

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121118\
 Data File : VD060537.D
 Acq On : 11 Dec 2018 15:59
 Operator : VA/AP
 Sample : J6342-02
 Misc : 4.06g/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RICH-REC-ROAD-STONE-8

Quant Time: Dec 12 03:13:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	1547298	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.45	114	2196553	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.28	117	1736649	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	820348	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.79	65	465958	42.49	ug/l	0.00
Spiked Amount			Recovery	=	84.98%	
35) Dibromofluoromethane	6.32	113	59515	3.69	ug/l	0.00
Spiked Amount			Recovery	=	7.38%	
50) Toluene-d8	9.46	98	1724591	36.94	ug/l	0.00
Spiked Amount			Recovery	=	73.88%	
62) 4-Bromofluorobenzene	12.43	95	617318	36.95	ug/l	0.00
Spiked Amount			Recovery	=	73.90%	

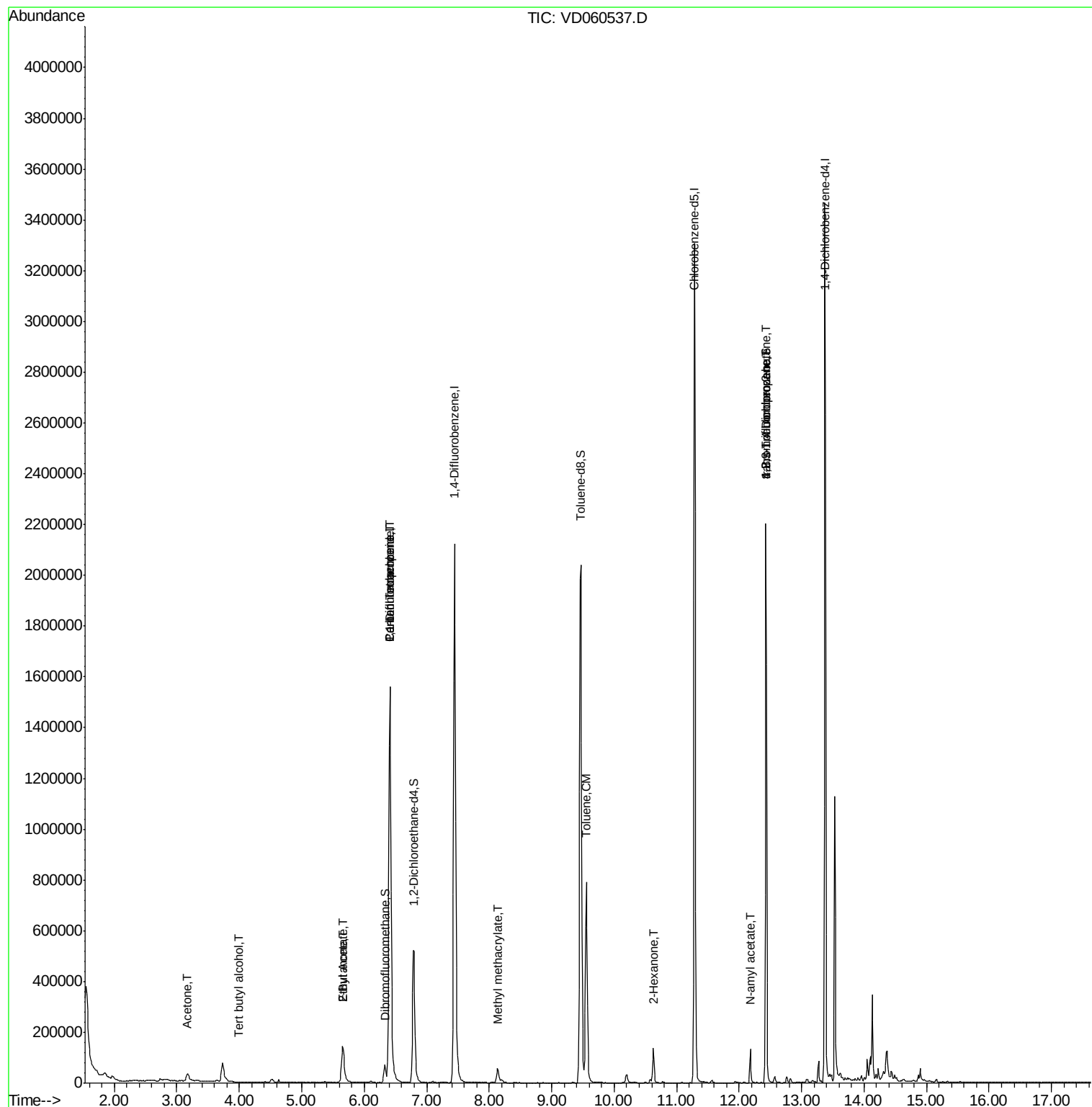
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.60	85	183	Below Cal	#	41
11) Tert butyl alcohol	3.98	59	1278	2.868	ug/l #	73
16) Acetone	3.18	43	71800	40.843	ug/l	99
20) Methylene Chloride	3.74	84	49773	Below Cal		95
25) 2-Butanone	5.65	43	20384	5.894	ug/l #	88
31) Cyclohexane	6.40	56	28904	Below Cal	#	1
36) 1,1-Dichloropropene	6.41	75	116579	5.430	ug/l #	46
37) Ethyl Acetate	5.65	43	20384	2.189	ug/l #	55
38) Carbon Tetrachloride	6.41	117	120837	6.269	ug/l #	16
48) Methyl methacrylate	8.14	41	13781	2.026	ug/l #	53
52) Toluene	9.55	92	403202	11.756	ug/l	96
59) 2-Hexanone	10.63	43	24450	4.892	ug/l #	58
74) N-amyl acetate	12.18	43	19327	1.378	ug/l #	1
76) 1,2,3-Trichloropropane	12.43	75	200406	21.561	ug/l #	45
81) trans-1,4-Dichloro-2-buten	12.43	75	252156	97.266	ug/l #	14
89) n-Butylbenzene	13.65	91	2112	Below Cal	#	63

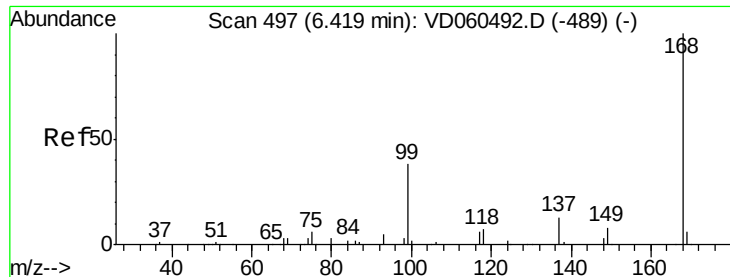
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 497

Delta R.T. -0.01 min

Lab File: VD060537.D

Acq: 11 Dec 2018 15:59

Instrument :

MSVOA_D

ClientSampleId :

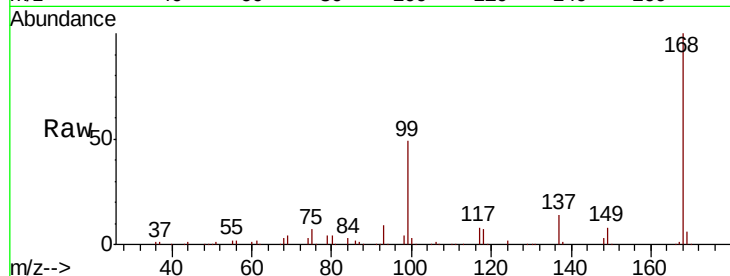
RICH-REC-ROAD-STONE-8

Tot Ion:168 Resp: 1547298

Ion Ratio Lower Upper

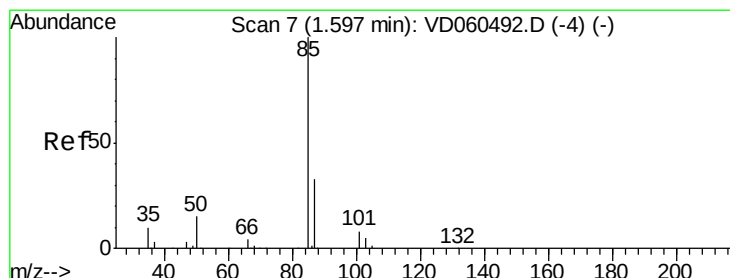
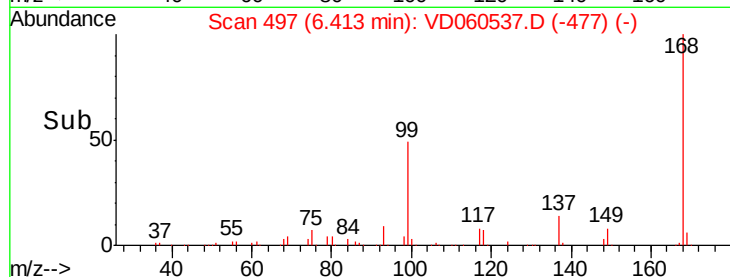
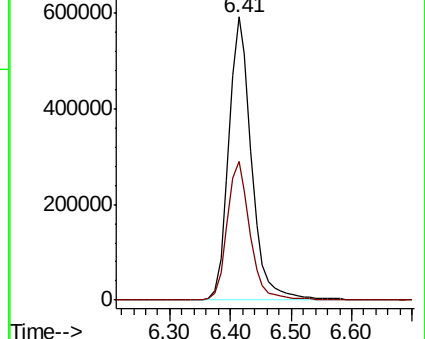
168 100

99 49.1 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.60 min Scan# 8

Delta R.T. 0.00 min

Lab File: VD060537.D

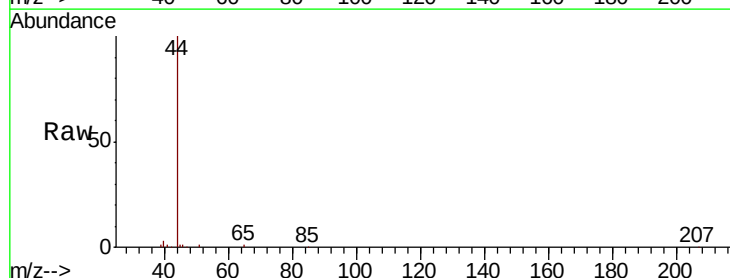
Acq: 11 Dec 2018 15:59

Tgt Ion: 85 Resp: 183

Ion Ratio Lower Upper

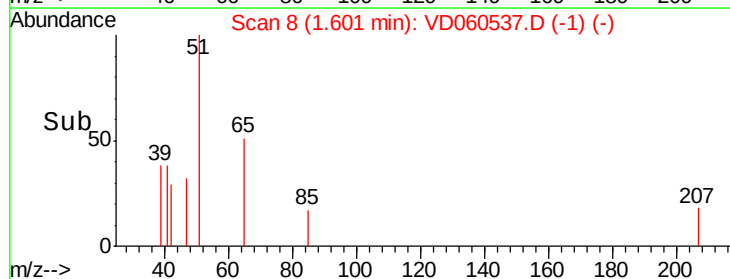
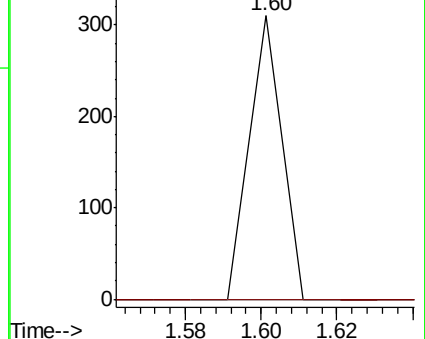
85 100

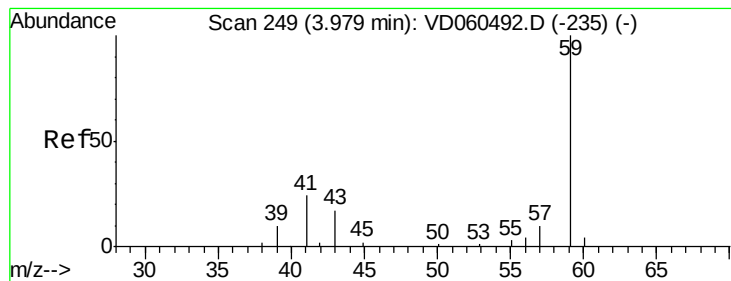
87 0.0 16.7 50.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC



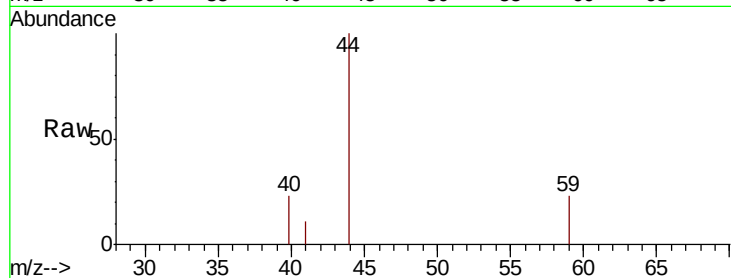


#11

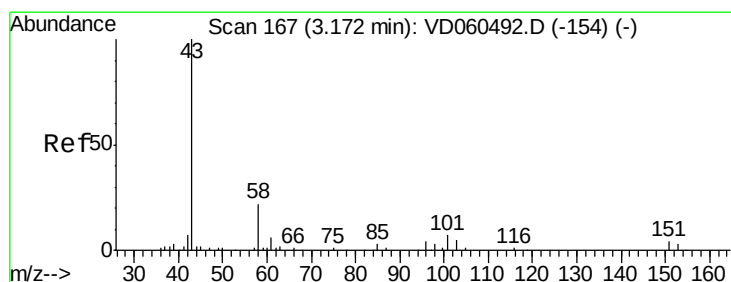
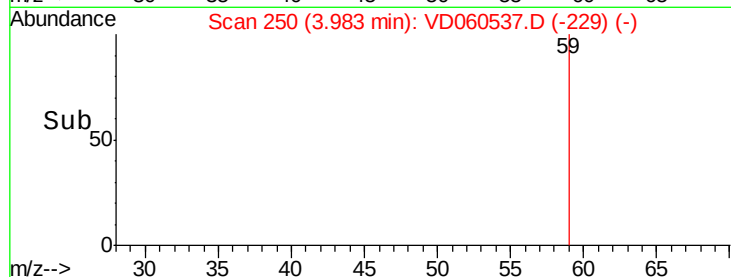
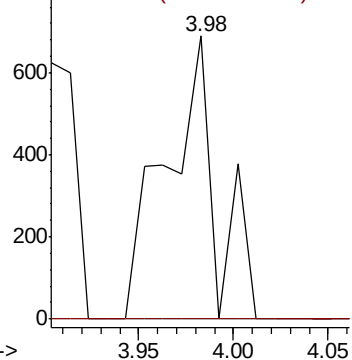
Tert butyl alcohol
 Concen: 2.868 ug/l
 RT: 3.98 min Scan# 250
 Delta R.T. 0.00 min
 Lab File: VD060537.D
 Acq: 11 Dec 2018 15:59

Instrument :
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 ClientSampleId :
 RICH-REC-ROAD-STONE-8

Tot Ion: 59 Resp: 1278
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.1 12.1#



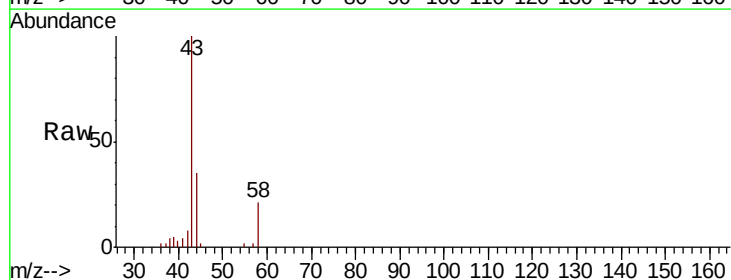
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



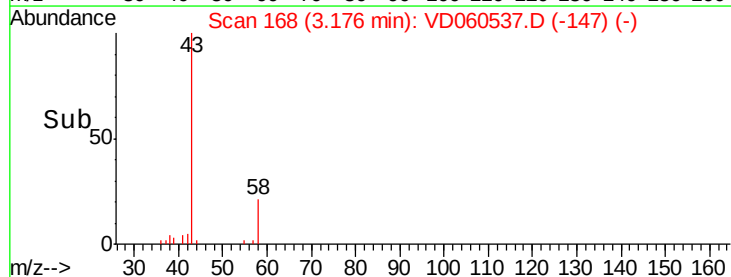
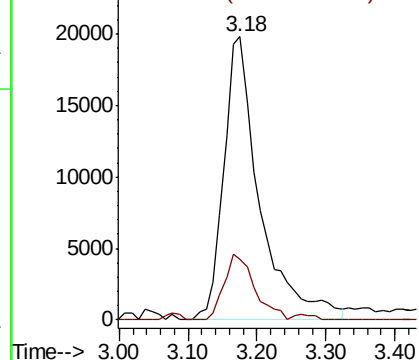
#16

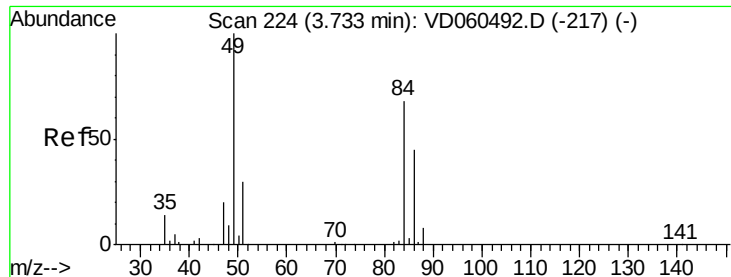
Acetone
 Concen: 40.843 ug/l
 RT: 3.18 min Scan# 168
 Delta R.T. 0.00 min
 Lab File: VD060537.D
 Acq: 11 Dec 2018 15:59

Tgt Ion: 43 Resp: 71800
 Ion Ratio Lower Upper
 43 100
 58 21.2 17.3 25.9



Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 57.95 (57.65 to 58.65): VDC

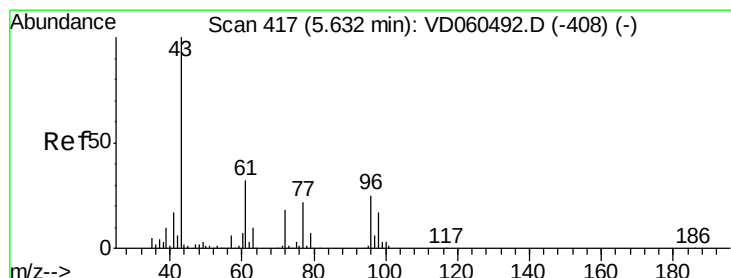
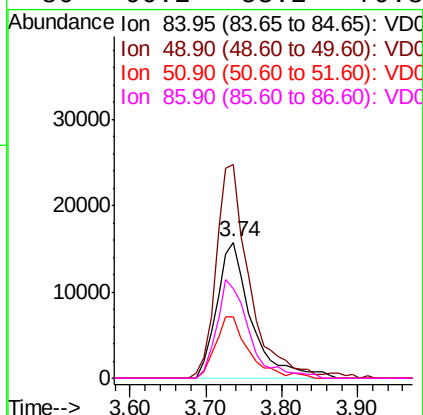
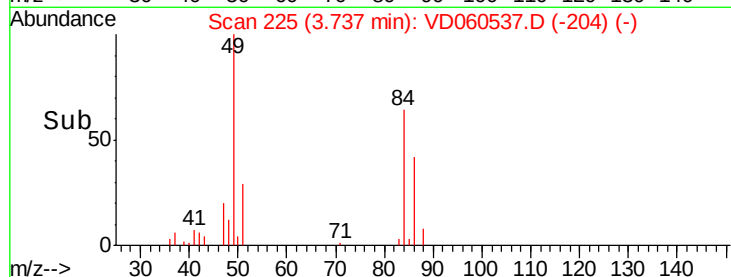
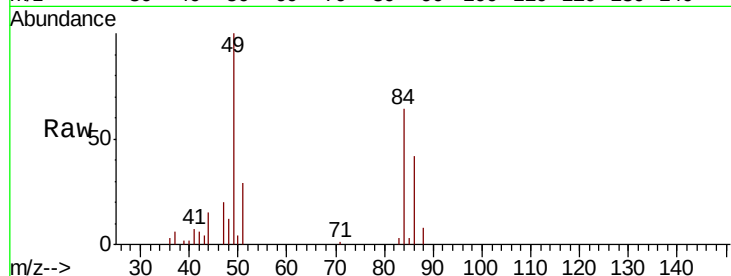




#20
Methylene Chloride
Concen: Below Cal
RT: 3.74 min Scan# 225
Delta R.T. 0.00 min
Lab File: VD060537.D
Acq: 11 Dec 2018 15:59

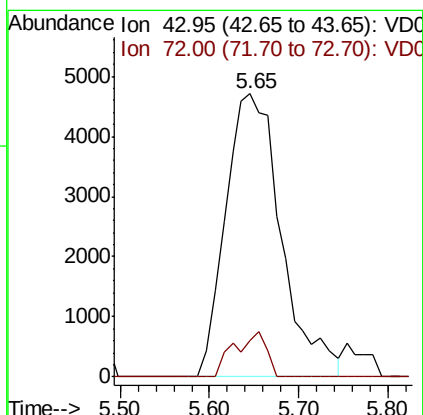
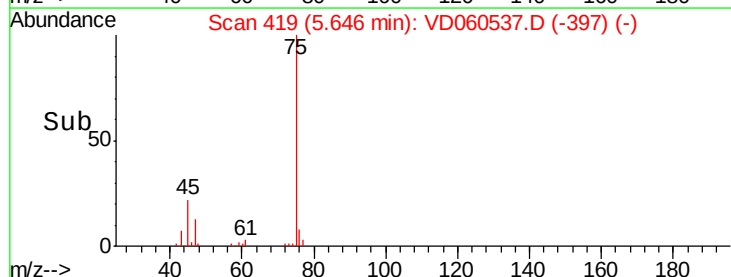
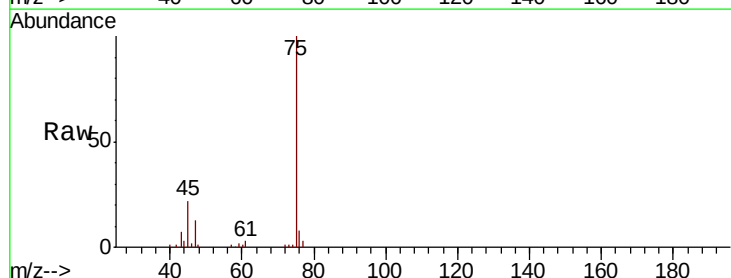
Instrument :
MSVOA_D
ClientSampleId :
RICH-REC-ROAD-STONE-8

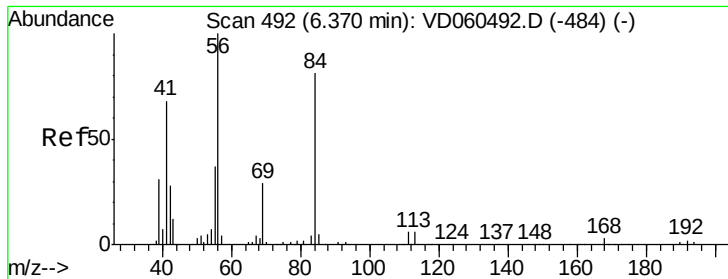
Tot Ion: 84 Resp: 49773
Ion Ratio Lower Upper
84 100
49 157.1 117.2 175.8
51 45.2 35.3 52.9
86 66.2 53.2 79.8



#25
2-Butanone
Concen: 5.894 ug/l
RT: 5.65 min Scan# 419
Delta R.T. 0.01 min
Lab File: VD060537.D
Acq: 11 Dec 2018 15:59

Tgt Ion: 43 Resp: 20384
Ion Ratio Lower Upper
43 100
72 12.8 14.6 21.8#





#31

Cyclohexane

Concen: Below Cal

RT: 6.40 min Scan# 496

Delta R.T. 0.03 min

Lab File: VD060537.D

Acq: 11 Dec 2018 15:59

Instrument :

MSVOA_D

ClientSampleId :

RICH-REC-ROAD-STONE-8

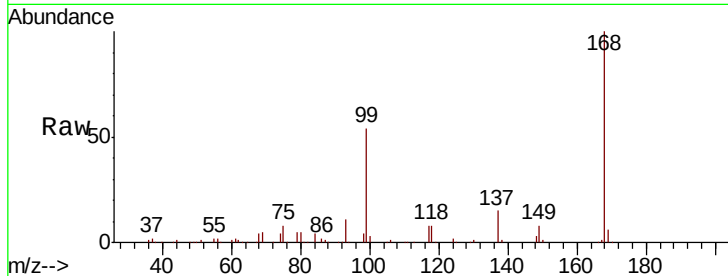
Tot Ion: 56 Resp: 28904

Ion Ratio Lower Upper

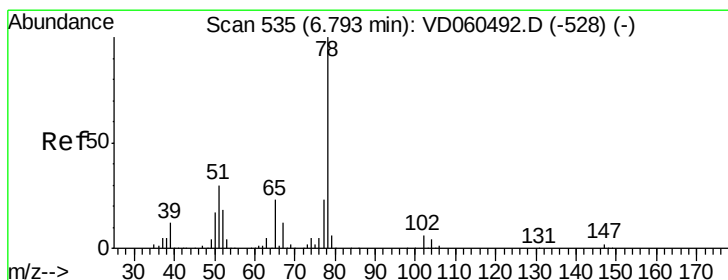
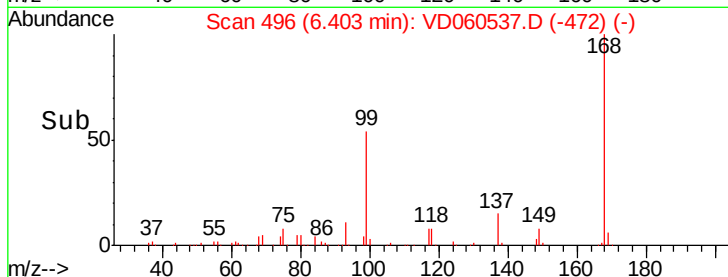
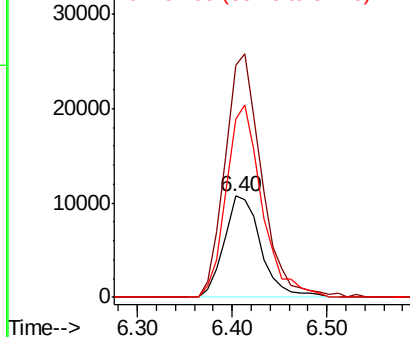
56 100

69 229.3 22.8 34.2#

84 176.8 65.1 97.7#



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: N.D. ug/l

RT: 6.79 min Scan# 535

Delta R.T. -0.01 min

Lab File: VD060537.D

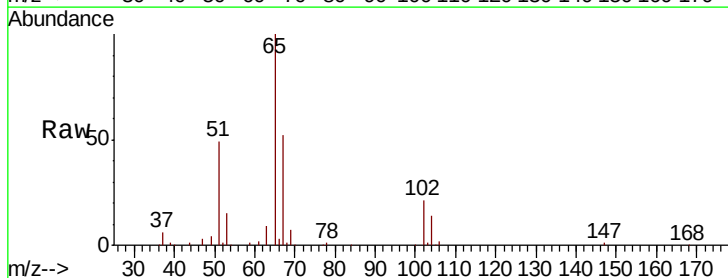
Acq: 11 Dec 2018 15:59

Tgt Ion: 65 Resp: 465958

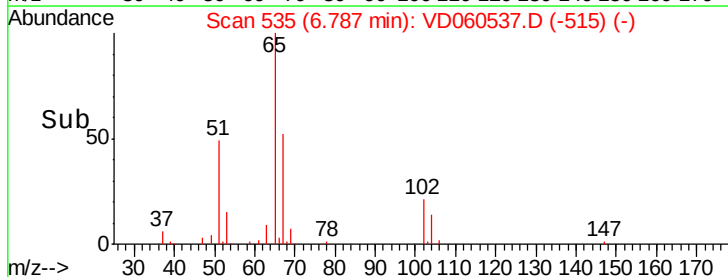
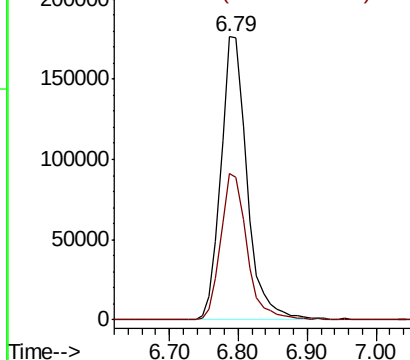
Ion Ratio Lower Upper

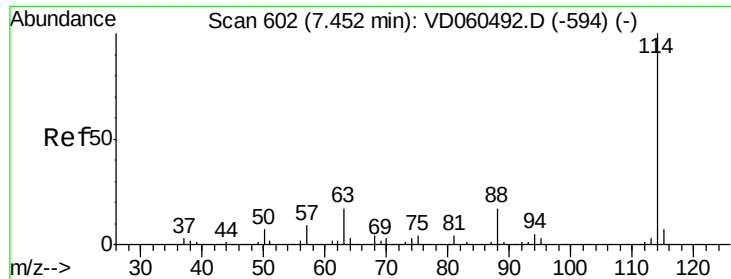
65 100

67 51.6 0.0 106.8



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

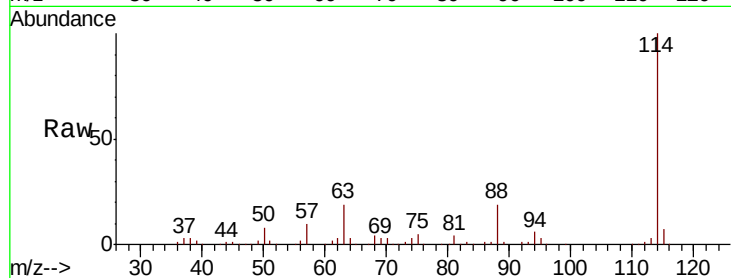




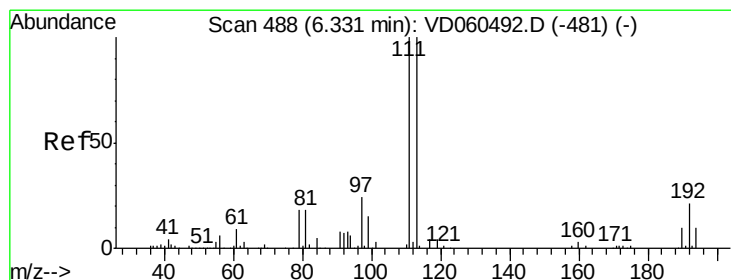
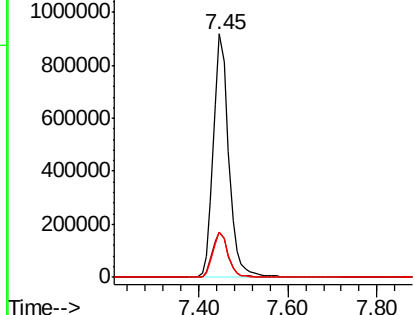
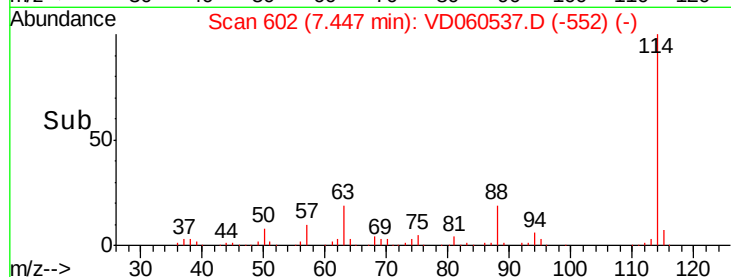
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.45 min Scan# 602
 Delta R.T. -0.01 min
 Lab File: VD060537.D
 Acq: 11 Dec 2018 15:59

Instrument :
 MSVOA_D
 ClientSampleId :
 RICH-REC-ROAD-STONE-8

Tot Ion:114 Resp: 2196553
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 34.2
 88 18.7 0.0 35.0

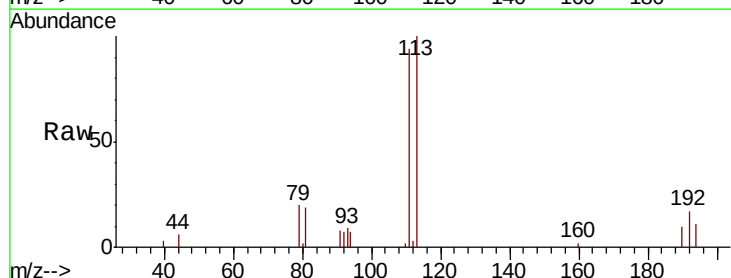


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

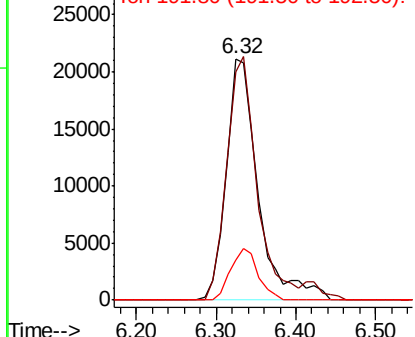
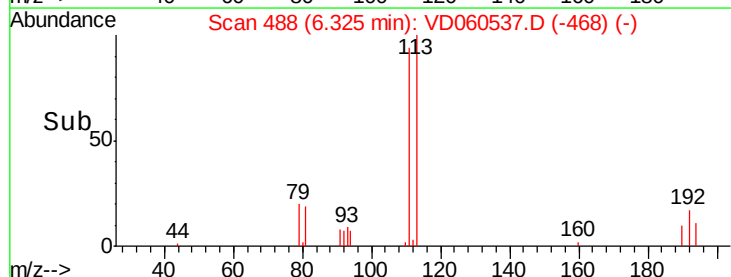


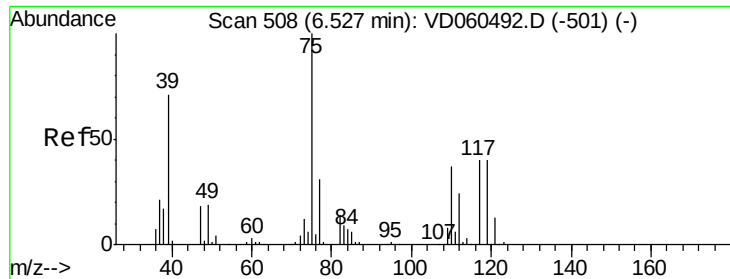
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.32 min Scan# 488
 Delta R.T. -0.01 min
 Lab File: VD060537.D
 Acq: 11 Dec 2018 15:59

Tgt Ion:113 Resp: 59515
 Ion Ratio Lower Upper
 113 100
 111 94.3 80.2 120.4
 192 16.8 16.6 24.8



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

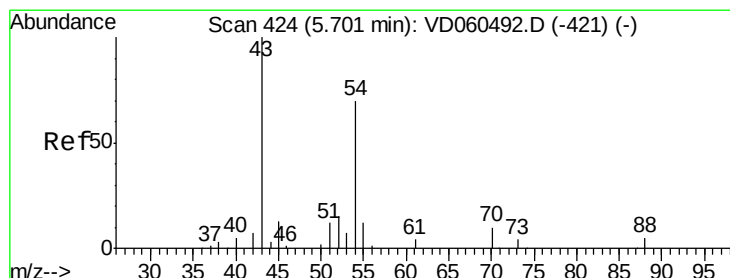
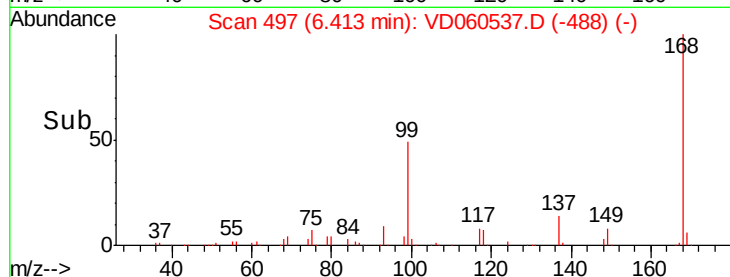
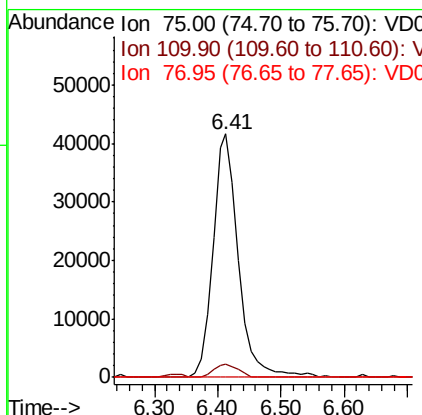
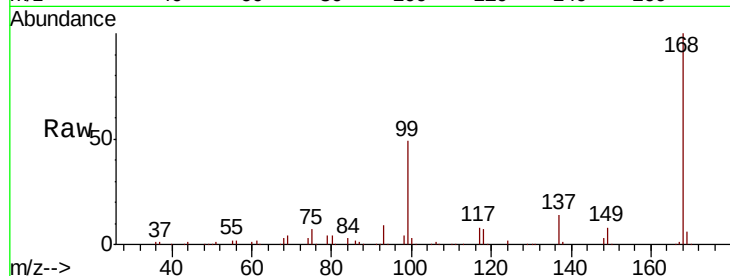




#36
 1,1-Dichloropropene
 Concen: 5.430 ug/l
 RT: 6.41 min Scan# 497
 Delta R.T. -0.11 min
 Lab File: VD060537.D
 Acq: 11 Dec 2018 15:59

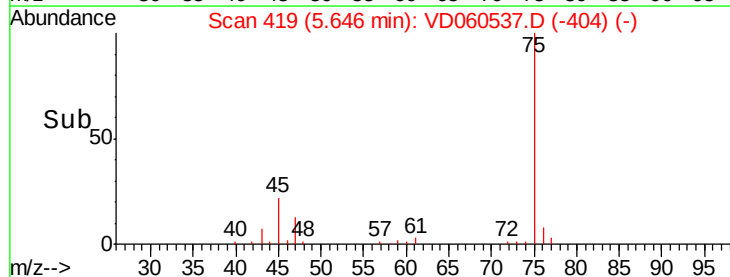
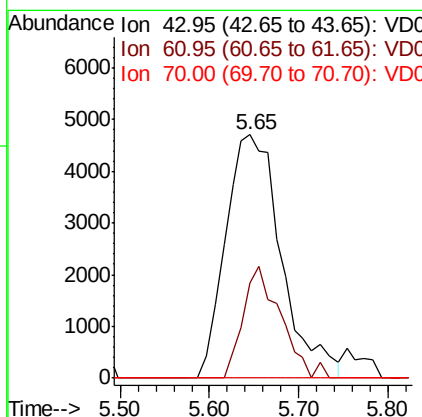
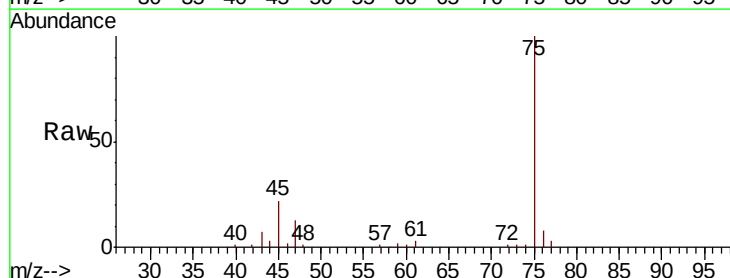
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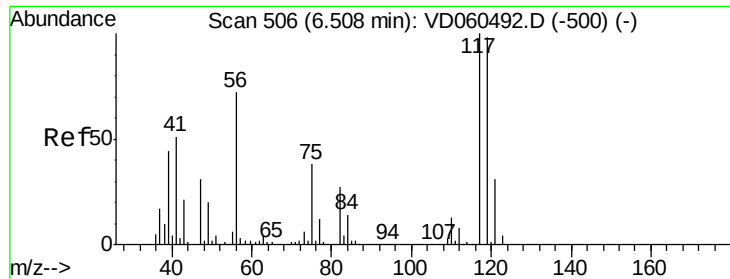
Tot Ion: 75 Resp: 116579
 Ion Ratio Lower Upper
 75 100
 110 5.2 18.3 54.8#
 77 0.0 24.6 37.0#



#37
 Ethyl Acetate
 Concen: 2.189 ug/l
 RT: 5.65 min Scan# 419
 Delta R.T. -0.06 min
 Lab File: VD060537.D
 Acq: 11 Dec 2018 15:59

Tgt Ion: 43 Resp: 20384
 Ion Ratio Lower Upper
 43 100
 61 39.2 12.4 18.6#
 70 0.0 5.4 8.0#

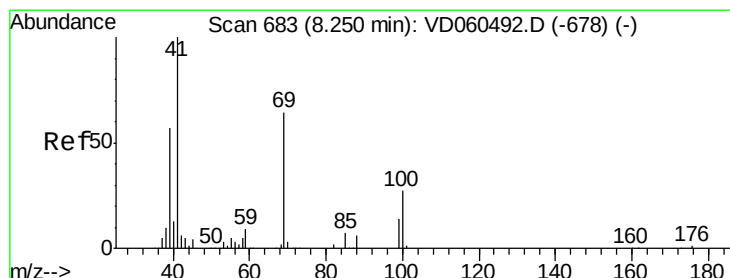
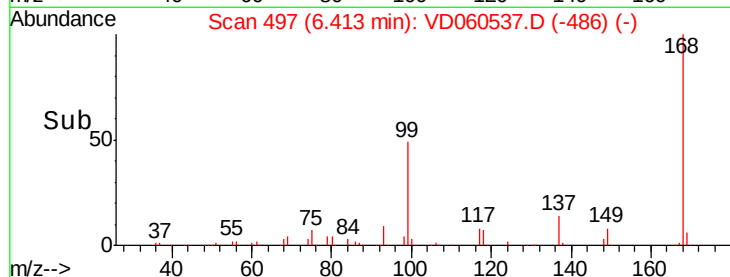
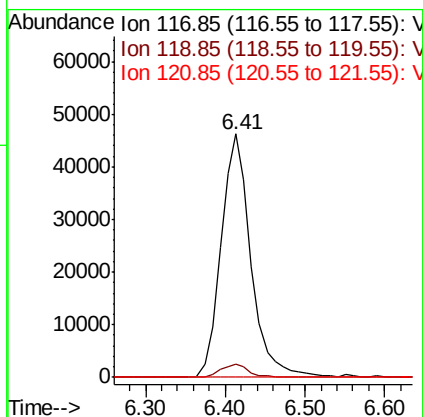
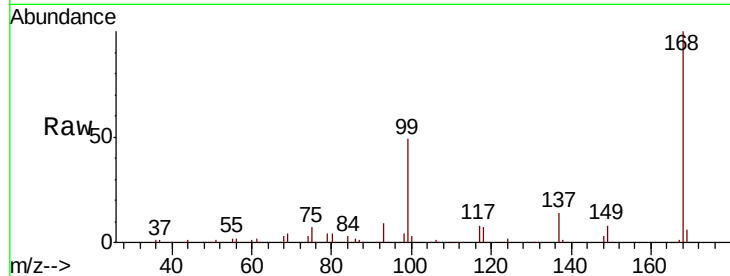




#38
Carbon Tetrachloride
Concen: 6.269 ug/l
RT: 6.41 min Scan# 497
Delta R.T. -0.09 min
Lab File: VD060537.D
Acq: 11 Dec 2018 15:59

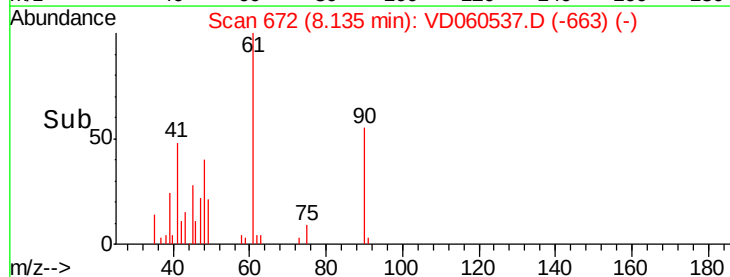
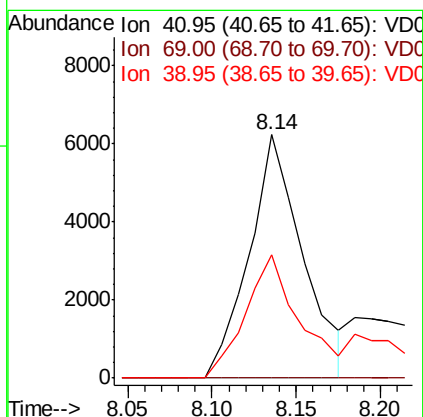
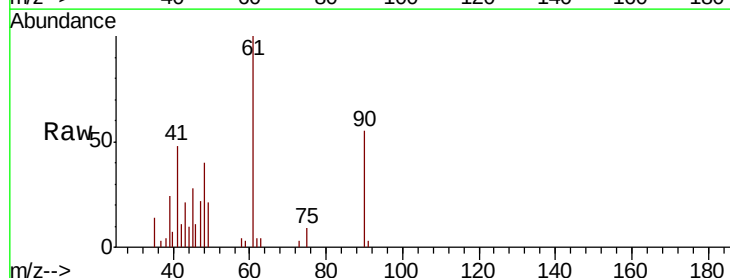
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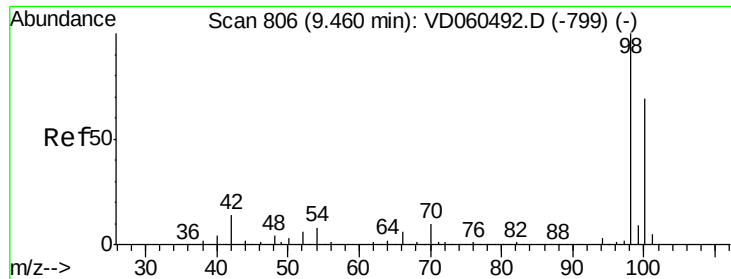
Tot Ion:117 Resp: 120837
Ion Ratio Lower Upper
117 100
119 5.2 76.8 115.2#
121 0.0 24.4 36.6#



#48
Methyl methacrylate
Concen: 2.026 ug/l
RT: 8.14 min Scan# 672
Delta R.T. -0.11 min
Lab File: VD060537.D
Acq: 11 Dec 2018 15:59

Tgt Ion: 41 Resp: 13781
Ion Ratio Lower Upper
41 100
69 0.0 50.2 75.4#
39 50.4 46.1 69.1

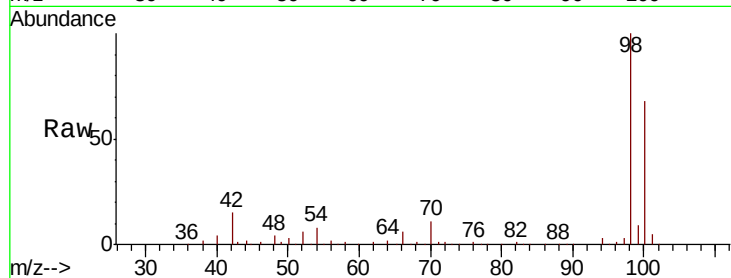




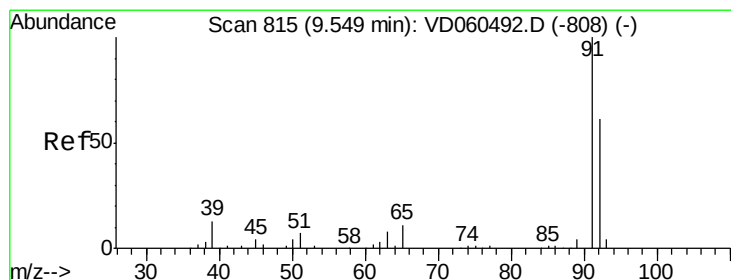
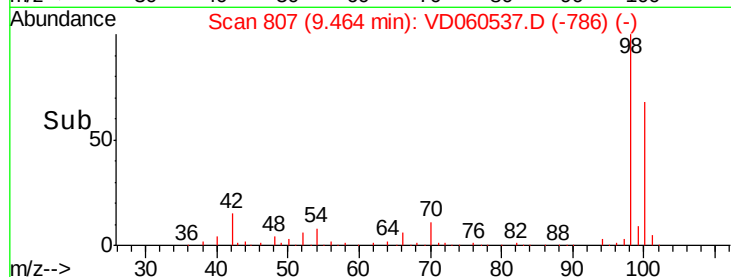
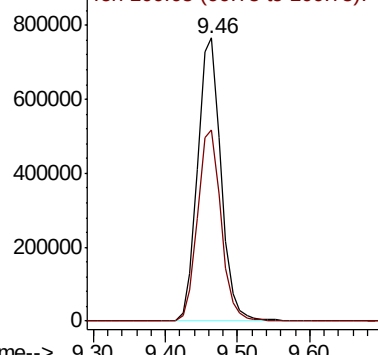
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.46 min Scan# 807
Delta R.T. 0.00 min
Lab File: VD060537.D
Acq: 11 Dec 2018 15:59

Instrument :
MSVOA_D
ClientSampleId :
RICH-REC-ROAD-STONE-8

Tot Ion: 98 Resp: 1724591
Ion Ratio Lower Upper
98 100
100 67.8 55.7 83.5

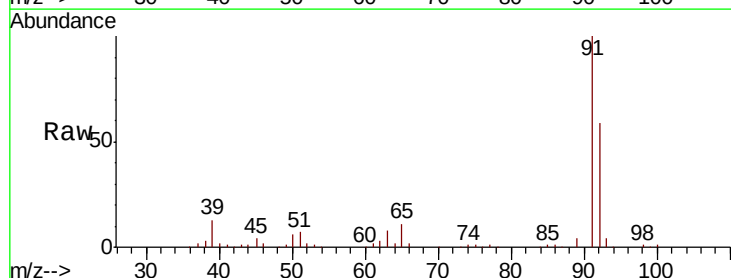


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

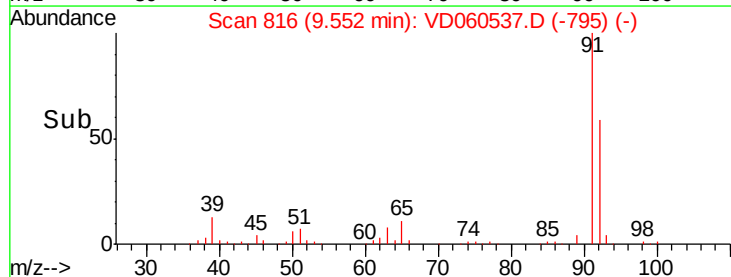
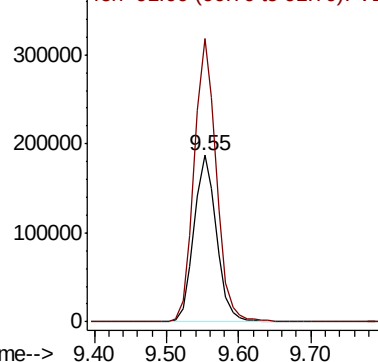


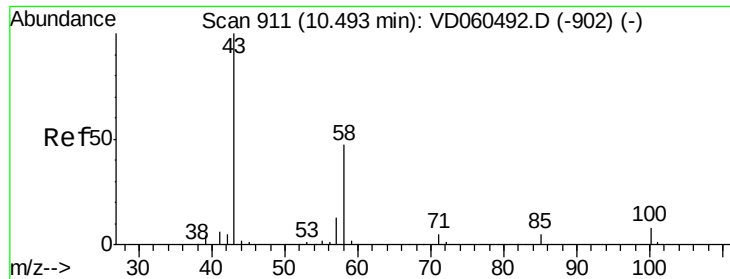
#52
Toluene
Concen: 11.756 ug/l
RT: 9.55 min Scan# 816
Delta R.T. 0.00 min
Lab File: VD060537.D
Acq: 11 Dec 2018 15:59

Tgt Ion: 92 Resp: 403202
Ion Ratio Lower Upper
92 100
91 170.1 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC

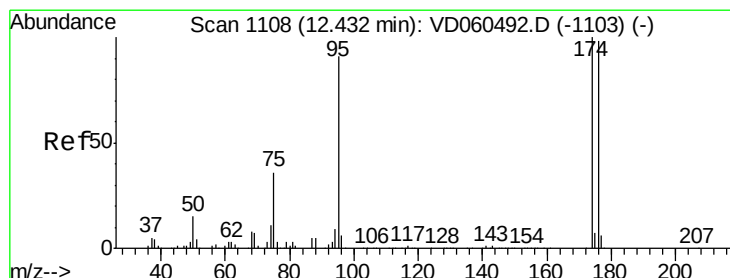
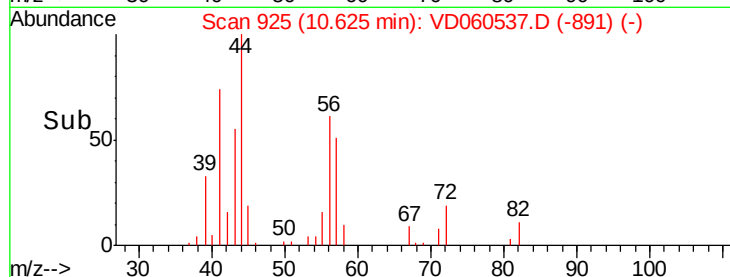
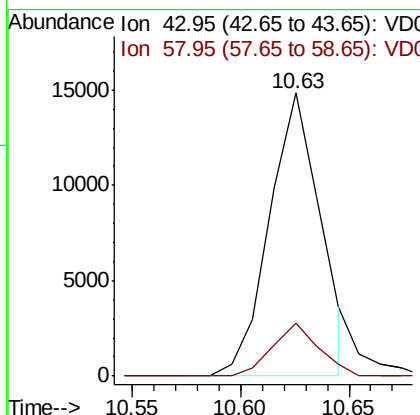
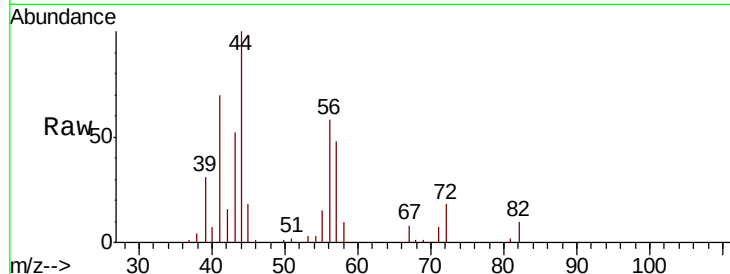




#59
2-Hexanone
Concen: 4.892 ug/l
RT: 10.63 min Scan# 925
Delta R.T. 0.13 min
Lab File: VD060537.D
Acq: 11 Dec 2018 15:59

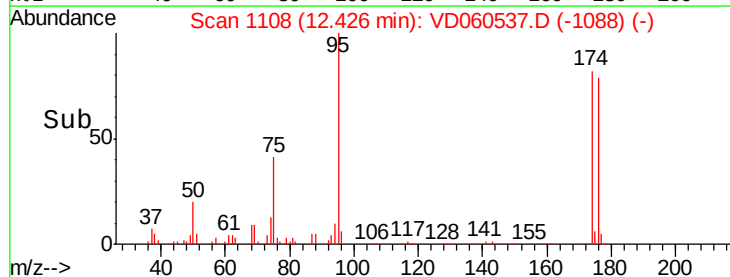
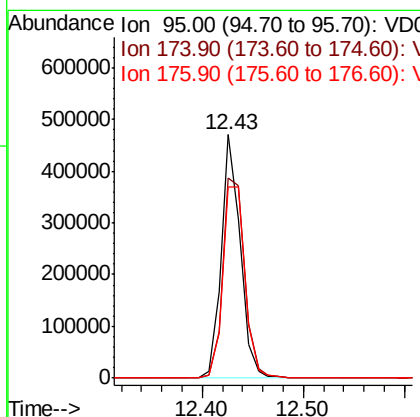
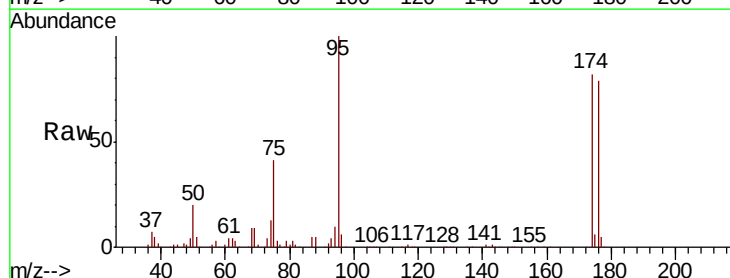
Instrument :
MSVOA_D
ClientSampleId :
RICH-REC-ROAD-STONE-8

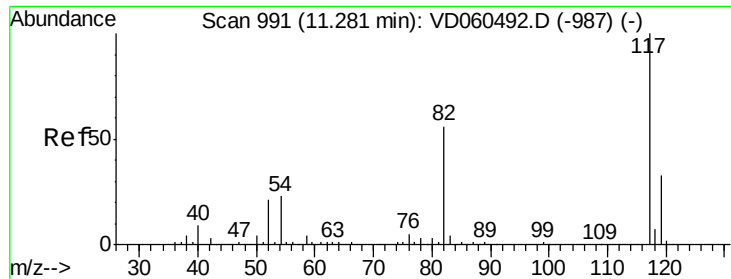
Tot Ion: 43 Resp: 24450
Ion Ratio Lower Upper
43 100
58 18.8 23.4 70.2#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.43 min Scan# 1108
Delta R.T. -0.01 min
Lab File: VD060537.D
Acq: 11 Dec 2018 15:59

Tgt Ion: 95 Resp: 617318
Ion Ratio Lower Upper
95 100
174 82.4 0.0 219.4
176 78.7 0.0 214.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.28 min Scan# 992

Delta R.T. 0.00 min

Lab File: VD060537.D

Acq: 11 Dec 2018 15:59

Instrument :

MSVOA_D

ClientSampleId :

RICH-REC-ROAD-STONE-8

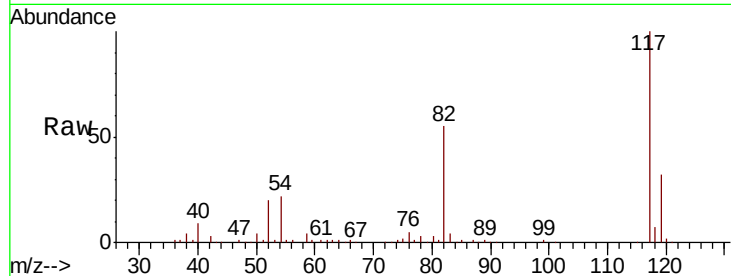
Tot Ion:117 Resp: 1736649

Ion Ratio Lower Upper

117 100

82 55.2 45.2 67.8

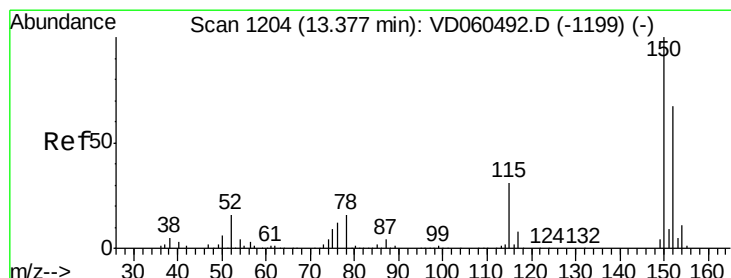
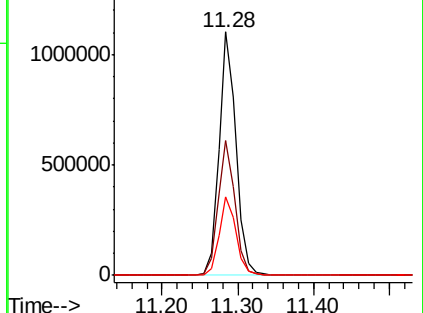
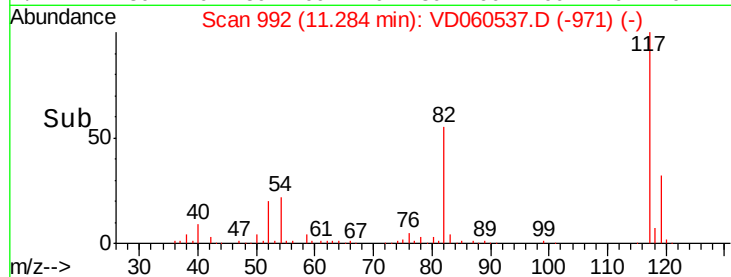
119 32.5 26.1 39.1



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: 13.37 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VD060537.D

Acq: 11 Dec 2018 15:59

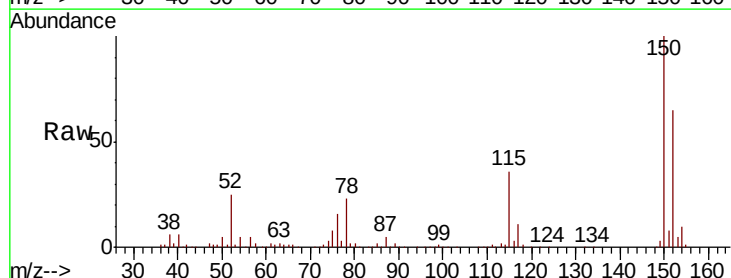
Tgt Ion:152 Resp: 820348

Ion Ratio Lower Upper

152 100

115 56.2 24.6 74.0

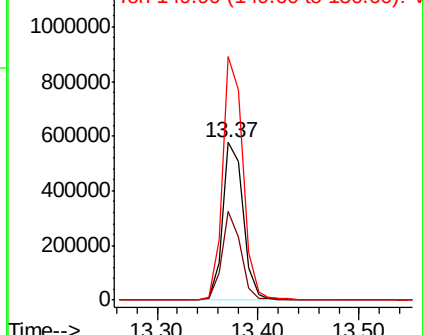
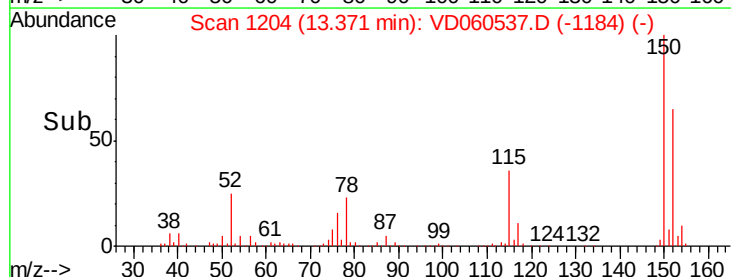
150 154.5 0.0 309.0

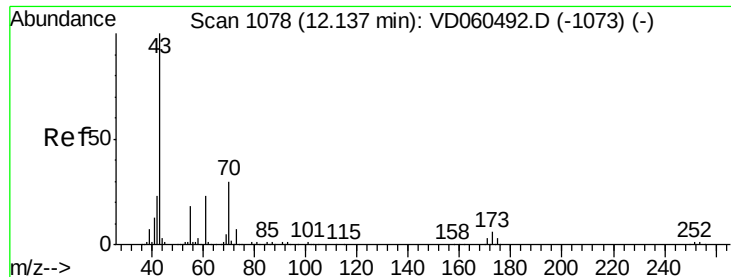


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.378 ug/l

RT: 12.18 min Scan# 1083

Delta R.T. 0.04 min

Lab File: VD060537.D

Acq: 11 Dec 2018 15:59

Instrument :

MSVOA_D

ClientSampleId :

RICH-REC-ROAD-STONE-8

Tot Ion: 43 Resp: 19327

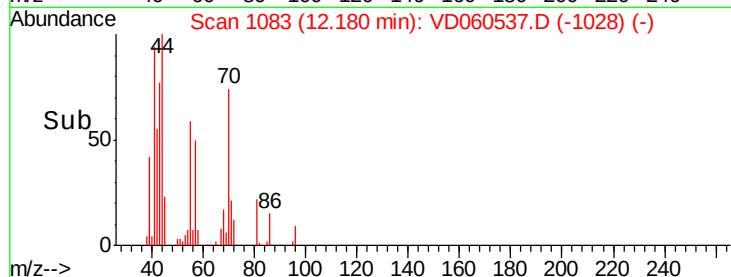
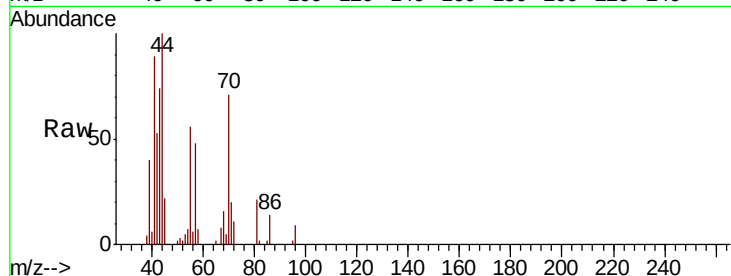
Ion Ratio Lower Upper

43 100

70 96.1 23.8 35.8#

55 76.2 14.2 21.2#

61 0.0 18.1 27.1#

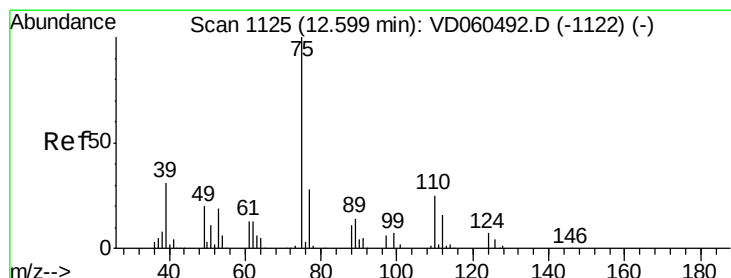
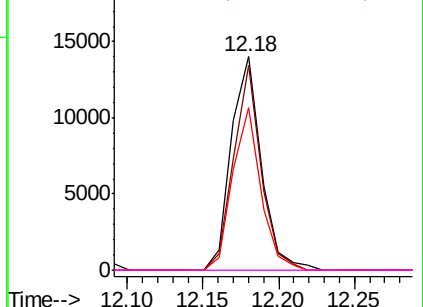


Abundance Ion 42.95 (42.65 to 43.65): VDC

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



#76

1,2,3-Trichloropropane

Concen: 21.561 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.17 min

Lab File: VD060537.D

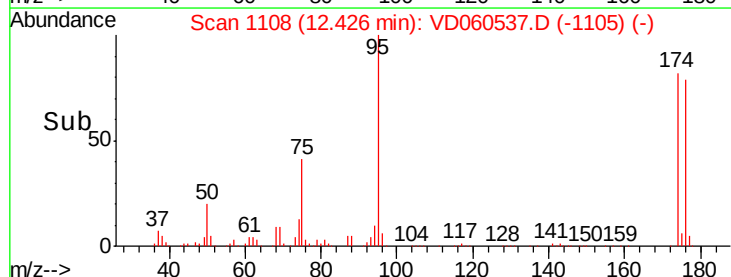
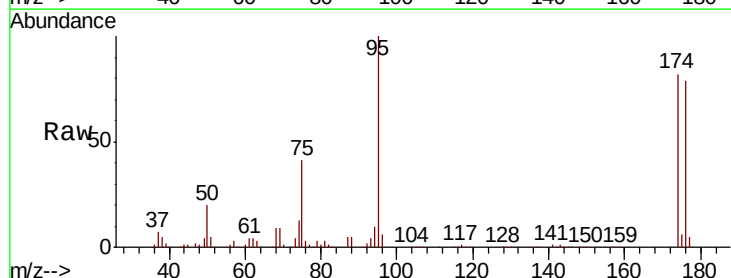
Acq: 11 Dec 2018 15:59

Tgt Ion: 75 Resp: 200406

Ion Ratio Lower Upper

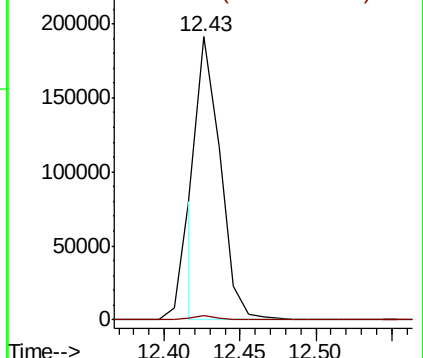
75 100

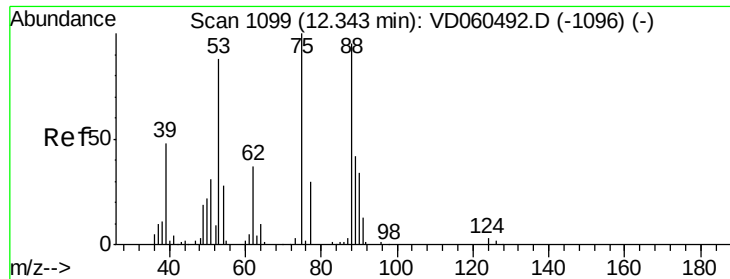
77 1.6 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 97.266 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.08 min

Lab File: VD060537.D

Acq: 11 Dec 2018 15:59

Instrument :

MSVOA_D

ClientSampleId :

RICH-REC-ROAD-STONE-8

Tot Ion: 75 Resp: 252156

Ion Ratio Lower Upper

75 100

53 0.0 70.5 105.7#

89 0.0 33.6 50.4#

