

Data File : VD060964.D
Acq On : 6 Mar 2019 14:42
Operator : VA/AP
Sample : K1729-02RE
Misc : 4.14g/5ml/MSVOA_D/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
RICH-REC-ROAD-STONE-10RE

Quant Time: Mar 07 05:50:08 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030119S.M
Quant Title : SW846 8260
QLast Update : Sat Mar 02 01:28:28 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	658839	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1132241	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	981922	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	398794	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.46	65	65315	11.99	ug/l	0.01
Spiked Amount	50.000		Recovery	=	23.98%	
35) Dibromofluoromethane	6.93	113	3264	0.36	ug/l	0.01
Spiked Amount	50.000		Recovery	=	0.72%	
50) Toluene-d8	10.41	98	250039	11.07	ug/l	0.01
Spiked Amount	50.000		Recovery	=	22.14%	
62) 4-Bromofluorobenzene	13.55	95	101873	11.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	23.88%	

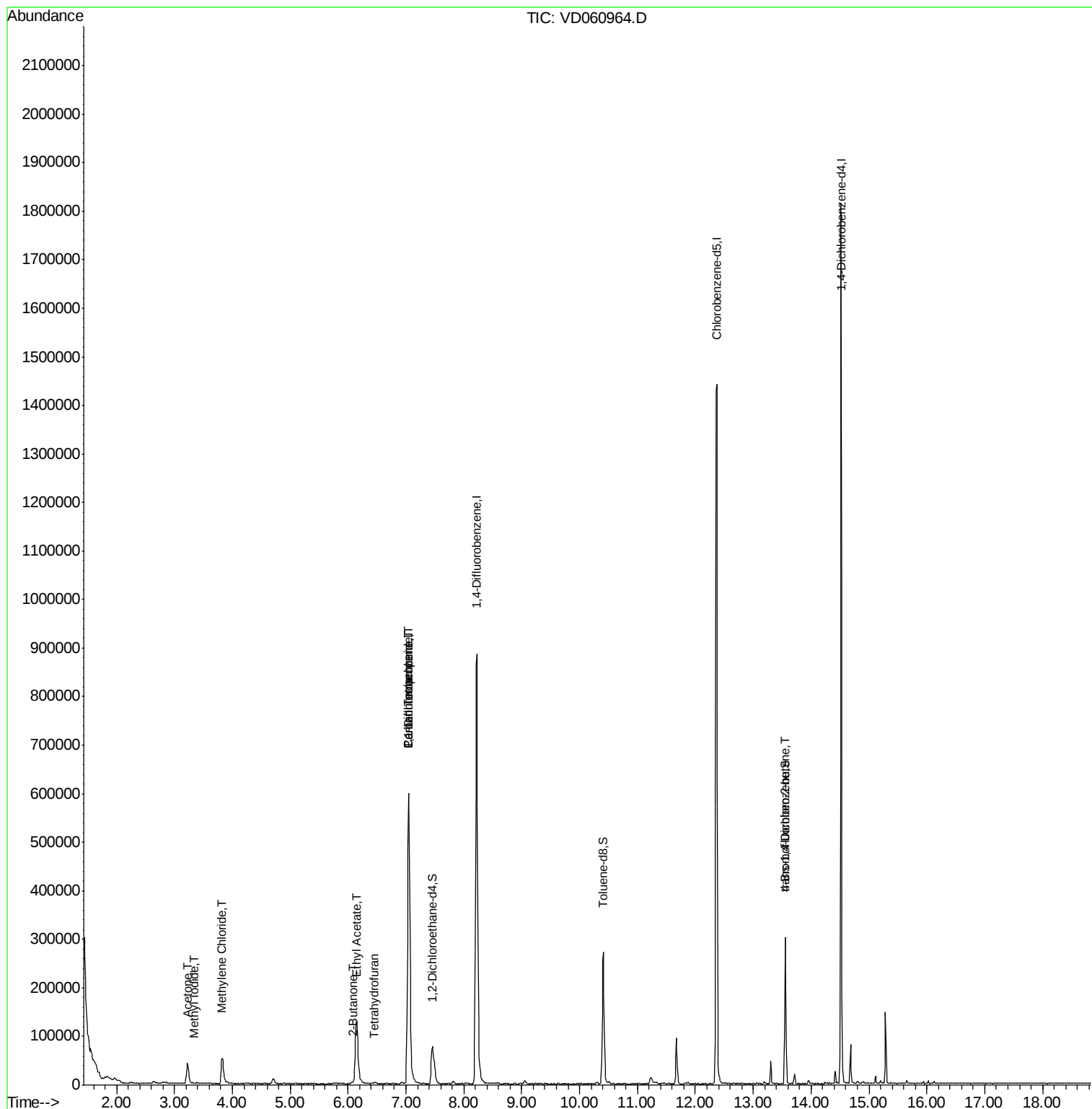
Target Compounds				Qvalue		
10) Methyl Iodide	3.34	142	1524	4.850	ug/l #	40
16) Acetone	3.22	43	80271	44.140	ug/l	99
20) Methylene Chloride	3.81	84	42353	1.376	ug/l	92
25) 2-Butanone	6.08	43	7432	3.294	ug/l #	86
29) Tetrahydrofuran	6.45	42	2364	2.036	ug/l #	57
36) 1,1-Dichloropropene	7.04	75	47215	4.535	ug/l #	46
37) Ethyl Acetate	6.14	43	8079	1.510	ug/l #	1
38) Carbon Tetrachloride	7.05	117	62041	5.547	ug/l #	14
81) trans-1,4-Dichloro-2-buten	13.55	75	36459	19.065	ug/l #	20
89) n-Butylbenzene	14.80	91	1448	Below Cal	#	83

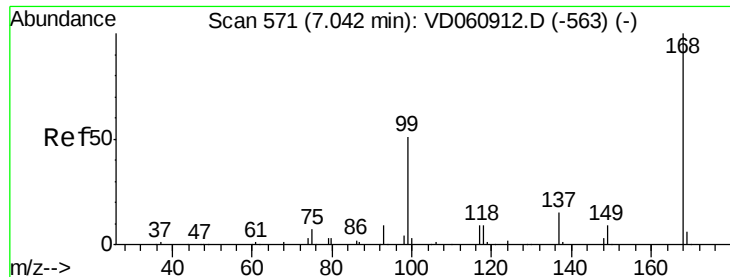
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.00 min

Lab File: VD060964.D

Acq: 6 Mar 2019 14:42

Instrument :

MSVOA_D

ClientSampleId :

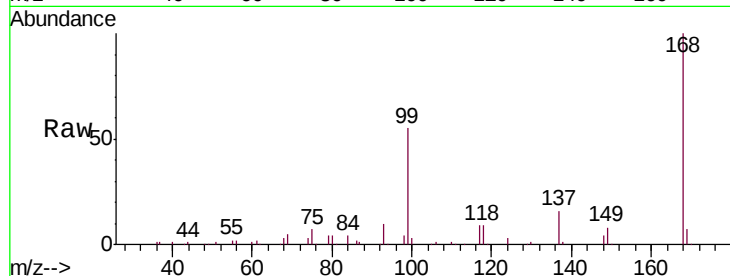
RICH-REC-ROAD-STONE-10RE

Tgt Ion:168 Resp: 658839

Ion Ratio Lower Upper

168 100

99 55.2 41.5 62.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

250000

200000

150000

100000

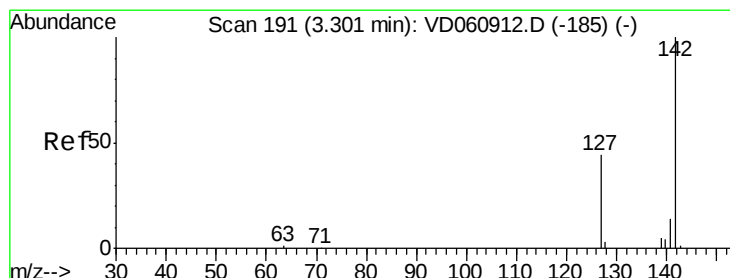
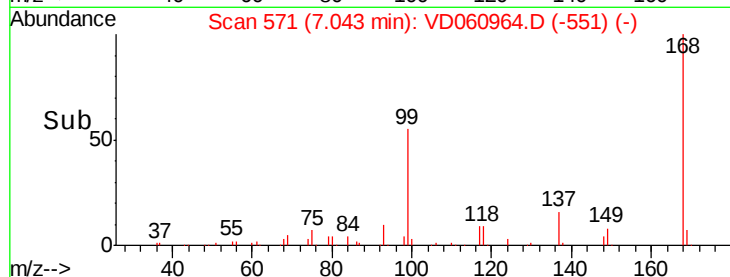
50000

0

7.04

6.90 7.00 7.10 7.20

Time-->



#10

Methyl Iodide

Concen: 4.850 ug/l

RT: 3.34 min Scan# 195

Delta R.T. 0.04 min

Lab File: VD060964.D

Acq: 6 Mar 2019 14:42

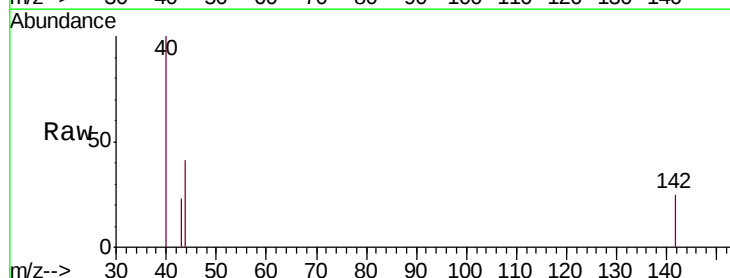
Tgt Ion:142 Resp: 1524

Ion Ratio Lower Upper

142 100

127 0.0 35.0 52.6#

141 0.0 11.0 16.4#



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

800

600

400

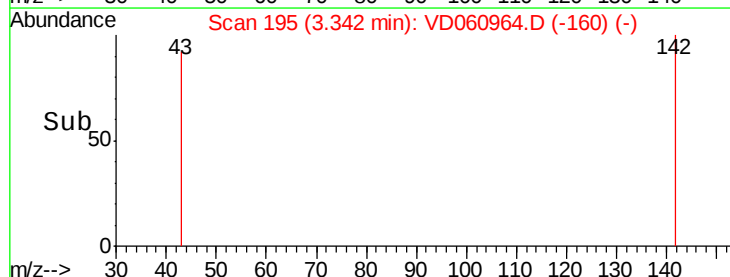
200

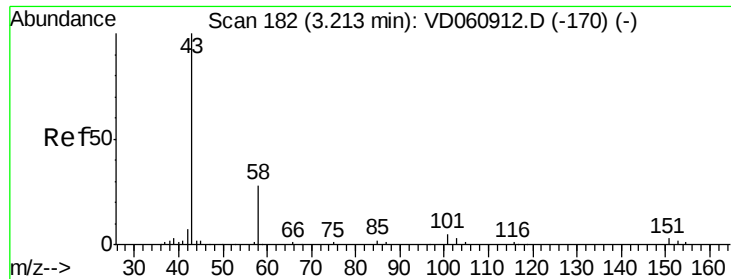
0

3.34

3.25 3.30 3.35 3.40

Time-->





#16

Acetone

Concen: 44.140 ug/l

RT: 3.22 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD060964.D

Acq: 6 Mar 2019 14:42

Instrument :

MSVOA_D

ClientSampleId :

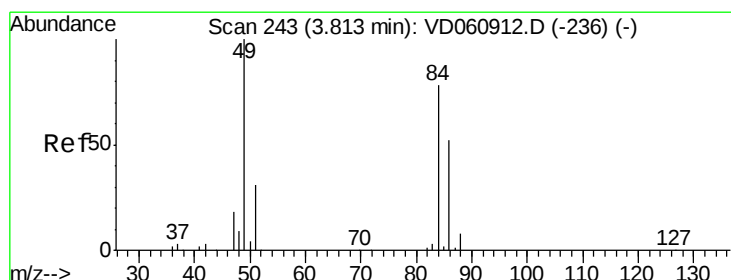
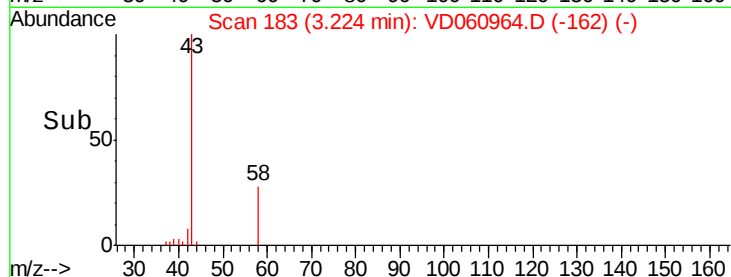
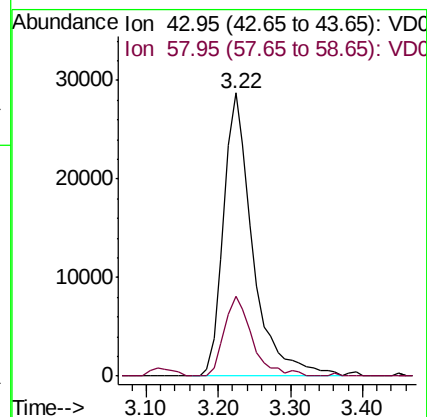
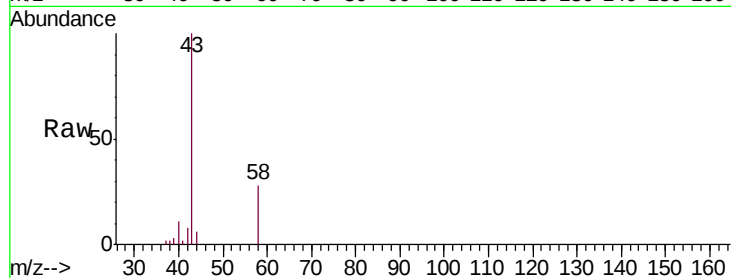
RICH-REC-ROAD-STONE-10RE

Tgt Ion: 43 Resp: 80271

Ion Ratio Lower Upper

43 100

58 28.1 22.8 34.2



#20

Methylene Chloride

Concen: 1.376 ug/l

RT: 3.81 min Scan# 243

Delta R.T. 0.00 min

Lab File: VD060964.D

Acq: 6 Mar 2019 14:42

Tgt Ion: 84 Resp: 42353

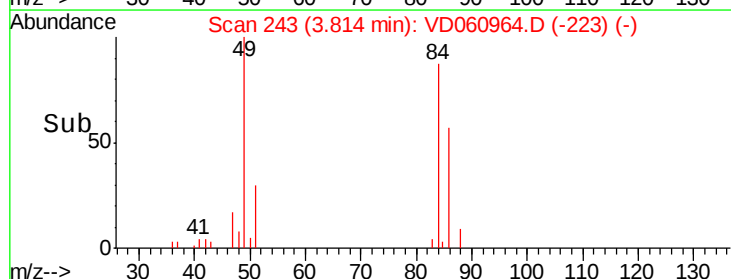
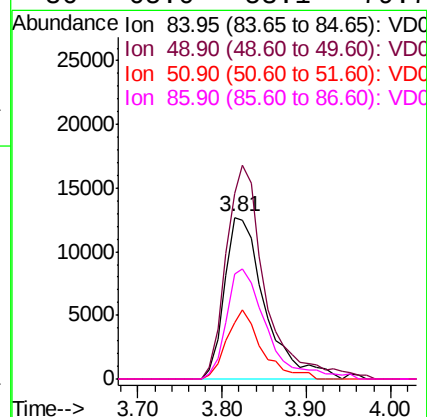
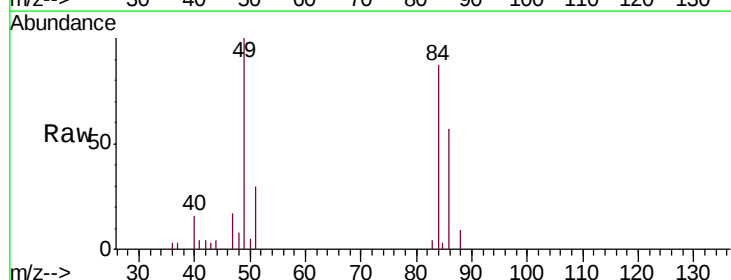
Ion Ratio Lower Upper

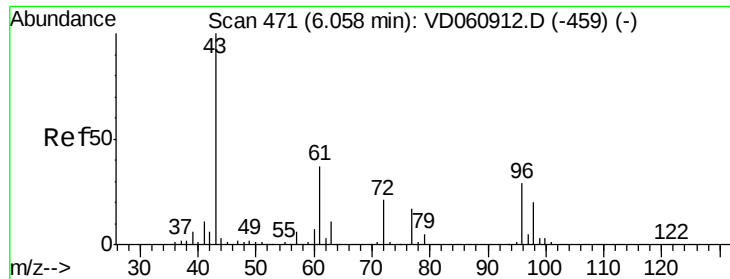
84 100

49 114.8 102.4 153.6

51 34.7 31.9 47.9

86 65.0 53.1 79.7

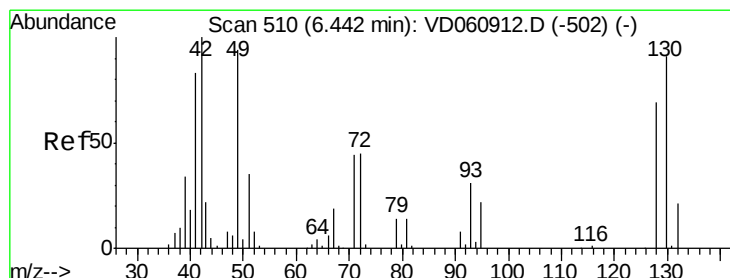
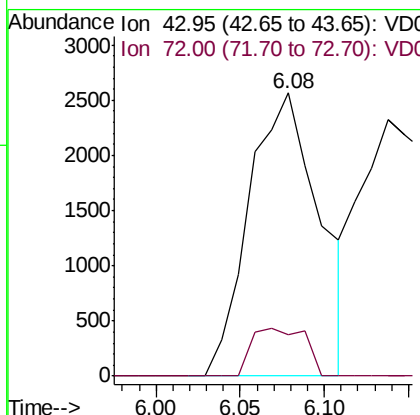
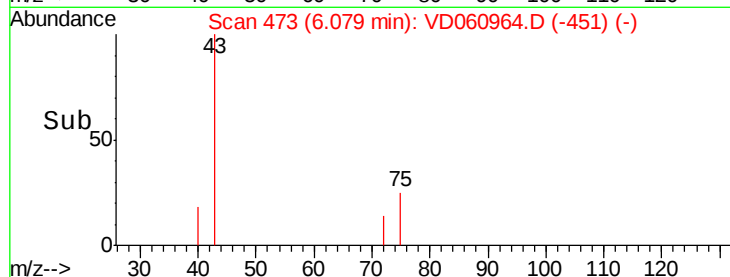
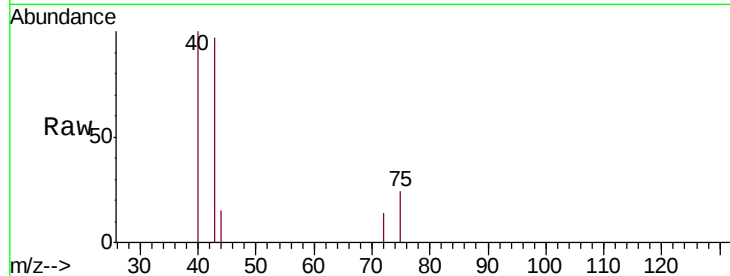




#25
2-Butanone
Concen: 3.294 ug/l
RT: 6.08 min Scan# 473
Delta R.T. 0.02 min
Lab File: VD060964.D
Acq: 6 Mar 2019 14:42

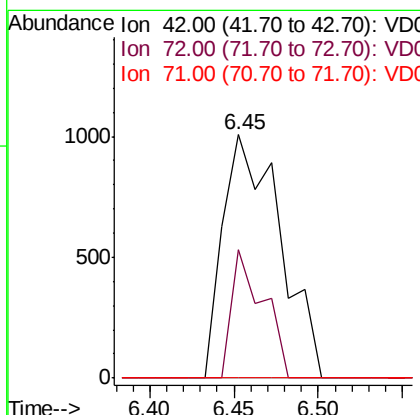
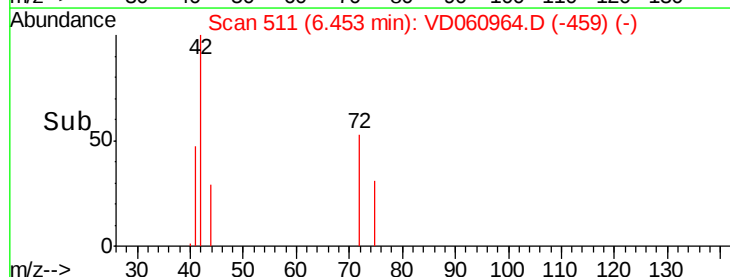
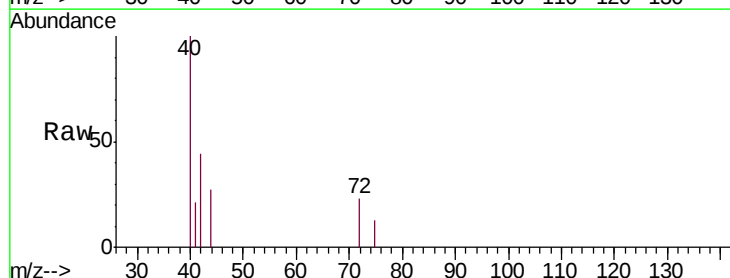
Instrument :
MSVOA_D
ClientSampleId :
RICH-REC-ROAD-STONE-10RE

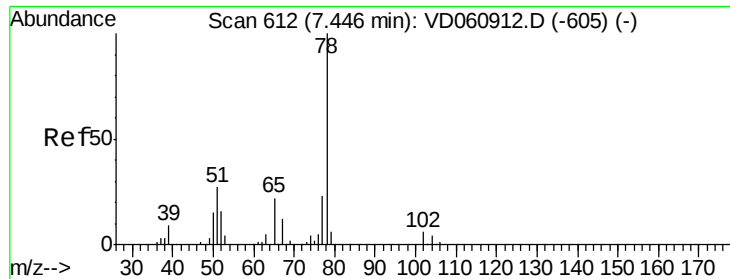
Tgt Ion: 43 Resp: 7432
Ion Ratio Lower Upper
43 100
72 14.5 17.0 25.4#



#29
Tetrahydrofuran
Concen: 2.036 ug/l
RT: 6.45 min Scan# 511
Delta R.T. 0.01 min
Lab File: VD060964.D
Acq: 6 Mar 2019 14:42

Tgt Ion: 42 Resp: 2364
Ion Ratio Lower Upper
42 100
72 29.3 33.8 50.6#
71 0.0 33.5 50.3#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD060964.D

Acq: 6 Mar 2019 14:42

Instrument :

MSVOA_D

ClientSampleId :

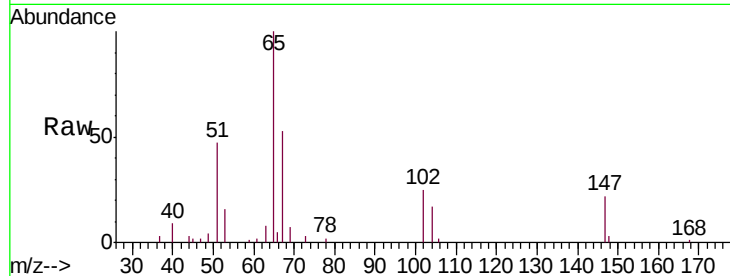
RICH-REC-ROAD-STONE-10RE

Tgt Ion: 65 Resp: 65315

Ion Ratio Lower Upper

65 100

67 52.7 0.0 109.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.46

25000

20000

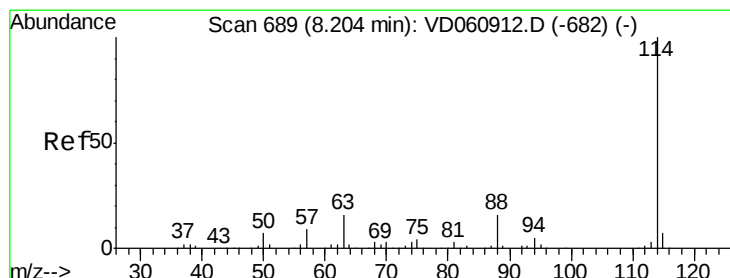
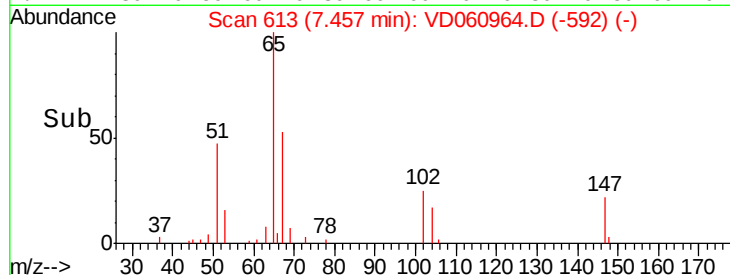
15000

10000

5000

0

Time--> 7.30 7.40 7.50 7.60



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 691

Delta R.T. 0.02 min

Lab File: VD060964.D

Acq: 6 Mar 2019 14:42

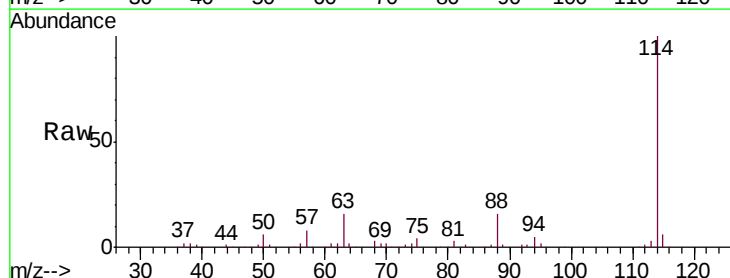
Tgt Ion: 114 Resp: 1132241

Ion Ratio Lower Upper

114 100

63 15.5 0.0 32.0

88 15.6 0.0 32.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

600000

500000

400000

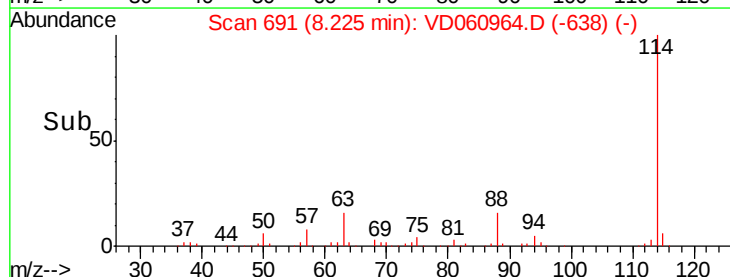
300000

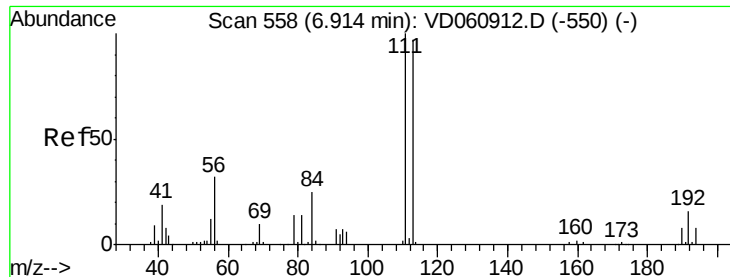
200000

100000

0

Time--> 8.00 8.20 8.40 8.60





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD060964.D

Acq: 6 Mar 2019 14:42

Instrument :

MSVOA_D

ClientSampleId :

RICH-REC-ROAD-STONE-10RE

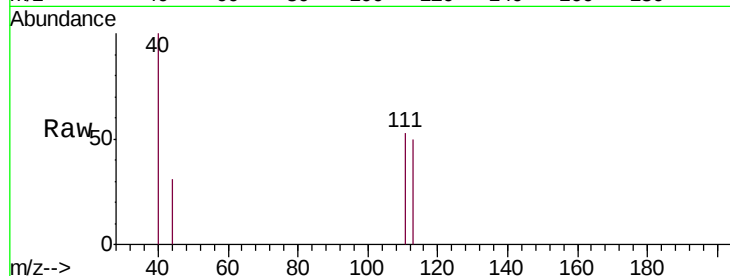
Tgt Ion:113 Resp: 3264

Ion Ratio Lower Upper

113 100

111 105.4 82.6 124.0

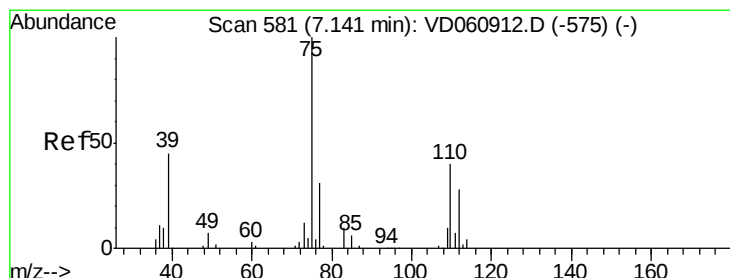
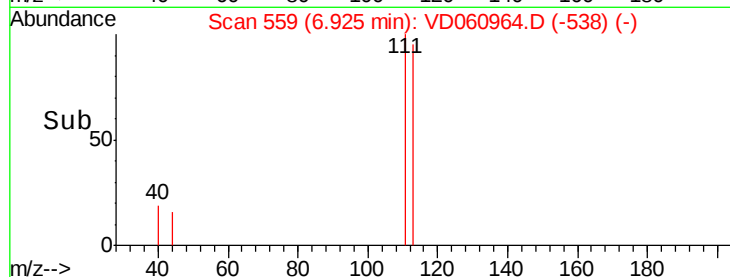
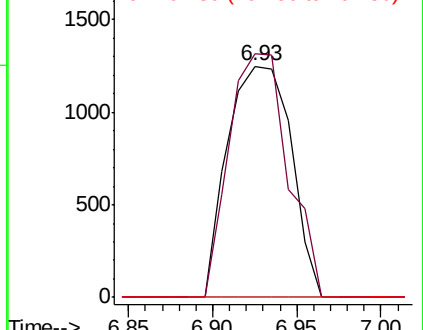
192 0.0 13.4 20.2#



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: 4.535 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD060964.D

Acq: 6 Mar 2019 14:42

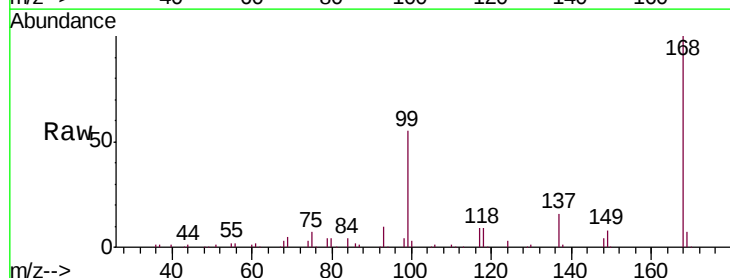
Tgt Ion: 75 Resp: 47215

Ion Ratio Lower Upper

75 100

110 8.3 19.9 59.7#

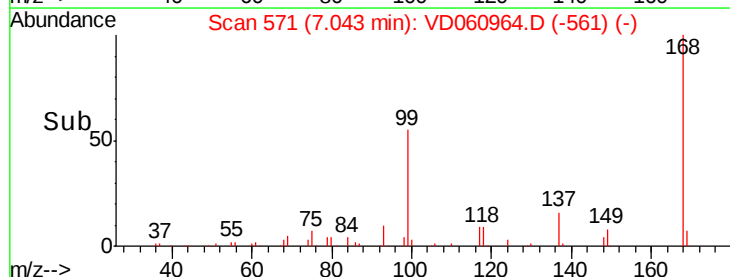
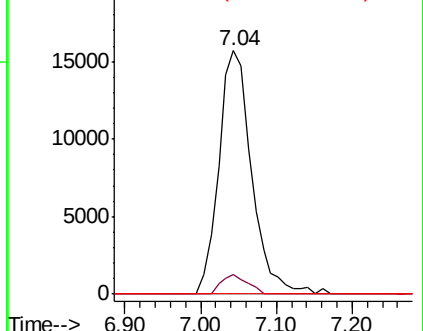
77 0.0 25.0 37.6#

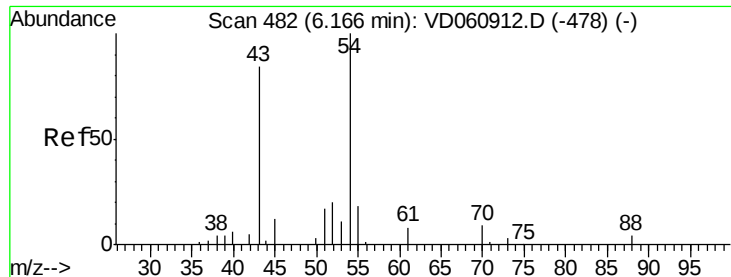


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

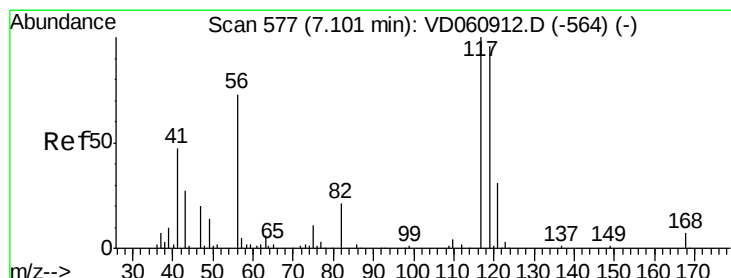
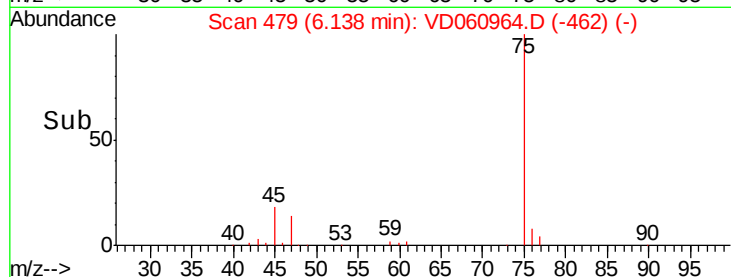
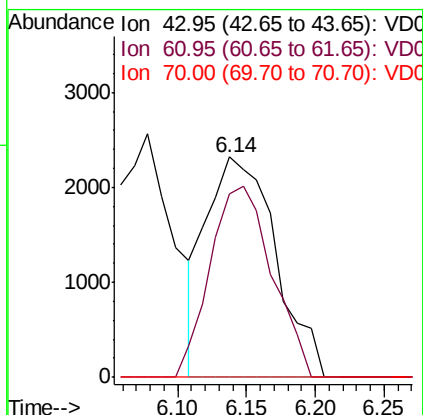
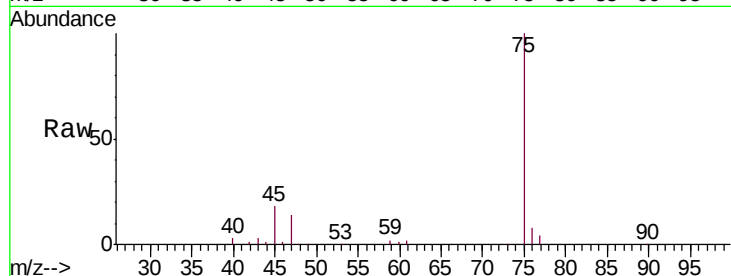




#37
Ethyl Acetate
Concen: 1.510 ug/l
RT: 6.14 min Scan# 479
Delta R.T. -0.03 min
Lab File: VD060964.D
Acq: 6 Mar 2019 14:42

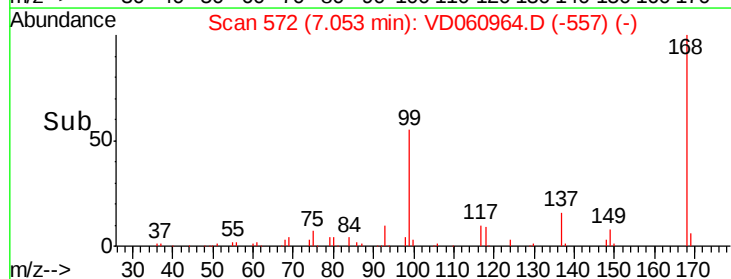
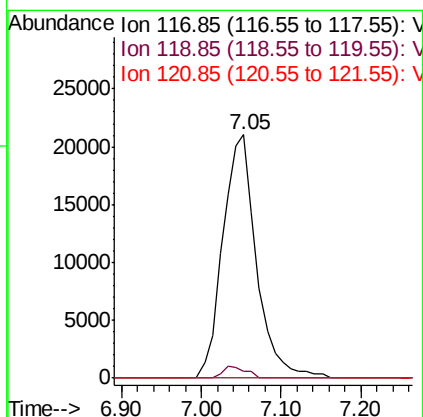
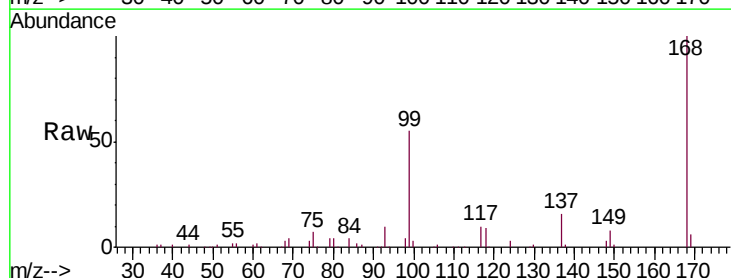
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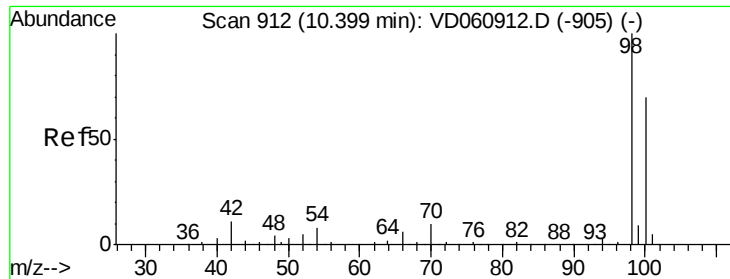
Tgt Ion: 43 Resp: 8079
Ion Ratio Lower Upper
43 100
61 83.2 12.1 18.1#
70 0.0 7.3 10.9#



#38
Carbon Tetrachloride
Concen: 5.547 ug/l
RT: 7.05 min Scan# 572
Delta R.T. -0.05 min
Lab File: VD060964.D
Acq: 6 Mar 2019 14:42

Tgt Ion: 117 Resp: 62041
Ion Ratio Lower Upper
117 100
119 2.9 76.9 115.3#
121 0.0 24.5 36.7#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD060964.D

Acq: 6 Mar 2019 14:42

Instrument :

MSVOA_D

ClientSampleId :

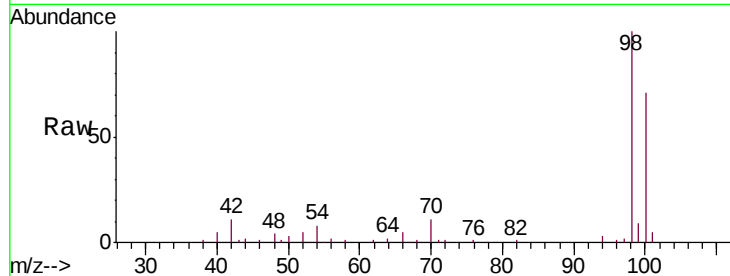
RICH-REC-ROAD-STONE-10RE

Tgt Ion: 98 Resp: 250039

Ion Ratio Lower Upper

98 100

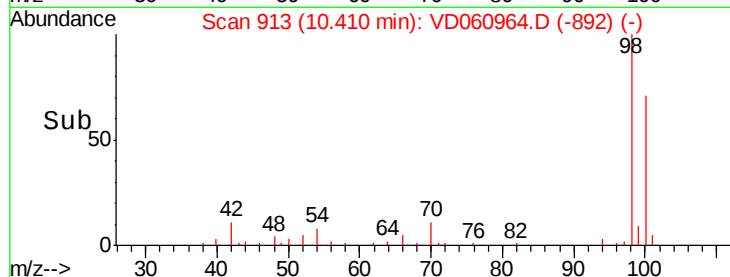
100 71.4 57.0 85.4



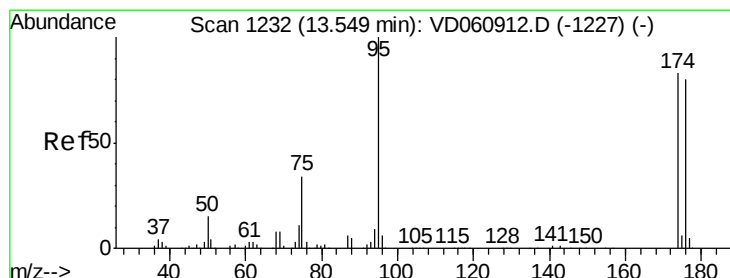
Abundance Ion 98.05 (97.75 to 98.75): VD060912.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD060912.D (-905) (-)

10.41



Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD060964.D

Acq: 6 Mar 2019 14:42

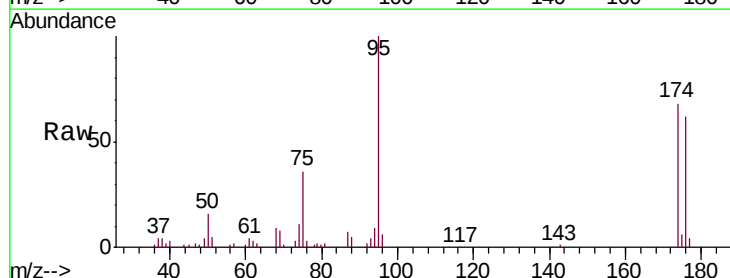
Tgt Ion: 95 Resp: 101873

Ion Ratio Lower Upper

95 100

174 67.6 0.0 165.6

176 62.4 0.0 160.6

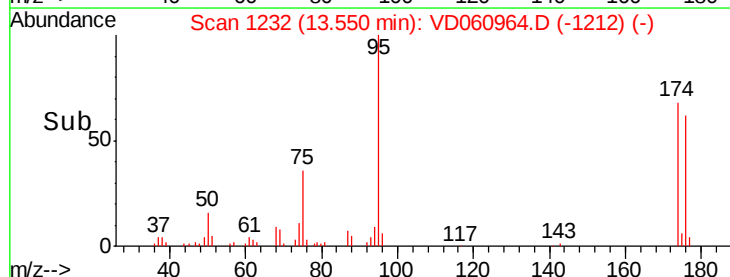


Abundance Ion 95.00 (94.70 to 95.70): VD060912.D (-1227) (-)

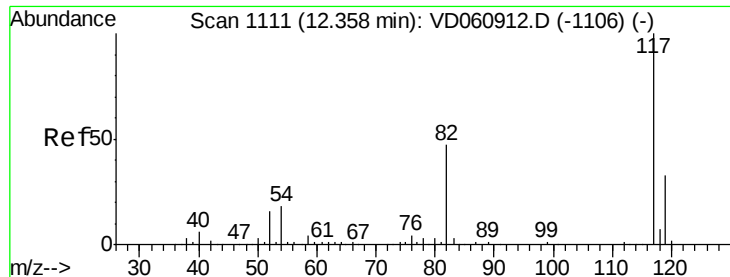
Ion 173.90 (173.60 to 174.60): VD060912.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD060912.D (-1227) (-)

13.55



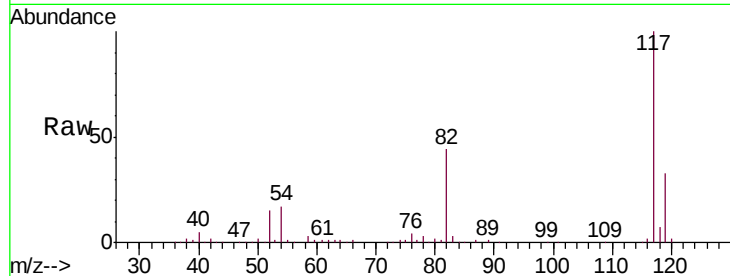
Time-->



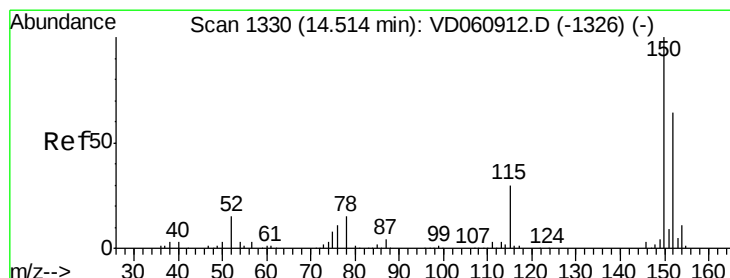
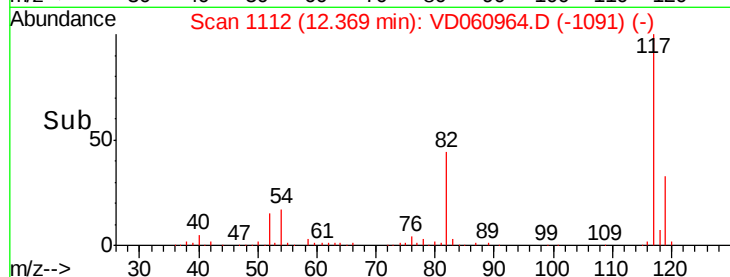
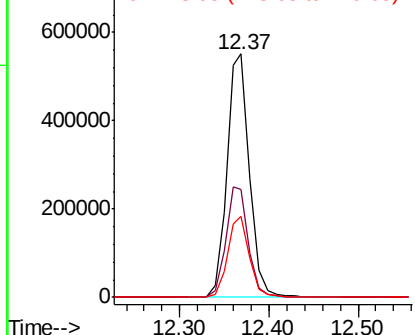
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD060964.D
Acq: 6 Mar 2019 14:42

Instrument :
MSVOA_D
ClientSampleId :
RICH-REC-ROAD-STONE-10RE

Tgt Ion:117 Resp: 981922
Ion Ratio Lower Upper
117 100
82 44.2 37.5 56.3
119 33.1 26.2 39.2

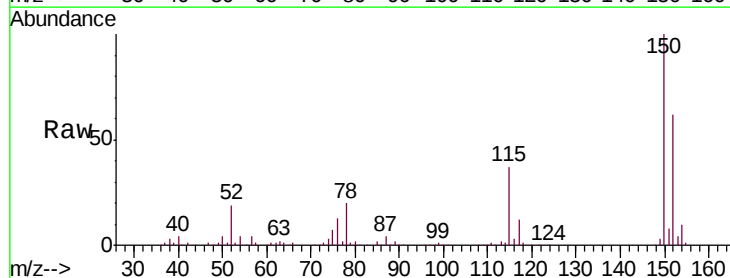


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

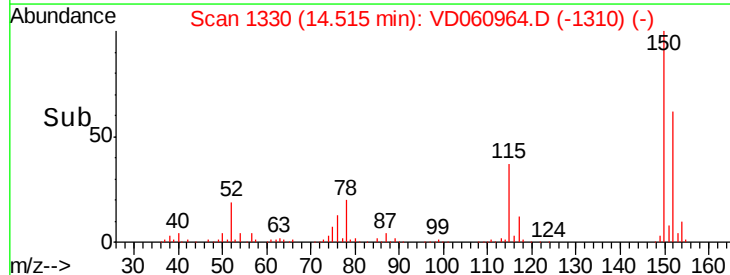
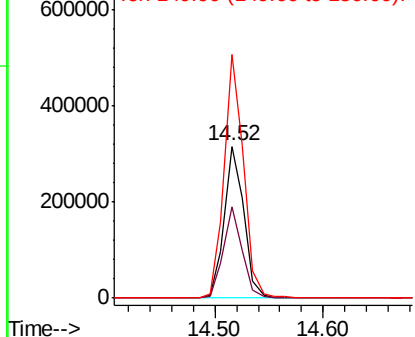


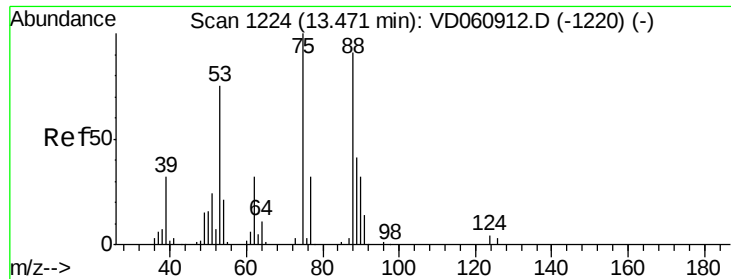
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD060964.D
Acq: 6 Mar 2019 14:42

Tgt Ion:152 Resp: 398794
Ion Ratio Lower Upper
152 100
115 60.1 27.6 82.8
150 160.4 0.0 312.8



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: 19.065 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD060964.D

Acq: 6 Mar 2019 14:42

Instrument :

MSVOA_D

ClientSampleId :

RICH-REC-ROAD-STONE-10RE

Tgt Ion: 75 Resp: 36459

Ion Ratio Lower Upper

75 100

53 0.0 59.8 89.6#

89 0.0 33.0 49.6#

