09 min

Lab File: VD063099.D

Acq: 16 Jul 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

DRILLING-MUD

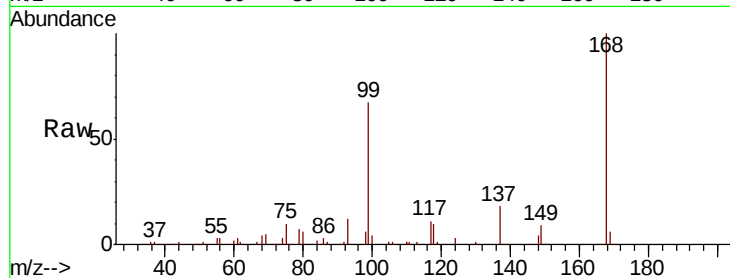
Tgt Ion: 56 Resp: 17161

Ion Ratio Lower Upper

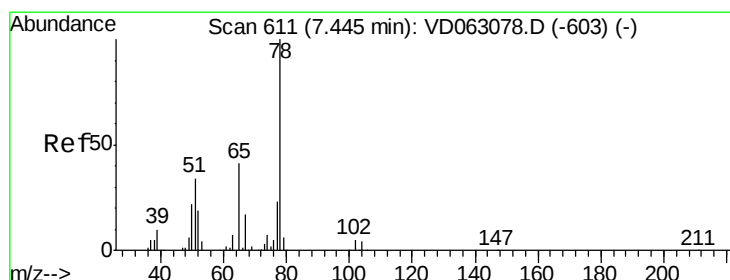
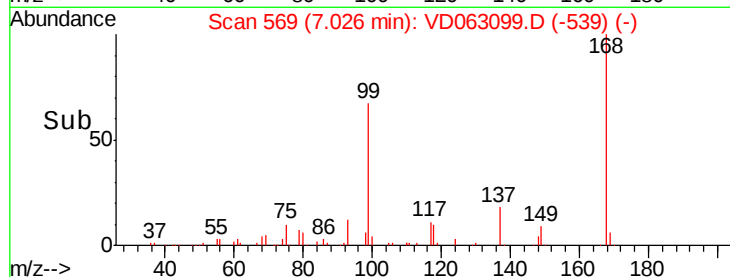
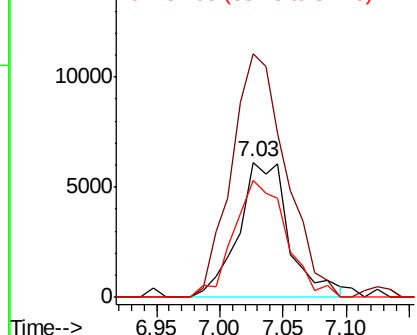
56 100

69 180.5 25.3 37.9#

84 86.6 64.2 96.4



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: 44.556 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.01 min

Lab File: VD063099.D

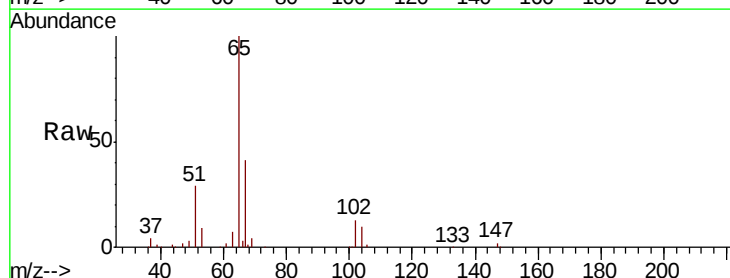
Acq: 16 Jul 2019 11:54

Tgt Ion: 65 Resp: 392707

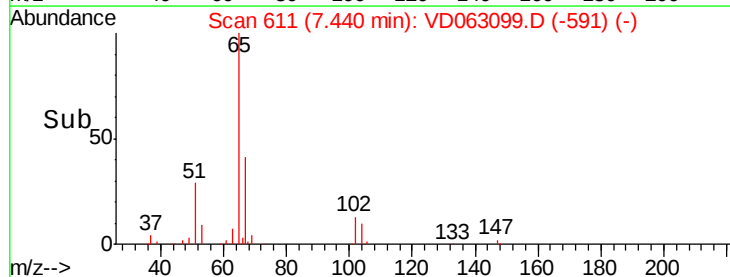
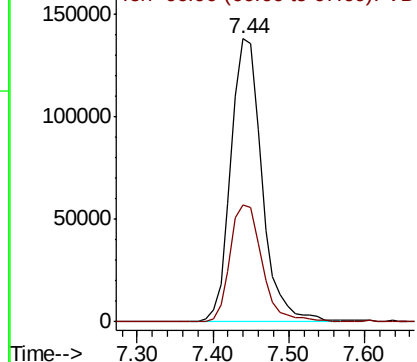
Ion Ratio Lower Upper

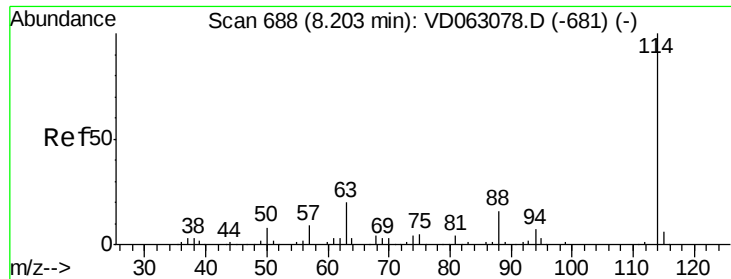
65 100

67 41.3 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

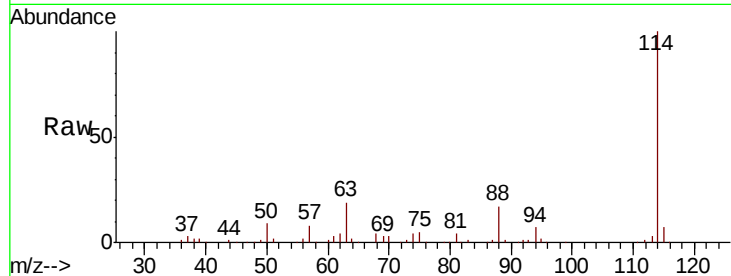




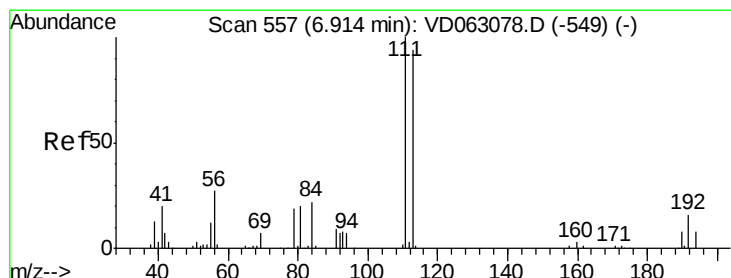
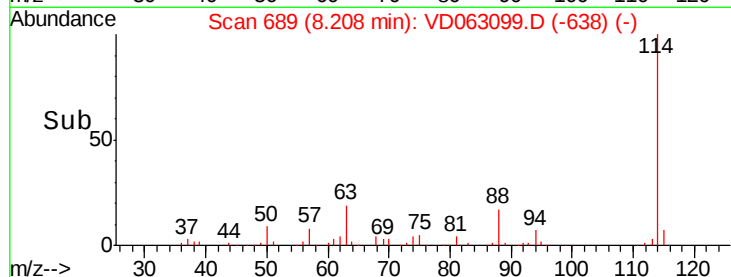
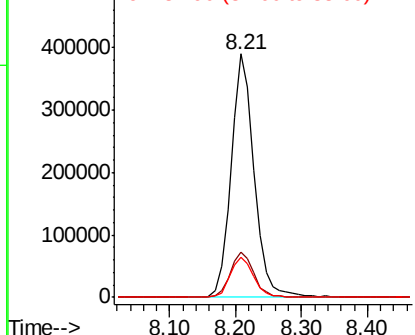
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. 0.00 min
 Lab File: VD063099.D
 Acq: 16 Jul 2019 11:54

Instrument :
 MSVOA_D
 ClientSampleId :
 DRILLING-MUD

Tgt Ion:114 Resp: 956280
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 40.6
 88 16.7 0.0 32.6

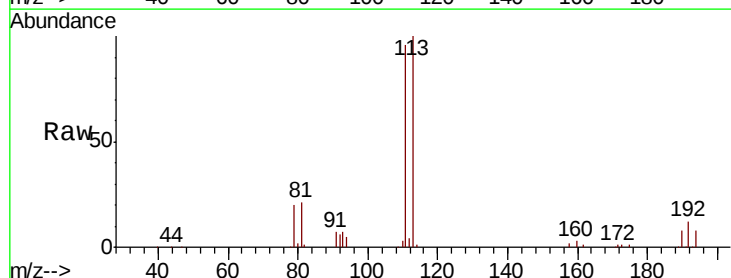


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

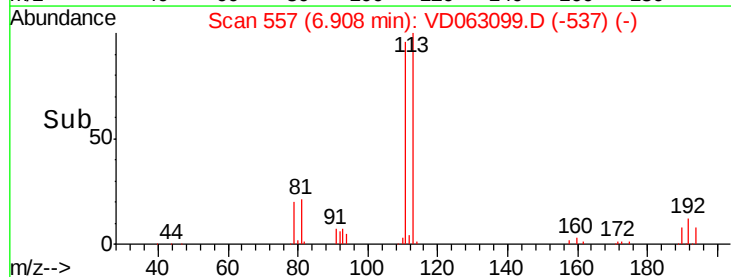
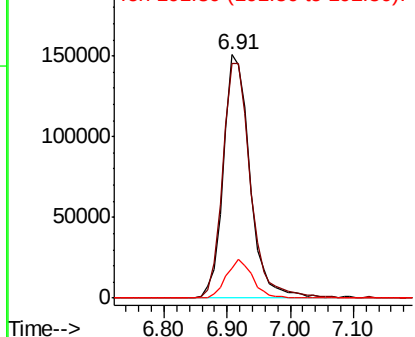


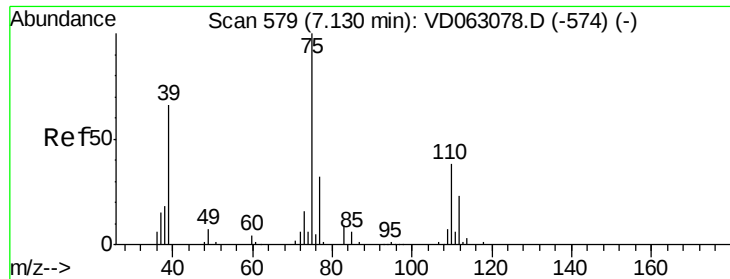
#35
 Dibromofluoromethane
 Concen: 46.290 ug/l
 RT: 6.91 min Scan# 557
 Delta R.T. -0.01 min
 Lab File: VD063099.D
 Acq: 16 Jul 2019 11:54

Tgt Ion:113 Resp: 440900
 Ion Ratio Lower Upper
 113 100
 111 96.1 84.8 127.2
 192 12.1 13.4 20.0#



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

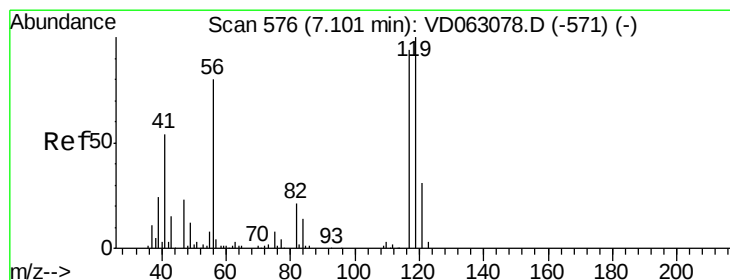
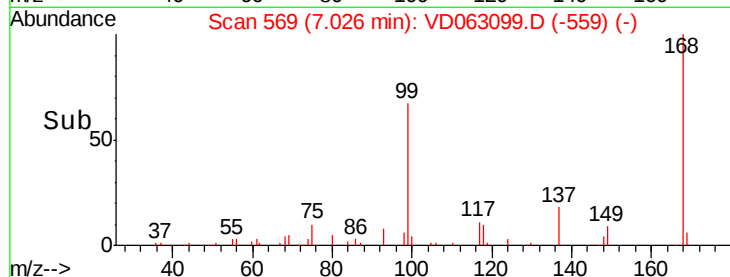
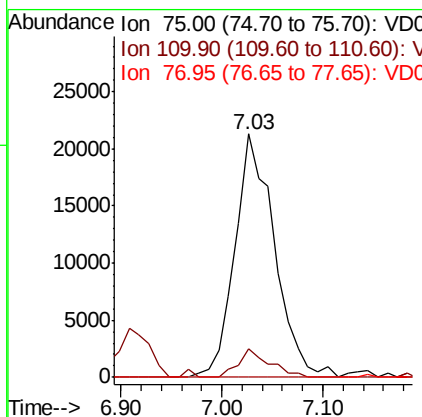
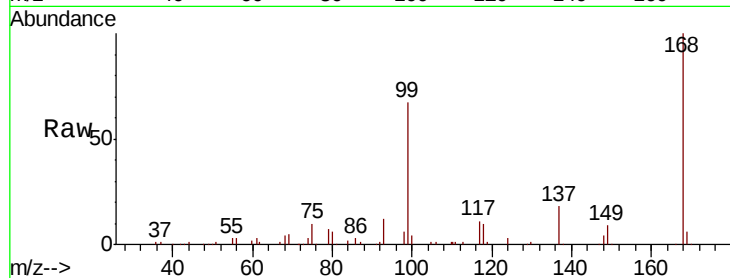




#36
 1,1-Dichloropropene
 Concen: 5.402 ug/l
 RT: 7.03 min Scan# 569
 Delta R.T. -0.10 min
 Lab File: VD063099.D
 Acq: 16 Jul 2019 11:54

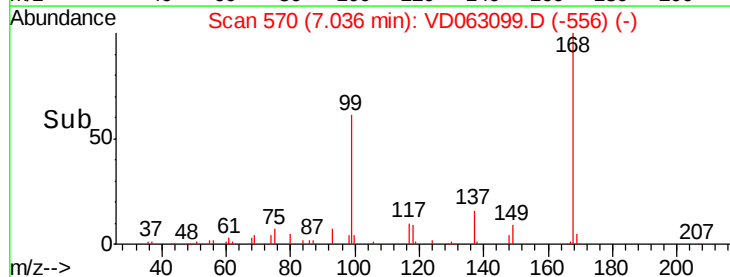
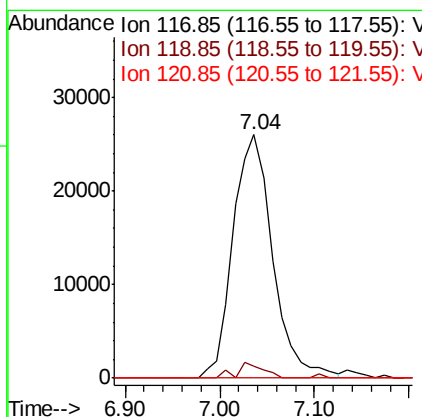
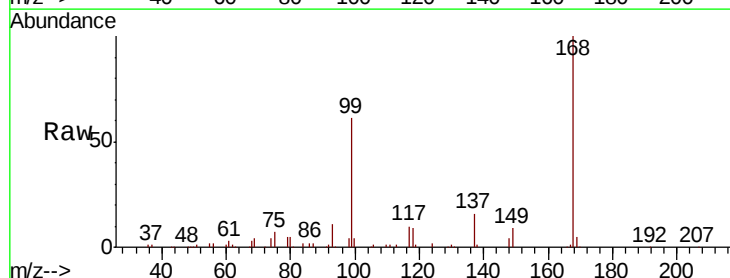
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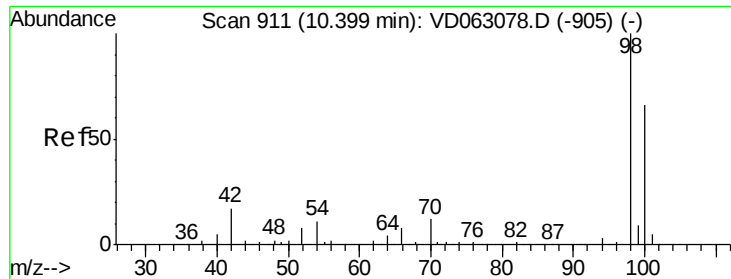
Tgt Ion: 75 Resp: 58102
 Ion Ratio Lower Upper
 75 100
 110 11.6 18.9 56.5#
 77 0.0 25.2 37.8#



#38
 Carbon Tetrachloride
 Concen: 4.622 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.06 min
 Lab File: VD063099.D
 Acq: 16 Jul 2019 11:54

Tgt Ion: 117 Resp: 75540
 Ion Ratio Lower Upper
 117 100
 119 5.0 80.0 120.0#
 121 0.0 25.0 37.4#

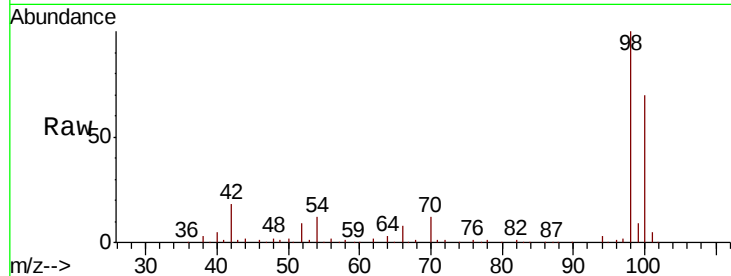




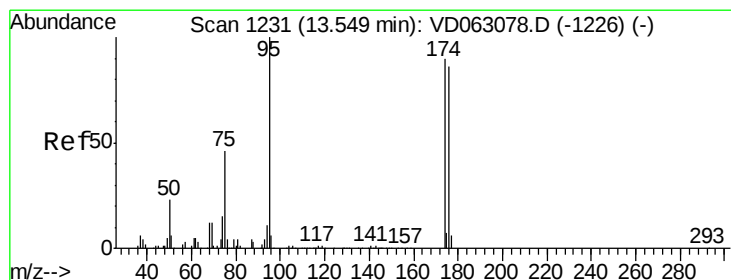
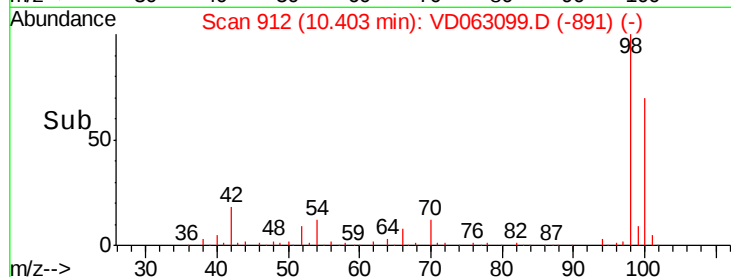
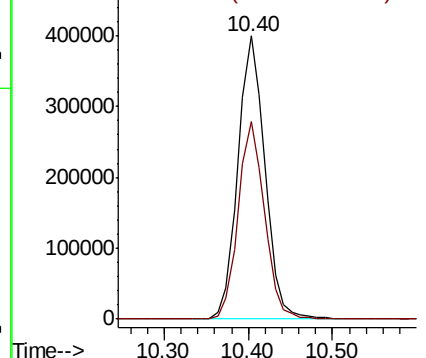
#50
Toluene-d8
Concen: 43.631 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.00 min
Lab File: VD063099.D
Acq: 16 Jul 2019 11:54

Instrument :
MSVOA_D
ClientSampleId :
DRILLING-MUD

Tgt Ion: 98 Resp: 892654
Ion Ratio Lower Upper
98 100
100 69.9 53.5 80.3

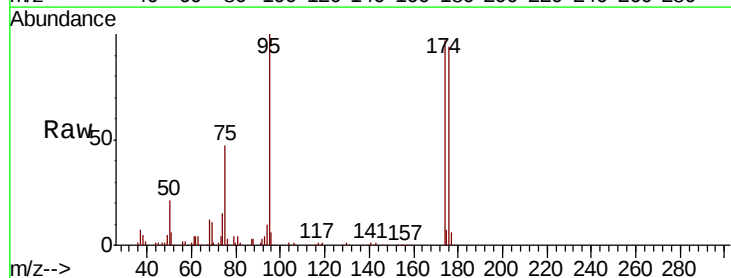


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

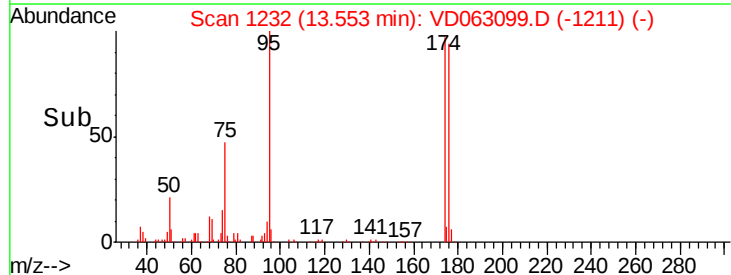
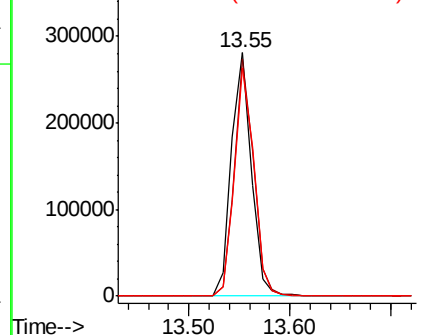


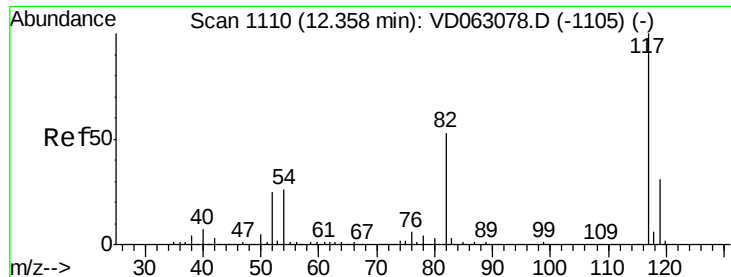
#62
4-Bromofluorobenzene
Concen: 40.666 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD063099.D
Acq: 16 Jul 2019 11:54

Tgt Ion: 95 Resp: 384911
Ion Ratio Lower Upper
95 100
174 97.4 0.0 180.6
176 93.5 0.0 172.2



Abundance Ion 95.00 (94.70 to 95.70): VDC
Ion 173.90 (173.60 to 174.60): VDC
Ion 175.90 (175.60 to 176.60): VDC

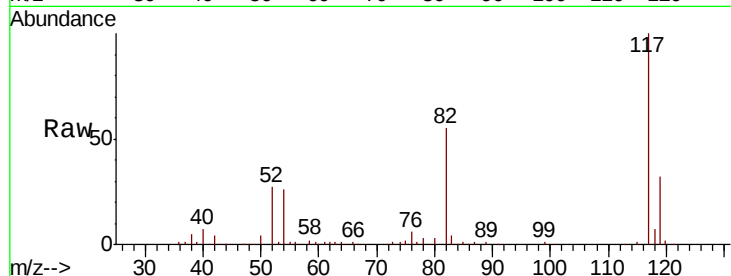




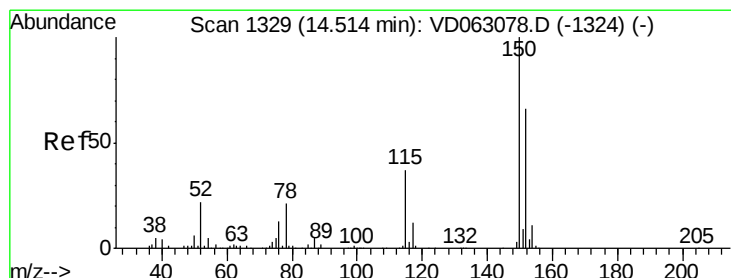
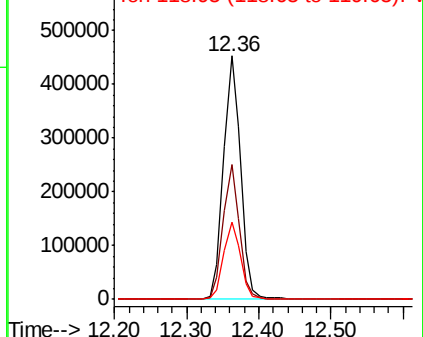
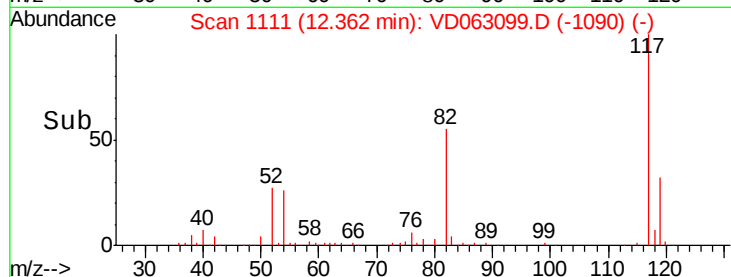
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD063099.D
Acq: 16 Jul 2019 11:54

Instrument :
MSVOA_D
ClientSampleId :
DRILLING-MUD

Tgt Ion:117 Resp: 740271
Ion Ratio Lower Upper
117 100
82 55.2 42.3 63.5
119 31.6 25.2 37.8

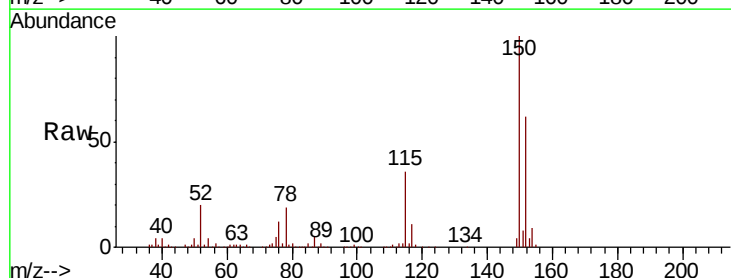


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

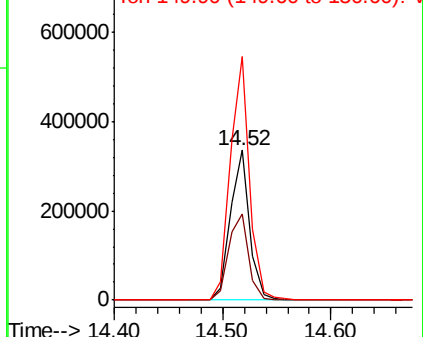
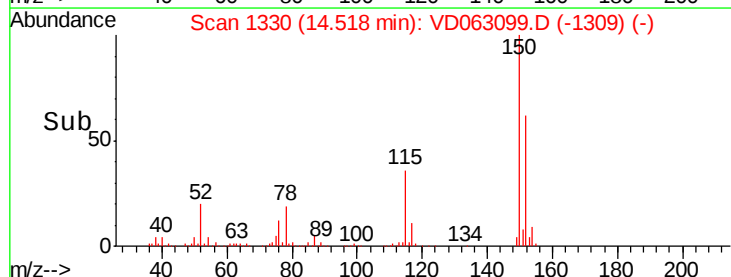


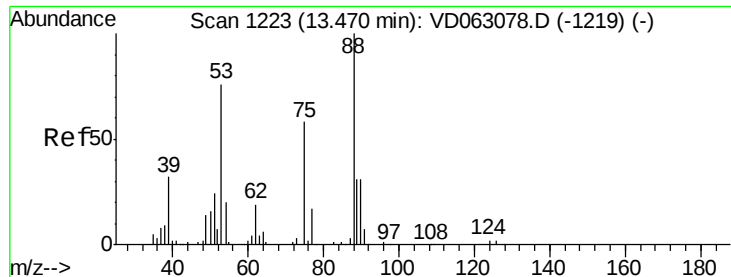
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD063099.D
Acq: 16 Jul 2019 11:54

Tgt Ion:152 Resp: 413740
Ion Ratio Lower Upper
152 100
115 57.9 28.9 86.8
150 162.5 0.0 313.8



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





#81

trans-1,4-Dichloro-2-butene

Concen: 109.500 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD063099.D

Acq: 16 Jul 2019 11:54

Instrument :

MSVOA_D

ClientSampleId :

DRILLING-MUD

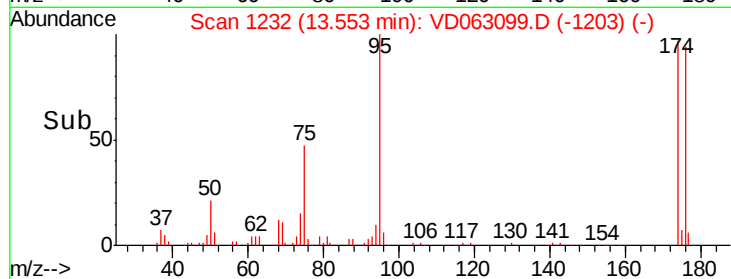
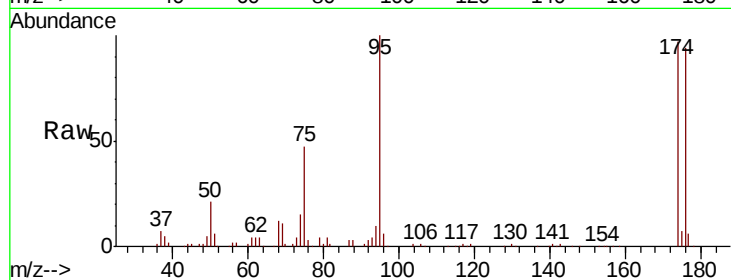
Tgt Ion: 75 Resp: 183523

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#



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

