

Data Path : W:\HPCHEM1\MSVOA D\DATA\VD092115\
 Data File : VD046807.D
 Acq On : 21 Sep 2015 15:16
 Operator : FY/SY
 Sample : G3747-05
 Misc : 5.56µm/5mL/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TRENCH-2-1

Quant Time: Sep 22 01:03:44 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	173141	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.42	114	229364	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.57	117	203673	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.91	152	92549	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.70	65	86940	48.30	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	96.60%	
35) Dibromofluoromethane	6.19	113	91689	51.09	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	102.18%	
50) Toluene-d8	9.60	98	256512	45.31	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	90.62%	
62) 4-Bromofluorobenzene	12.84	95	99728	43.75	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	87.50%	

Target Compounds

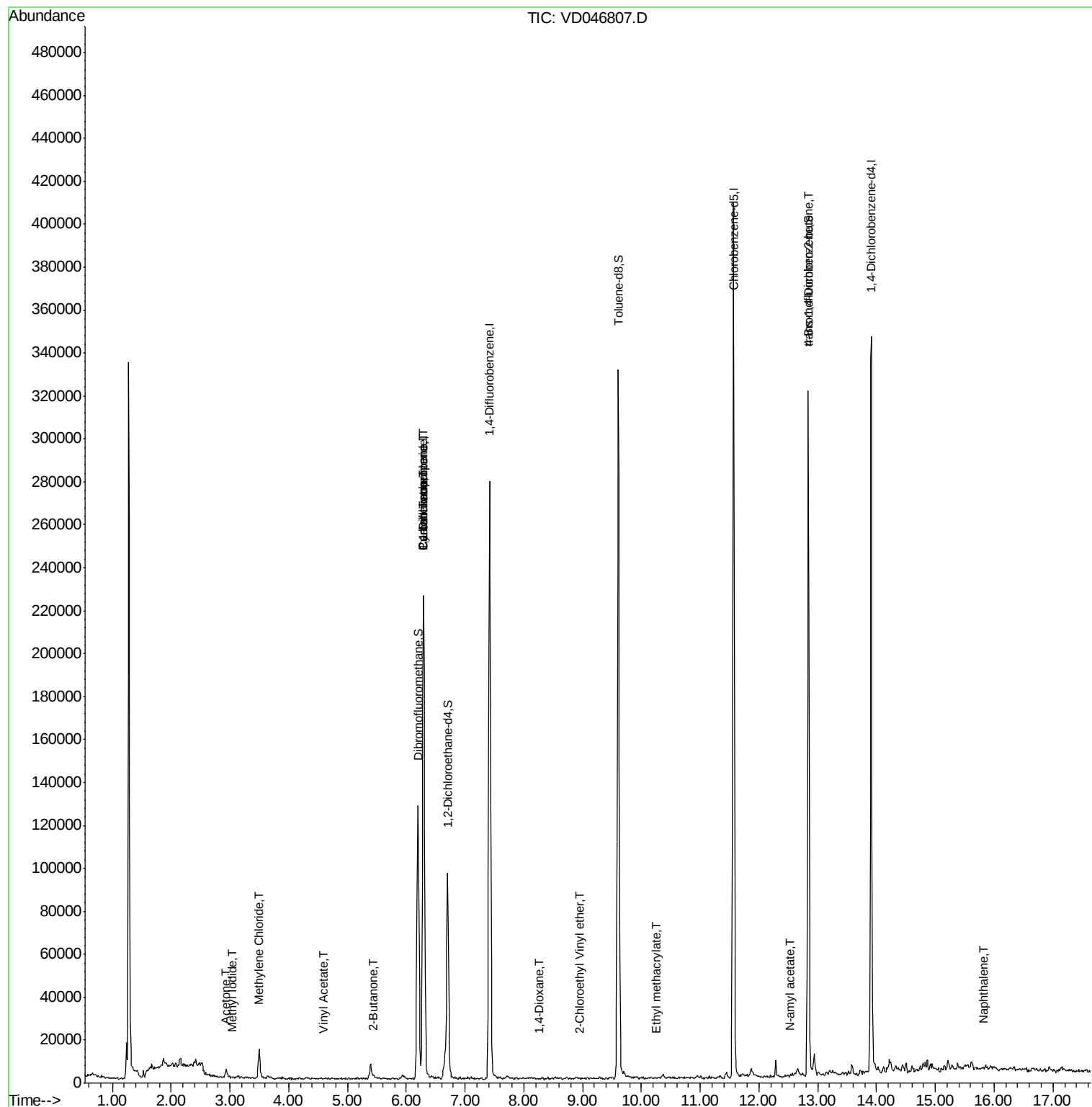
						Qvalue
2) Dichlorodifluoromethane	1.42	85	735	Below Cal	#	54
3) Chlorodifluoromethane	1.43	51	900	Below Cal	#	92
6) Bromomethane	1.98	94	513	Below Cal	#	72
11) Methyl Iodide	3.03	142	30	1.75	ug/l	# 35
12) Tert butyl alcohol	3.66	59	1257	Below Cal	#	74
17) Acetone	2.94	43	6296	20.70	ug/l	# 91
21) Methylene Chloride	3.49	84	6159	3.73	ug/l	# 92
24) Vinyl Acetate	4.59	43	91	15.07	ug/l	# 82
26) 2-Butanone	5.44	43	1669	4.88	ug/l	# 66
31) Cyclohexane	6.29	56	4876	1.80	ug/l	# 16
36) 1,1-Dichloropropene	6.29	75	15090	5.63	ug/l	# 51
38) Carbon Tetrachloride	6.29	117	16031	5.76	ug/l	# 17
49) 1,4-Dioxane	8.27	88	31	4.83	ug/l	# 1
56) Ethyl methacrylate	10.24	69	150	4.00	ug/l	# 45
58) 2-Chloroethyl Vinyl ether	8.95	63	41	6.40	ug/l	# 53
74) N-amyl acetate	12.52	43	337	4.90	ug/l	# 45
81) trans-1,4-Dichloro-2-buten	12.84	75	52177	159.42	ug/l	# 9
95) Naphthalene	15.81	128	1308	3.01	ug/l	# 86

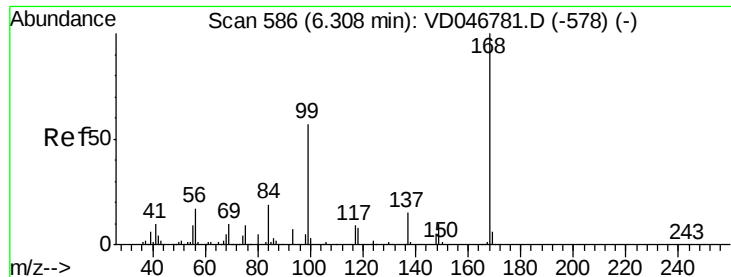
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD046807.D

Acq: 21 Sep 2015 15:16

Instrument :

MSVOA_D

ClientSampleId :

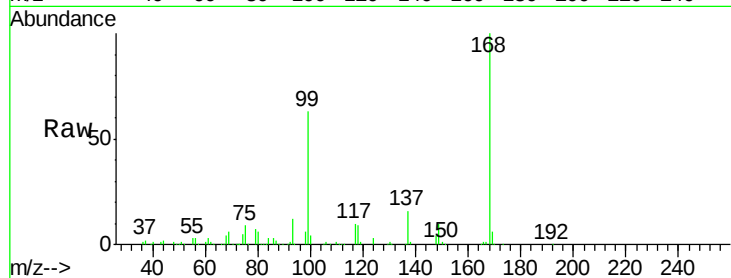
TRENCH-2-1

Tot Ion:168 Resp: 173141

Ion Ratio Lower Upper

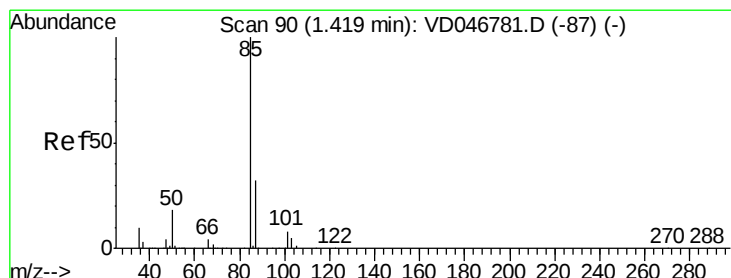
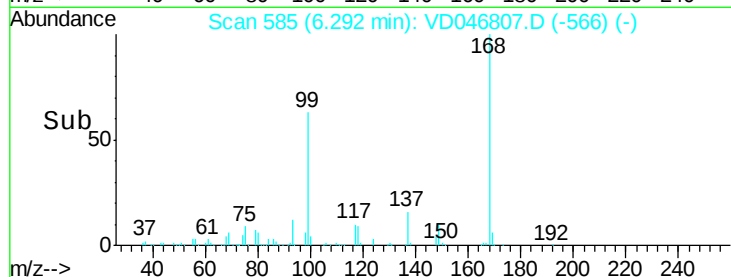
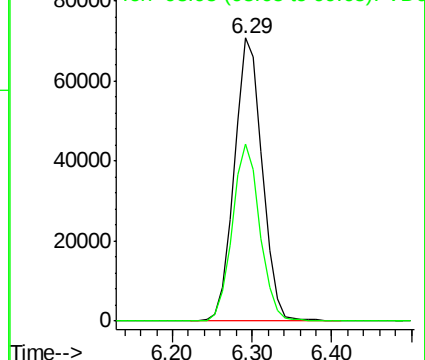
168 100

99 62.5 42.4 63.6



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: 1.42 min Scan# 91

Delta R.T. 0.00 min

Lab File: VD046807.D

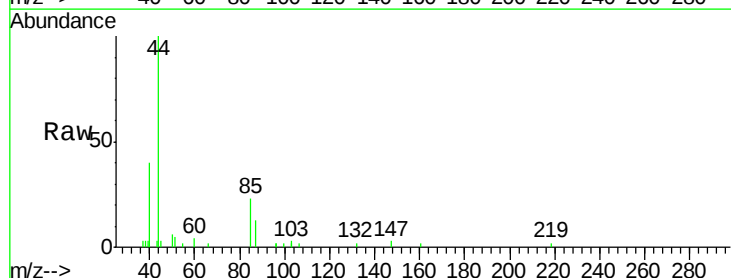
Acq: 21 Sep 2015 15:16

Tgt Ion: 85 Resp: 735

Ion Ratio Lower Upper

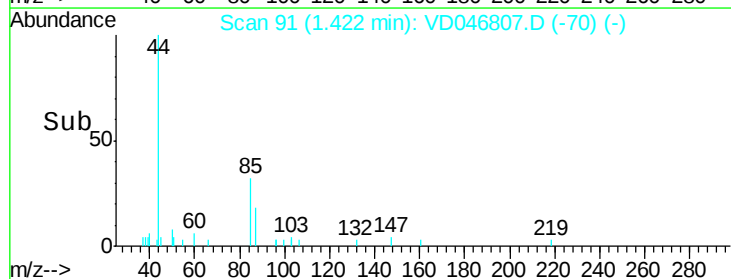
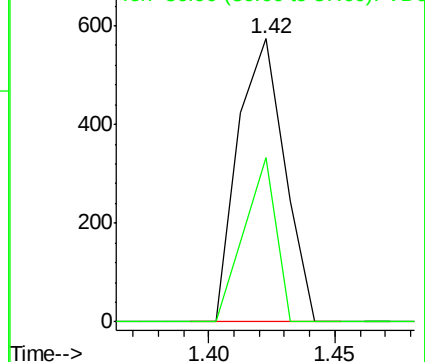
85 100

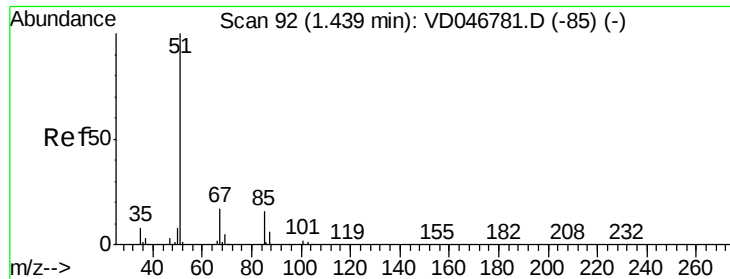
87 58.3 16.2 48.5#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chlorodifluoromethane

Concen: Below Cal

RT: 1.43 min Scan# 92

Delta R.T. -0.01 min

Lab File: VD046807.D

Acq: 21 Sep 2015 15:16

Instrument :

MSVOA_D

ClientSampleId :

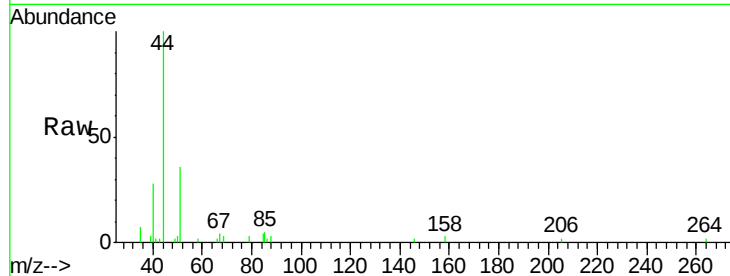
TRENCH-2-1

Tot Ion: 51 Resp: 900

Ion Ratio Lower Upper

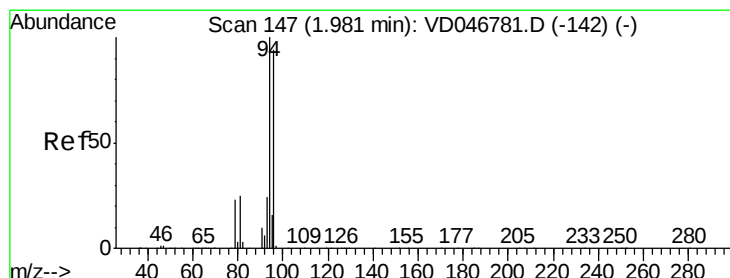
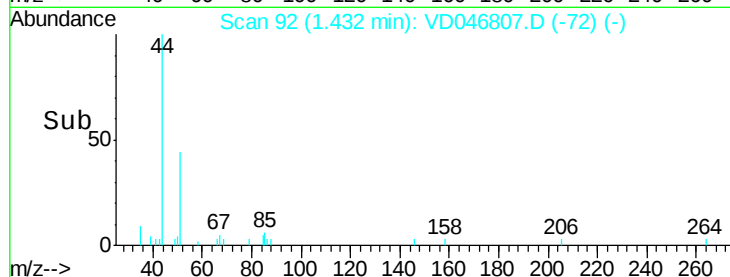
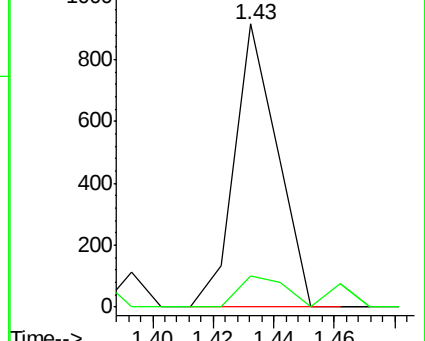
51 100

67 16.9 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: 1.98 min Scan# 148

Delta R.T. 0.00 min

Lab File: VD046807.D

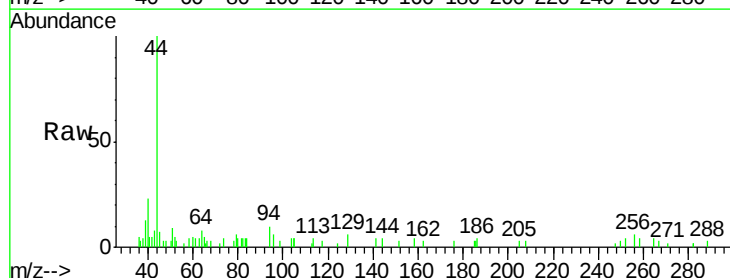
Acq: 21 Sep 2015 15:16

Tgt Ion: 94 Resp: 513

Ion Ratio Lower Upper

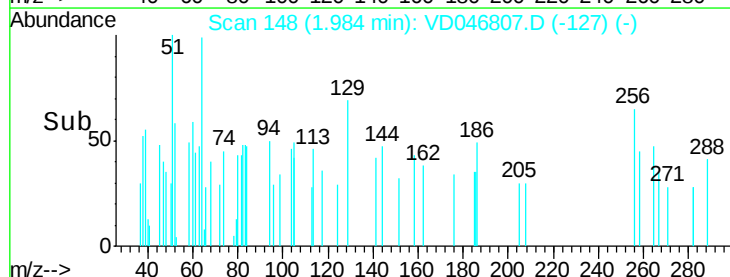
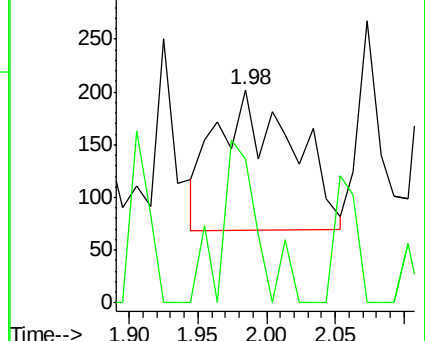
94 100

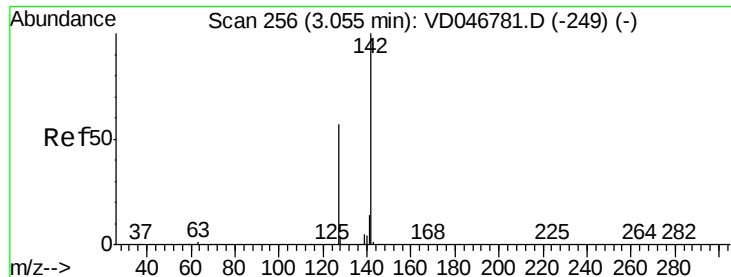
96 67.8 76.0 114.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#11

Methyl Iodide

Concen: 1.75 ug/l

RT: 3.03 min Scan# 254

Delta R.T. -0.03 min

Lab File: VD046807.D

Acq: 21 Sep 2015 15:16

Instrument :

MSVOA_D

ClientSampleId :

TRENCH-2-1

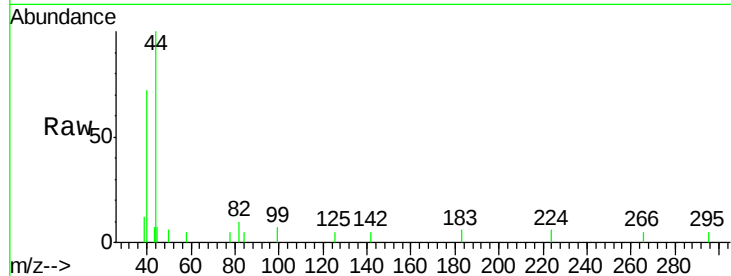
Tot Ion:142 Resp: 30

Ion Ratio Lower Upper

142 100

127 0.0 41.2 61.8#

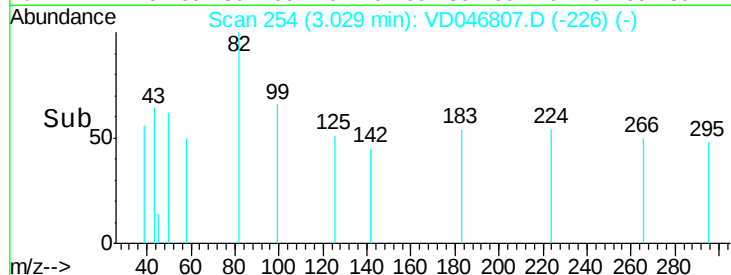
141 0.0 11.6 17.4#



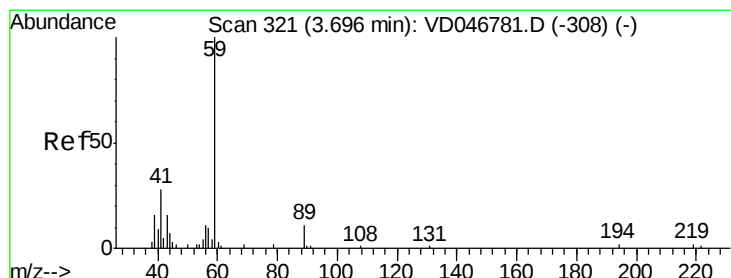
Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



Time-->



#12

Tert butyl alcohol

Concen: Below Cal

RT: 3.66 min Scan# 318

Delta R.T. -0.04 min

Lab File: VD046807.D

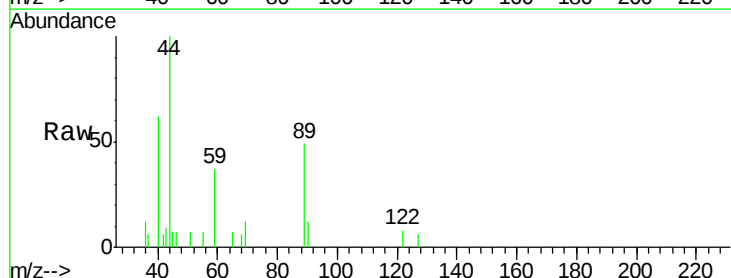
Acq: 21 Sep 2015 15:16

Tgt Ion: 59 Resp: 1257

Ion Ratio Lower Upper

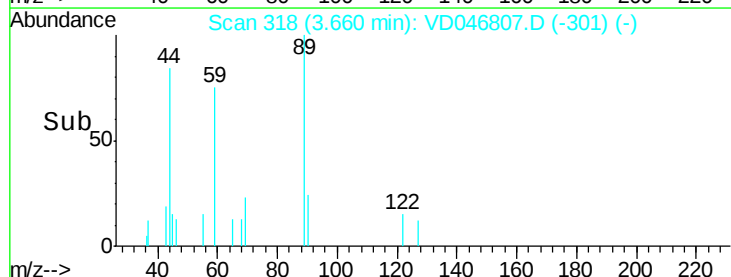
59 100

57 0.0 7.8 11.6#

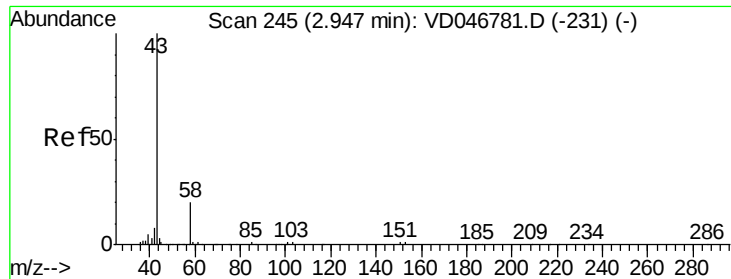


Abundance Ion 58.95 (58.65 to 59.65): V

Ion 56.95 (56.65 to 57.65): V



Time-->



#17

Acetone

Concen: 20.70 ug/l

RT: 2.94 min Scan# 245

Delta R.T. -0.01 min

Lab File: VD046807.D

Acq: 21 Sep 2015 15:16

Instrument :

MSVOA_D

ClientSampleId :

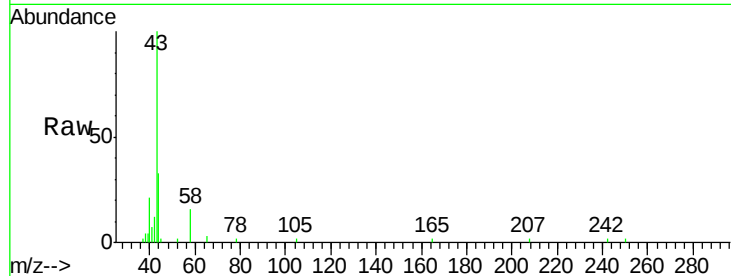
TRENCH-2-1

Tot Ion: 43 Resp: 6296

Ion Ratio Lower Upper

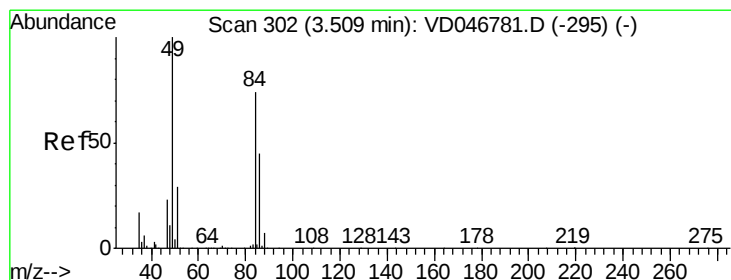
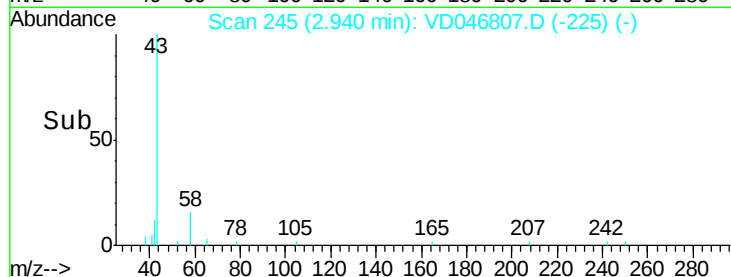
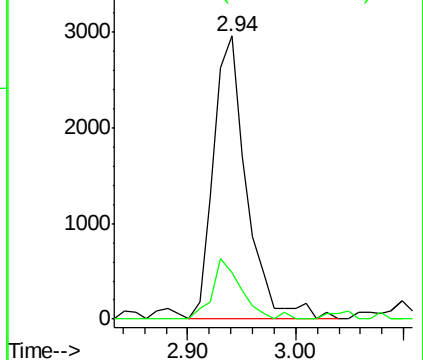
43 100

58 16.3 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: 3.73 ug/l

RT: 3.49 min Scan# 301

Delta R.T. -0.02 min

Lab File: VD046807.D

Acq: 21 Sep 2015 15:16

Tgt Ion: 84 Resp: 6159

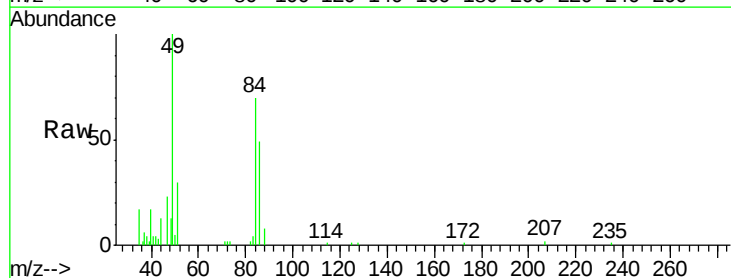
Ion Ratio Lower Upper

84 100

49 142.0 122.1 183.1

51 42.5 33.6 50.4

86 69.8 48.3 72.5

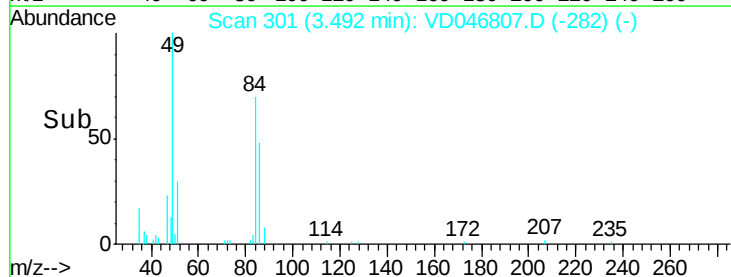
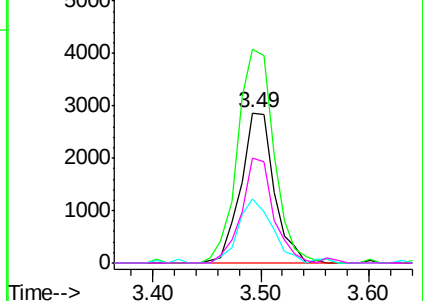


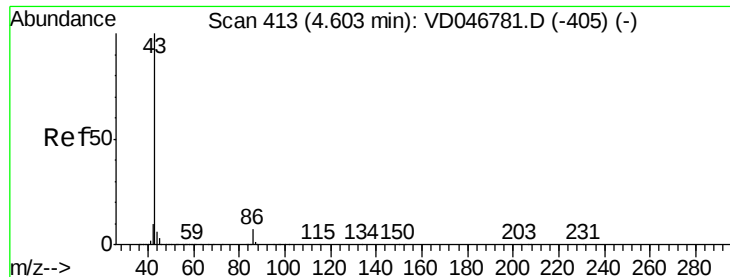
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 15.07 ug/l

RT: 4.59 min Scan# 412

Delta R.T. -0.02 min

Lab File: VD046807.D

Acq: 21 Sep 2015 15:16

Instrument :

MSVOA_D

ClientSampleId :

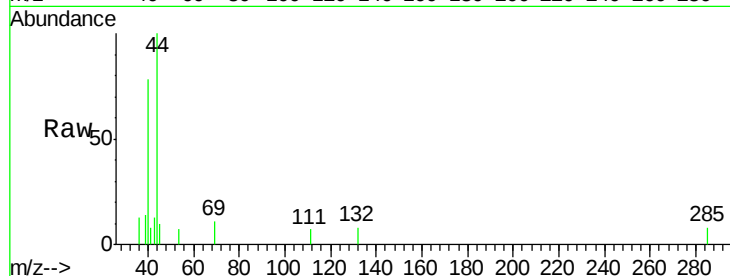
TRENCH-2-1

Tot Ion: 43 Resp: 91

Ion Ratio Lower Upper

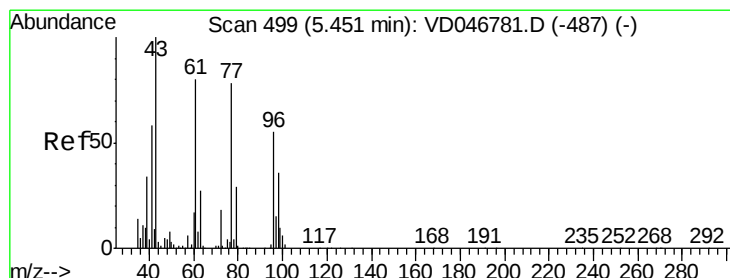
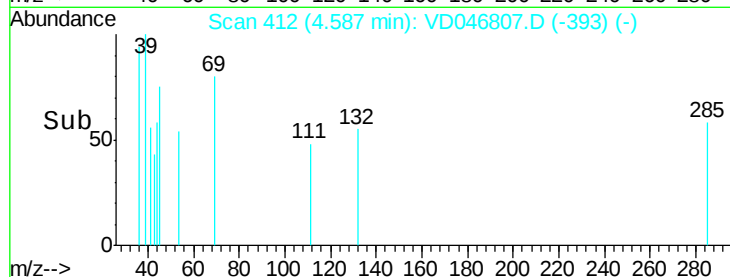
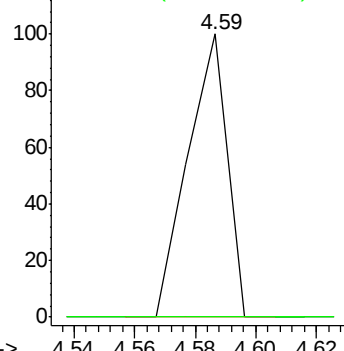
43 100

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: 4.88 ug/l

RT: 5.44 min Scan# 499

Delta R.T. -0.01 min

Lab File: VD046807.D

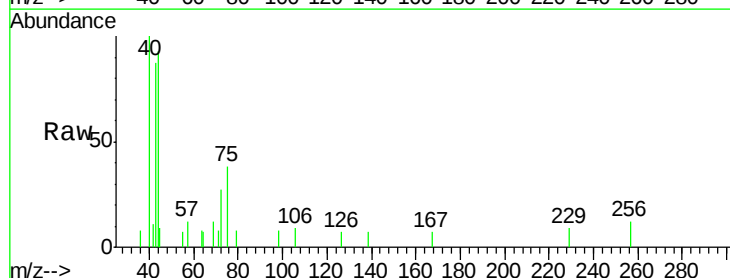
Acq: 21 Sep 2015 15:16

Tgt Ion: 43 Resp: 1669

Ion Ratio Lower Upper

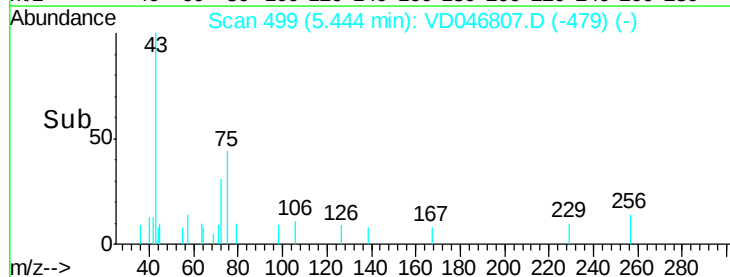
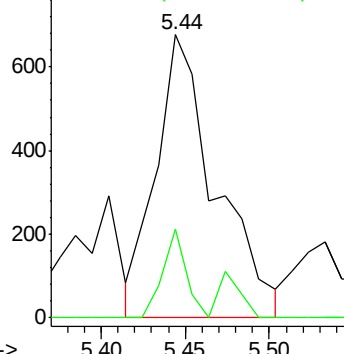
43 100

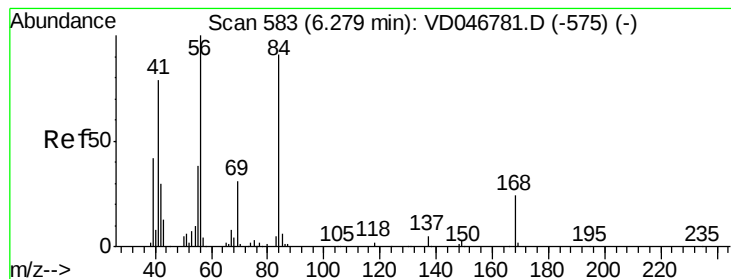
72 31.5 13.4 20.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#31

Cyclohexane

Concen: 1.80 ug/l

RT: 6.29 min Scan# 585

Delta R.T. 0.01 min

Lab File: VD046807.D

Acq: 21 Sep 2015 15:16

Instrument :

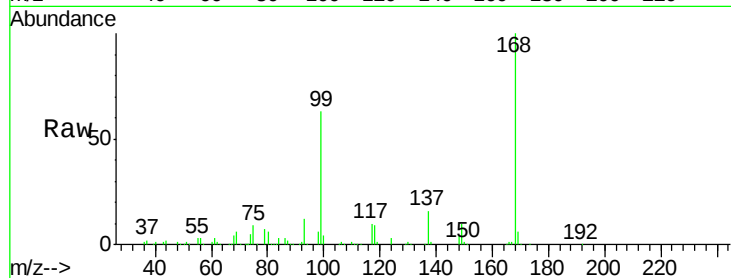
MSVOA_D

ClientSampleId :

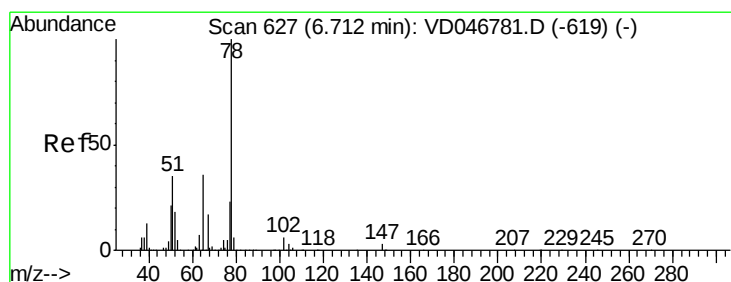
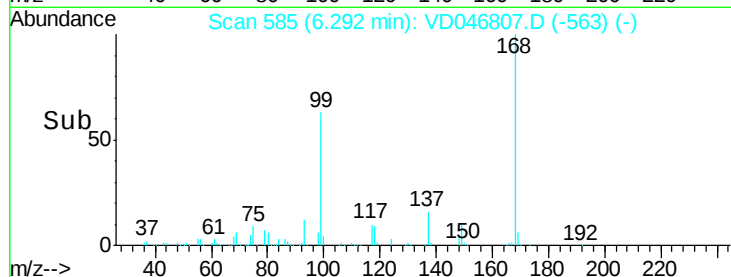
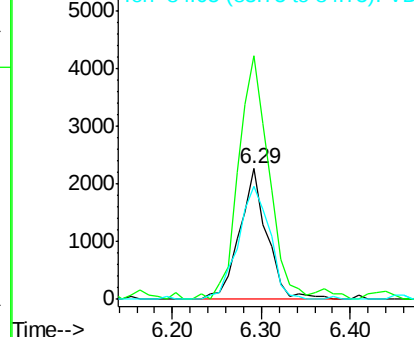
TRENCH-2-1

Tot Ion: 56 Resp: 4876

Ion	Ratio	Lower	Upper
56	100		
69	186.4	23.4	35.0#
84	86.4	63.8	95.8



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: Below ug/l

RT: 6.70 min Scan# 626

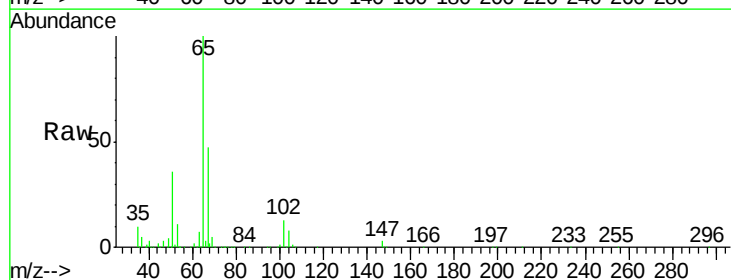
Delta R.T. -0.02 min

Lab File: VD046807.D

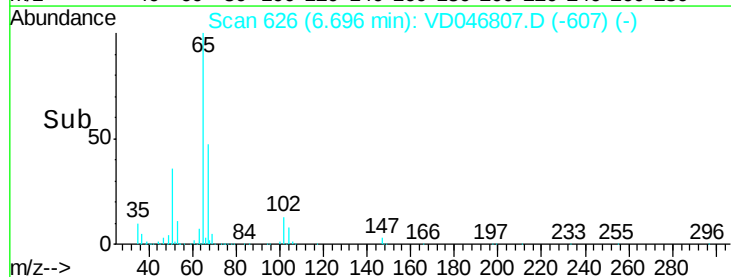
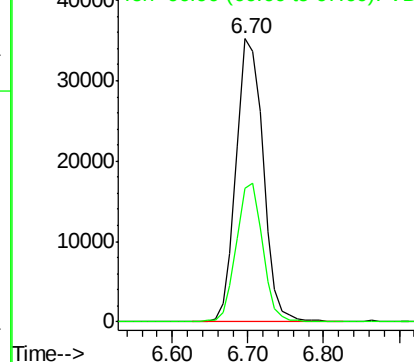
Acq: 21 Sep 2015 15:16

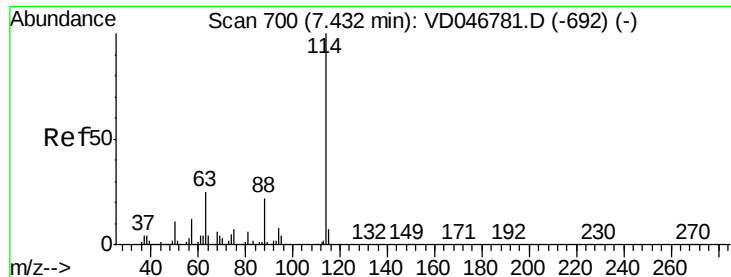
Tgt Ion: 65 Resp: 86940

Ion	Ratio	Lower	Upper
65	100		
67	47.1	0.0	105.4



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 7.42 min Scan# 699

Delta R.T. -0.02 min

Lab File: VD046807.D

Acq: 21 Sep 2015 15:16

Instrument :

MSVOA_D

ClientSampleId :

TRENCH-2-1

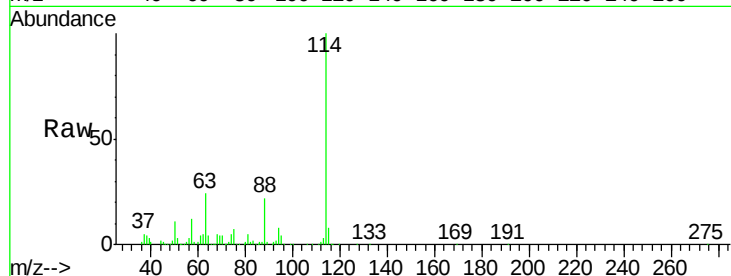
Tot Ion:114 Resp: 229364

Ion Ratio Lower Upper

114 100

63 24.0 0.0 49.8

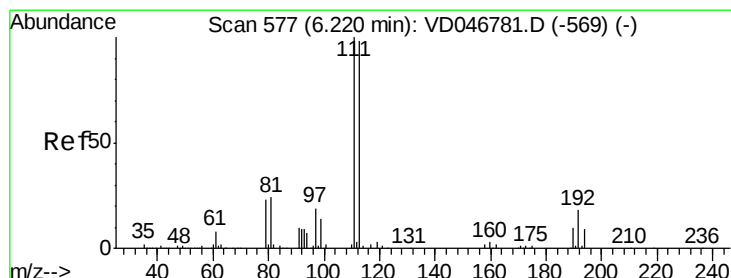
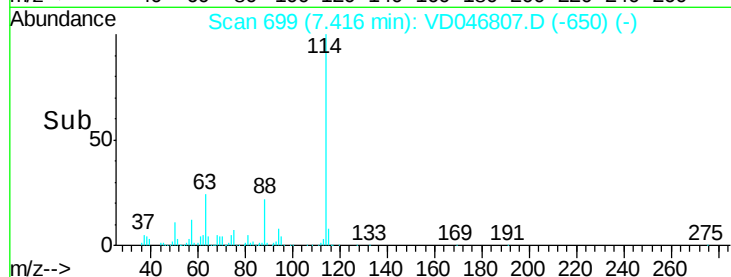
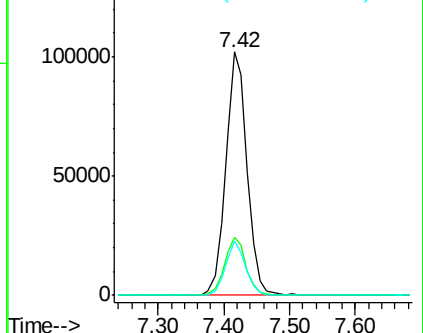
88 22.4 0.0 43.6



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: 50.00 ug/l

RT: 6.19 min Scan# 575

Delta R.T. -0.03 min

Lab File: VD046807.D

Acq: 21 Sep 2015 15:16

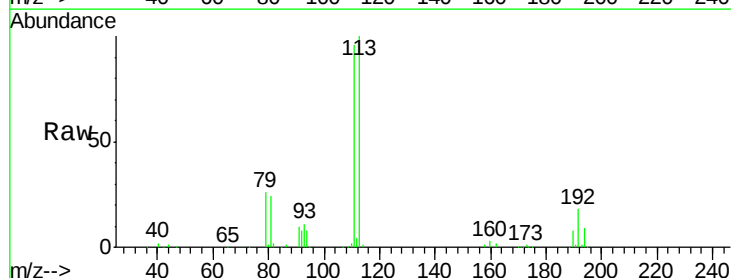
Tgt Ion:113 Resp: 91689

Ion Ratio Lower Upper

113 100

111 96.0 79.4 119.0

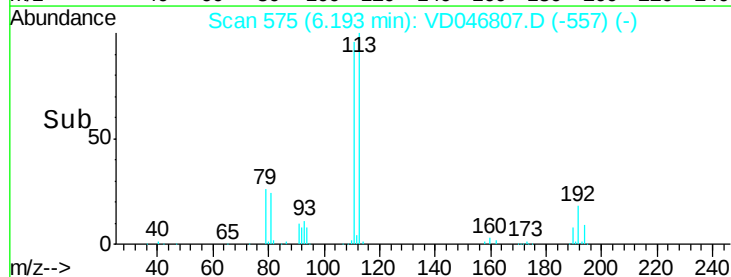
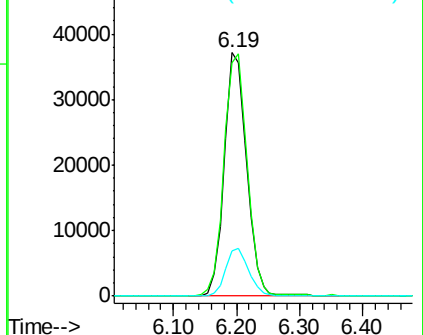
192 18.4 14.6 22.0

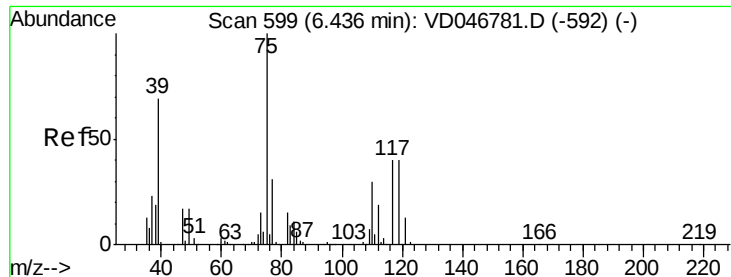


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.63 ug/l

RT: 6.29 min Scan# 585

Delta R.T. -0.14 min

Lab File: VD046807.D

Acq: 21 Sep 2015 15:16

Instrument :

MSVOA_D

ClientSampleId :

TRENCH-2-1

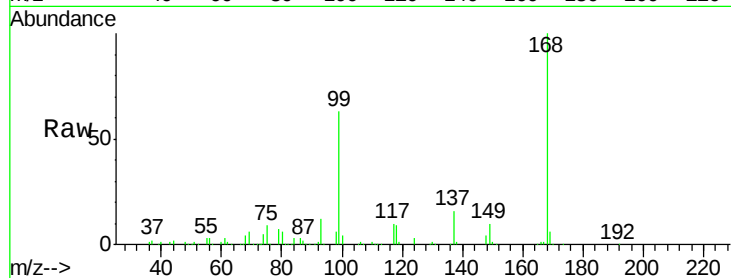
Tot Ion: 75 Resp: 15090

Ion Ratio Lower Upper

75 100

110 6.6 13.7 41.0#

77 0.0 24.7 37.1#



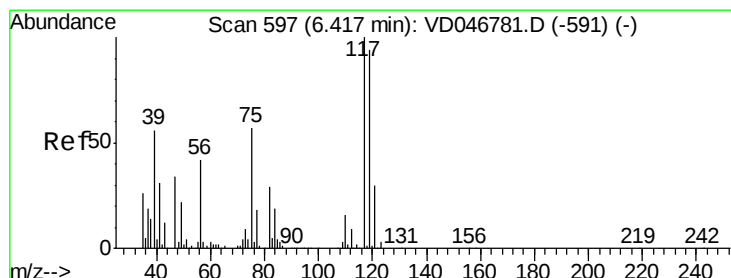
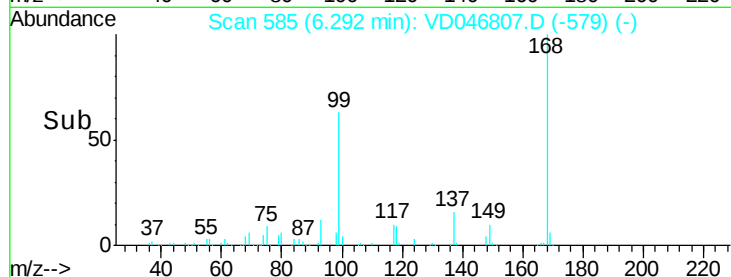
Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

6.29

Time-->



#38

Carbon Tetrachloride

Concen: 5.76 ug/l

RT: 6.29 min Scan# 585

Delta R.T. -0.12 min

Lab File: VD046807.D

Acq: 21 Sep 2015 15:16

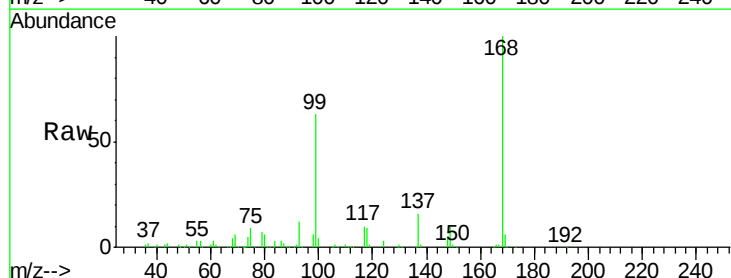
Tgt Ion: 117 Resp: 16031

Ion Ratio Lower Upper

117 100

119 5.5 76.2 114.4#

121 0.0 24.5 36.7#



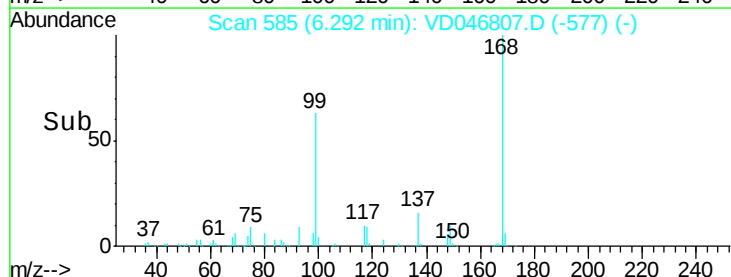
Abundance Ion 116.85 (116.55 to 117.55): V

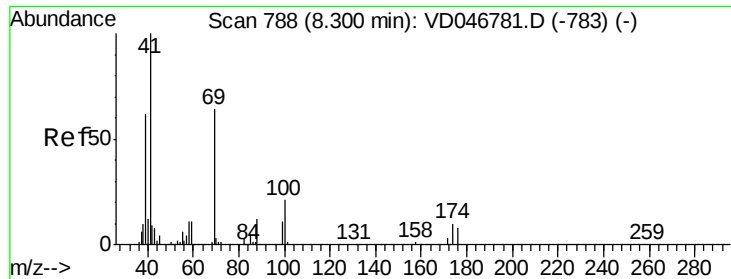
Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

6.29

Time-->

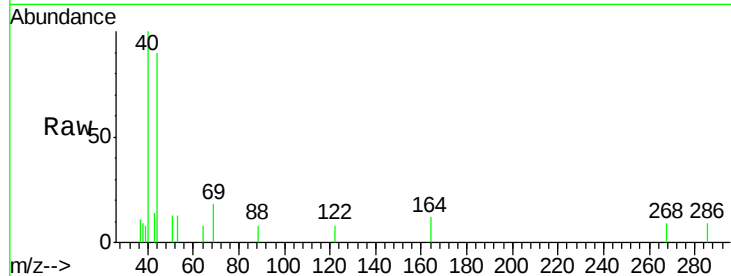




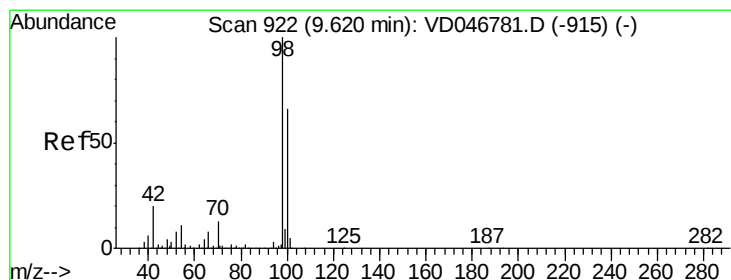
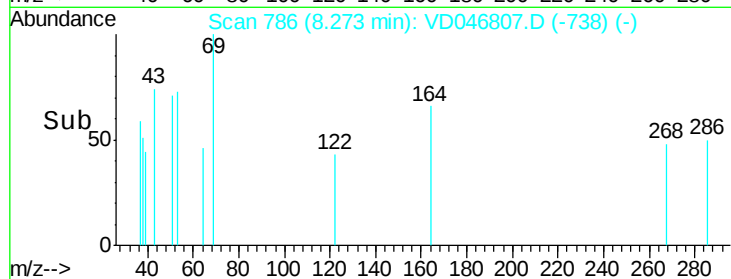
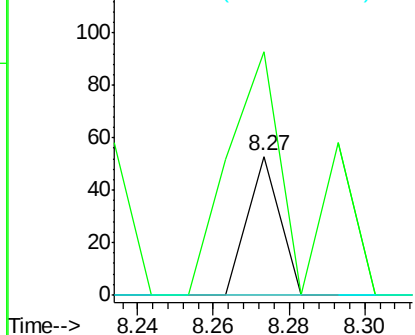
#49
1,4-Dioxane
Concen: 4.83 ug/l
RT: 8.27 min Scan# 786
Delta R.T. -0.03 min
Lab File: VD046807.D
Acq: 21 Sep 2015 15:16

Instrument :
MSVOA_D
ClientSampleId :
TRENCH-2-1

Tot Ion: 88 Resp: 31
Ion Ratio Lower Upper
88 100
43 175.5 50.0 75.0#
58 0.0 48.3 72.5#

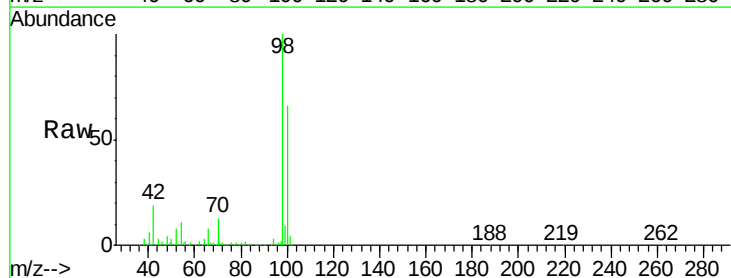


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

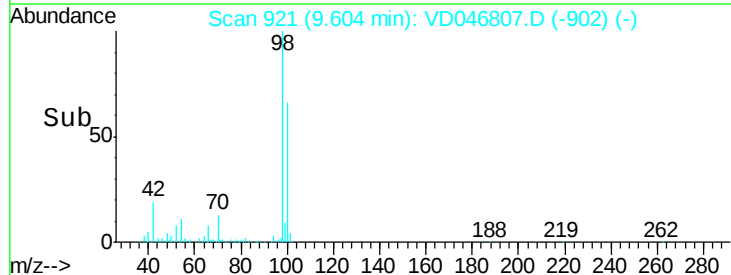
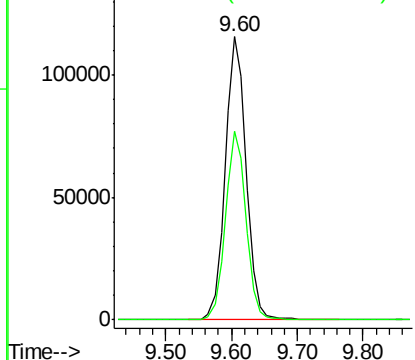


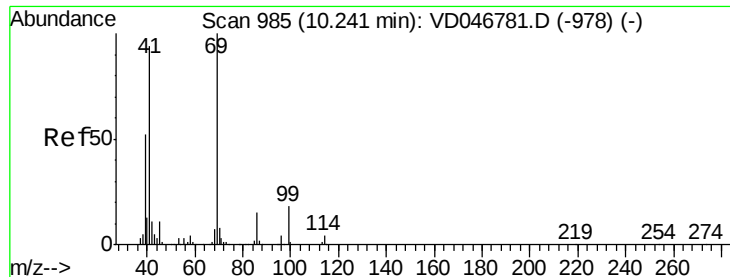
#50
Toluene-d8
Concen: 4.83 ug/l
RT: 9.60 min Scan# 921
Delta R.T. -0.02 min
Lab File: VD046807.D
Acq: 21 Sep 2015 15:16

Tgt Ion: 98 Resp: 256512
Ion Ratio Lower Upper
98 100
100 66.5 49.9 74.9



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





#56

Ethyl methacrylate

Concen: 4.00 ug/l

RT: 10.24 min Scan# 986

Delta R.T. 0.00 min

Lab File: VD046807.D

Acq: 21 Sep 2015 15:16

Instrument :

MSVOA_D

ClientSampleId :

TRENCH-2-1

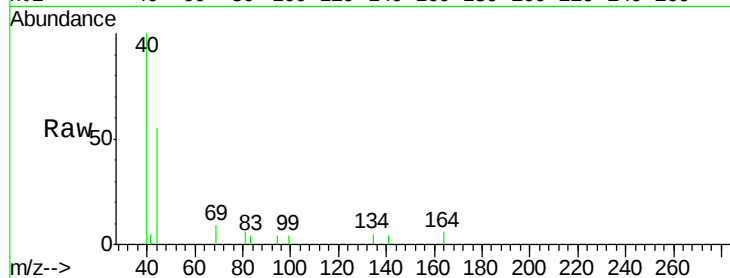
Tot Ion: 69 Resp: 150

Ion Ratio Lower Upper

69 100

41 50.4 75.4 113.0#

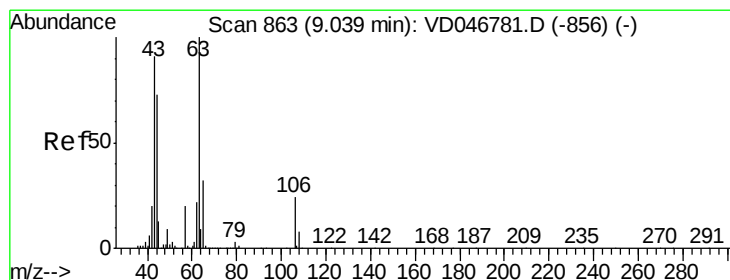
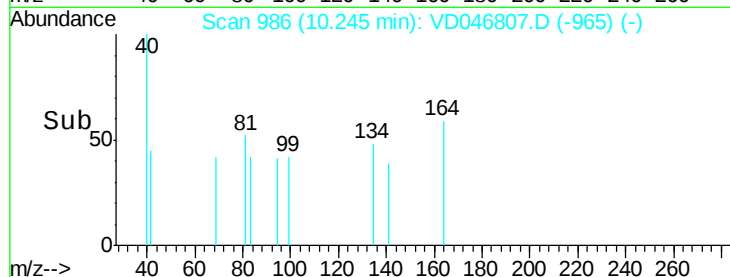
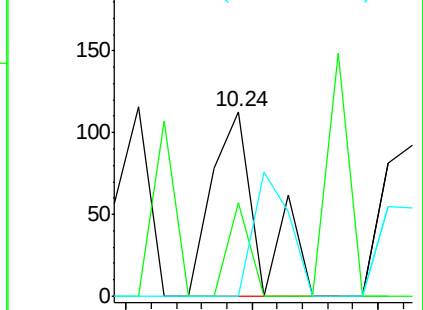
39 0.0 41.0 61.4#



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



#58

2-Chloroethyl Vinyl ether

Concen: 6.40 ug/l

RT: 8.95 min Scan# 855

Delta R.T. -0.08 min

Lab File: VD046807.D

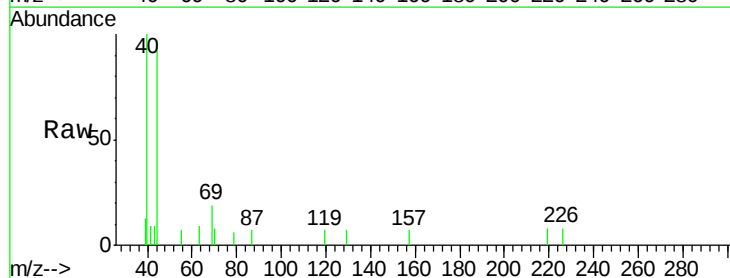
Acq: 21 Sep 2015 15:16

Tgt Ion: 63 Resp: 41

Ion Ratio Lower Upper

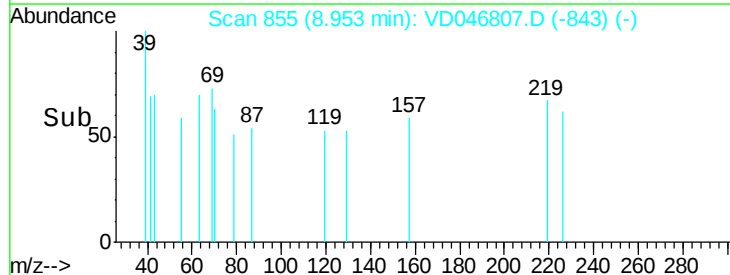
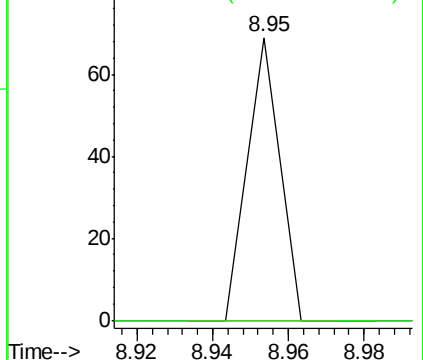
63 100

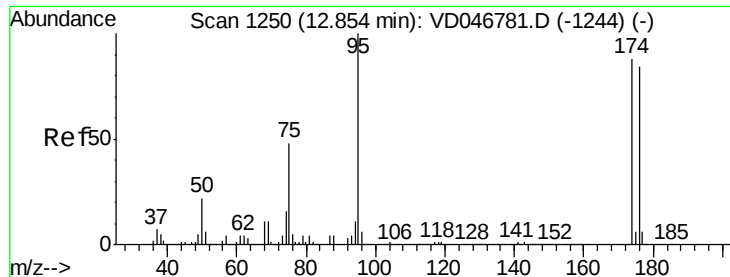
106 0.0 17.8 26.8#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.84 min Scan# 1249

Delta R.T. -0.02 min

Lab File: VD046807.D

Acq: 21 Sep 2015 15:16

Instrument :

MSVOA_D

ClientSampleId :

TRENCH-2-1

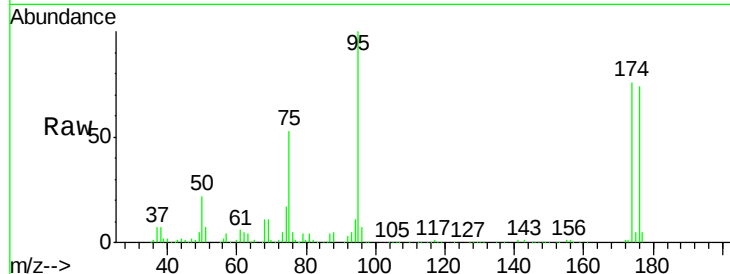
Tot Ion: 95 Resp: 99728

Ion Ratio Lower Upper

95 100

174 76.3 0.0 149.8

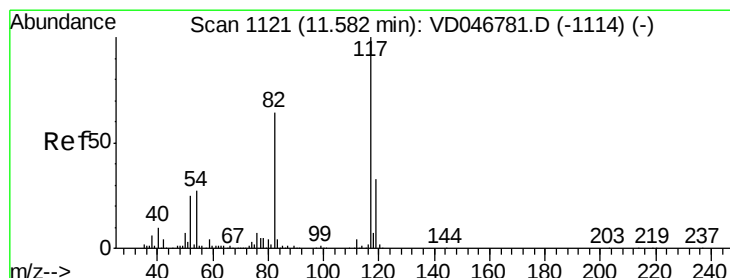
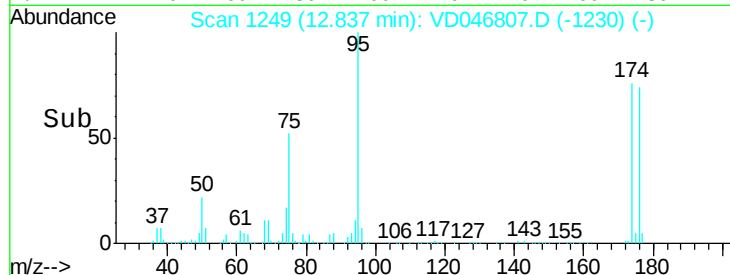
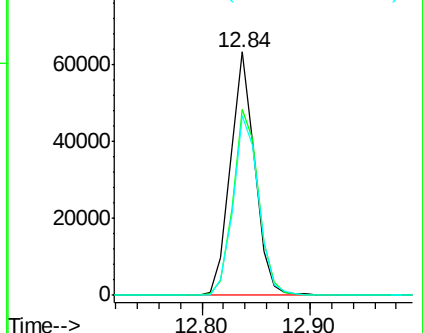
176 73.9 0.0 143.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.57 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VD046807.D

Acq: 21 Sep 2015 15:16

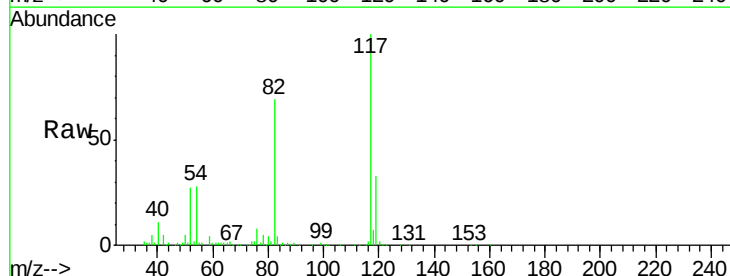
Tgt Ion: 117 Resp: 203673

Ion Ratio Lower Upper

117 100

82 68.9 50.6 75.8

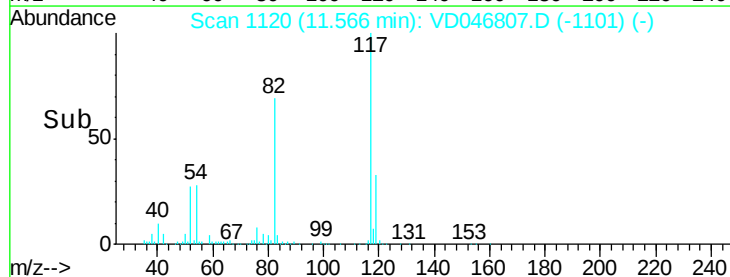
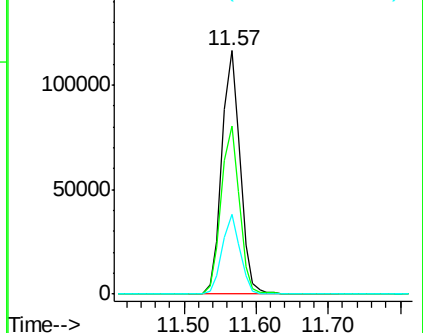
119 32.6 25.8 38.8

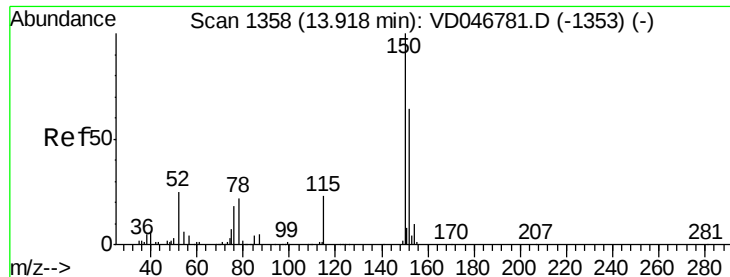


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.91 min Scan# 1358

Delta R.T. -0.01 min

Lab File: VD046807.D

Acq: 21 Sep 2015 15:16

Instrument :

MSVOA_D

ClientSampleId :

TRENCH-2-1

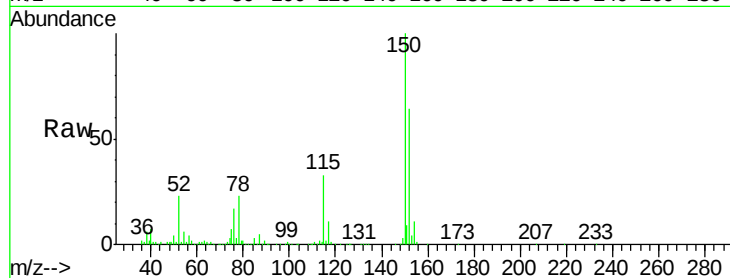
Tot Ion:152 Resp: 92549

Ion Ratio Lower Upper

152 100

115 50.7 26.2 78.6

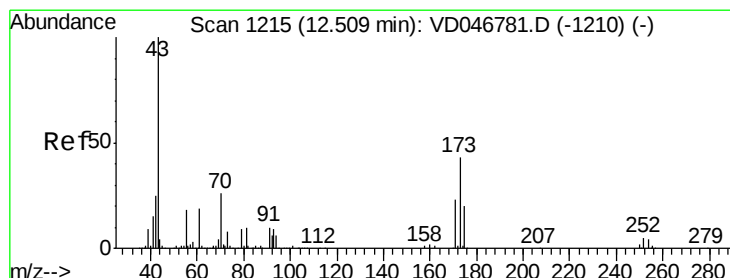
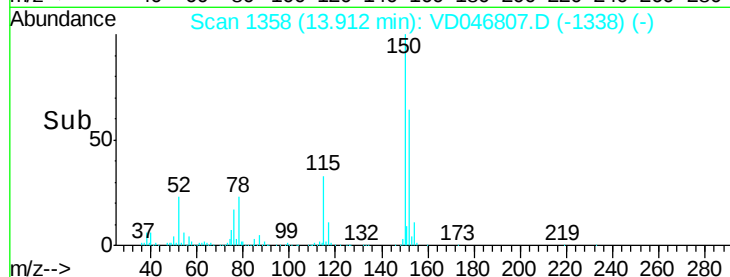
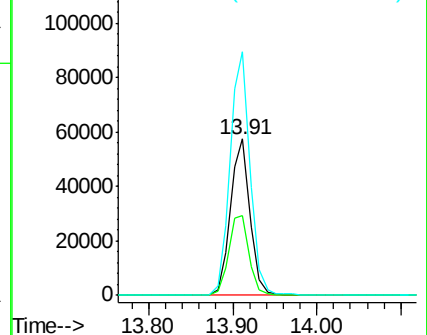
150 155.9 0.0 311.8



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-ethyl acetate

Concen: 4.90 ug/l

RT: 12.52 min Scan# 1217

Delta R.T. 0.01 min

Lab File: VD046807.D

Acq: 21 Sep 2015 15:16

Tgt Ion: 43 Resp: 337

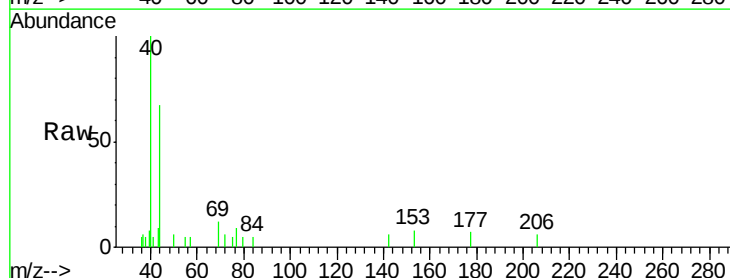
Ion Ratio Lower Upper

43 100

70 0.0 22.1 33.1#

55 50.5 14.5 21.7#

61 0.0 14.6 21.8#

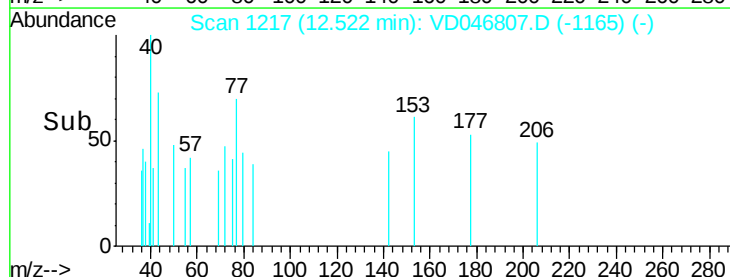
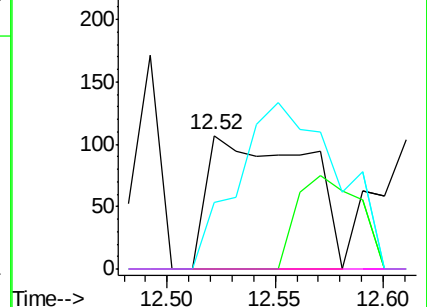


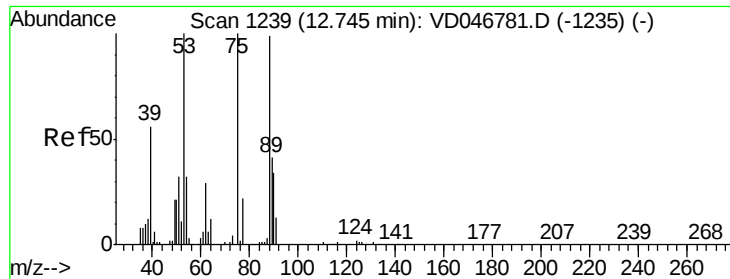
Abundance Ion 42.95 (42.65 to 43.65): VDC

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

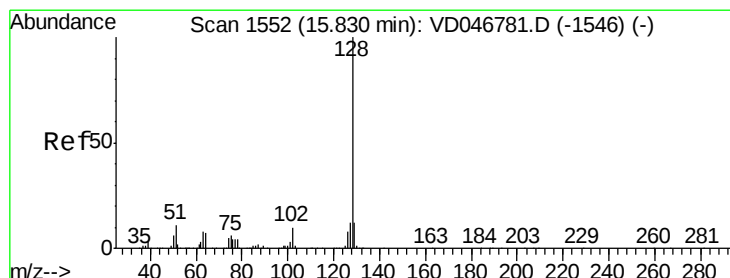
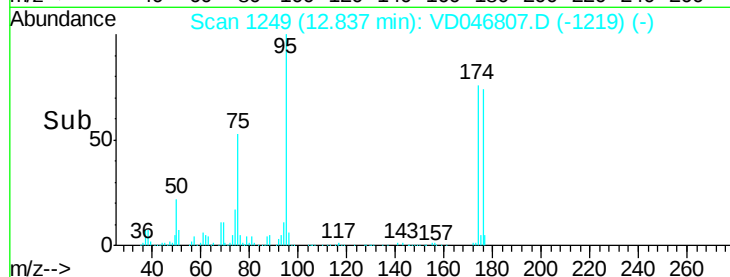
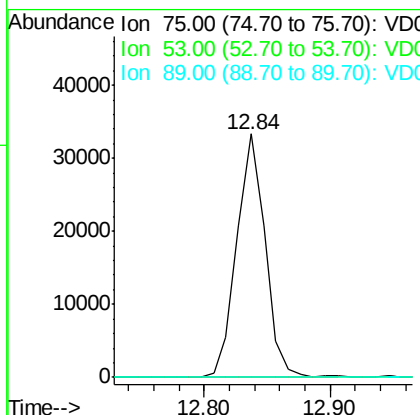
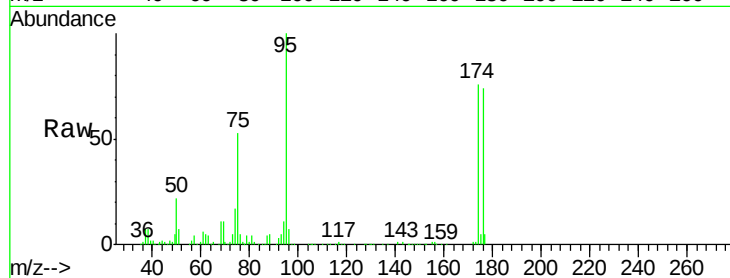




#81
trans-1,4-Dichloro-2-butene
Concen: 159.42 ug/l
RT: 12.84 min Scan# 1249
Delta R.T. 0.09 min
Lab File: VD046807.D
Acq: 21 Sep 2015 15:16

Instrument :
MSVOA_D
ClientSampleId :
TRENCH-2-1

Tot Ion: 75 Resp: 52177
Ion Ratio Lower Upper
75 100
53 0.0 82.3 123.5#
89 0.0 36.6 54.8#



#95
Naphthalene
Concen: 3.01 ug/l
RT: 15.81 min Scan# 1551
Delta R.T. -0.02 min
Lab File: VD046807.D
Acq: 21 Sep 2015 15:16

Tgt Ion:128 Resp: 1308
Ion Ratio Lower Upper
128 100
127 21.7 9.8 14.6#
129 9.9 8.6 12.8

