

Data Path : W:\HPCHEM1\MSVOA D\DATA\VD092115\
 Data File : VD046805.D
 Acq On : 21 Sep 2015 14:23
 Operator : FY/SY
 Sample : G3747-03
 Misc : 5.78qm/5mL/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TRENCH-1-3

Quant Time: Sep 22 01:03:02 2015
 Quant Method : W:\HPCHEM1\MSVOA_D\METHOD\82D091815S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 18 15:47:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.29	168	159559	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.42	114	213163	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.57	117	217566	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.91	152	118360	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.70	65	92700	55.88	ug/l	-0.02
Spiked Amount			Recovery	=	111.76%	
35) Dibromofluoromethane	6.19	113	90275	54.13	ug/l	-0.03
Spiked Amount			Recovery	=	108.26%	
50) Toluene-d8	9.60	98	273913	52.06	ug/l	-0.02
Spiked Amount			Recovery	=	104.12%	
62) 4-Bromofluorobenzene	12.84	95	128311	60.57	ug/l	-0.02
Spiked Amount			Recovery	=	121.14%	

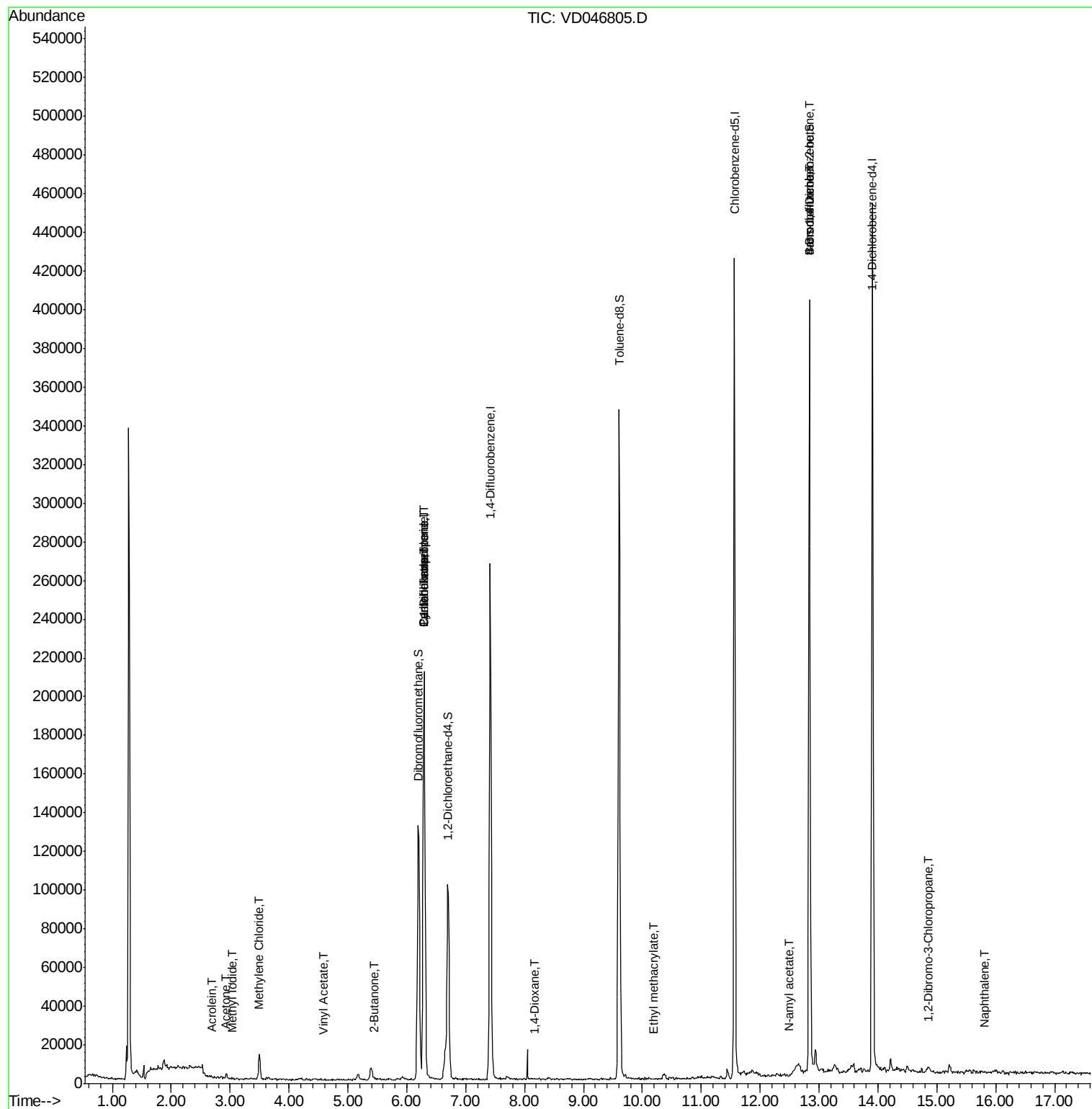
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.41	85	775	Below Cal		100
3) Chlorodifluoromethane	1.43	51	1062	Below Cal	#	92
6) Bromomethane	1.99	94	335	Below Cal		96
11) Methyl Iodide	3.03	142	30	1.75	ug/l	# 35
12) Tert butyl alcohol	3.65	59	1004	Below Cal	#	74
14) Acrolein	2.69	56	89	1.05	ug/l	82
17) Acetone	2.94	43	3394	12.11	ug/l	98
21) Methylene Chloride	3.49	84	5442	3.58	ug/l	# 88
24) Vinyl Acetate	4.59	43	260	15.23	ug/l	# 82
26) 2-Butanone	5.45	43	823	2.61	ug/l	# 79
31) Cyclohexane	6.29	56	4307	1.73	ug/l	# 2
36) 1,1-Dichloropropene	6.29	75	14398	5.78	ug/l	# 51
38) Carbon Tetrachloride	6.29	117	14643	5.66	ug/l	# 19
49) 1,4-Dioxane	8.16	88	45	7.54	ug/l	# 20
56) Ethyl methacrylate	10.21	69	284	4.12	ug/l	# 45
74) N-amyl acetate	12.48	43	562	4.95	ug/l	# 47
77) Bromobenzene	12.85	156	5246	2.50	ug/l	# 10
81) trans-1,4-Dichloro-2-buten	12.84	75	64460	154.13	ug/l	# 9
92) 1,2-Dibromo-3-Chloropropan	14.86	75	224	1.29	ug/l	# 1
95) Naphthalene	15.81	128	693	2.64	ug/l	# 79

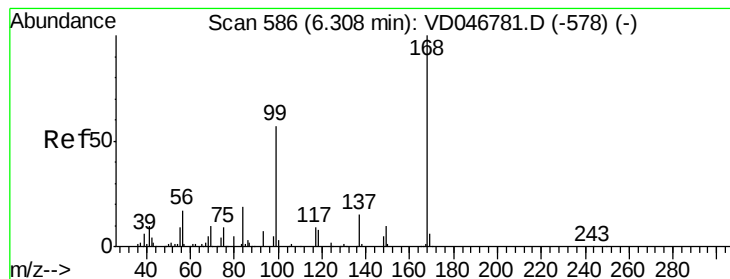
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.29 min Scan# 585

Delta R.T. -0.02 min

Lab File: VD046805.D

Acq: 21 Sep 2015 14:23

Instrument :

MSVOA_D

ClientSampleId :

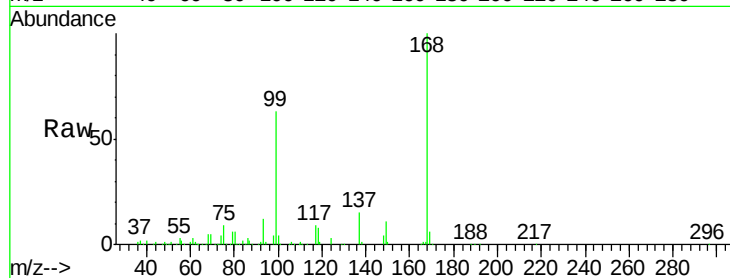
TRENCH-1-3

Tot Ion:168 Resp: 159559

Ion Ratio Lower Upper

168 100

99 62.6 42.4 63.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.29

80000

60000

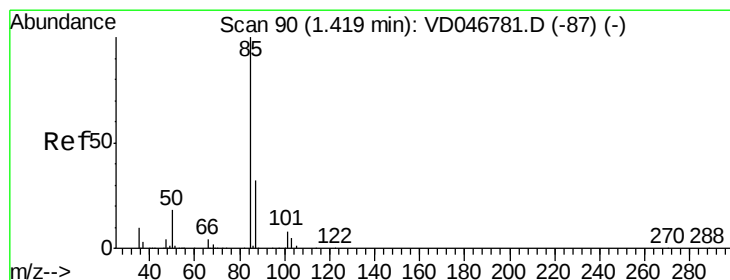
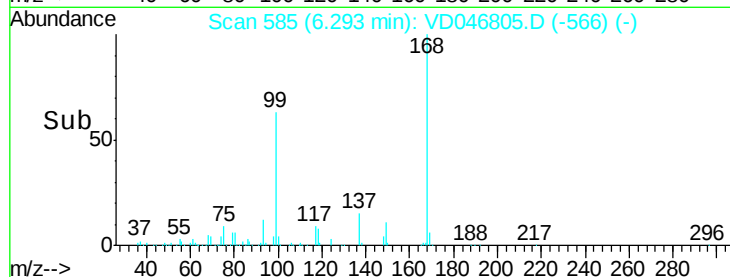
40000

20000

0

Time-->

6.20 6.30 6.40



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.41 min Scan# 90

Delta R.T. -0.01 min

Lab File: VD046805.D

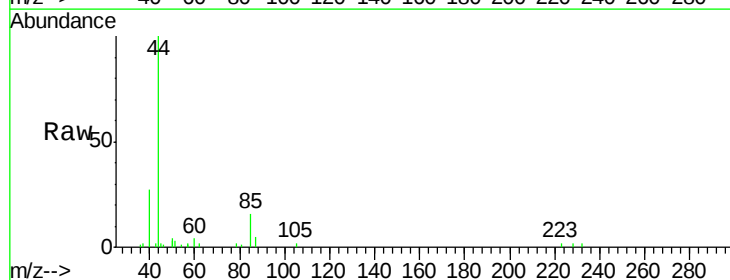
Acq: 21 Sep 2015 14:23

Tgt Ion: 85 Resp: 775

Ion Ratio Lower Upper

85 100

87 32.1 16.2 48.5



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.41

600

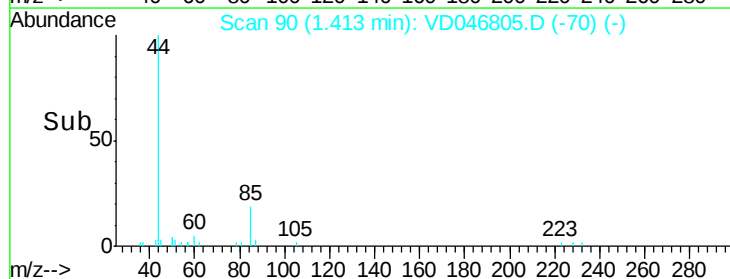
400

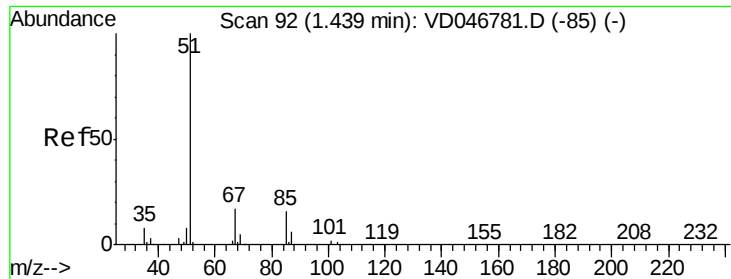
200

0

Time-->

1.35 1.40 1.45





#3

Chlorodifluoromethane

Concen: Below Cal

RT: 1.43 min Scan# 92

Delta R.T. -0.00 min

Lab File: VD046805.D

Acq: 21 Sep 2015 14:23

Instrument :

MSVOA_D

ClientSampleId :

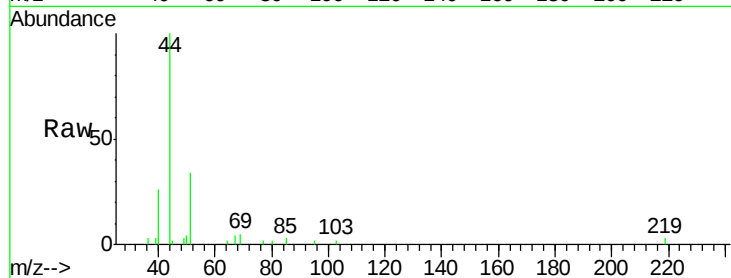
TRENCH-1-3

Tot Ion: 51 Resp: 1062

Ion Ratio Lower Upper

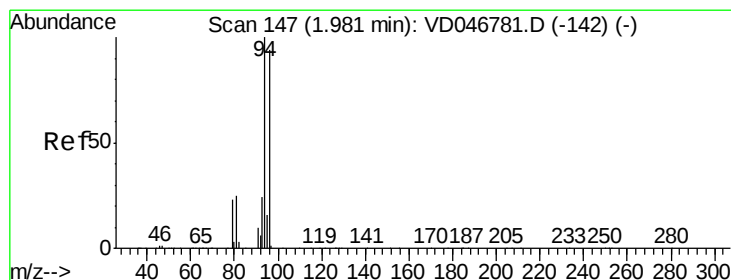
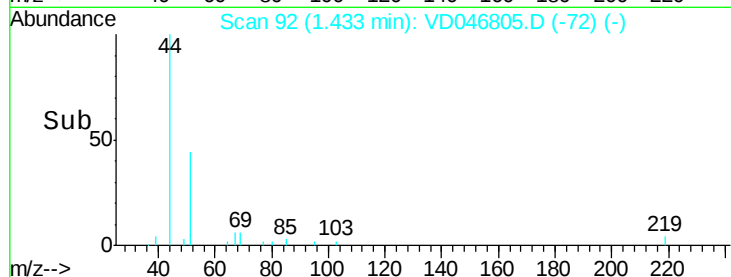
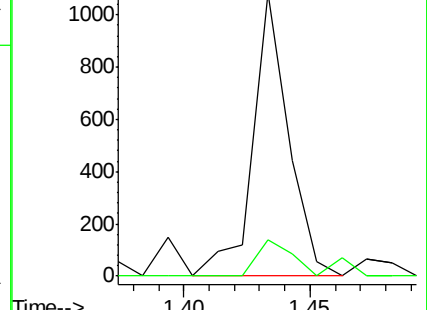
51 100

67 16.7 10.9 16.3#



Abundance Ion 51.00 (50.70 to 51.70): VDC

Ion 67.00 (66.70 to 67.70): VDC



#6

Bromomethane

Concen: Below Cal

RT: 1.99 min Scan# 148

Delta R.T. 0.00 min

Lab File: VD046805.D

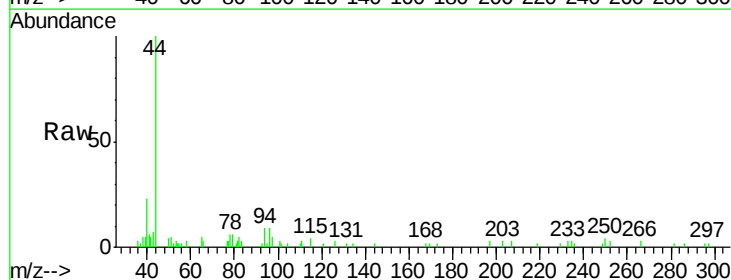
Acq: 21 Sep 2015 14:23

Tgt Ion: 94 Resp: 335

Ion Ratio Lower Upper

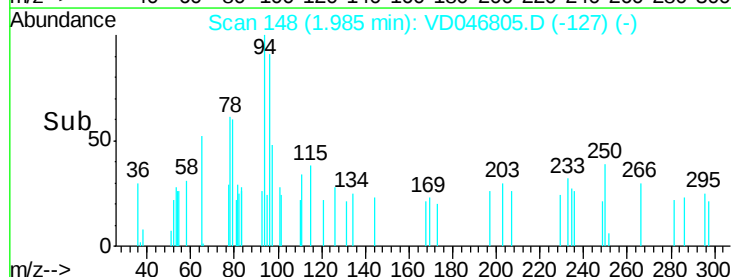
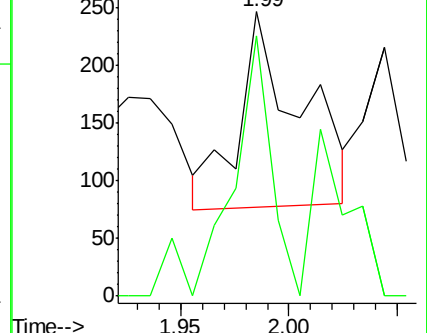
94 100

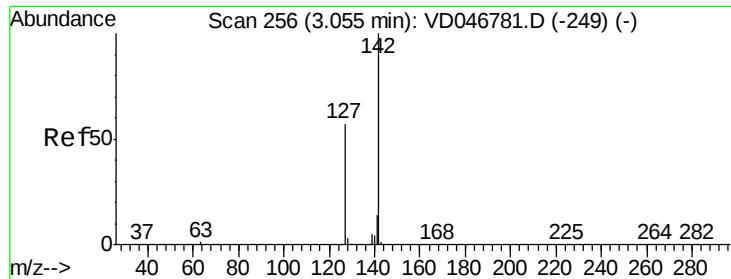
96 91.5 76.0 114.0



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

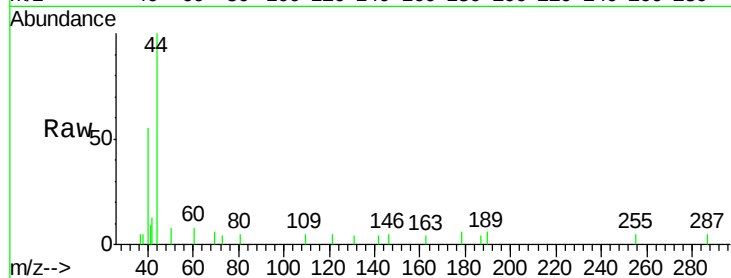




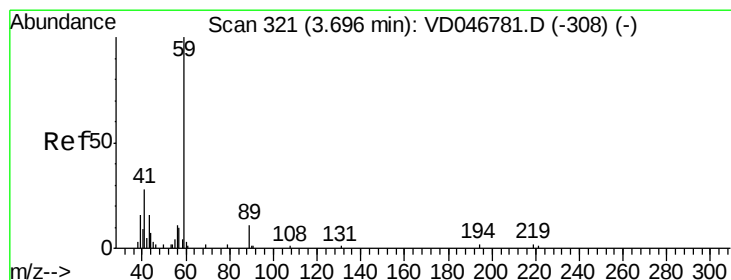
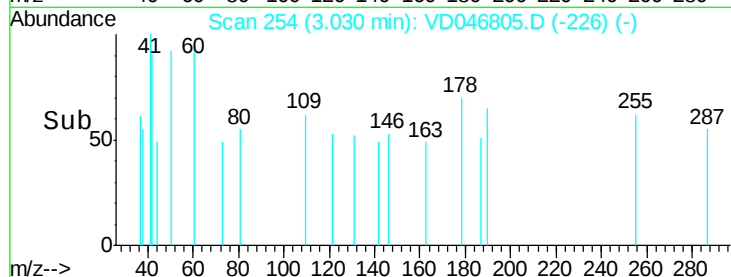
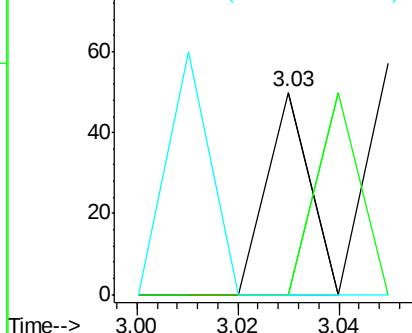
#11
Methvl Iodide
Concen: 1.75 ua/l
RT: 3.03 min Scan# 254
Delta R.T. -0.03 min
Lab File: VD046805.D
Acq: 21 Sep 2015 14:23

Instrument :
MSVOA_D
ClientSampleId :
TRENCH-1-3

Tot Ion:142 Resp: 30
Ion Ratio Lower Upper
142 100
127 0.0 41.2 61.8#
141 0.0 11.6 17.4#

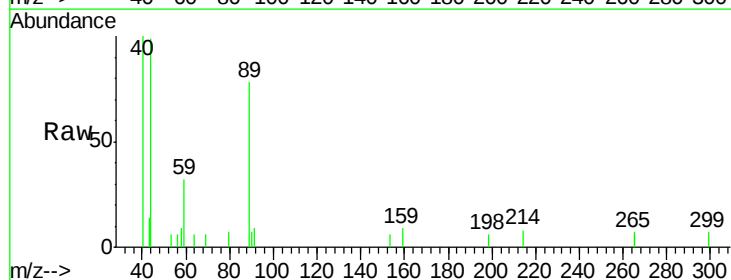


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

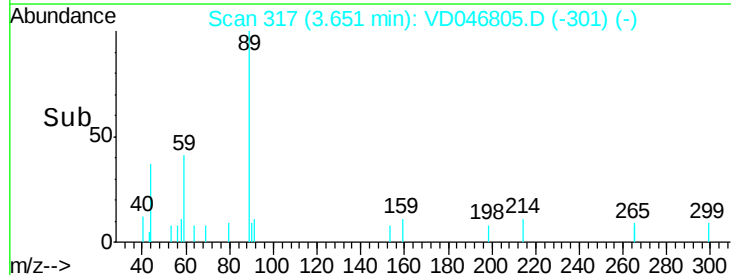
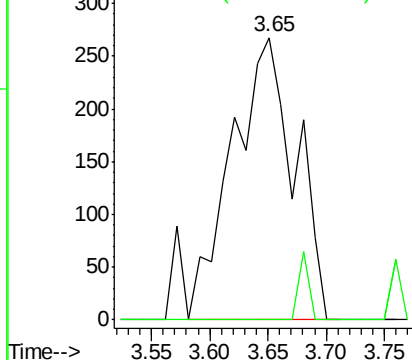


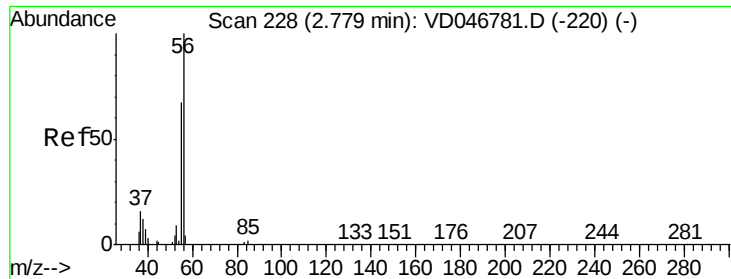
#12
Tert butyl alcohol
Concen: Below Cal
RT: 3.65 min Scan# 317
Delta R.T. -0.05 min
Lab File: VD046805.D
Acq: 21 Sep 2015 14:23

Tgt Ion: 59 Resp: 1004
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#



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





#14

Acrolein

Concen: 1.05 ug/l

RT: 2.69 min Scan# 220

Delta R.T. -0.08 min

Lab File: VD046805.D

Acq: 21 Sep 2015 14:23

Instrument :

MSVOA_D

ClientSampleId :

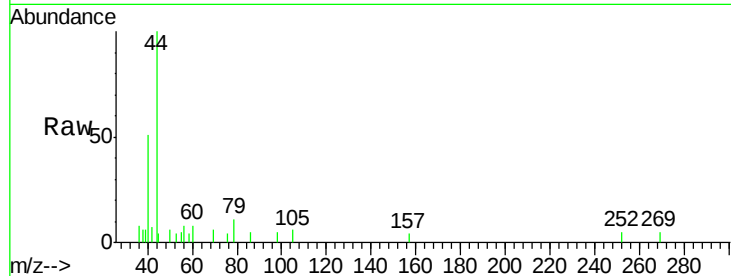
TRENCH-1-3

Tot Ion: 56 Resp: 89

Ion Ratio Lower Upper

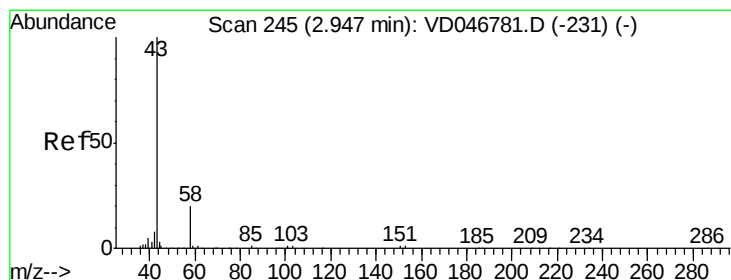
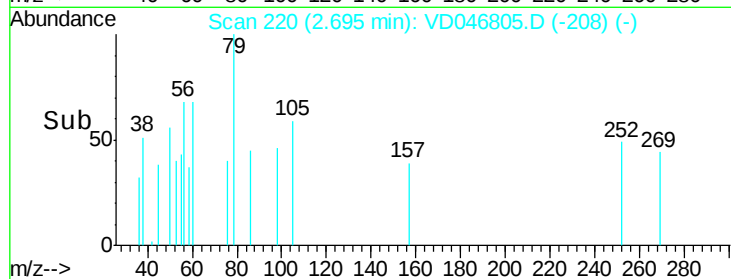
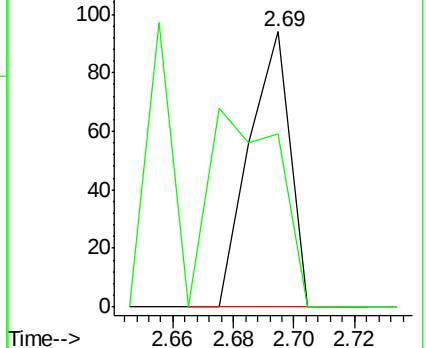
56 100

55 62.8 62.6 93.8



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#17

Acetone

Concen: 12.11 ug/l

RT: 2.94 min Scan# 245

Delta R.T. -0.01 min

Lab File: VD046805.D

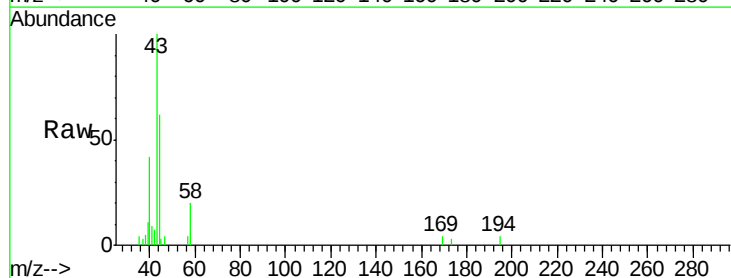
Acq: 21 Sep 2015 14:23

Tgt Ion: 43 Resp: 3394

Ion Ratio Lower Upper

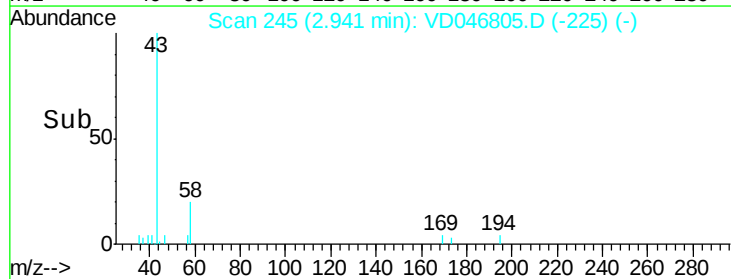
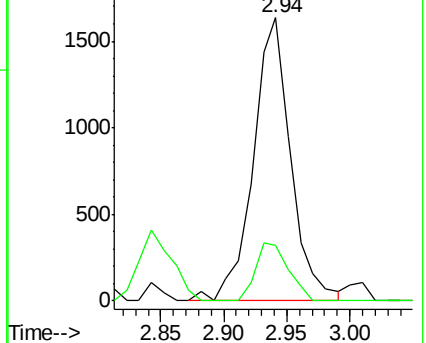
43 100

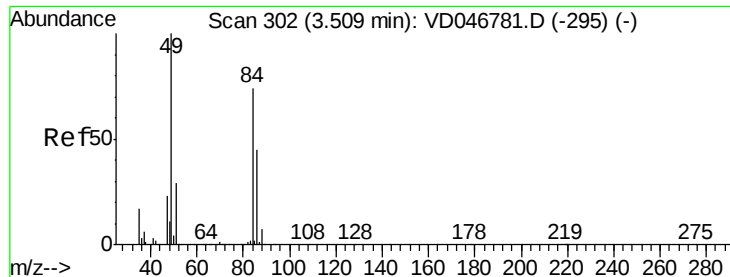
58 19.7 16.6 24.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

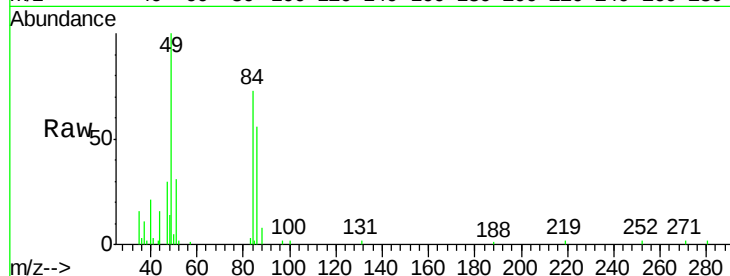




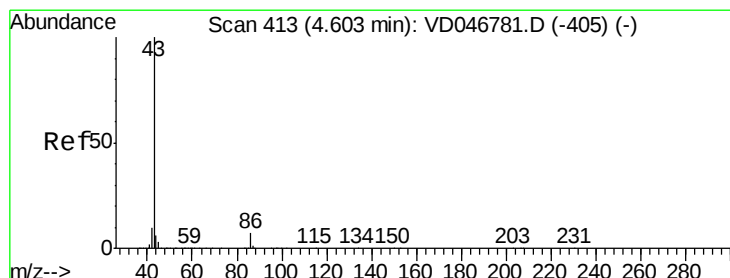
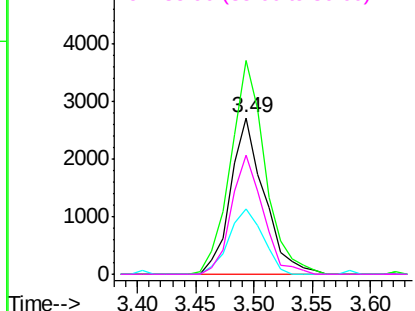
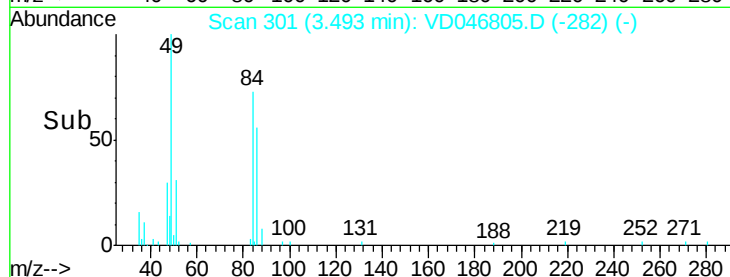
#21
Methylene Chloride
Concen: 3.58 ug/l
RT: 3.49 min Scan# 301
Delta R.T. -0.02 min
Lab File: VD046805.D
Acq: 21 Sep 2015 14:23

Instrument :
MSVOA_D
ClientSampleId :
TRENCH-1-3

Tot Ion: 84 Resp: 5442
Ion Ratio Lower Upper
84 100
49 136.4 122.1 183.1
51 41.9 33.6 50.4
86 76.1 48.3 72.5#

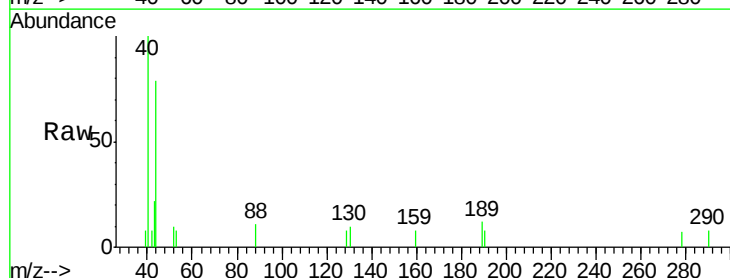


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

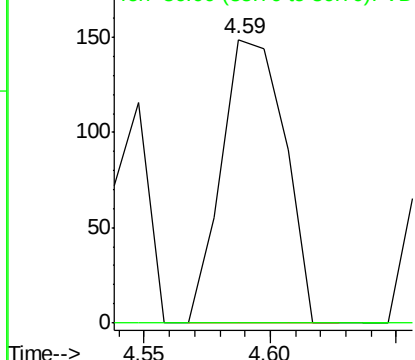
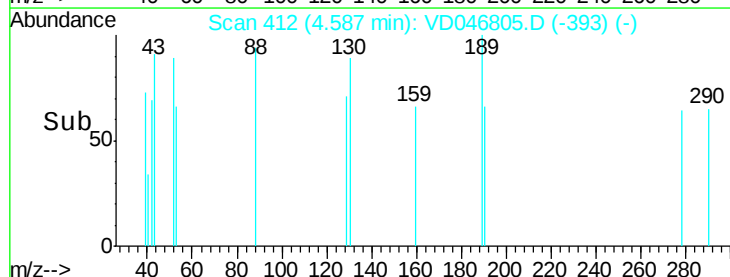


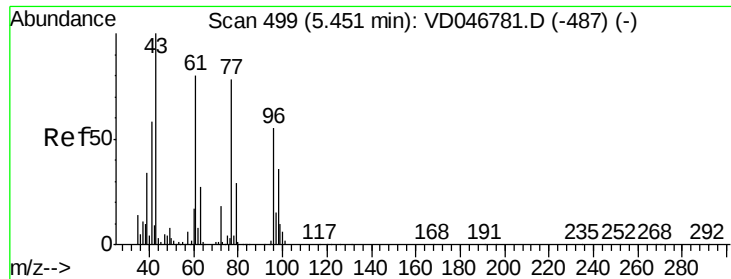
#24
Vinyl Acetate
Concen: 15.23 ug/l
RT: 4.59 min Scan# 412
Delta R.T. -0.02 min
Lab File: VD046805.D
Acq: 21 Sep 2015 14:23

Tgt Ion: 43 Resp: 260
Ion Ratio Lower Upper
43 100
86 0.0 4.9 7.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 86.00 (85.70 to 86.70): VDC

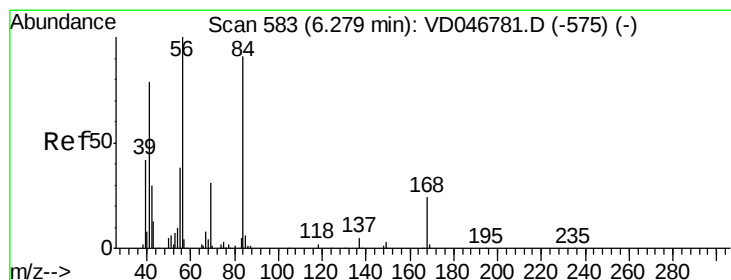
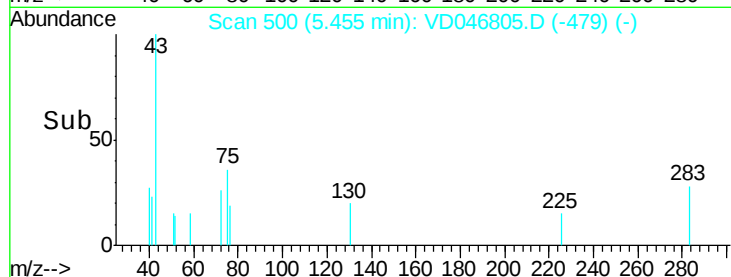
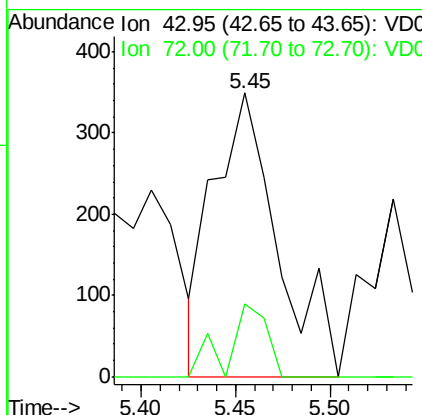
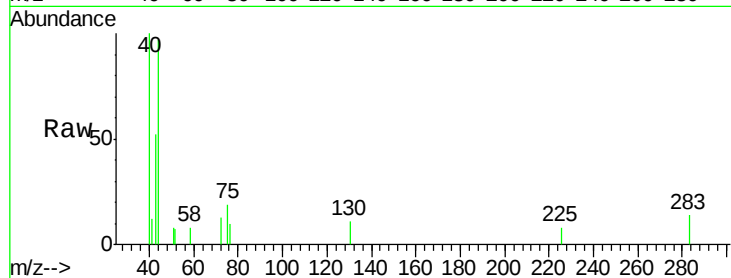




#26
2-Butanone
Concen: 2.61 ug/l
RT: 5.45 min Scan# 500
Delta R.T. 0.00 min
Lab File: VD046805.D
Acq: 21 Sep 2015 14:23

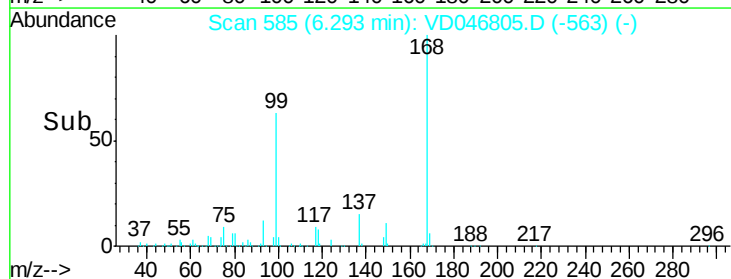
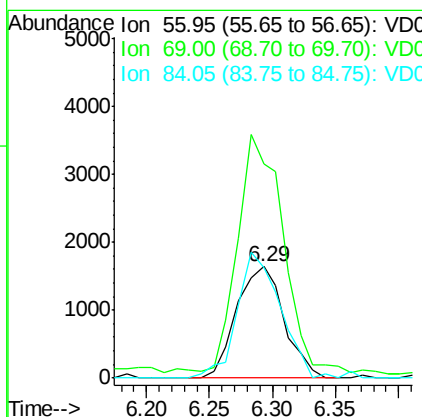
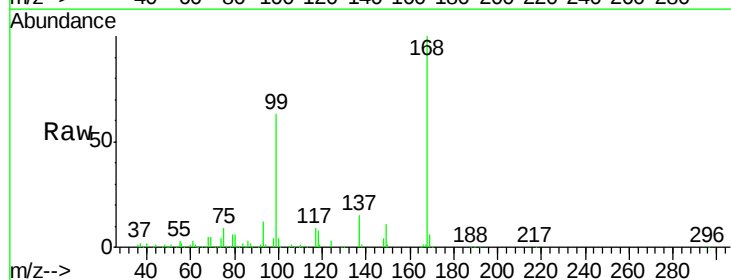
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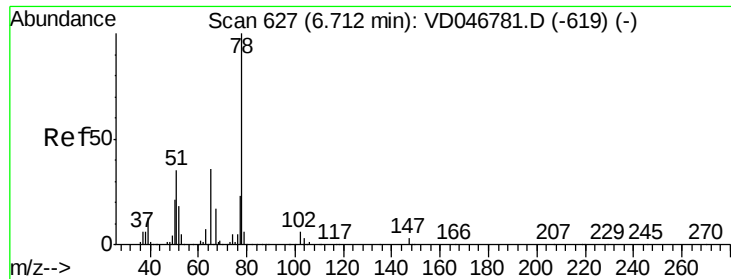
Tot Ion: 43 Resp: 823
Ion Ratio Lower Upper
43 100
72 25.8 13.4 20.0#



#31
Cyclohexane
Concen: 1.73 ug/l
RT: 6.29 min Scan# 585
Delta R.T. 0.01 min
Lab File: VD046805.D
Acq: 21 Sep 2015 14:23

Tgt Ion: 56 Resp: 4307
Ion Ratio Lower Upper
56 100
69 192.9 23.4 35.0#
84 99.6 63.8 95.8#

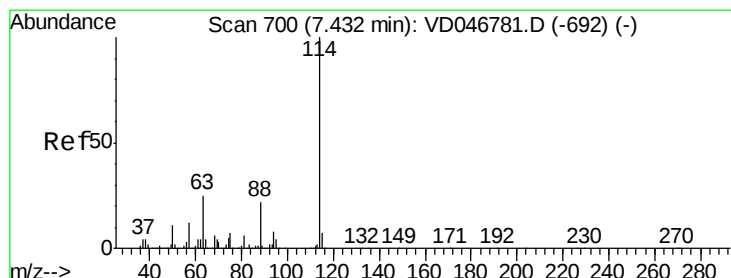
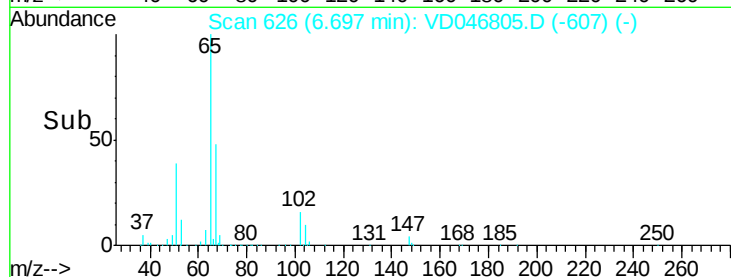
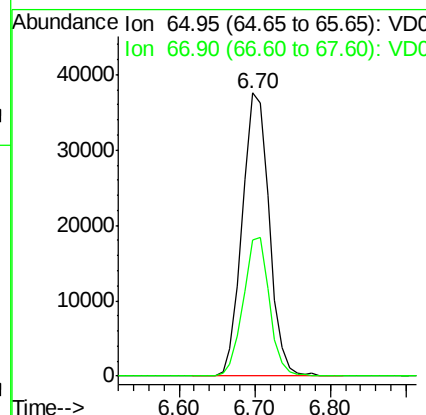
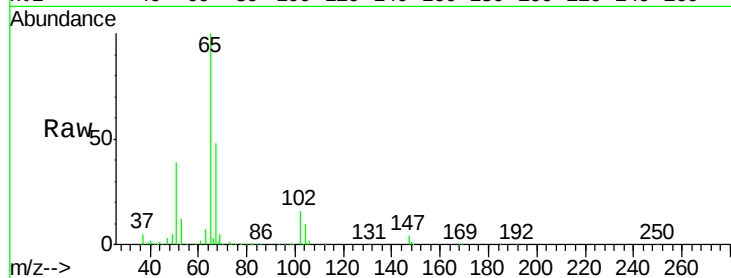




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 6.70 min Scan# 626
 Delta R.T. -0.02 min
 Lab File: VD046805.D
 Acq: 21 Sep 2015 14:23

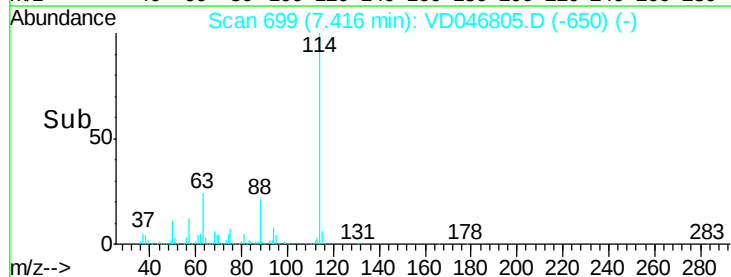
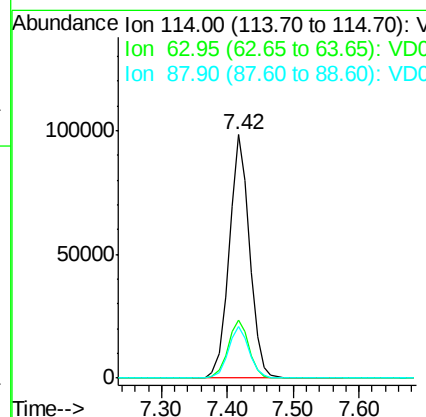
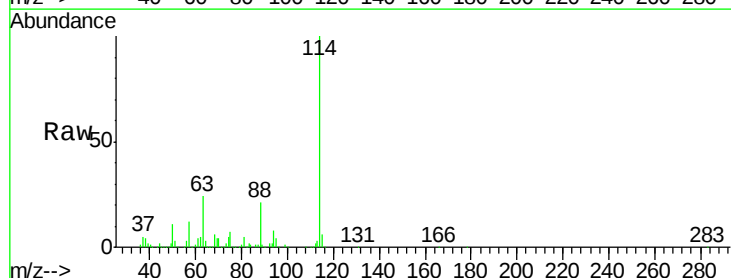
Instrument :
 MSVOA_D
 ClientSampleId :
 TRENCH-1-3

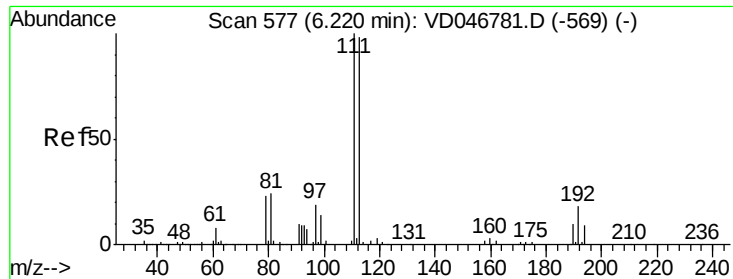
Tot Ion: 65 Resp: 92700
 Ion Ratio Lower Upper
 65 100
 67 48.0 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.42 min Scan# 699
 Delta R.T. -0.02 min
 Lab File: VD046805.D
 Acq: 21 Sep 2015 14:23

Tgt Ion: 114 Resp: 213163
 Ion Ratio Lower Upper
 114 100
 63 24.1 0.0 49.8
 88 21.0 0.0 43.6

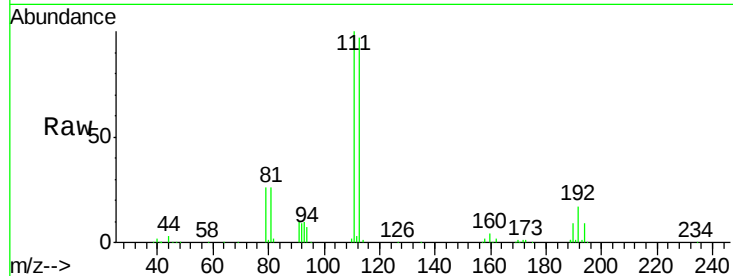




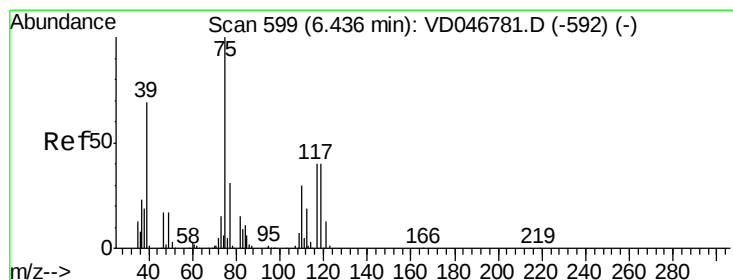
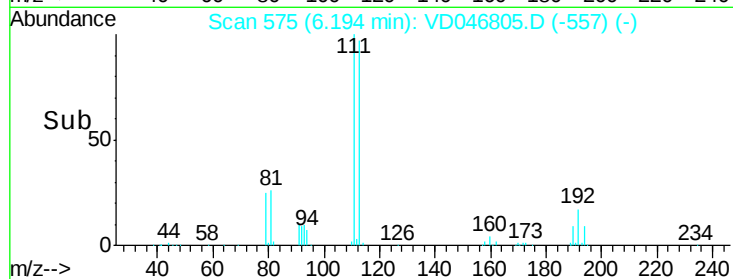
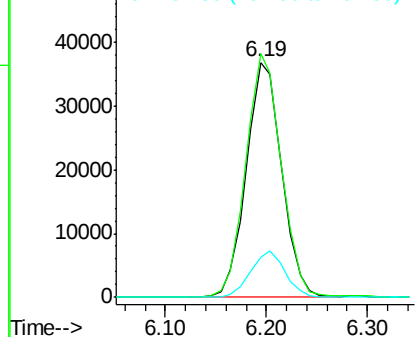
#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 6.19 min Scan# 575
 Delta R.T. -0.03 min
 Lab File: VD046805.D
 Acq: 21 Sep 2015 14:23

Instrument :
 MSVOA_D
 ClientSampleId :
 TRENCH-1-3

Tot Ion:113 Resp: 90275
 Ion Ratio Lower Upper
 113 100
 111 103.5 79.4 119.0
 192 17.3 14.6 22.0

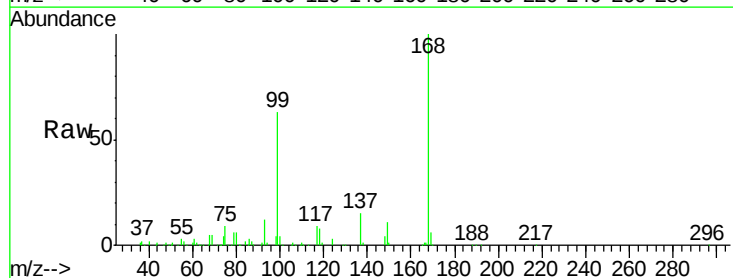


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

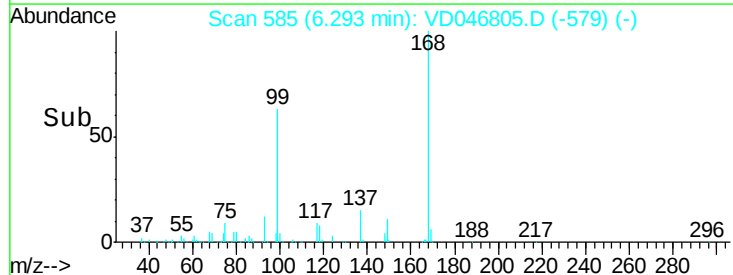
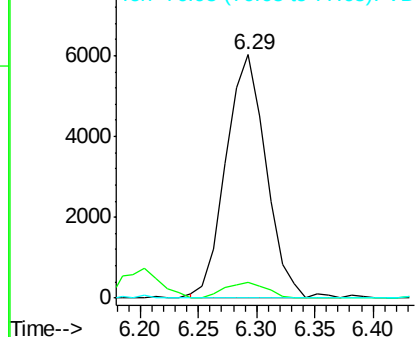


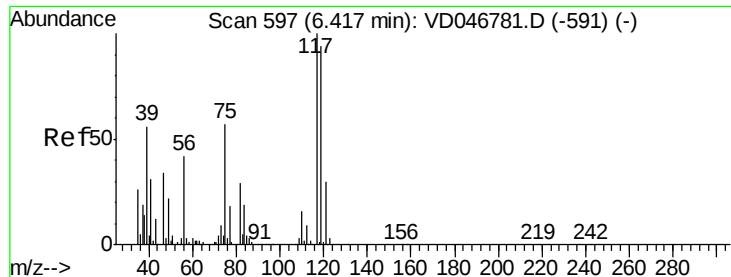
#36
 1,1-Dichloropropene
 Concen: 5.78 ug/l
 RT: 6.29 min Scan# 585
 Delta R.T. -0.14 min
 Lab File: VD046805.D
 Acq: 21 Sep 2015 14:23

Tgt Ion: 75 Resp: 14398
 Ion Ratio Lower Upper
 75 100
 110 6.2 13.7 41.0#
 77 0.0 24.7 37.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 5.66 ug/l

RT: 6.29 min Scan# 585

Delta R.T. -0.12 min

Lab File: VD046805.D

Acq: 21 Sep 2015 14:23

Instrument :

MSVOA_D

ClientSampleId :

TRENCH-1-3

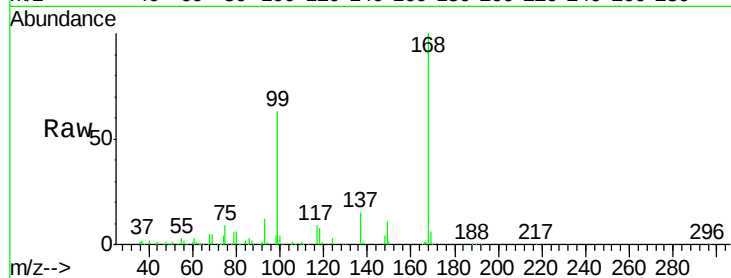
Tot Ion:117 Resp: 14643

Ion Ratio Lower Upper

117 100

119 8.9 76.2 114.4#

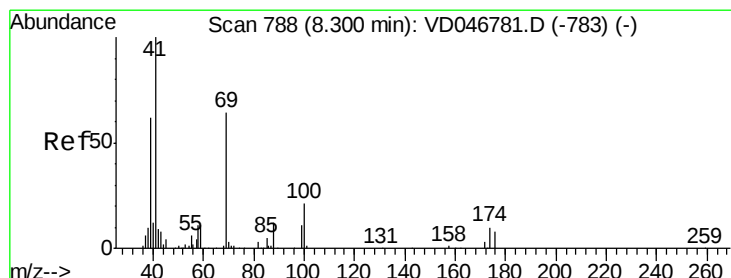
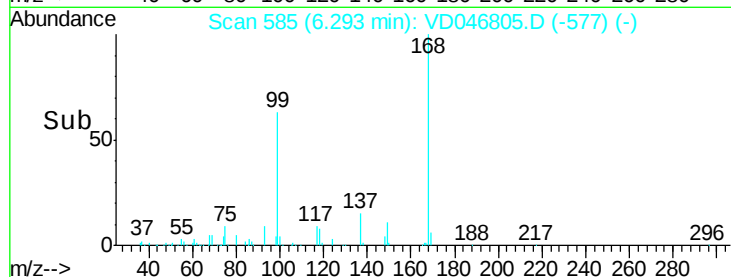
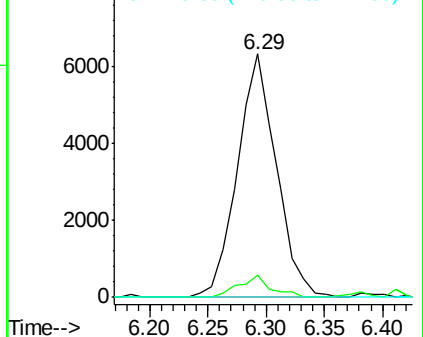
121 0.0 24.5 36.7#



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



#49

1,4-Dioxane

Concen: 7.54 ug/l

RT: 8.16 min Scan# 774

Delta R.T. -0.14 min

Lab File: VD046805.D

Acq: 21 Sep 2015 14:23

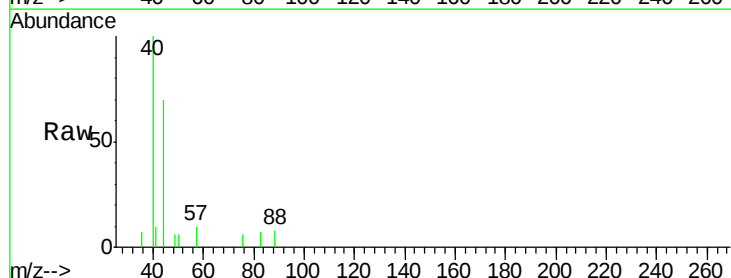
Tgt Ion: 88 Resp: 45

Ion Ratio Lower Upper

88 100

43 0.0 50.0 75.0#

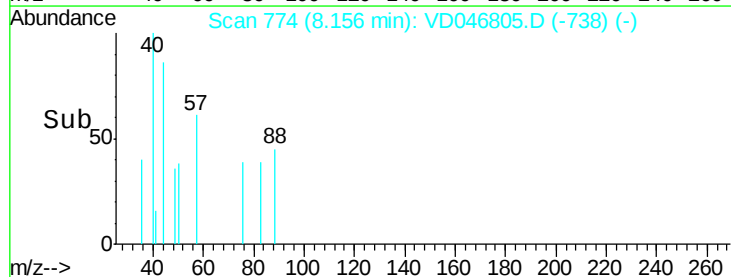
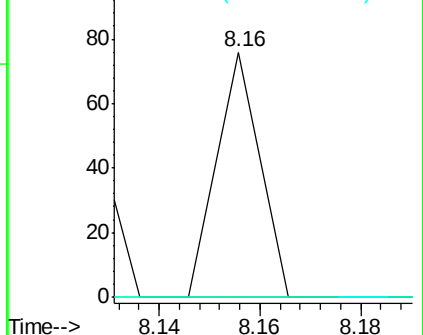
58 0.0 48.3 72.5#

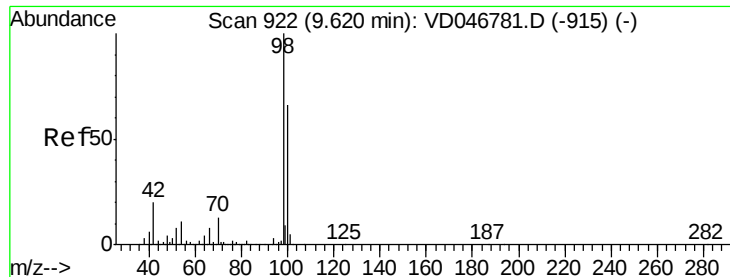


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC





#50

Toluene-d8

Concen: 7.54 ug/l

RT: 9.60 min Scan# 921

Delta R.T. -0.02 min

Lab File: VD046805.D

Acq: 21 Sep 2015 14:23

Instrument :

MSVOA_D

ClientSampleId :

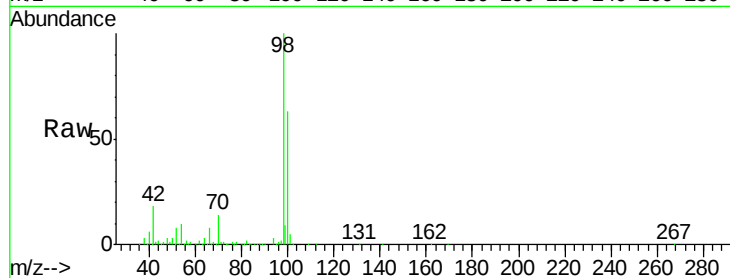
TRENCH-1-3

Tot Ion: 98 Resp: 273913

Ion Ratio Lower Upper

98 100

100 62.9 49.9 74.9



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

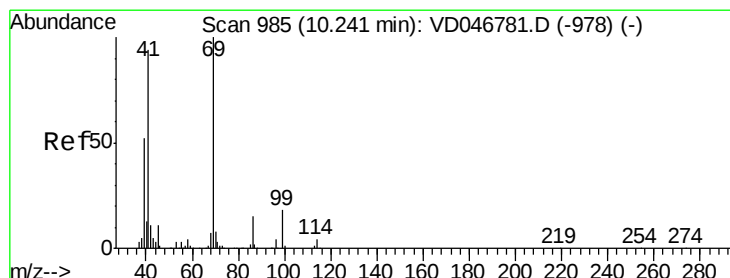
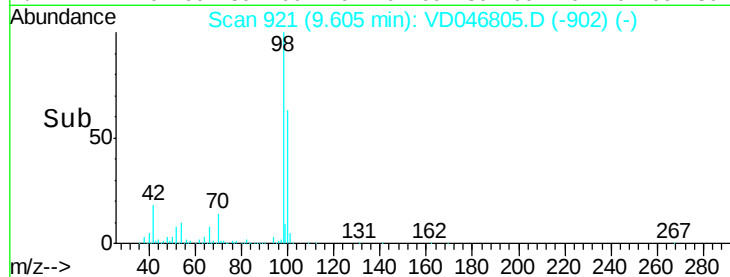
9.60

100000

50000

0

Time-->



#56

Ethyl methacrylate

Concen: 4.12 ug/l

RT: 10.21 min Scan# 982

Delta R.T. -0.03 min

Lab File: VD046805.D

Acq: 21 Sep 2015 14:23

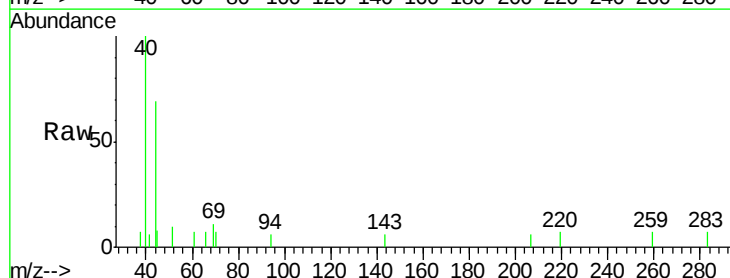
Tgt Ion: 69 Resp: 284

Ion Ratio Lower Upper

69 100

41 50.5 75.4 113.0#

39 0.0 41.0 61.4#



Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

200

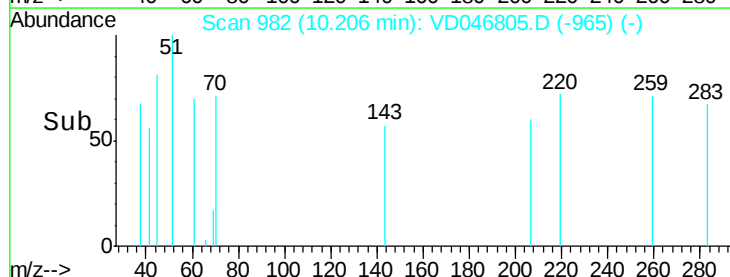
150

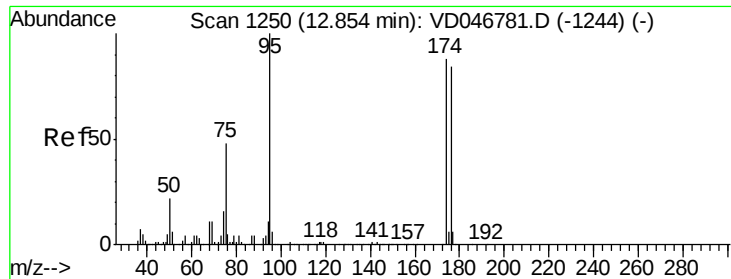
100

50

0

Time-->

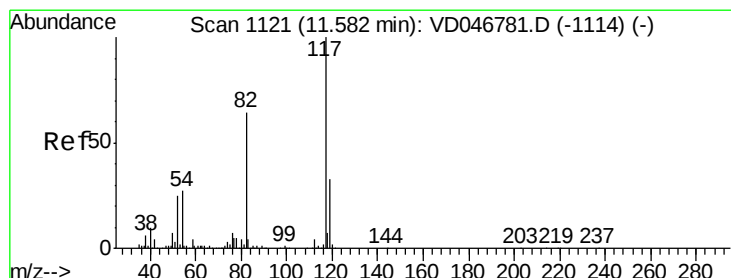
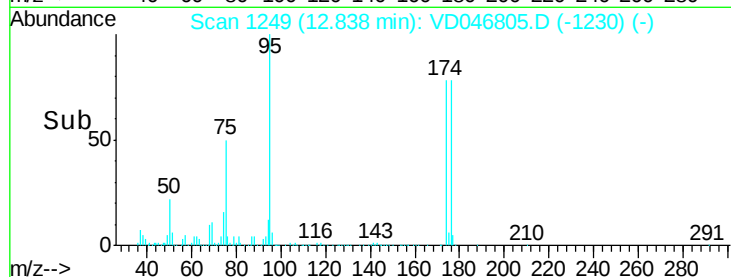
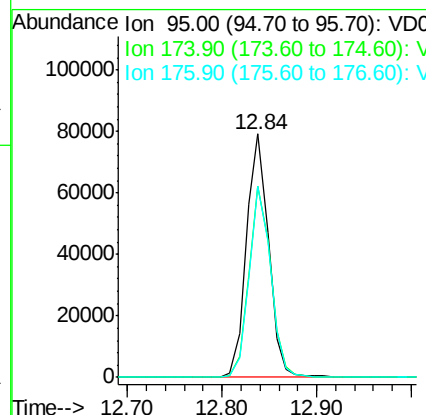
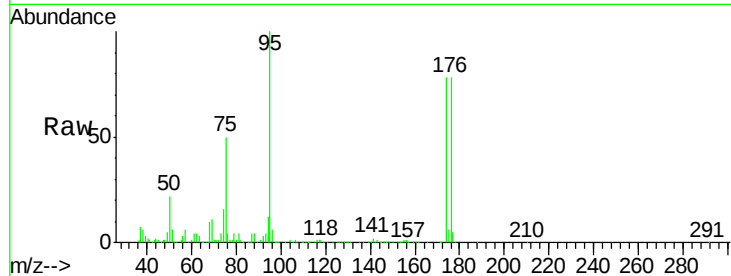




#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.84 min Scan# 1249
Delta R.T. -0.02 min
Lab File: VD046805.D
Acq: 21 Sep 2015 14:23

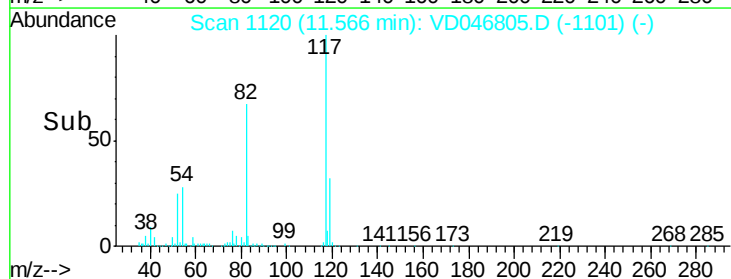
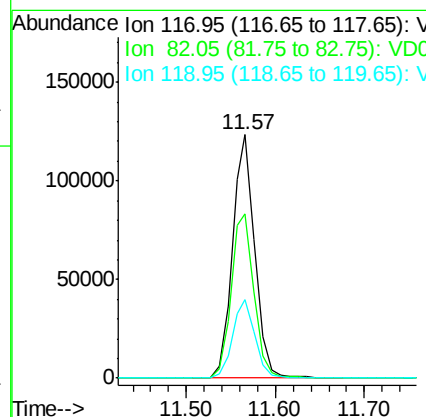
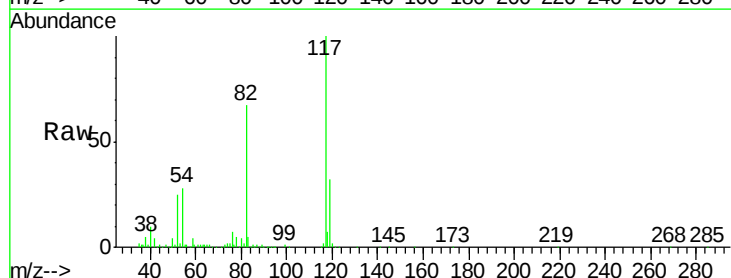
Instrument :
MSVOA_D
ClientSampleId :
TRENCH-1-3

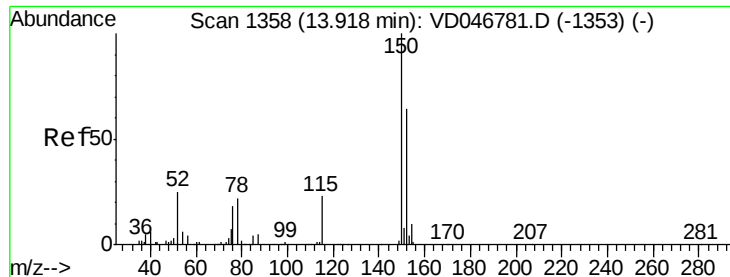
Tot Ion: 95 Resp: 128311
Ion Ratio Lower Upper
95 100
174 78.3 0.0 149.8
176 78.4 0.0 143.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.57 min Scan# 1120
Delta R.T. -0.02 min
Lab File: VD046805.D
Acq: 21 Sep 2015 14:23

Tgt Ion: 117 Resp: 217566
Ion Ratio Lower Upper
117 100
82 67.3 50.6 75.8
119 32.5 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.91 min Scan# 1358

Delta R.T. -0.01 min

Lab File: VD046805.D

Acq: 21 Sep 2015 14:23

Instrument :

MSVOA_D

ClientSampleId :

TRENCH-1-3

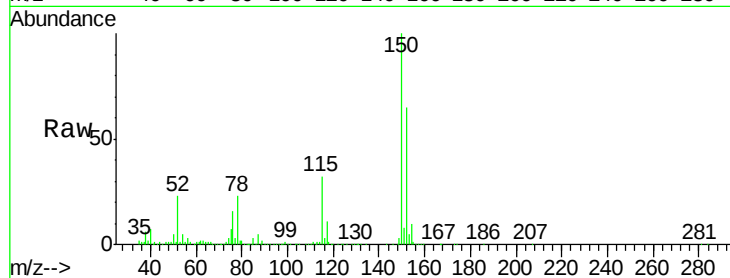
Tot Ion:152 Resp: 118360

Ion Ratio Lower Upper

152 100

115 49.5 26.2 78.6

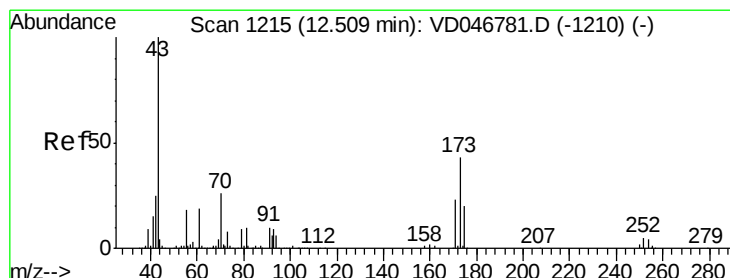
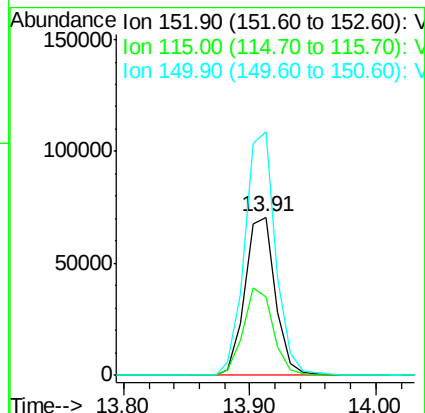
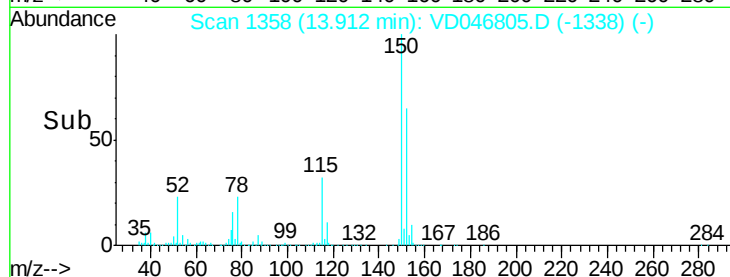
150 154.1 0.0 311.8



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



#74

N-amil acetate

Concen: 4.95 ug/l

RT: 12.48 min Scan# 1213

Delta R.T. -0.02 min

Lab File: VD046805.D

Acq: 21 Sep 2015 14:23

Tgt Ion: 43 Resp: 562

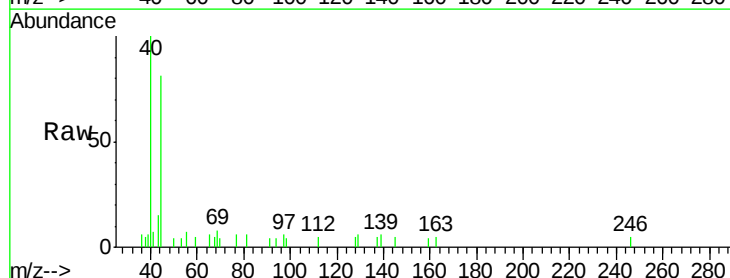
Ion Ratio Lower Upper

43 100

70 0.0 22.1 33.1#

55 47.5 14.5 21.7#

61 0.0 14.6 21.8#

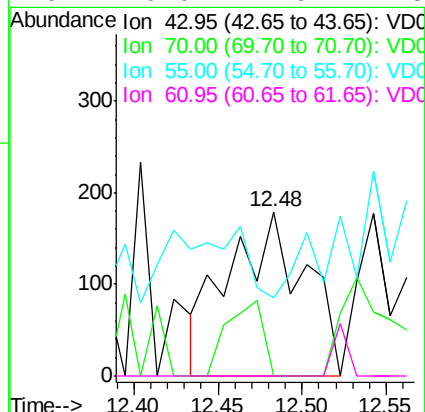
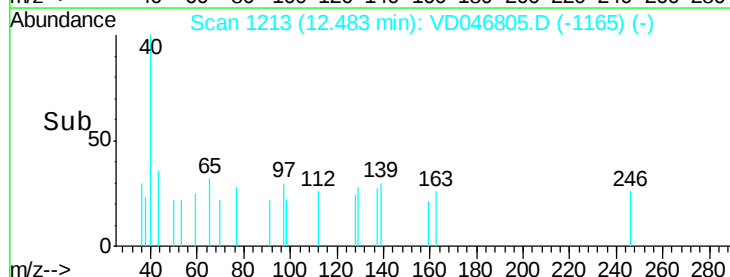


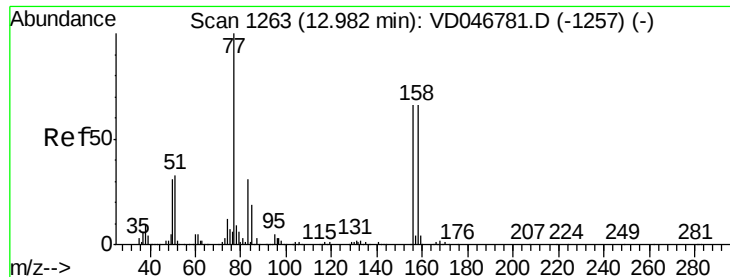
Abundance Ion 42.95 (42.65 to 43.65): VDC

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





#77

Bromobenzene

Concen: 2.50 ug/l

RT: 12.85 min Scan# 1250

Delta R.T. -0.13 min

Lab File: VD046805.D

Acq: 21 Sep 2015 14:23

Instrument :

MSVOA_D

ClientSampleId :

TRENCH-1-3

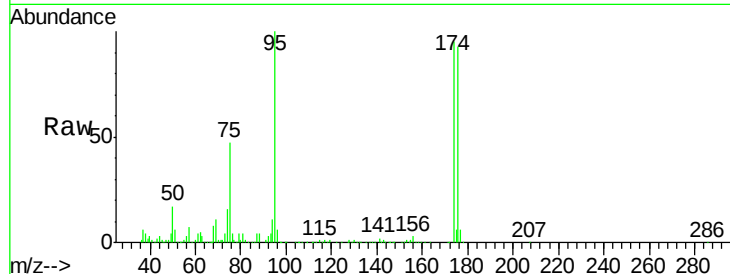
Tot Ion:156 Resp: 5246

Ion Ratio Lower Upper

156 100

77 29.7 70.3 210.8#

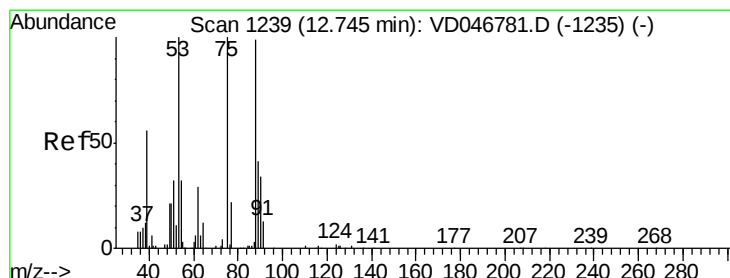
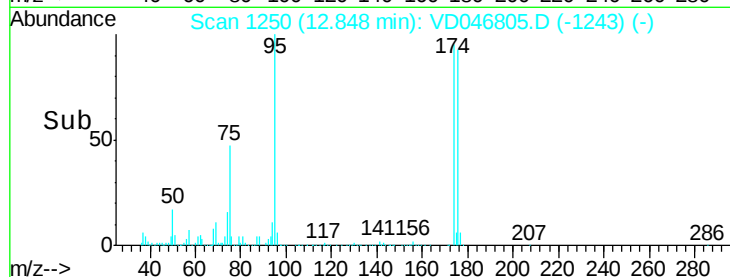
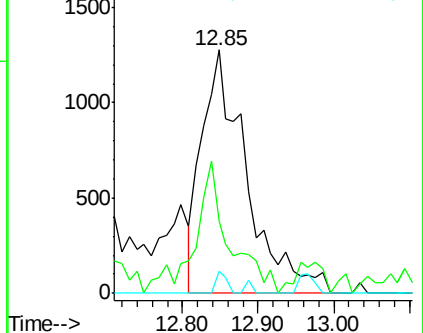
158 9.4 49.0 147.0#



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#81

trans-1,4-Dichloro-2-butene

Concen: 154.13 ug/l

RT: 12.84 min Scan# 1249

Delta R.T. 0.09 min

Lab File: VD046805.D

Acq: 21 Sep 2015 14:23

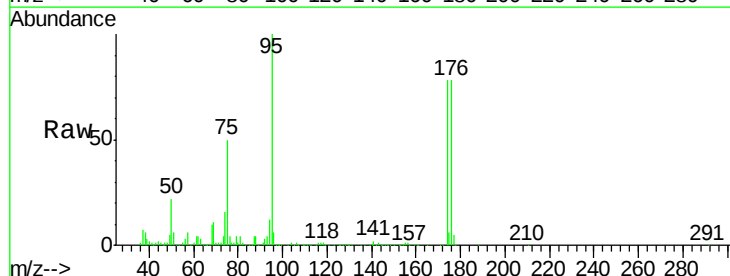
Tgt Ion: 75 Resp: 64460

Ion Ratio Lower Upper

75 100

53 0.2 82.3 123.5#

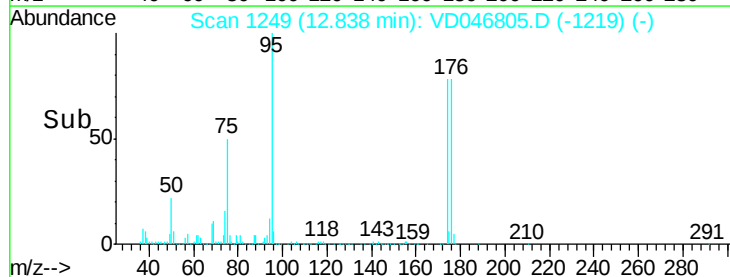
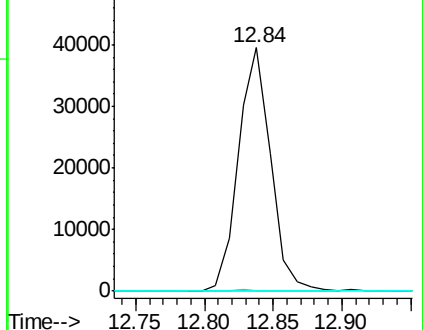
89 0.4 36.6 54.8#

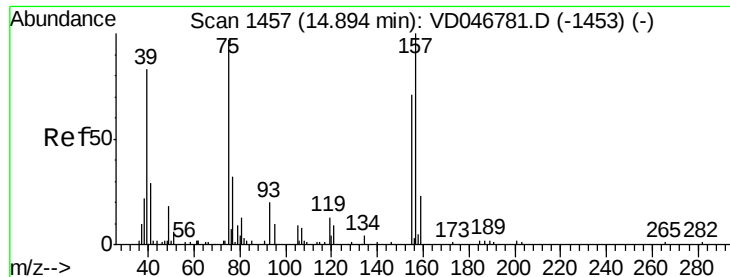


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 53.00 (52.70 to 53.70): V

Ion 89.00 (88.70 to 89.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.29 ug/l

RT: 14.86 min Scan# 1454

Delta R.T. -0.04 min

Lab File: VD046805.D

Acq: 21 Sep 2015 14:23

Instrument :

MSVOA_D

ClientSampleId :

TRENCH-1-3

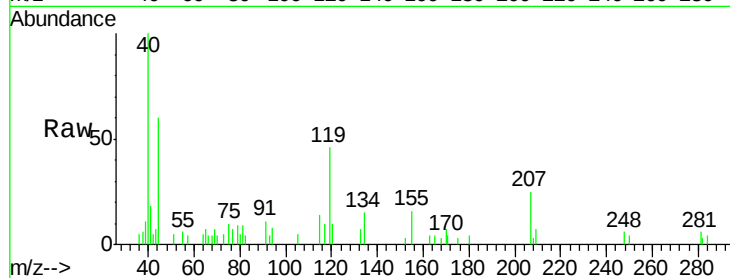
Tot Ion: 75 Resp: 224

Ion Ratio Lower Upper

75 100

155 166.0 41.4 124.4#

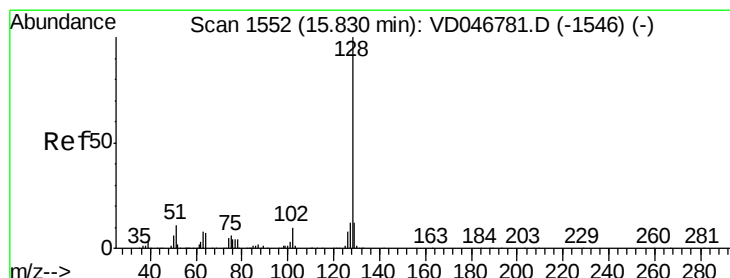
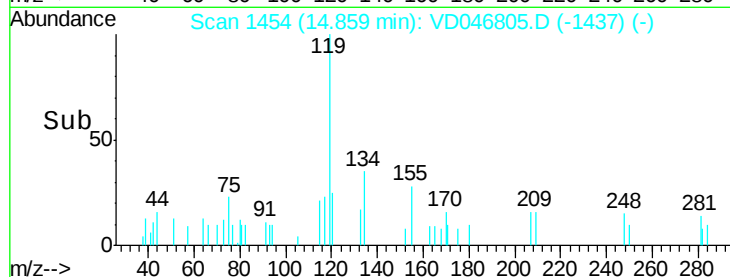
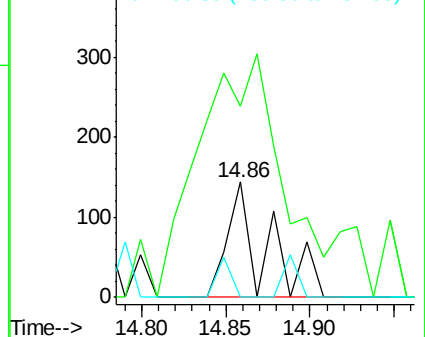
157 0.0 65.0 195.1#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V



#95

Naphthalene

Concen: 2.64 ug/l

RT: 15.81 min Scan# 1551

Delta R.T. -0.02 min

Lab File: VD046805.D

Acq: 21 Sep 2015 14:23

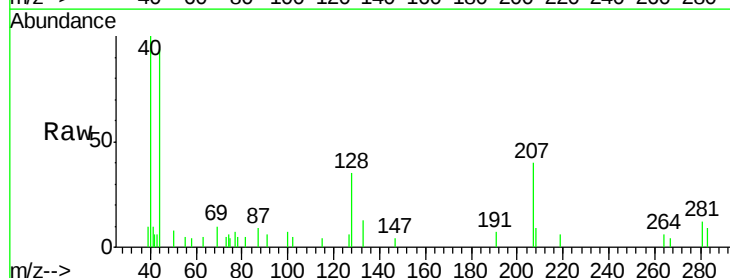
Tgt Ion: 128 Resp: 693

Ion Ratio Lower Upper

128 100

127 17.6 9.8 14.6#

129 0.0 8.6 12.8#



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

