

Data Path : W:\HPCHEM1\MSVOA D\DATA\VD092115\
 Data File : VD046809.D
 Acq On : 21 Sep 2015 16:10
 Operator : FY/SY
 Sample : G3747-07
 Misc : 4.98µm/5mL/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TRENCH-2-3

Quant Time: Sep 22 01:04:15 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	168768	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.42	114	234226	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.57	117	210249	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.91	152	98257	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	88439	50.40	ug/l	-0.02
Spiked Amount			Recovery	=	100.80%	
35) Dibromofluoromethane	6.19	113	89982	49.10	ug/l	-0.03
Spiked Amount			Recovery	=	98.20%	
50) Toluene-d8	9.60	98	256662	44.39	ug/l	-0.02
Spiked Amount			Recovery	=	88.78%	
62) 4-Bromofluorobenzene	12.84	95	97239	41.77	ug/l	-0.02
Spiked Amount			Recovery	=	83.54%	

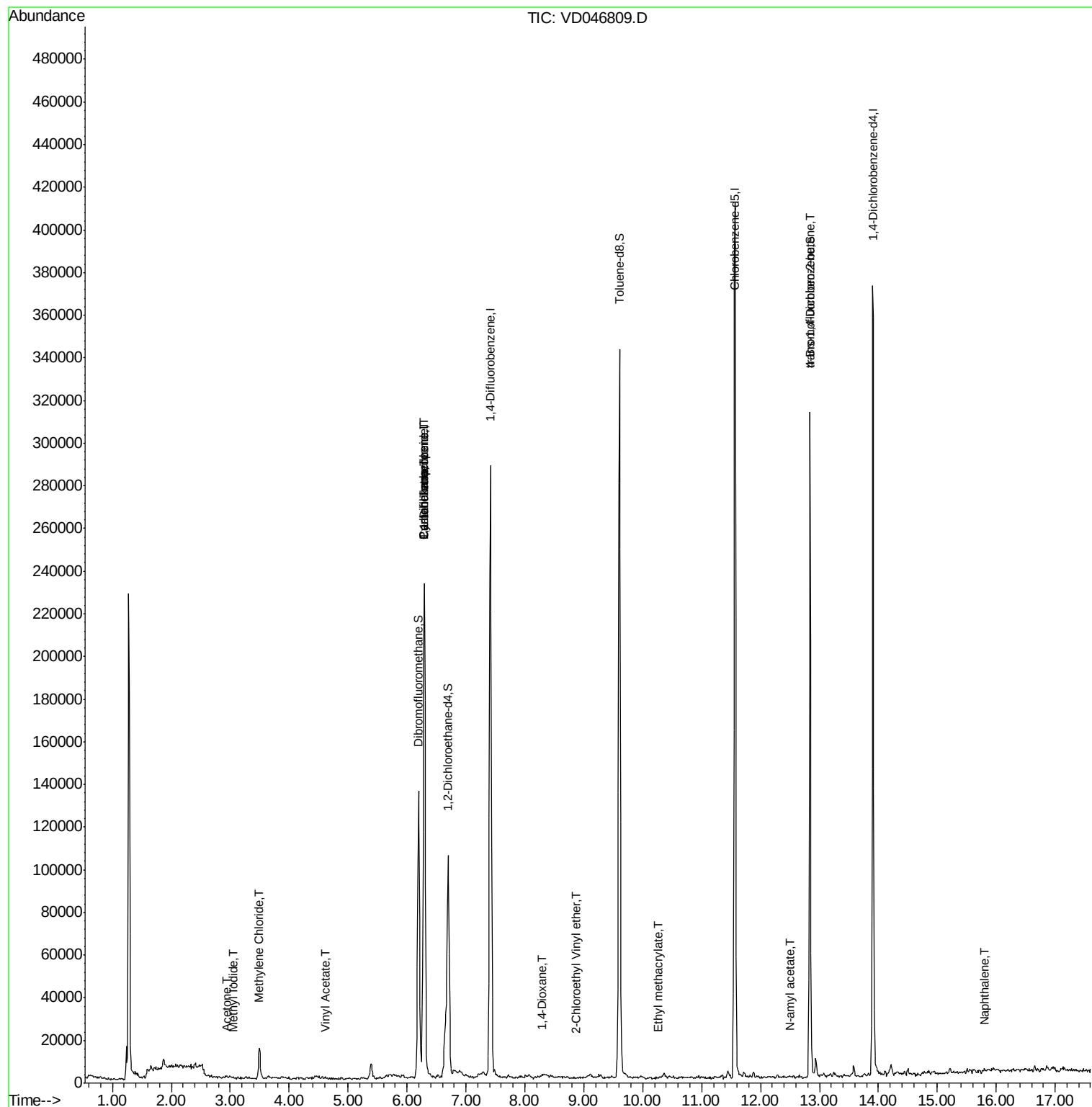
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.41	85	738	Below Cal		92
3) Chlorodifluoromethane	1.43	51	781	Below Cal		98
6) Bromomethane	1.95	94	78	Below Cal	#	2
11) Methyl Iodide	3.04	142	72	1.77	ug/l #	35
12) Tert butyl alcohol	3.71	59	31	Below Cal	#	74
17) Acetone	2.94	43	1168	3.94	ug/l	96
21) Methylene Chloride	3.49	84	5939	3.69	ug/l	91
24) Vinyl Acetate	4.61	43	30	15.02	ug/l #	82
31) Cyclohexane	6.29	56	5162	1.96	ug/l #	1
36) 1,1-Dichloropropene	6.29	75	16498	6.03	ug/l #	52
38) Carbon Tetrachloride	6.29	117	16732	5.88	ug/l #	17
49) 1,4-Dioxane	8.29	88	35	5.34	ug/l #	20
56) Ethyl methacrylate	10.26	69	134	3.98	ug/l #	47
58) 2-Chloroethyl Vinyl ether	8.86	63	59	6.43	ug/l #	53
74) N-amyl acetate	12.48	43	192	4.81	ug/l #	18
81) trans-1,4-Dichloro-2-buten	12.84	75	49807	143.72	ug/l #	9
95) Naphthalene	15.81	128	1019	2.84	ug/l #	74

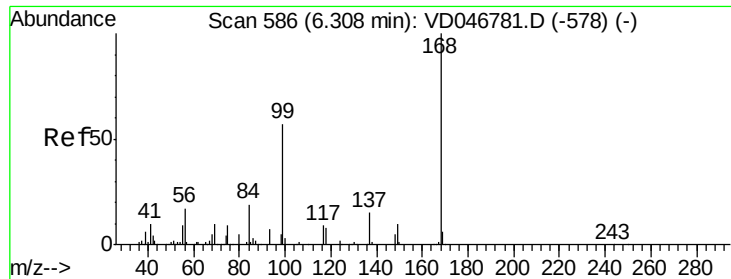
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Sep 18 15:47:18 2015
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.29 min Scan# 585

Delta R.T. -0.02 min

Lab File: VD046809.D

Acq: 21 Sep 2015 16:10

Instrument :

MSVOA_D

ClientSampleId :

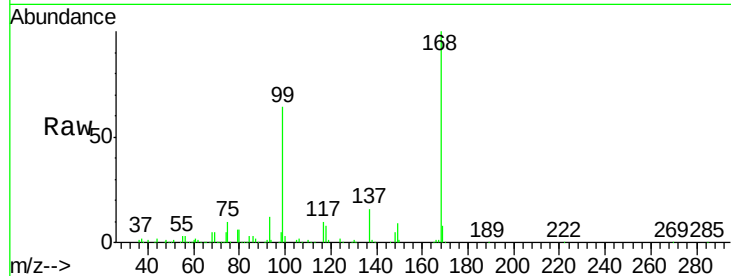
TRENCH-2-3

Tot Ion:168 Resp: 168768

Ion Ratio Lower Upper

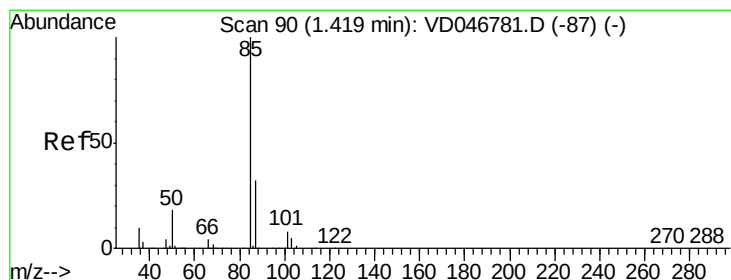
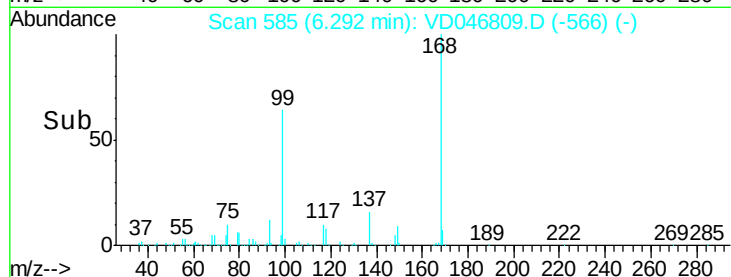
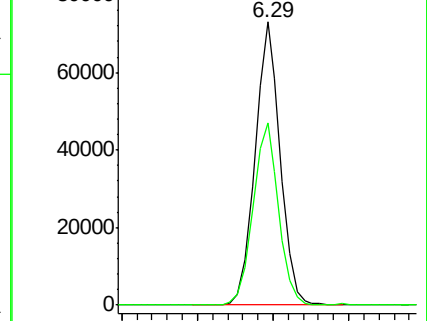
168 100

99 64.4 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: 1.41 min Scan# 90

Delta R.T. -0.01 min

Lab File: VD046809.D

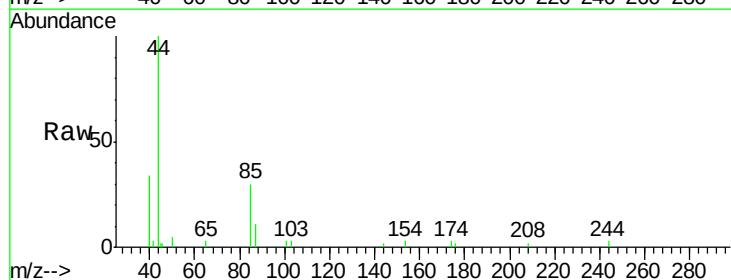
Acq: 21 Sep 2015 16:10

Tgt Ion: 85 Resp: 738

Ion Ratio Lower Upper

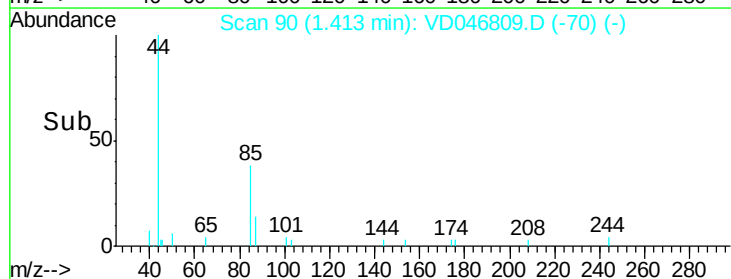
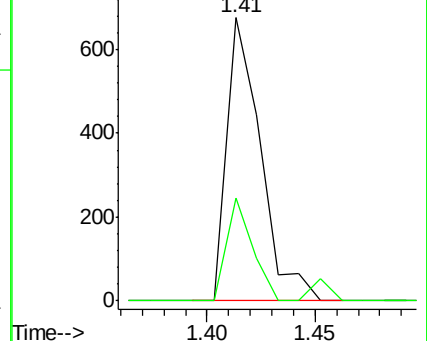
85 100

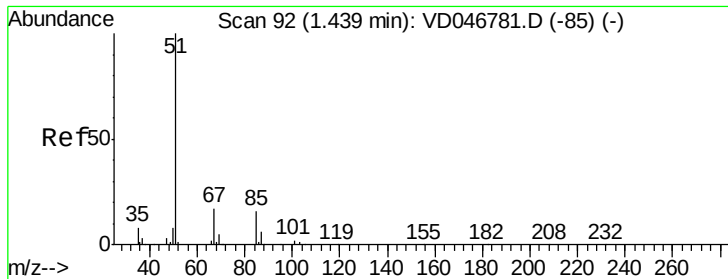
87 36.6 16.2 48.5



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: VD046809.D

Acq: 21 Sep 2015 16:10

Instrument :

MSVOA_D

ClientSampleId :

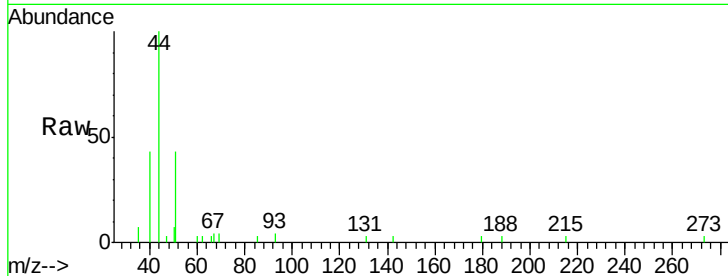
TRENCH-2-3

Tot Ion: 51 Resp: 781

Ion Ratio Lower Upper

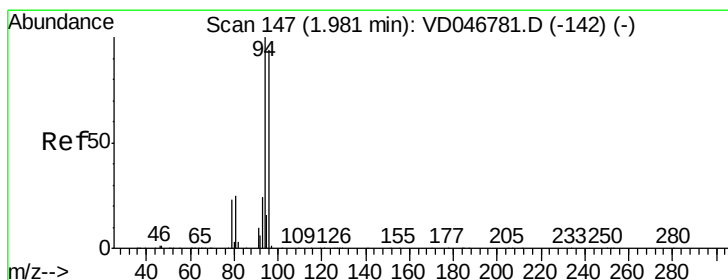
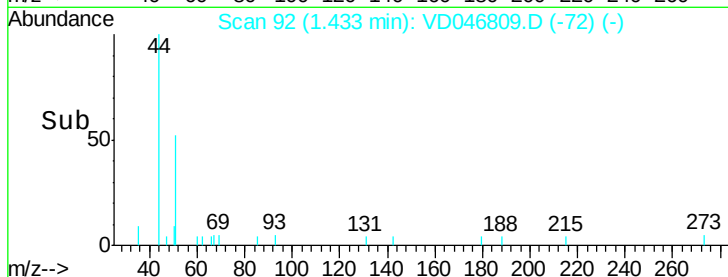
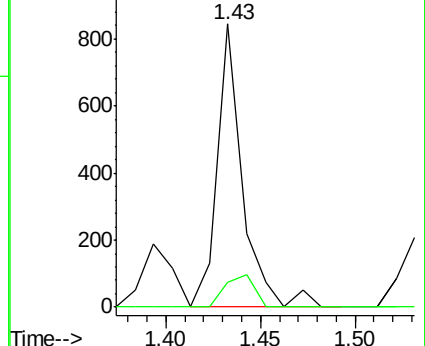
51 100

67 12.9 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: 1.95 min Scan# 144

Delta R.T. -0.04 min

Lab File: VD046809.D

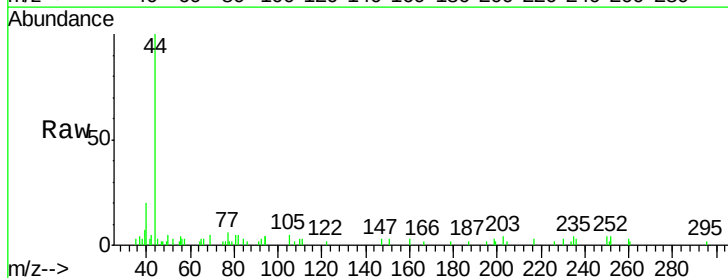
Acq: 21 Sep 2015 16:10

Tgt Ion: 94 Resp: 78

Ion Ratio Lower Upper

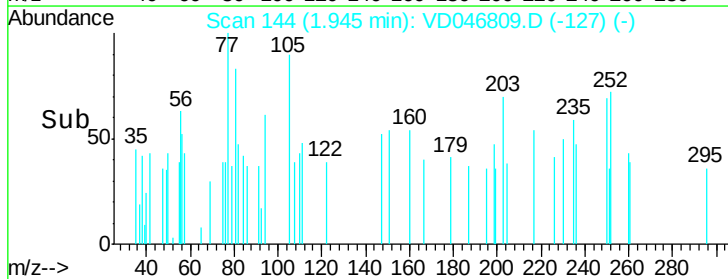
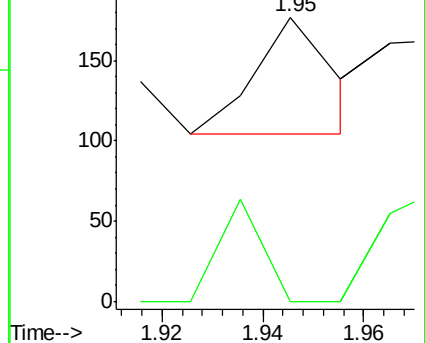
94 100

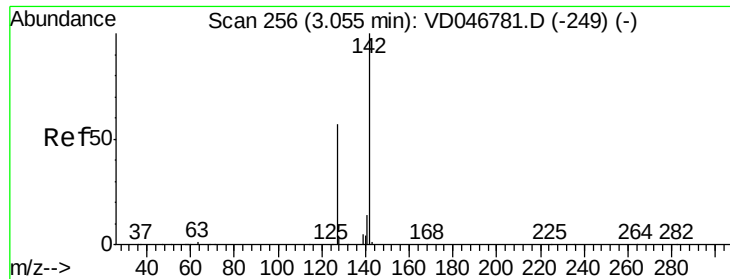
96 0.0 76.0 114.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

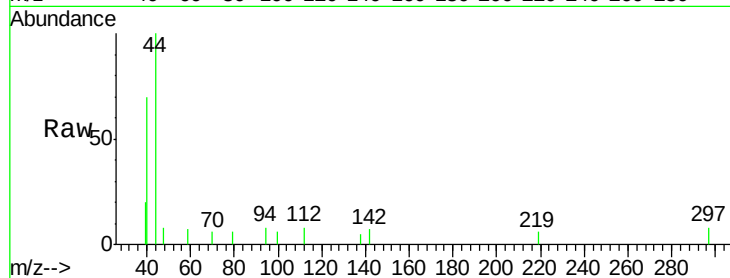




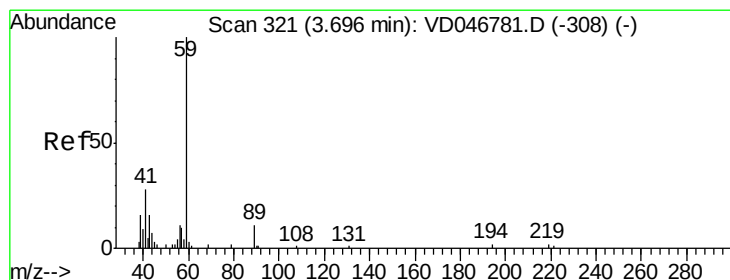
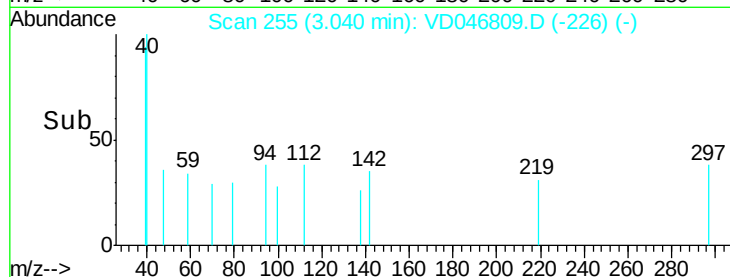
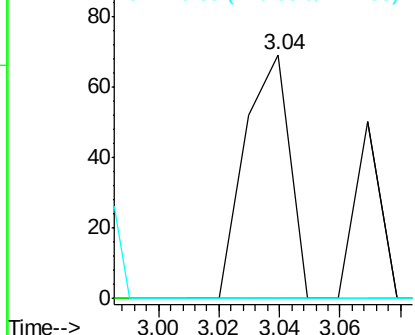
#11
Methvl Iodide
Concen: 1.77 ua/l
RT: 3.04 min Scan# 255
Delta R.T. -0.02 min
Lab File: VD046809.D
Acq: 21 Sep 2015 16:10

Instrument :
MSVOA_D
ClientSampleId :
TRENCH-2-3

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

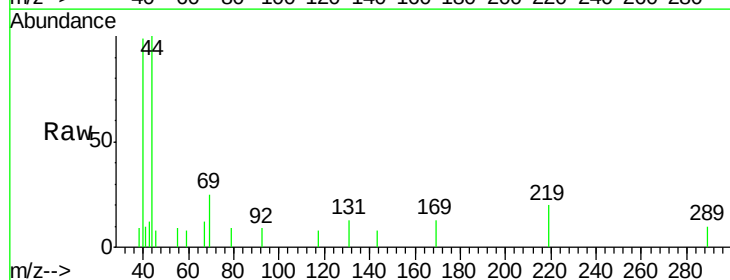


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

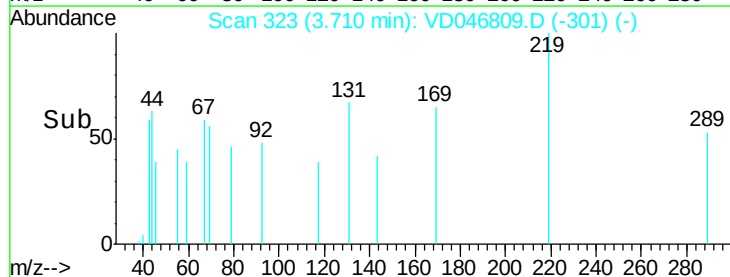
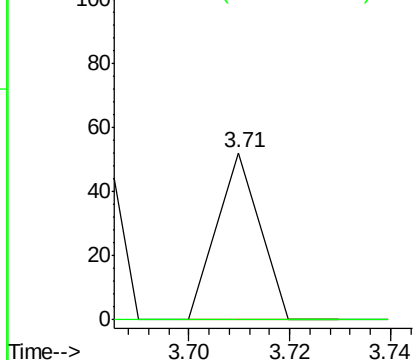


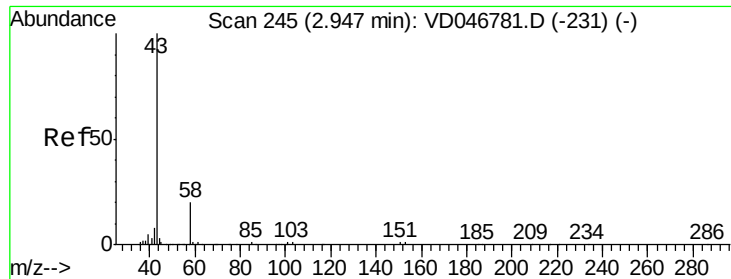
#12
Tert butyl alcohol
Concen: Below Cal
RT: 3.71 min Scan# 323
Delta R.T. 0.01 min
Lab File: VD046809.D
Acq: 21 Sep 2015 16:10

Tgt 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





#17

Acetone

Concen: 3.94 ug/l

RT: 2.94 min Scan# 245

Delta R.T. -0.01 min

Lab File: VD046809.D

Acq: 21 Sep 2015 16:10

Instrument :

MSVOA_D

ClientSampleId :

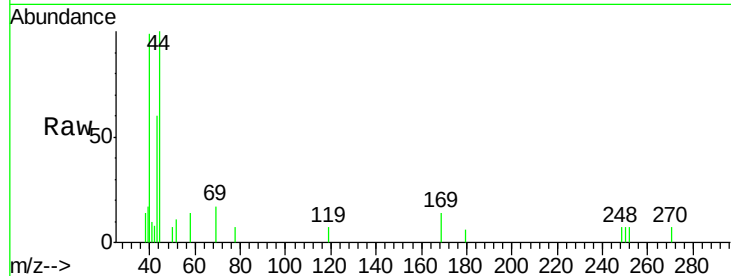
TRENCH-2-3

Tot Ion: 43 Resp: 1168

Ion Ratio Lower Upper

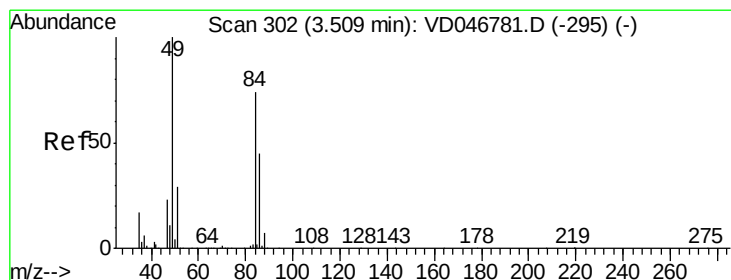
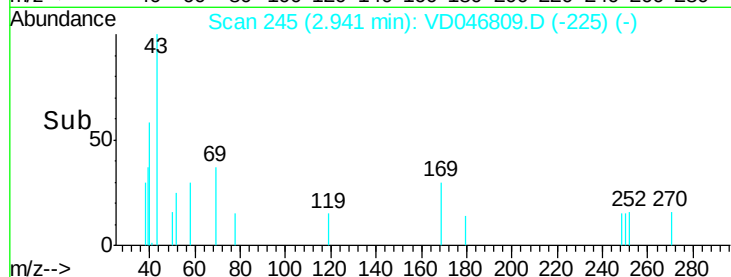
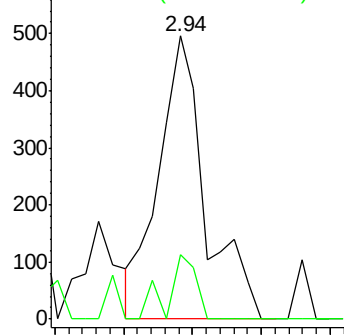
43 100

58 22.8 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: 3.69 ug/l

RT: 3.49 min Scan# 301

Delta R.T. -0.02 min

Lab File: VD046809.D

Acq: 21 Sep 2015 16:10

Tgt Ion: 84 Resp: 5939

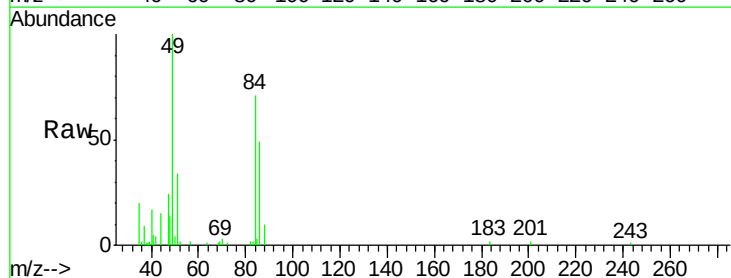
Ion Ratio Lower Upper

84 100

49 141.1 122.1 183.1

51 47.5 33.6 50.4

86 68.9 48.3 72.5

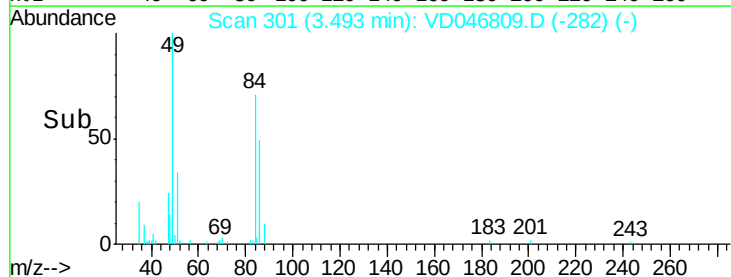
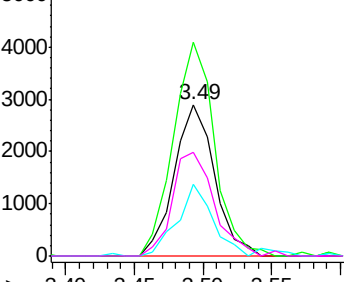


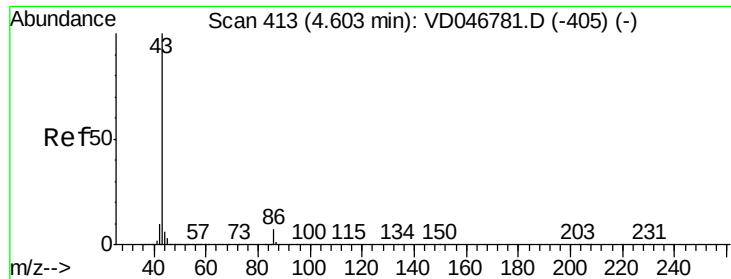
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 15.02 ug/l

RT: 4.61 min Scan# 414

Delta R.T. 0.00 min

Lab File: VD046809.D

Acq: 21 Sep 2015 16:10

Instrument :

MSVOA_D

ClientSampleID :

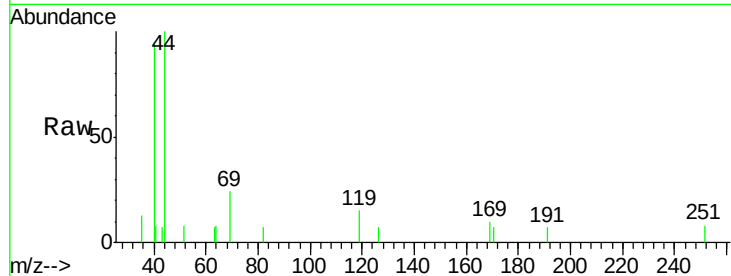
TRENCH-2-3

Tot Ion: 43 Resp: 30

Ion Ratio Lower Upper

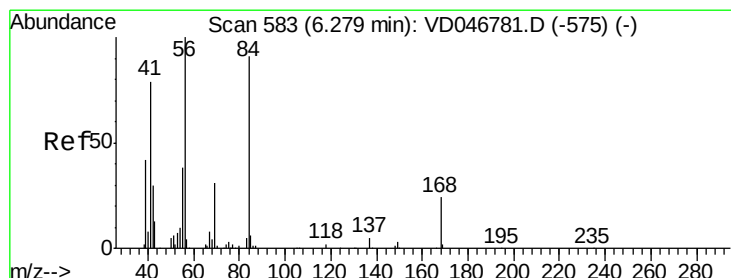
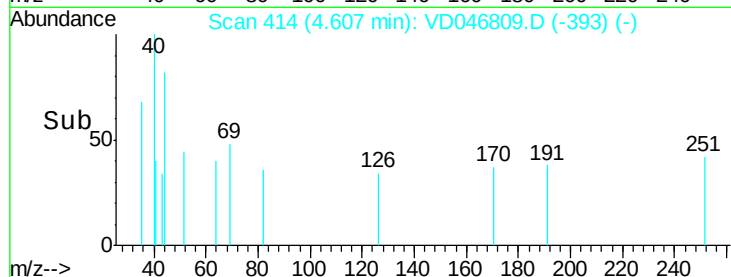
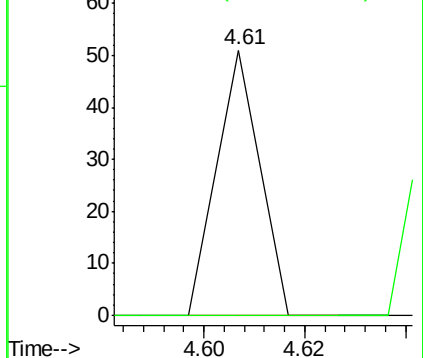
43 100

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



#31

Cyclohexane

Concen: 1.96 ug/l

RT: 6.29 min Scan# 585

Delta R.T. 0.01 min

Lab File: VD046809.D

Acq: 21 Sep 2015 16:10

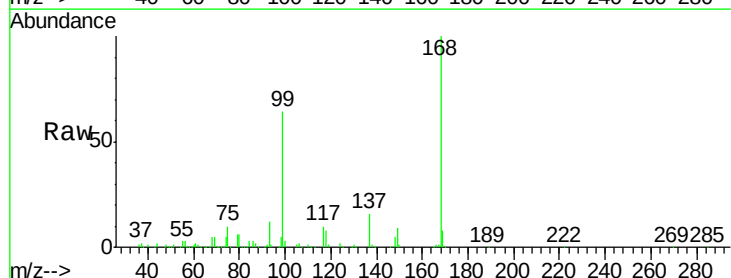
Tgt Ion: 56 Resp: 5162

Ion Ratio Lower Upper

56 100

69 207.6 23.4 35.0#

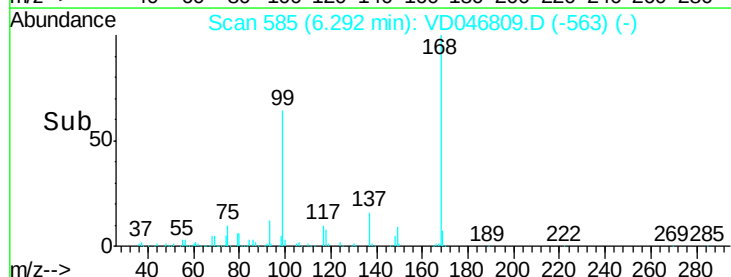
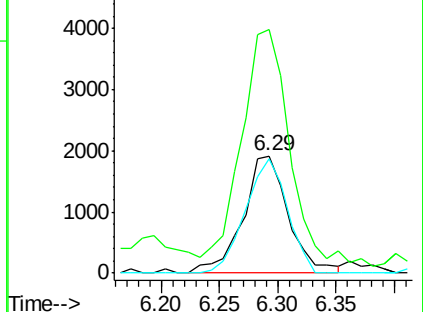
84 97.7 63.8 95.8#

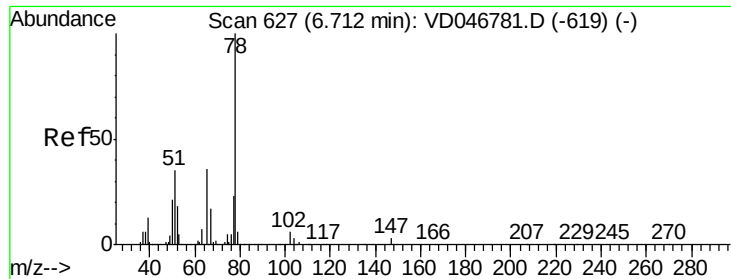


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

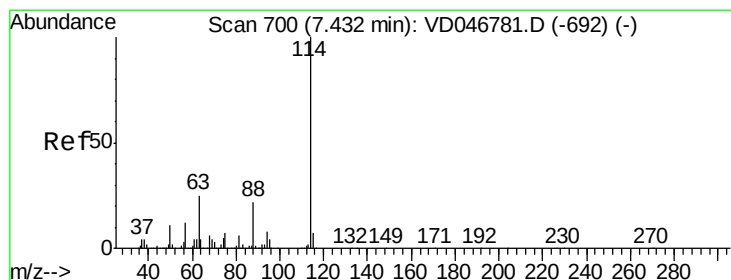
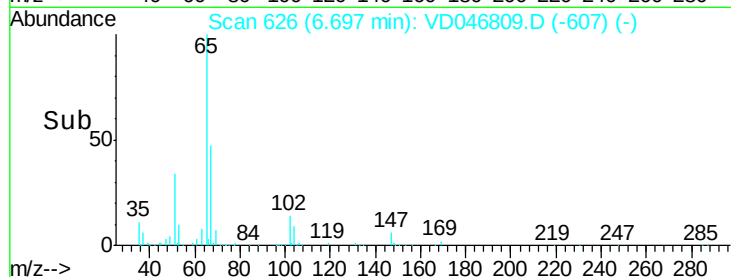
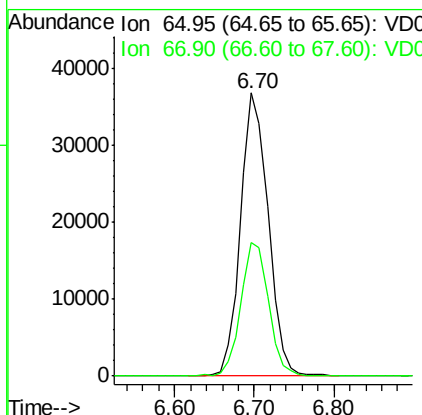
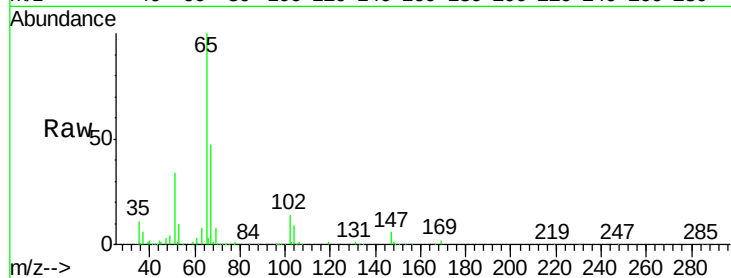




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 6.70 min Scan# 626
 Delta R.T. -0.02 min
 Lab File: VD046809.D
 Acq: 21 Sep 2015 16:10

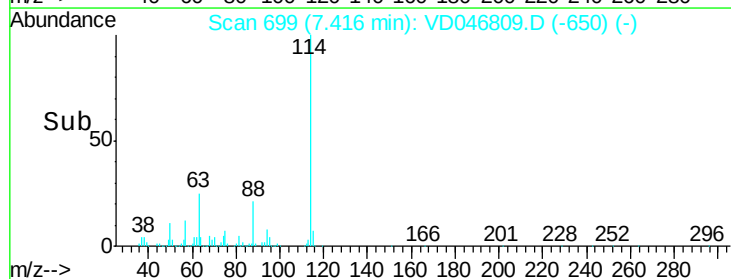
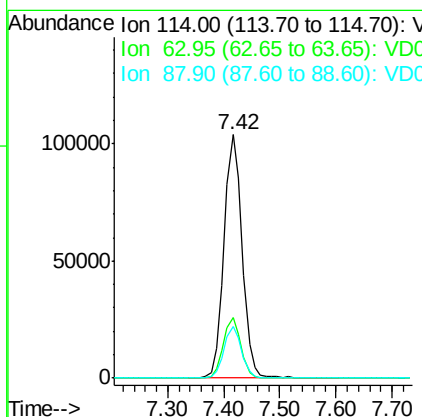
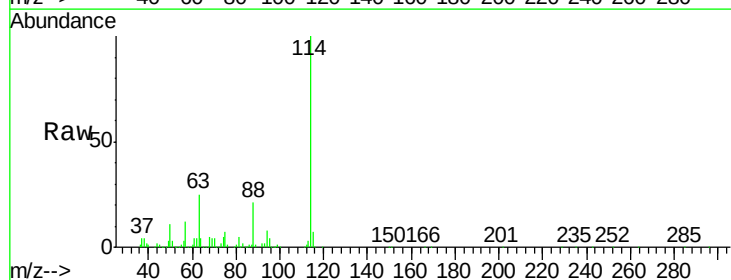
Instrument :
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 TRENCH-2-3

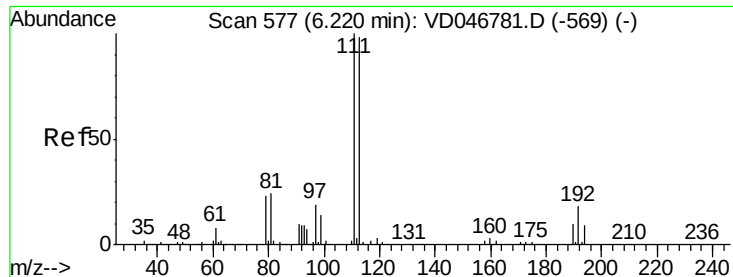
Tot Ion: 65 Resp: 88439
 Ion Ratio Lower Upper
 65 100
 67 47.3 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.42 min Scan# 699
 Delta R.T. -0.02 min
 Lab File: VD046809.D
 Acq: 21 Sep 2015 16:10

Tgt Ion: 114 Resp: 234226
 Ion Ratio Lower Upper
 114 100
 63 25.0 0.0 49.8
 88 20.9 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: VD046809.D

Acq: 21 Sep 2015 16:10

Instrument :

MSVOA_D

ClientSampleId :

TRENCH-2-3

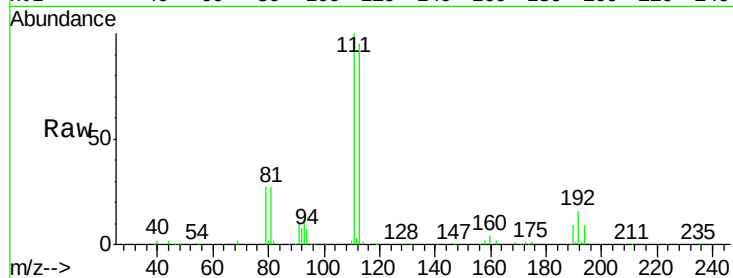
Tot Ion:113 Resp: 89982

Ion Ratio Lower Upper

113 100

111 105.1 79.4 119.0

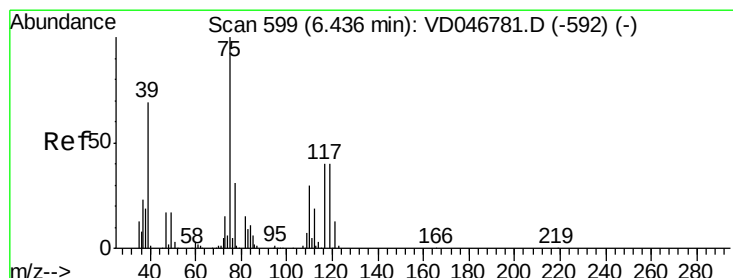
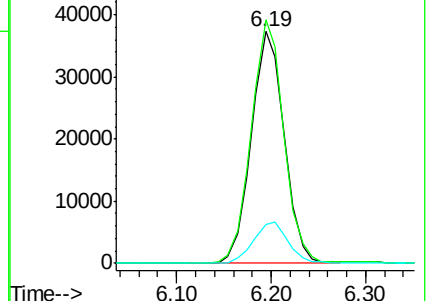
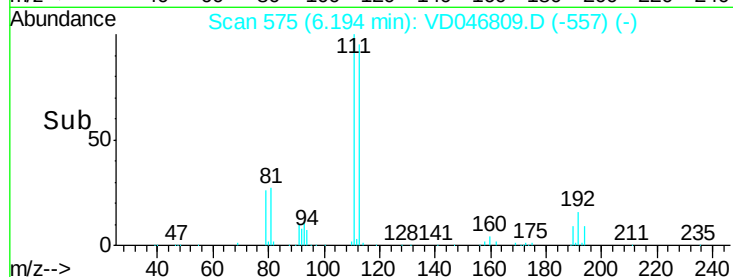
192 16.8 14.6 22.0



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: 6.03 ug/l

RT: 6.29 min Scan# 585

Delta R.T. -0.14 min

Lab File: VD046809.D

Acq: 21 Sep 2015 16:10

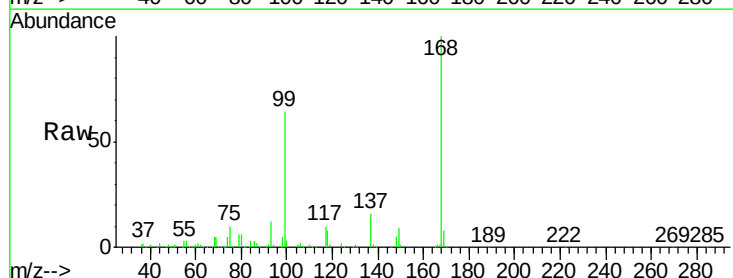
Tgt Ion: 75 Resp: 16498

Ion Ratio Lower Upper

75 100

110 7.2 13.7 41.0#

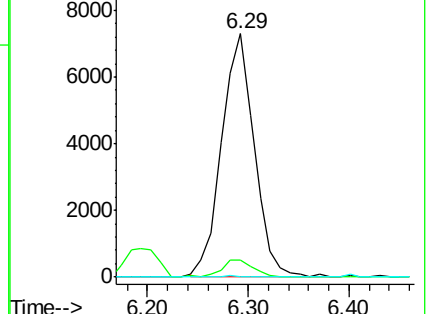
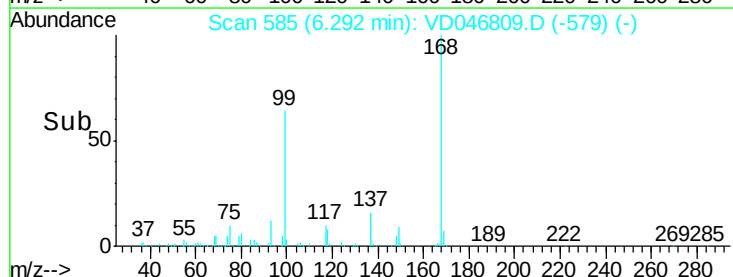
77 0.0 24.7 37.1#

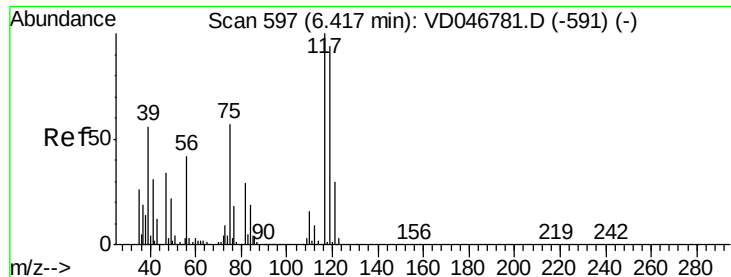


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 5.88 ug/l

RT: 6.29 min Scan# 585

Delta R.T. -0.12 min

Lab File: VD046809.D

Acq: 21 Sep 2015 16:10

Instrument :

MSVOA_D

ClientSampleId :

TRENCH-2-3

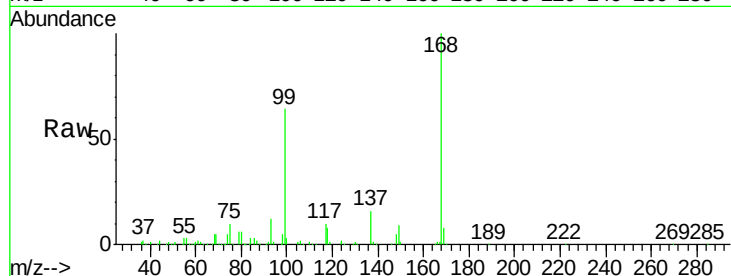
Tot Ion:117 Resp: 16732

Ion Ratio Lower Upper

117 100

119 6.6 76.2 114.4#

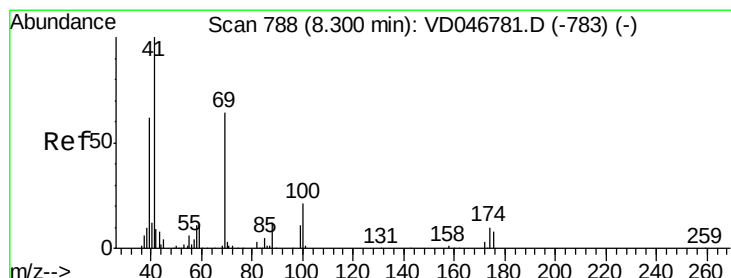
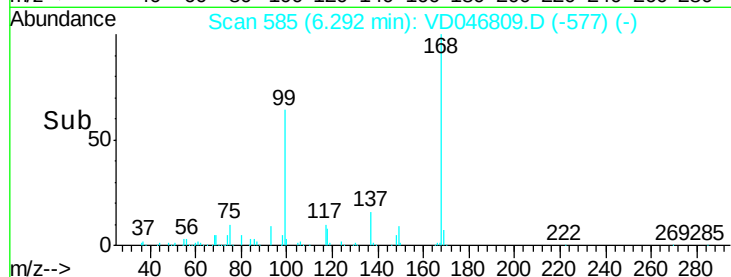
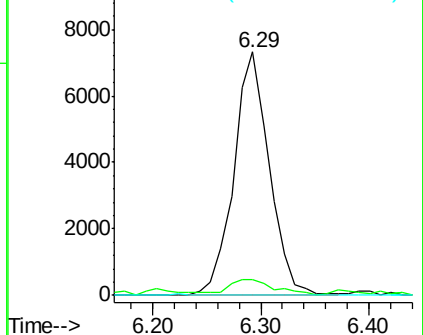
121 0.0 24.5 36.7#



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: 5.34 ug/l

RT: 8.29 min Scan# 788

Delta R.T. -0.01 min

Lab File: VD046809.D

Acq: 21 Sep 2015 16:10

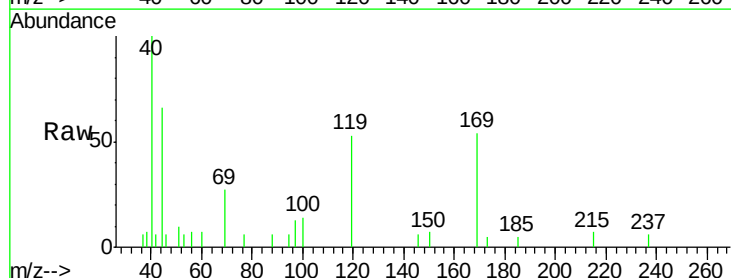
Tgt Ion: 88 Resp: 35

Ion Ratio Lower Upper

88 100

43 0.0 50.0 75.0#

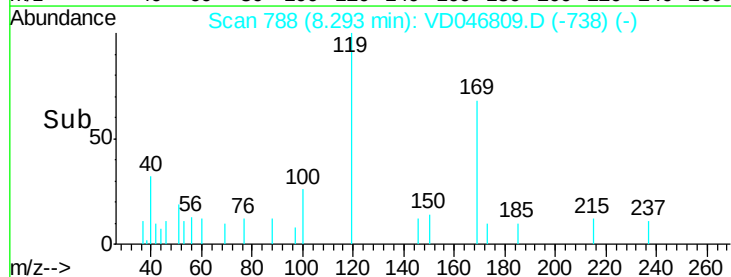
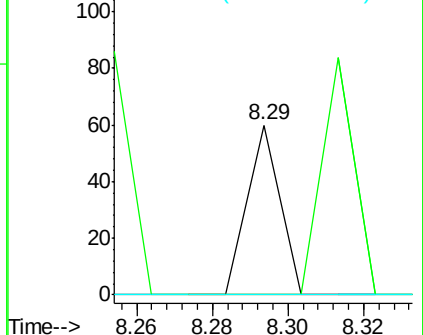
58 0.0 48.3 72.5#

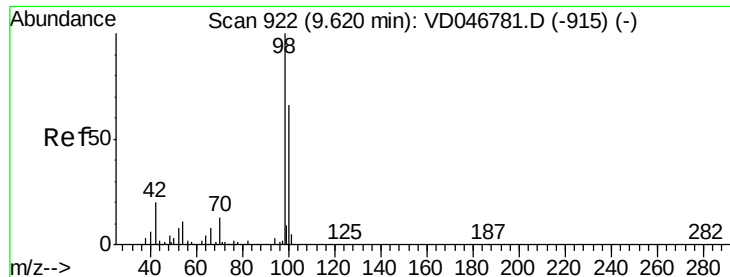


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC





#50

Toluene-d8

Concen: 5.34 ug/l

RT: 9.60 min Scan# 921

Delta R.T. -0.02 min

Lab File: VD046809.D

Acq: 21 Sep 2015 16:10

Instrument :

MSVOA_D

ClientSampleId :

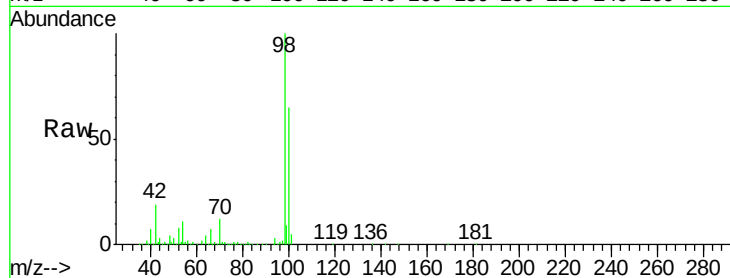
TRENCH-2-3

Tot Ion: 98 Resp: 256662

Ion Ratio Lower Upper

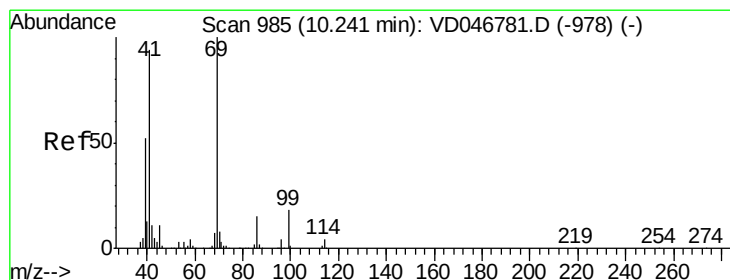
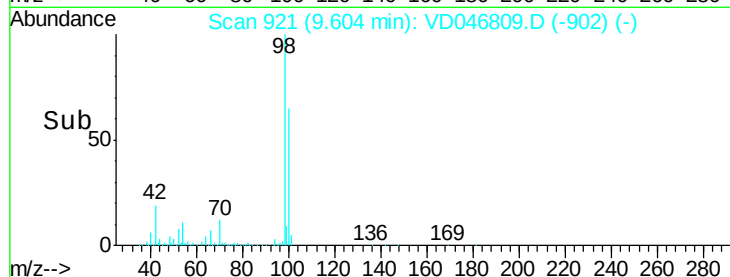
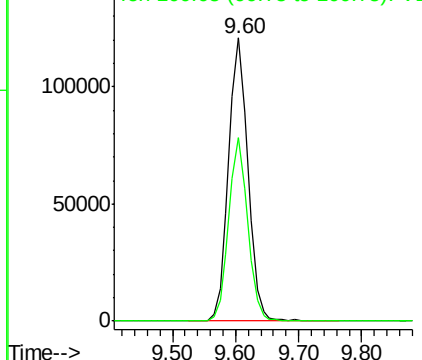
98 100

100 64.8 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: 3.98 ug/l

RT: 10.26 min Scan# 987

Delta R.T. 0.01 min

Lab File: VD046809.D

Acq: 21 Sep 2015 16:10

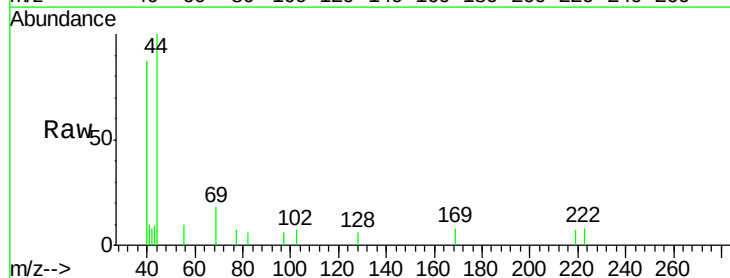
Tgt Ion: 69 Resp: 134

Ion Ratio Lower Upper

69 100

41 54.1 75.4 113.0#

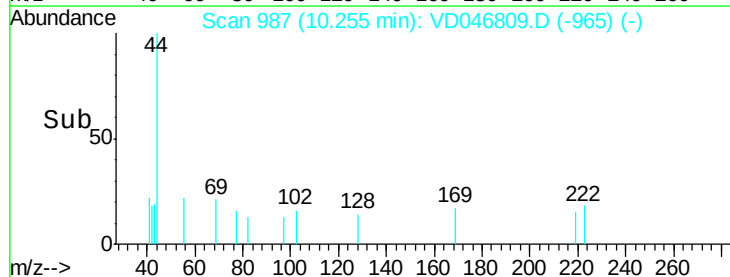
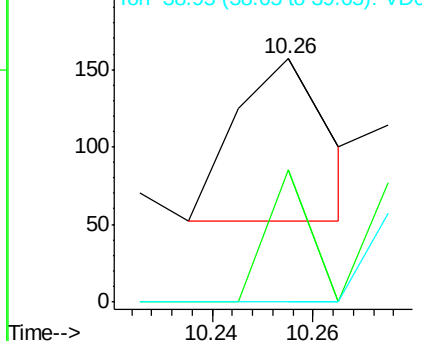
39 0.0 41.0 61.4#

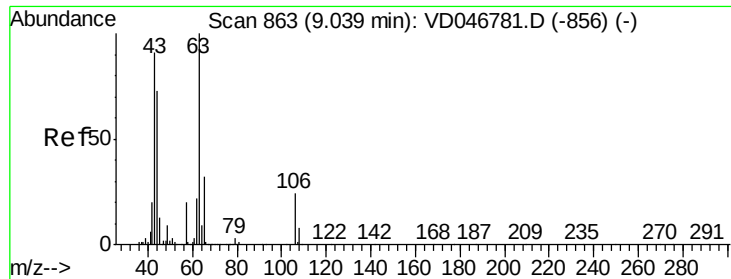


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

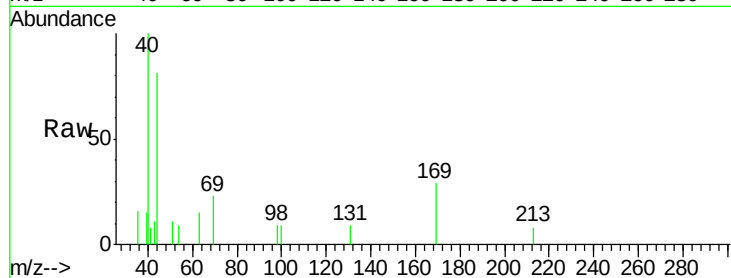




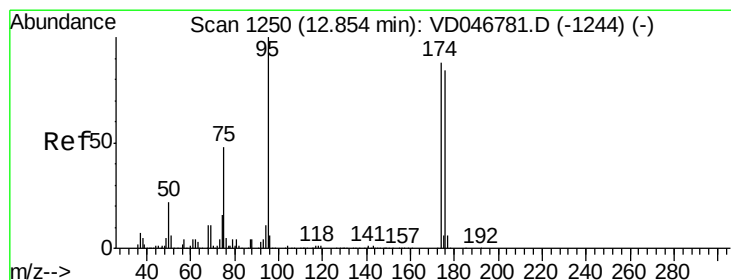
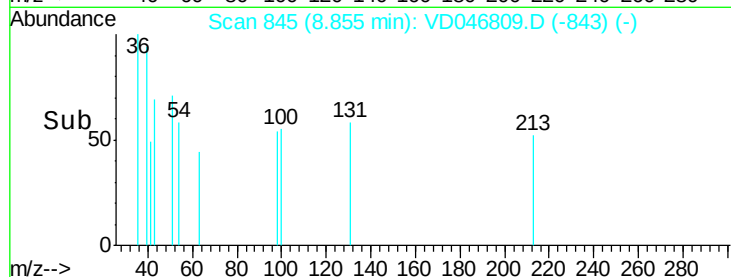
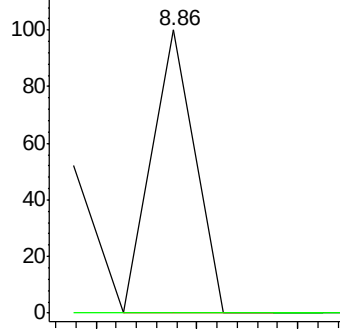
#58
 2-Chloroethyl Vinyl ether
 Concen: 6.43 ug/l
 RT: 8.86 min Scan# 845
 Delta R.T. -0.18 min
 Lab File: VD046809.D
 Acq: 21 Sep 2015 16:10

Instrument :
 MSVOA_D
 ClientSampleId :
 TRENCH-2-3

Tot Ion: 63 Resp: 59
 Ion Ratio Lower Upper
 63 100
 106 0.0 17.8 26.8#

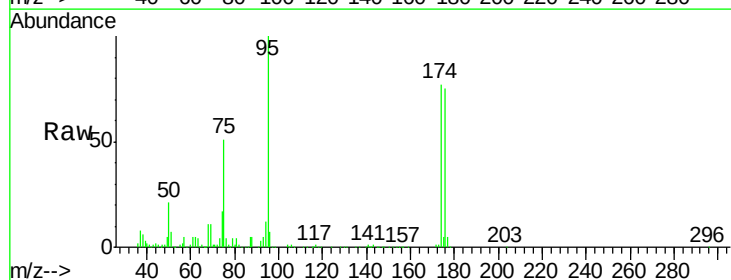


Abundance Ion 62.95 (62.65 to 63.65): VDC
 Ion 105.95 (105.65 to 106.65): V

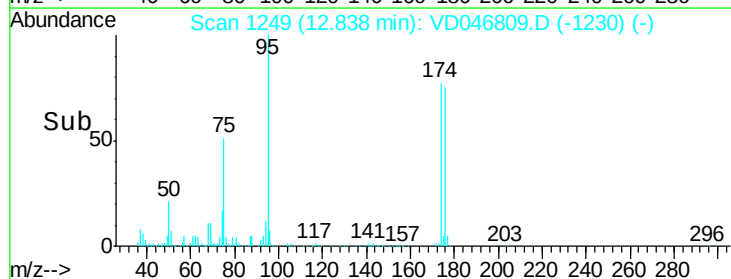
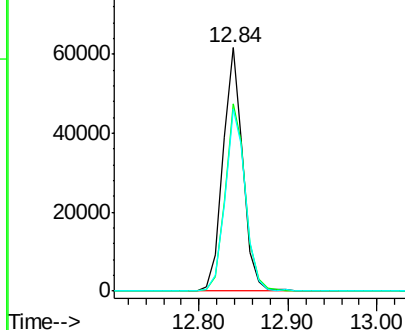


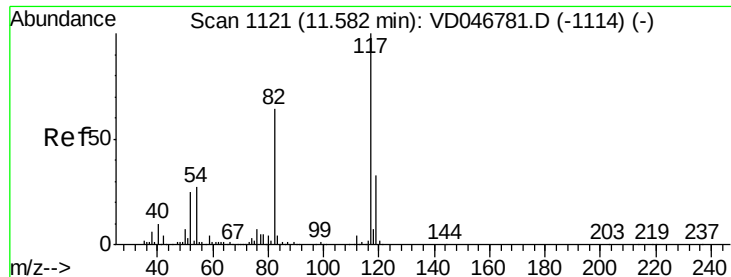
#62
 4-Bromofluorobenzene
 Concen: Below ug/l
 RT: 12.84 min Scan# 1249
 Delta R.T. -0.02 min
 Lab File: VD046809.D
 Acq: 21 Sep 2015 16:10

Tgt Ion: 95 Resp: 97239
 Ion Ratio Lower Upper
 95 100
 174 77.2 0.0 149.8
 176 74.8 0.0 143.4



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

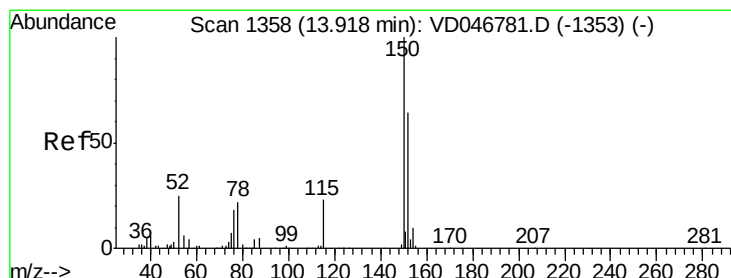
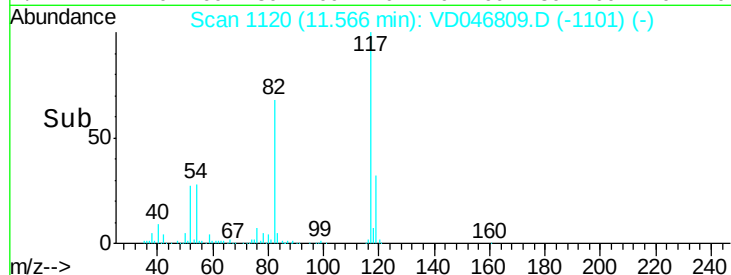
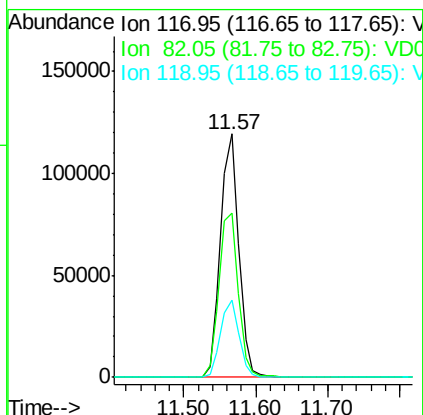
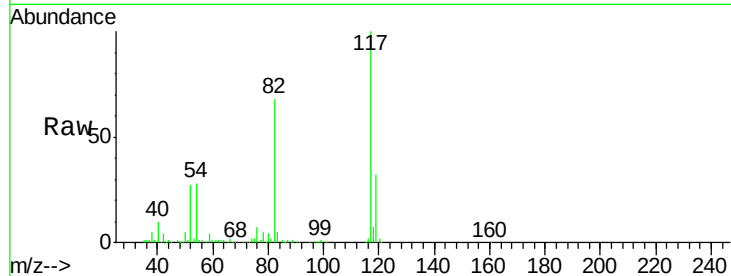




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.57 min Scan# 1120
Delta R.T. -0.02 min
Lab File: VD046809.D
Acq: 21 Sep 2015 16:10

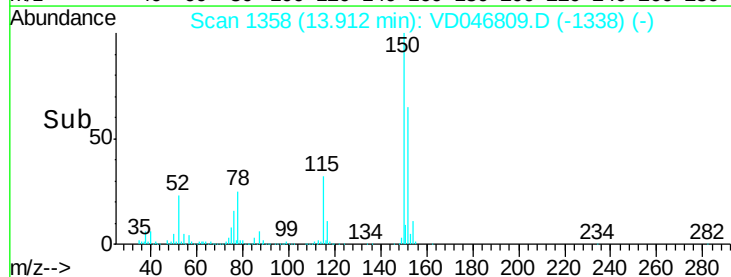
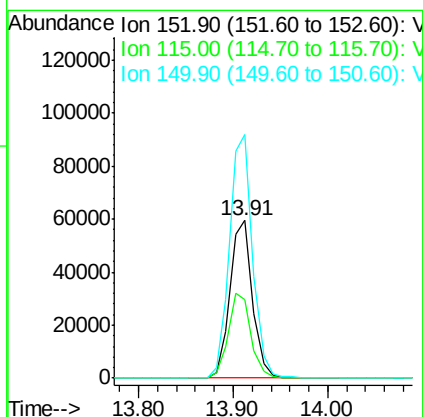
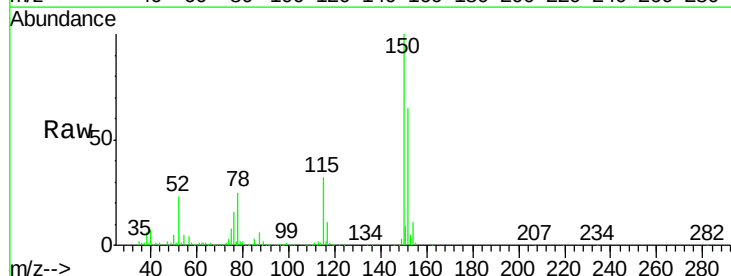
Instrument :
MSVOA_D
ClientSampleId :
TRENCH-2-3

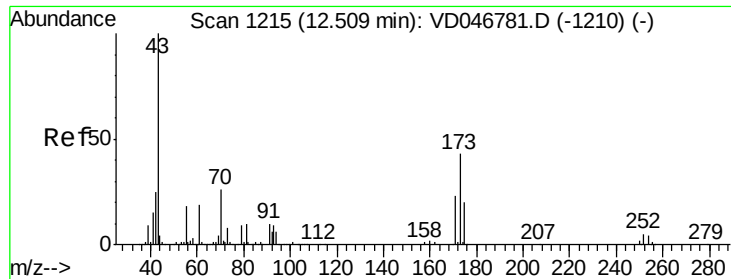
Tot Ion:117 Resp: 210249
Ion Ratio Lower Upper
117 100
82 67.6 50.6 75.8
119 31.5 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.91 min Scan# 1358
Delta R.T. -0.01 min
Lab File: VD046809.D
Acq: 21 Sep 2015 16:10

Tgt Ion:152 Resp: 98257
Ion Ratio Lower Upper
152 100
115 50.1 26.2 78.6
150 154.8 0.0 311.8





#74

N-amvl acetate

Concen: 4.81 ug/l

RT: 12.48 min Scan# 1213

Delta R.T. -0.03 min

Lab File: VD046809.D

Acq: 21 Sep 2015 16:10

Instrument :

MSVOA_D

ClientSampleId :

TRENCH-2-3

Tot Ion: 43 Resp: 192

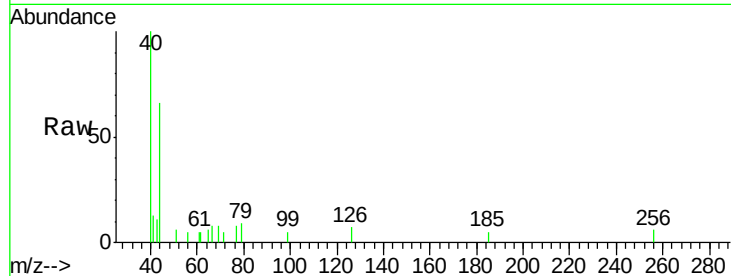
Ion Ratio Lower Upper

43 100

70 0.0 22.1 33.1#

55 0.0 14.5 21.7#

61 92.0 14.6 21.8#

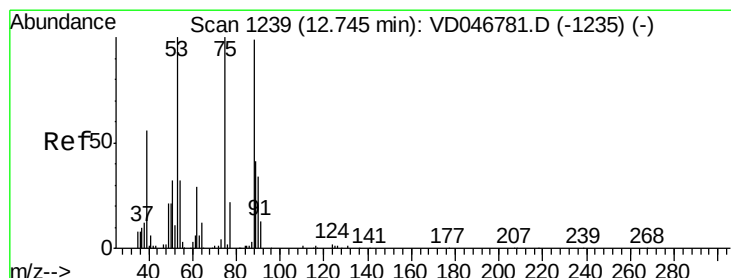
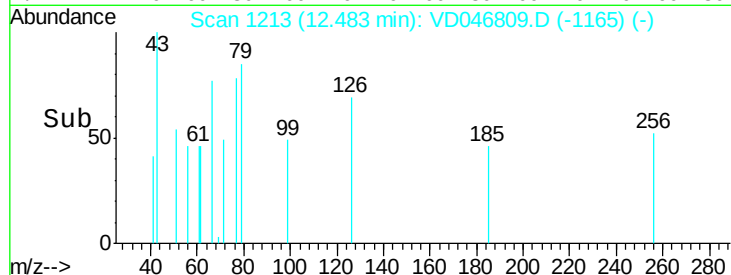
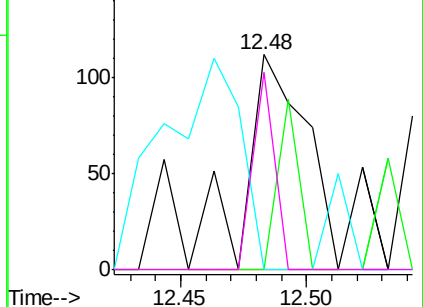


Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 143.72 ug/l

RT: 12.84 min Scan# 1249

Delta R.T. 0.09 min

Lab File: VD046809.D

Acq: 21 Sep 2015 16:10

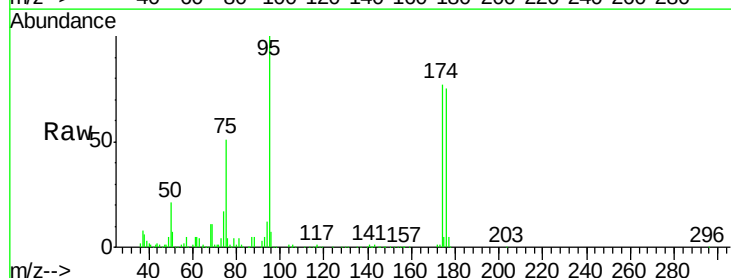
Tgt Ion: 75 Resp: 49807

Ion Ratio Lower Upper

75 100

53 0.4 82.3 123.5#

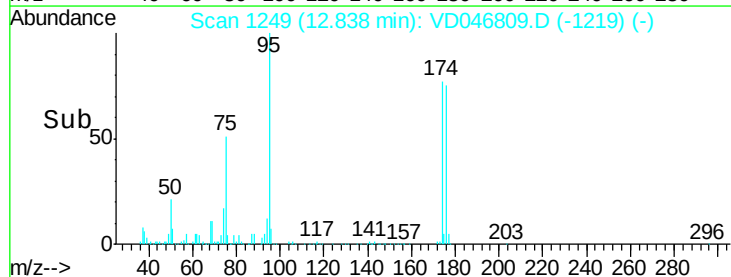
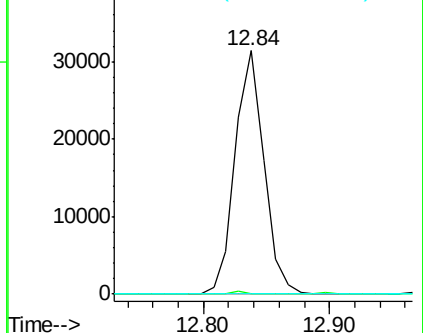
89 0.0 36.6 54.8#

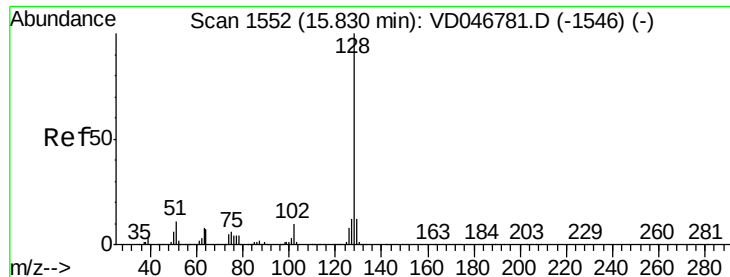


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#95

Naphthalene

Concen: 2.84 ug/l

RT: 15.81 min Scan# 1551

Delta R.T. -0.02 min

Lab File: VD046809.D

Acq: 21 Sep 2015 16:10

Instrument :

MSVOA_D

ClientSampleId :

TRENCH-2-3

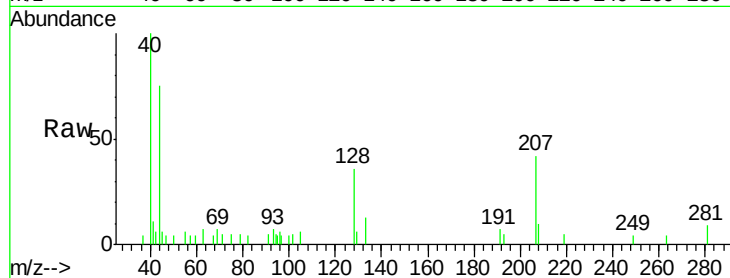
Tot Ion:128 Resp: 1019

Ion Ratio Lower Upper

128 100

127 0.0 9.8 14.6#

129 17.8 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

