

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL070715\
 Data File : VL025623.D
 Acq On : 8 Jul 2015 1:17
 Operator : SY/MD
 Sample : G2872-02DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 DIN46-MIDSTREAM-07011DL

Quant Time: Jul 08 06:57:20 2015
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08 02:22:55 2015
 QLast Update : Wed Jul 08 02:22:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.65	49	701306	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.34	114	1883001	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.75	117	2223133	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	16.29	95	1857232	9.90	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.65	85	1738	0.01	ppbv	92
3) Chlorodifluoromethane	3.57	51	1101	0.01	ppbv #	77
4) Chloromethane	3.75	50	1100	0.02	ppbv #	33
5) Vinyl Chloride	3.89	62	11875	0.24	ppbv #	79
7) Chloroethane	3.89	64	3674	0.16	ppbv #	45
8) Dichlorotetrafluoroethane	3.65	85	1738	0.01	ppbv #	17
9) Propene	3.60	41	15721	0.48	ppbv	94
10) Heptane	9.10	43	327	0.00	ppbv #	1
11) Trichlorofluoromethane	4.70	101	1239	0.01	ppbv	86
12) 1,1,2-Trichlorotrifluoroet	5.32	101	331	0.00	ppbv #	14
13) Ethanol	4.35	45	1697	0.33	ppbv #	1
15) Acetone	4.62	43	174914	1.41	ppbv	95
16) 1,3-Butadiene	3.95	39	56370	1.14	ppbv #	21
17) tert-Butyl alcohol	5.16	59	169088	1.63	ppbv	98
18) 1,1-Dichloroethene	5.09	96	38150	0.74	ppbv	89
19) Isopropyl Alcohol	4.78	45	668	0.01	ppbv #	1
20) Methylene Chloride	5.15	84	3249	0.06	ppbv #	77
21) Allyl Chloride	5.17	41	56496	0.73	ppbv #	73
22) trans-1,2-Dichloroethene	5.77	96	4399	0.08	ppbv	94
23) Vinyl Acetate	5.96	43	18437	0.10	ppbv #	1
24) 1,1-Dichloroethane	5.91	63	329754	2.62	ppbv	99
25) Ethyl Acetate	6.67	43	23501	0.13	ppbv #	76
26) Hexane	6.67	57	32693	0.37	ppbv #	42
27) Carbon Disulfide	5.40	76	40303	0.28	ppbv #	75
29) Chloroform	6.75	83	9417	0.05	ppbv	90
30) Cyclohexane	8.29	84	80050	0.95	ppbv #	67
31) cis-1,2-Dichloroethene	6.52	61	633351	7.22	ppbv	100
32) 1,1,1-Trichloroethane	7.60	97	72469	0.38	ppbv	97
34) 2-Butanone	6.24	43	23151	0.22	ppbv	97
35) Carbon Tetrachloride	8.18	117	403	0.00	ppbv #	12
36) Benzene	8.02	78	1060	0.01	ppbv #	52
37) 1,2-Dichloroethane	7.38	62	1476	0.01	ppbv #	85
38) Trichloroethene	9.07	130	7287861	86.92	ppbv	95
39) 1,2-Dichloropropane	9.07	63	41778	0.63	ppbv #	1
41) Tetrahydrofuran	7.17	42	17791	0.33	ppbv	92
42) Bromodichloromethane	9.07	83	121322	0.65	ppbv #	97
43) Methyl Methacrylate	9.11	69	143	0.00	ppbv #	1
44) 2,2,4-Trimethylpentane	9.09	57	1442	0.00	ppbv #	1
50) 4-Methyl-2-Pentanone	10.15	43	146	0.00	ppbv #	39
51) 2-Hexanone	11.94	43	14498	0.10	ppbv #	47
52) Tetrachloroethene	12.79	164	400	0.00	ppbv #	39

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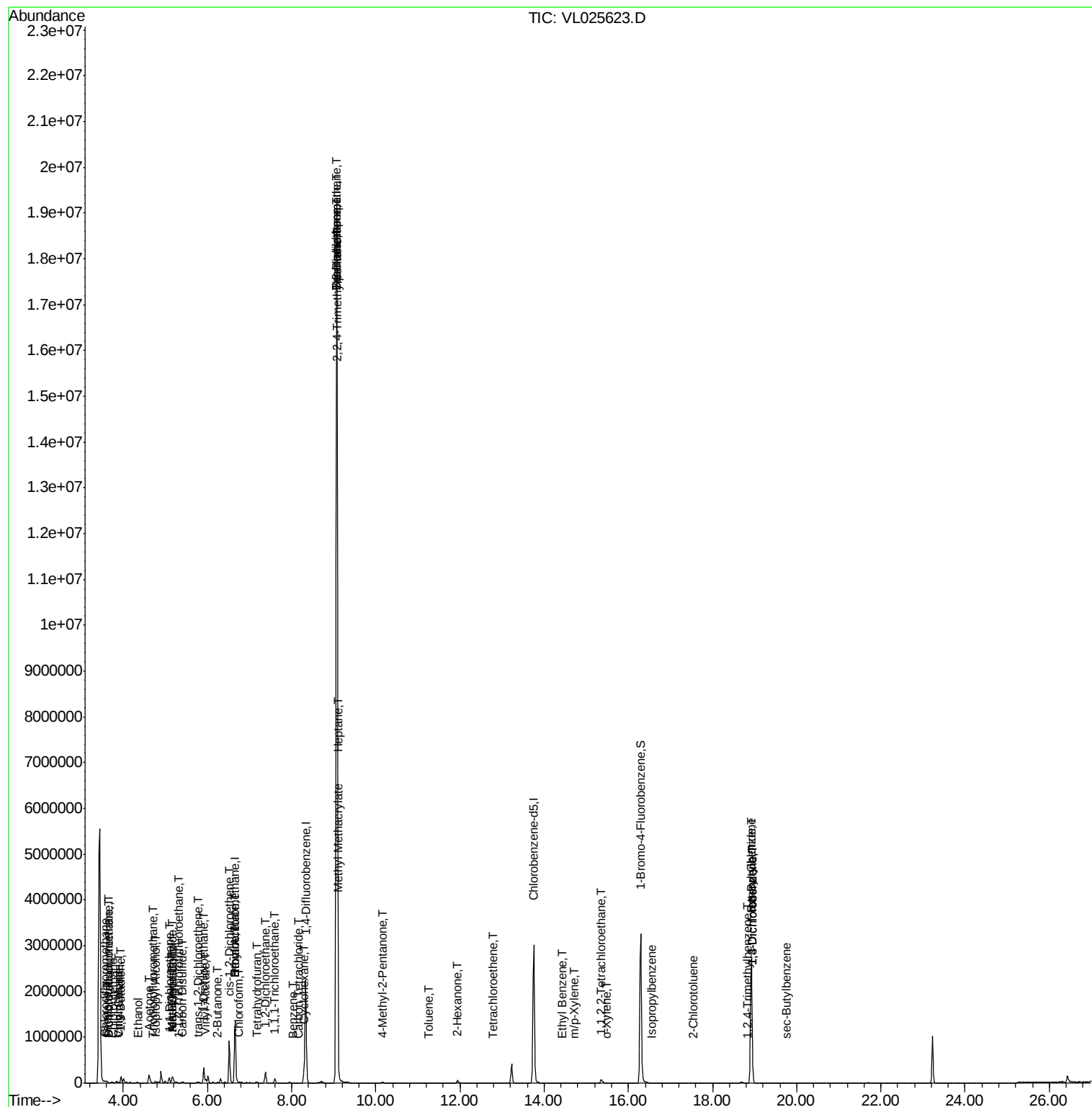
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) Toluene	11.25	91	1501	0.01	ppbv #	21
58) Ethyl Benzene	14.42	91	205	0.00	ppbv #	50
59) m/p-Xylene	14.71	91	311	0.00	ppbv #	29
60) o-Xylene	15.49	91	1151	0.00	ppbv #	32
62) Isopropylbenzene	16.55	105	623	0.00	ppbv #	49
63) 1,1,2,2-Tetrachloroethane	15.36	83	595	0.00	ppbv #	67
65) tert-Butylbenzene	18.91	119	40430	0.09	ppbv #	17
66) Benzyl Chloride	18.93	91	375	0.00	ppbv #	1
67) sec-Butylbenzene	19.75	105	222	0.00	ppbv #	57
71) 2-Chlorotoluene	17.53	91	288	0.00	ppbv #	44
74) 1,2,4-Trimethylbenzene	18.83	105	1466	0.00	ppbv #	31
75) 1,3-Dichlorobenzene	18.94	146	176	0.00	ppbv #	24
76) 1,4-Dichlorobenzene	18.94	146	176	0.00	ppbv #	24

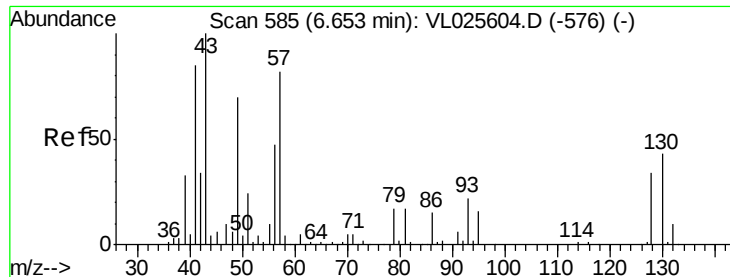
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.65 min Scan# 585

Delta R.T. -0.00 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

Instrument :

MSVOA_L

ClientSampleId :

DIN46-MIDSTREAM-07011DL

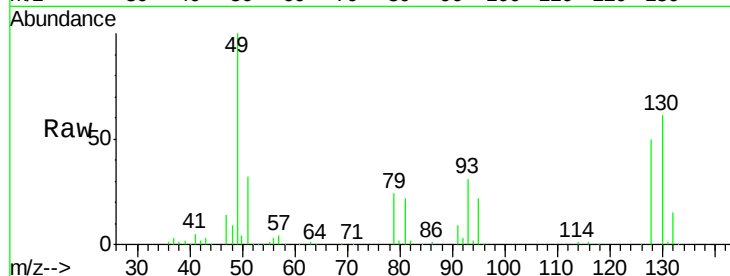
Tgt Ion: 49 Resp: 701306

Ion Ratio Lower Upper

49 100

128 50.9 25.4 76.0

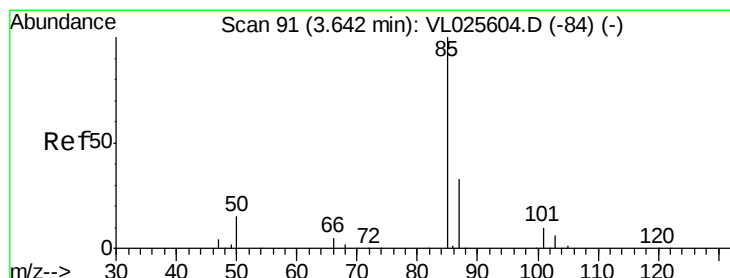
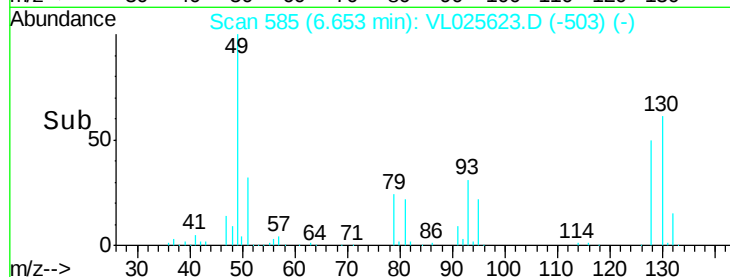
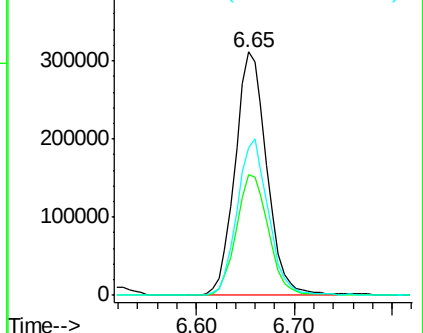
130 64.4 31.9 95.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.01 ppbv

RT: 3.65 min Scan# 92

Delta R.T. 0.01 min

Lab File: VL025623.D

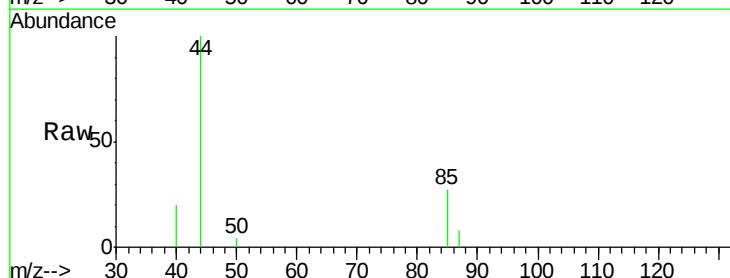
Acq: 8 Jul 2015 1:17

Tgt Ion: 85 Resp: 1738

Ion Ratio Lower Upper

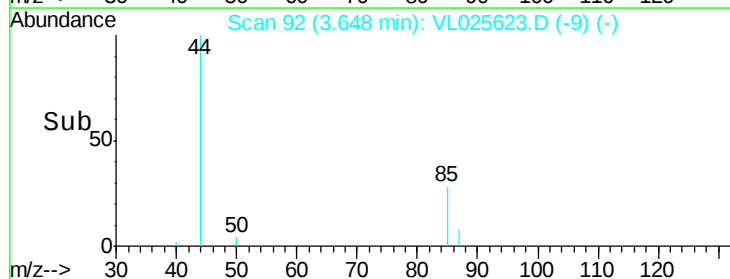
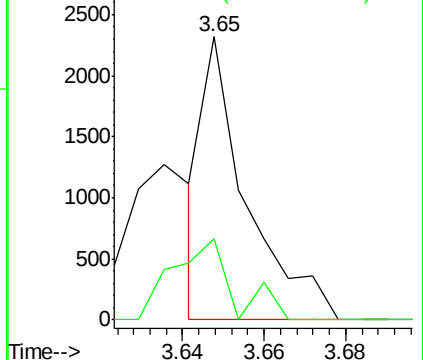
85 100

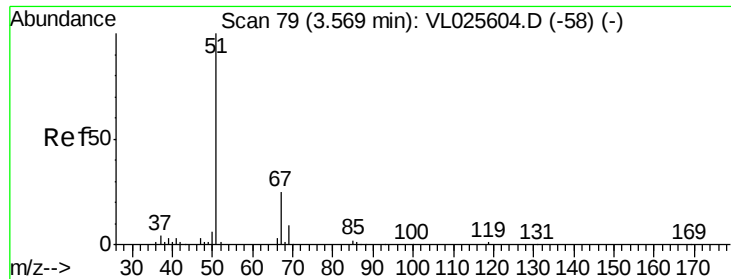
87 28.6 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.01 ppbv

RT: 3.57 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

Instrument :

MSVOA_L

ClientSampleId :

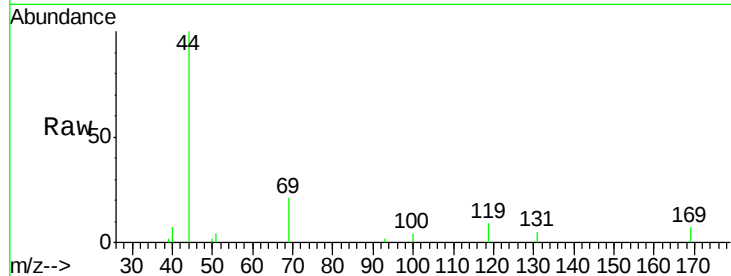
DIN46-MIDSTREAM-07011DL

Tgt Ion: 51 Resp: 1101

Ion Ratio Lower Upper

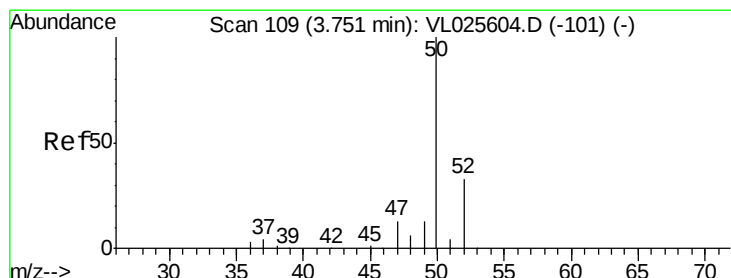
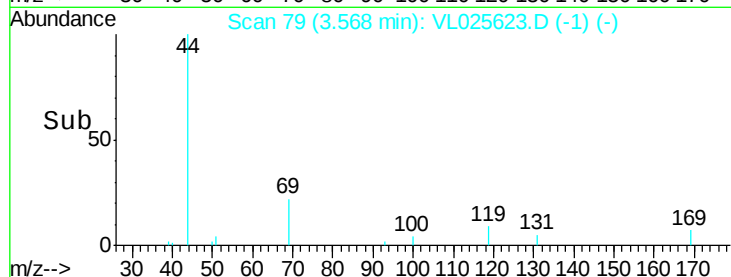
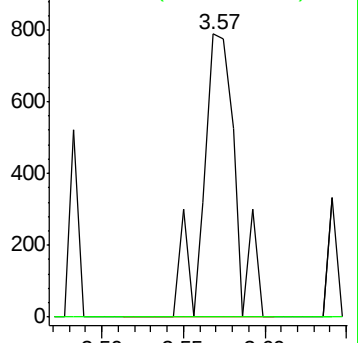
51 100

67 13.0 19.5 29.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.02 ppbv

RT: 3.75 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL025623.D

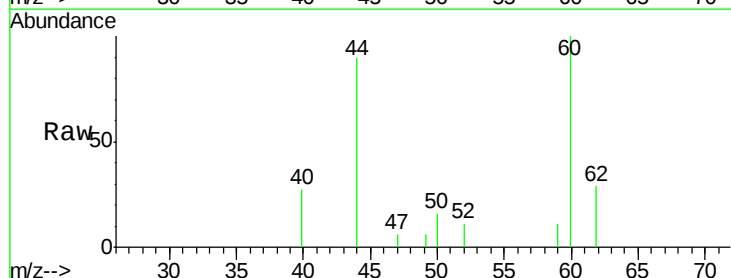
Acq: 8 Jul 2015 1:17

Tgt Ion: 50 Resp: 1100

Ion Ratio Lower Upper

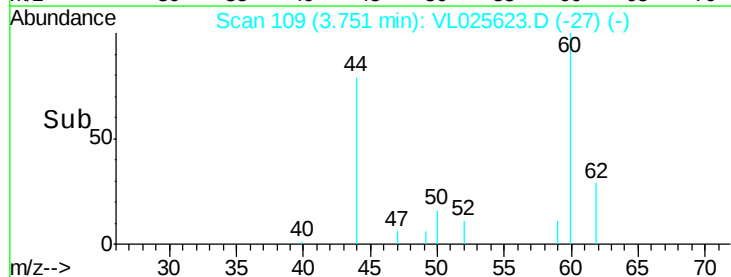
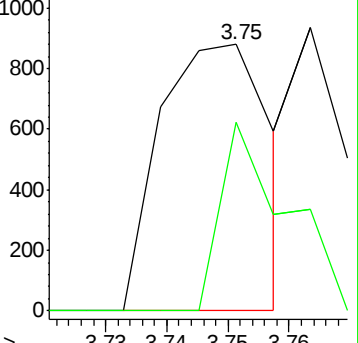
50 100

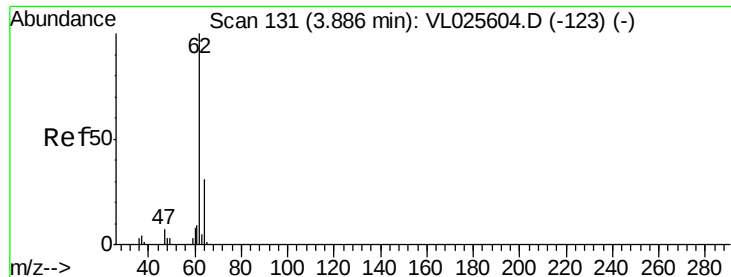
52 70.7 26.2 39.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.24 ppbv

RT: 3.89 min Scan# 131

Delta R.T. -0.00 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

Instrument :

MSVOA_L

ClientSampleId :

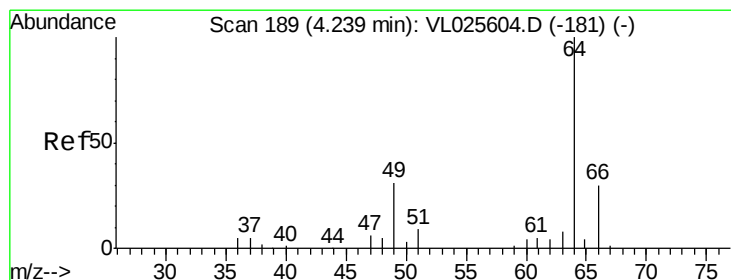
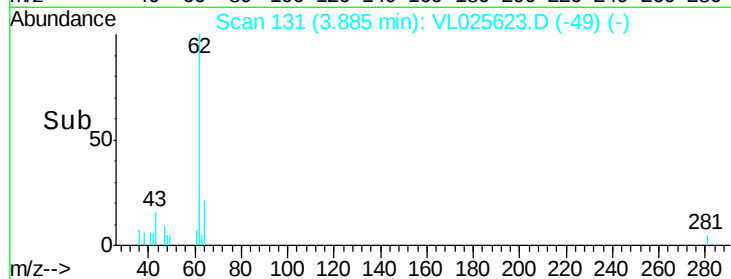
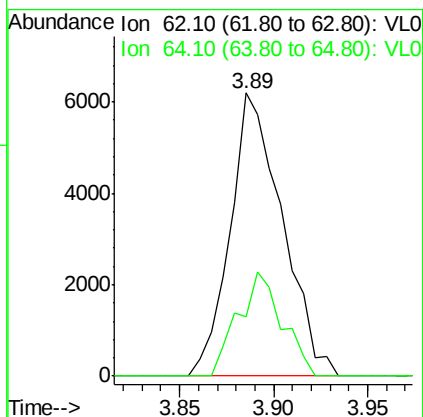
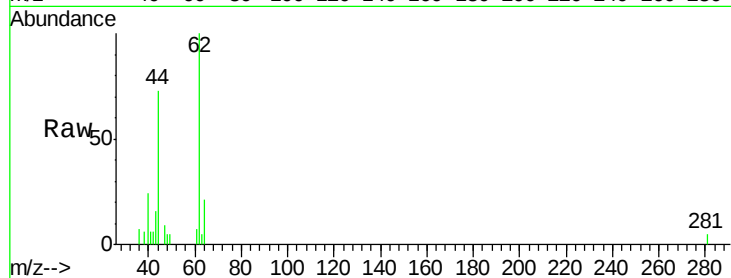
DIN46-MIDSTREAM-07011DL

Tgt Ion: 62 Resp: 11875

Ion Ratio Lower Upper

62 100

64 19.7 25.0 37.6#



#7

Chloroethane

Concen: 0.16 ppbv

RT: 3.89 min Scan# 132

Delta R.T. -0.35 min

Lab File: VL025623.D

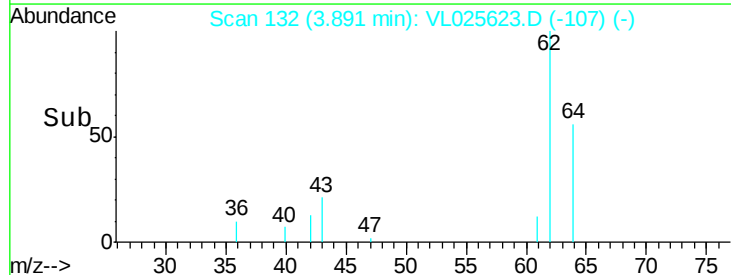
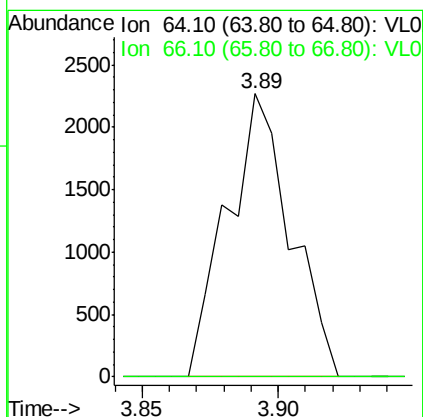
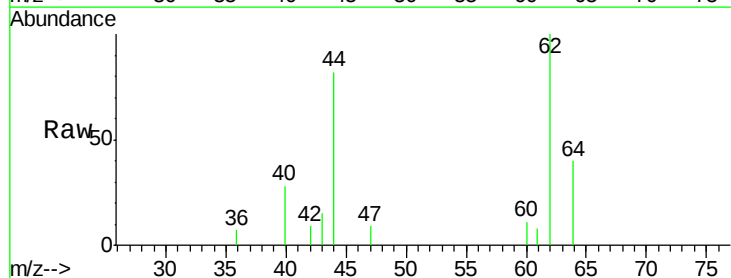
Acq: 8 Jul 2015 1:17

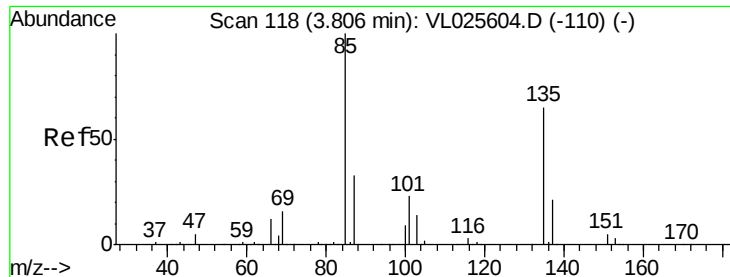
Tgt Ion: 64 Resp: 3674

Ion Ratio Lower Upper

64 100

66 0.0 23.8 35.8#





#8

Dichlorotetrafluoroethane

Concen: 0.01 ppbv

RT: 3.65 min Scan# 92

Delta R.T. -0.16 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

Instrument :

MSVOA_L

ClientSampleId :

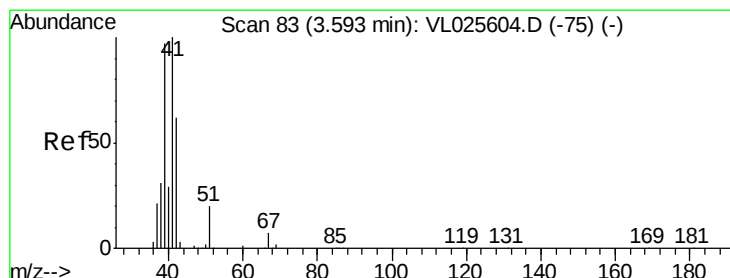
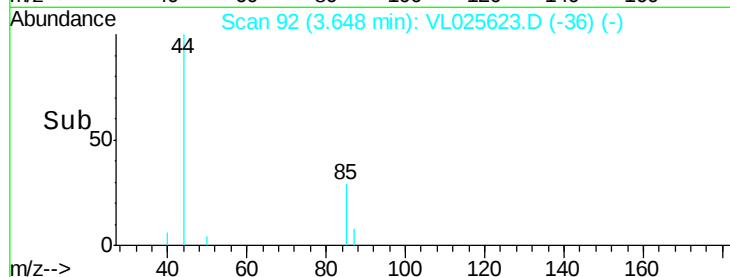
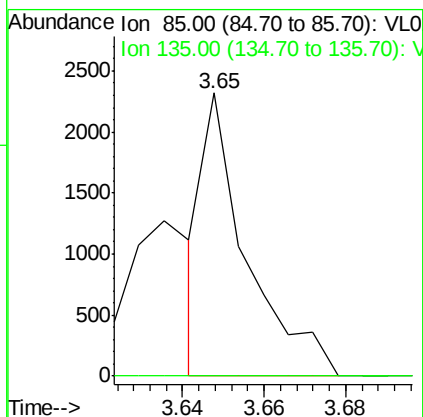
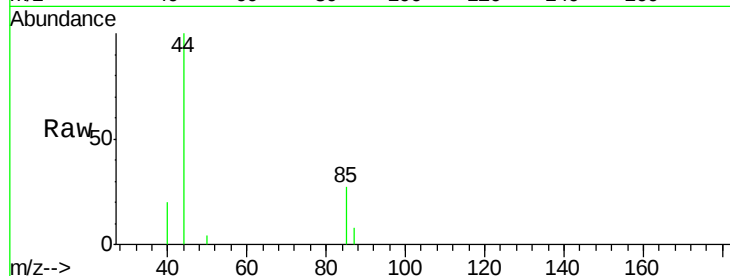
DIN46-MIDSTREAM-07011DL

Tgt Ion: 85 Resp: 1738

Ion Ratio Lower Upper

85 100

135 0.0 52.2 78.4#



#9

Propene

Concen: 0.48 ppbv

RT: 3.60 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL025623.D

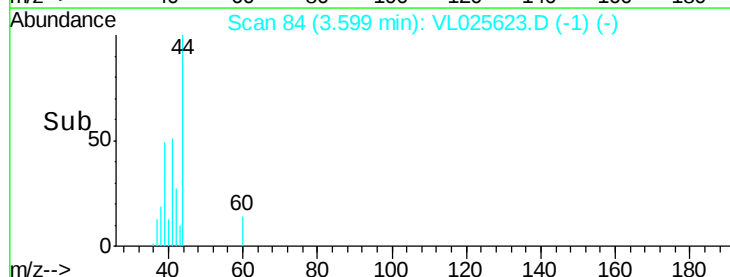
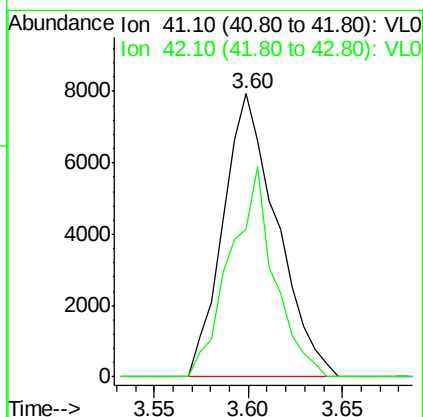
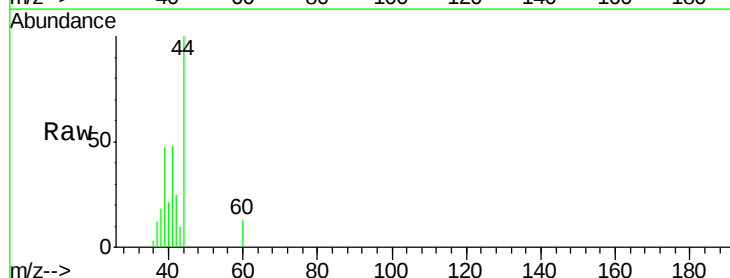
Acq: 8 Jul 2015 1:17

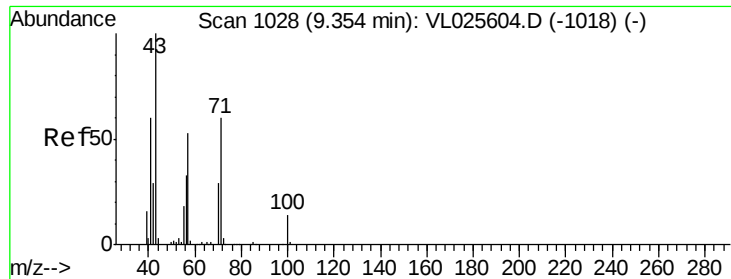
Tgt Ion: 41 Resp: 15721

Ion Ratio Lower Upper

41 100

42 61.0 52.4 78.6





#10

Heptane

Concen: 0.00 ppbv

RT: 9.10 min Scan# 987

Delta R.T. -0.25 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

Instrument :

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ClientSampleId :

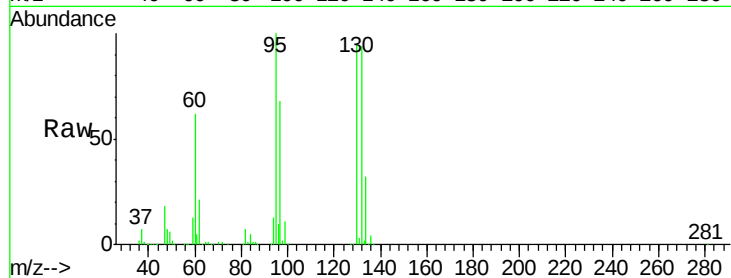
DIN46-MIDSTREAM-07011DL

Tgt Ion: 43 Resp: 327

Ion Ratio Lower Upper

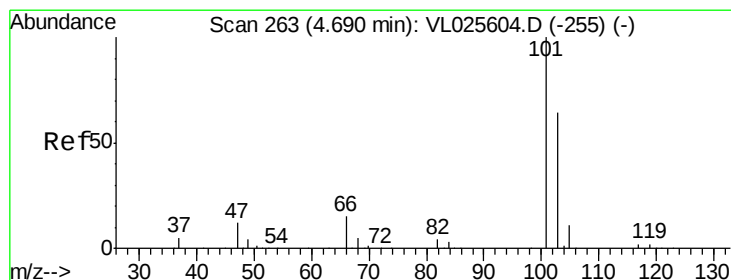
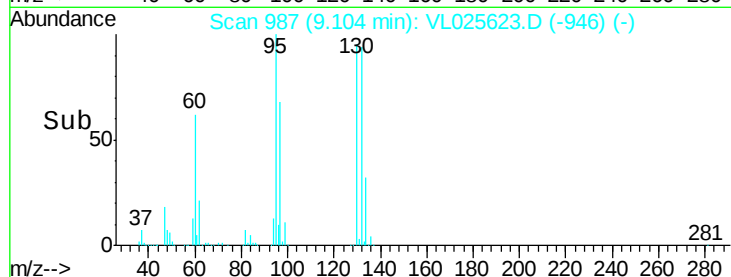
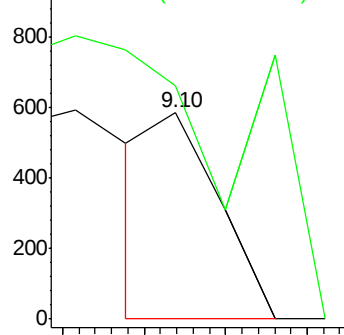
43 100

57 282.9 42.6 64.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.01 ppbv

RT: 4.70 min Scan# 264

Delta R.T. 0.01 min

Lab File: VL025623.D

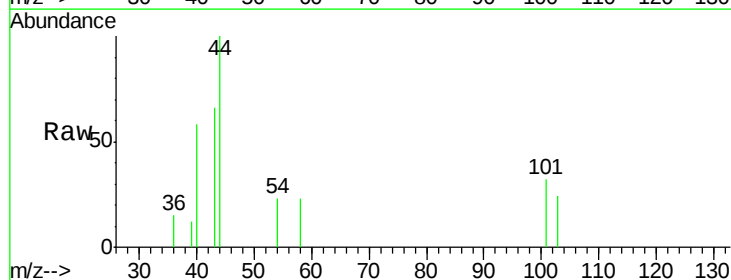
Acq: 8 Jul 2015 1:17

Tgt Ion: 101 Resp: 1239

Ion Ratio Lower Upper

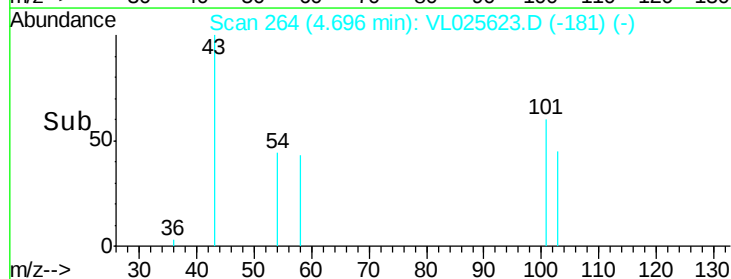
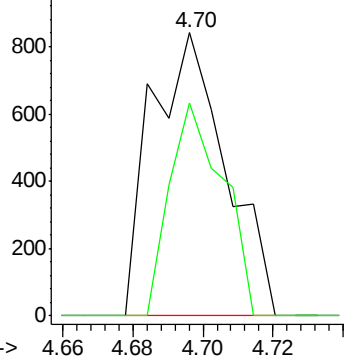
101 100

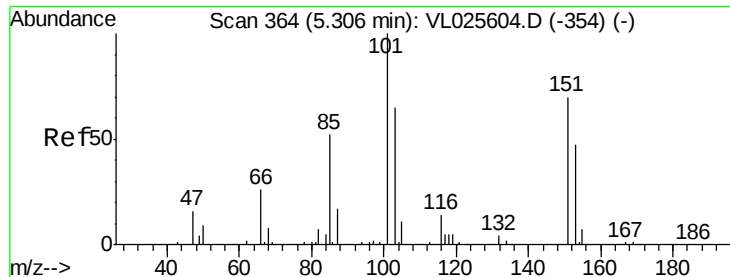
103 75.0 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.00 ppbv

RT: 5.32 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

Instrument :

MSVOA_L

ClientSampleId :

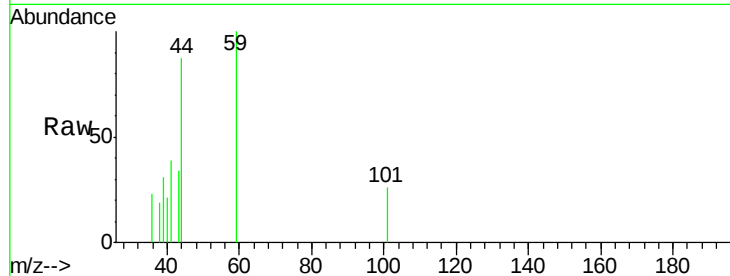
DIN46-MIDSTREAM-07011DL

Tgt Ion:101 Resp: 331

Ion Ratio Lower Upper

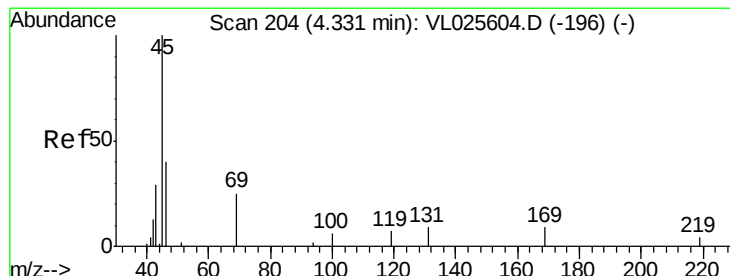
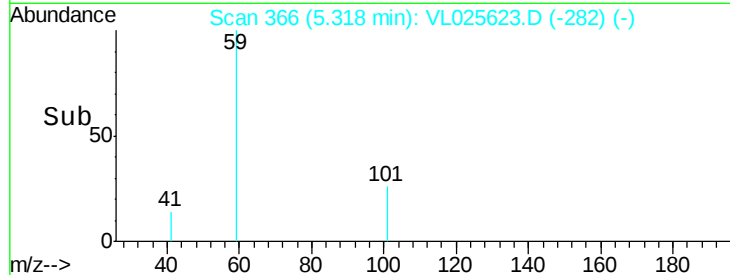
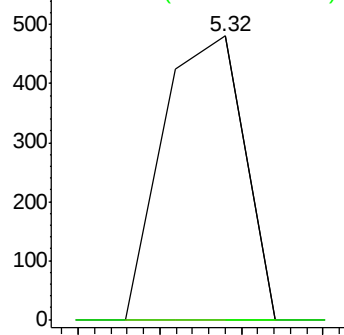
101 100

151 0.0 56.3 84.5#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 0.33 ppbv

RT: 4.35 min Scan# 207

Delta R.T. 0.02 min

Lab File: VL025623.D

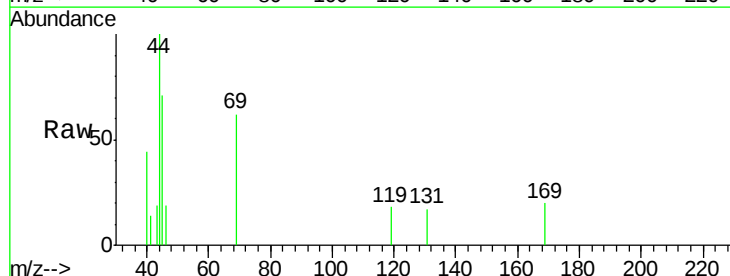
Acq: 8 Jul 2015 1:17

Tgt Ion: 45 Resp: 1697

Ion Ratio Lower Upper

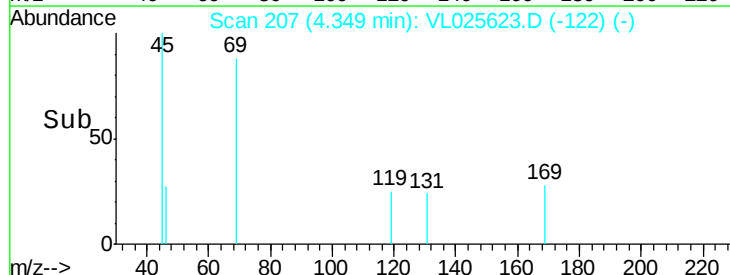
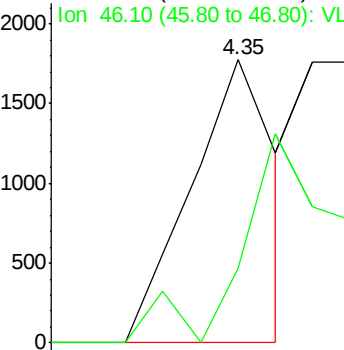
45 100

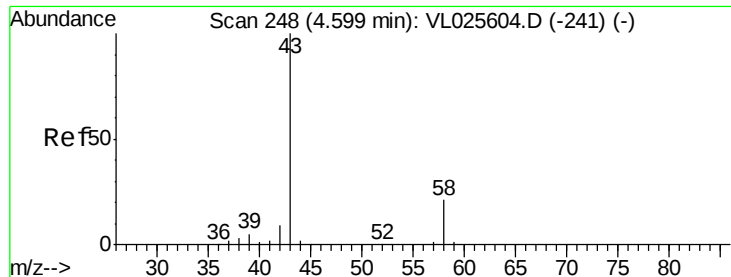
46 125.9 16.0 64.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 1.41 ppbv

RT: 4.62 min Scan# 252

Delta R.T. 0.02 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

Instrument :

MSVOA_L

ClientSampleId :

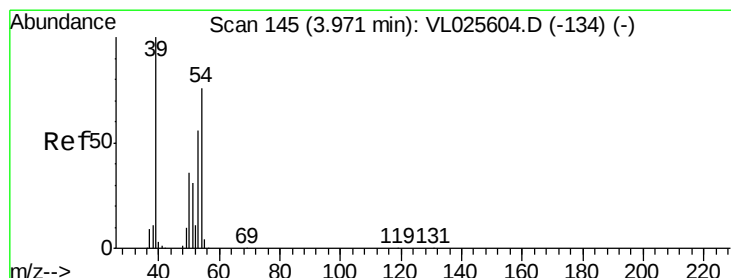
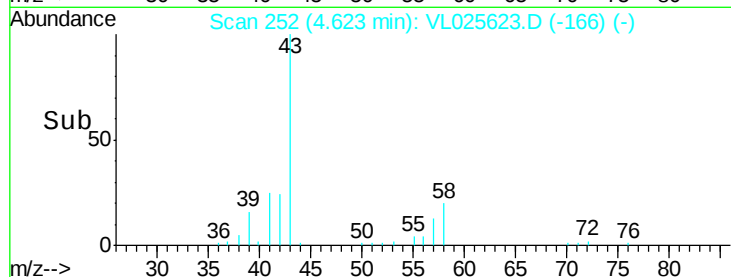
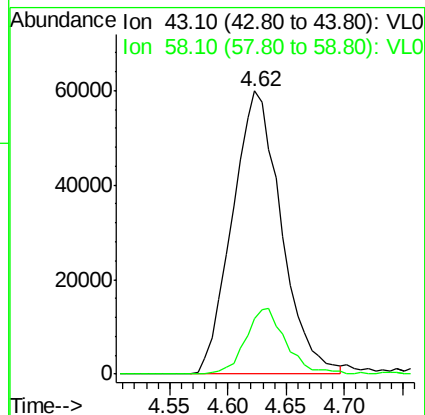
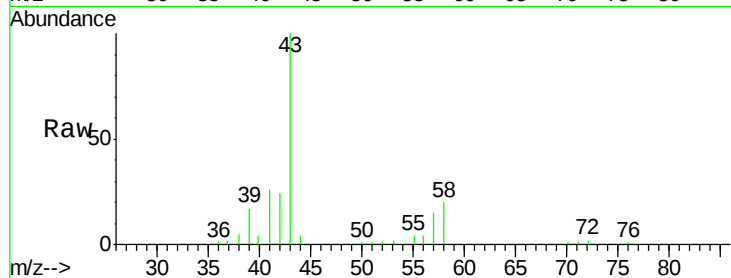
DIN46-MIDSTREAM-07011DL

Tgt Ion: 43 Resp: 174914

Ion Ratio Lower Upper

43 100

58 19.1 17.2 25.8



#16

1,3-Butadiene

Concen: 1.14 ppbv

RT: 3.95 min Scan# 142

Delta R.T. -0.02 min

Lab File: VL025623.D

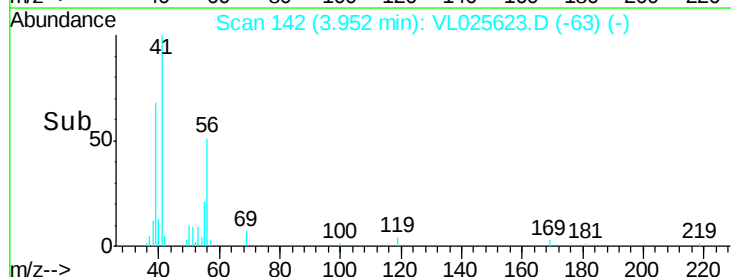
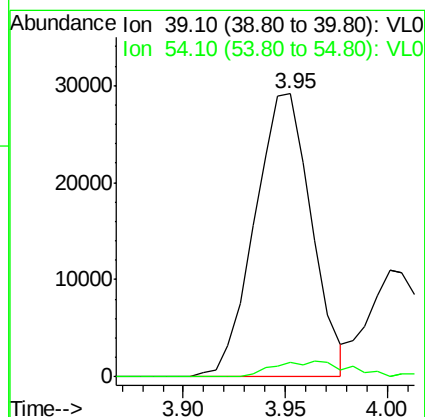
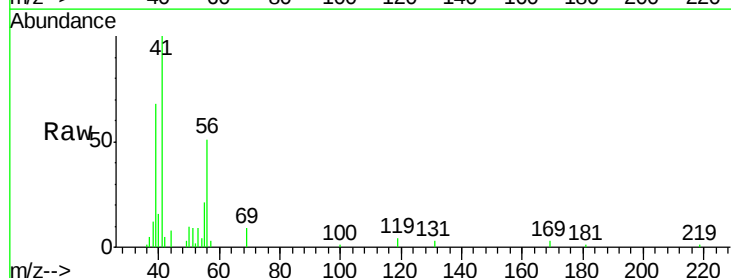
Acq: 8 Jul 2015 1:17

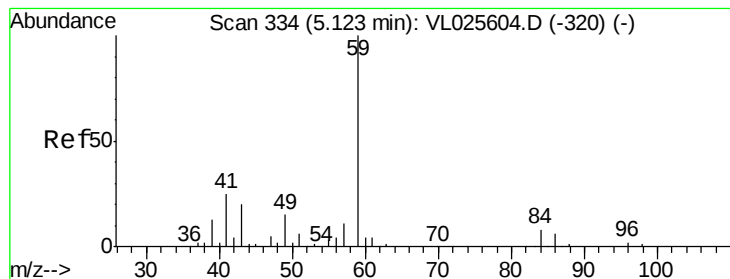
Tgt Ion: 39 Resp: 56370

Ion Ratio Lower Upper

39 100

54 7.6 59.3 88.9#



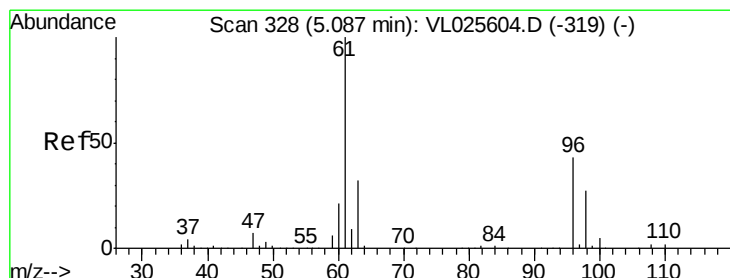
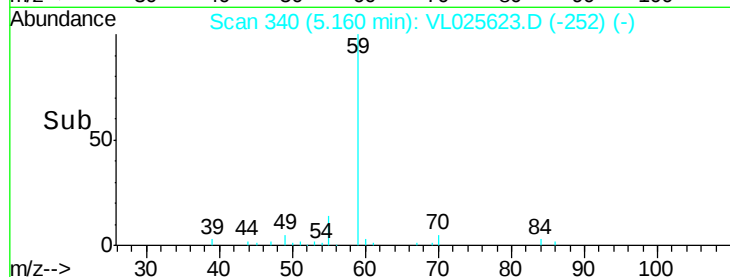
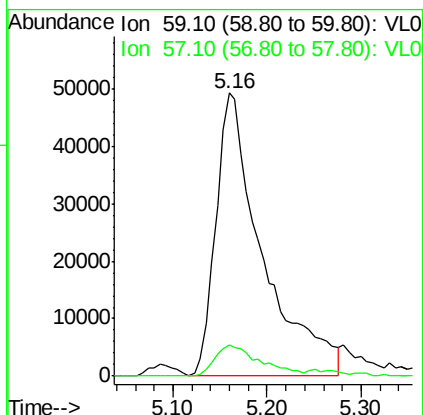
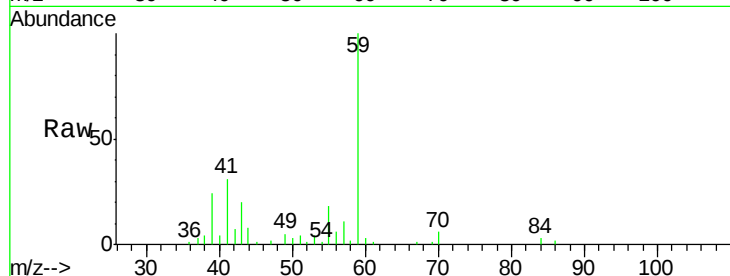


#17

tert-Butyl alcohol
 Concen: 1.63 ppbv
 RT: 5.16 min Scan# 340
 Delta R.T. 0.04 min
 Lab File: VL025623.D
 Acq: 8 Jul 2015 1:17

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46-MIDSTREAM-07011DL

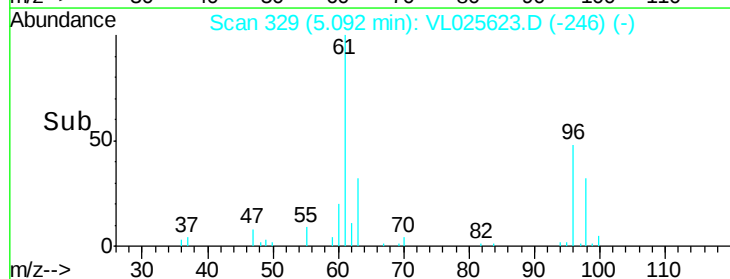
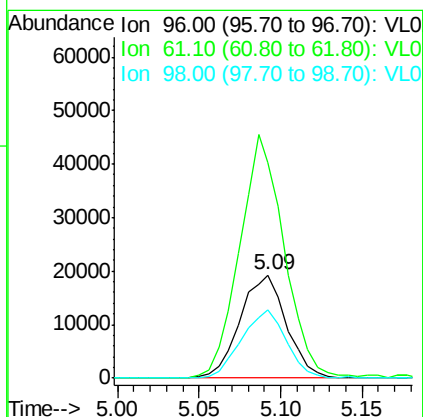
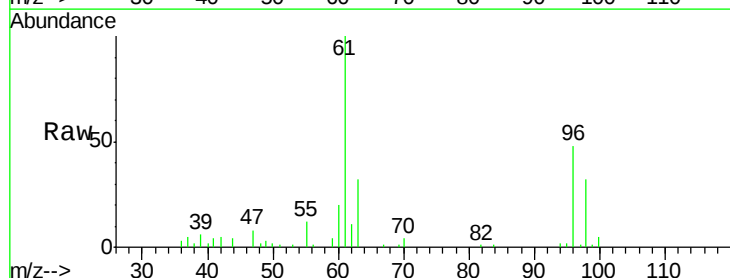
Tgt Ion: 59 Resp: 169088
 Ion Ratio Lower Upper
 59 100
 57 12.4 9.4 14.2

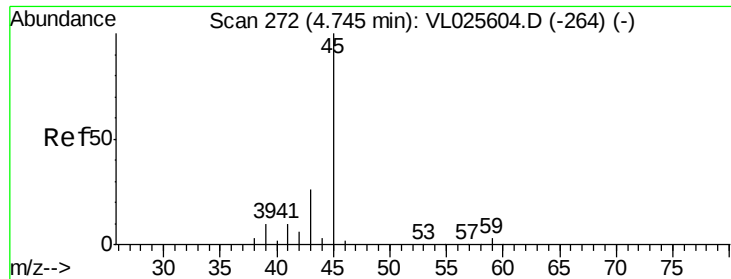


#18

1,1-Dichloroethene
 Concen: 0.74 ppbv
 RT: 5.09 min Scan# 329
 Delta R.T. 0.01 min
 Lab File: VL025623.D
 Acq: 8 Jul 2015 1:17

Tgt Ion: 96 Resp: 38150
 Ion Ratio Lower Upper
 96 100
 61 209.0 184.1 276.1
 98 66.6 50.0 75.0





#19

Isopropyl Alcohol

Concen: 0.01 ppbv

RT: 4.78 min Scan# 277

Delta R.T. 0.03 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

Instrument :

MSVOA_L

ClientSampleId :

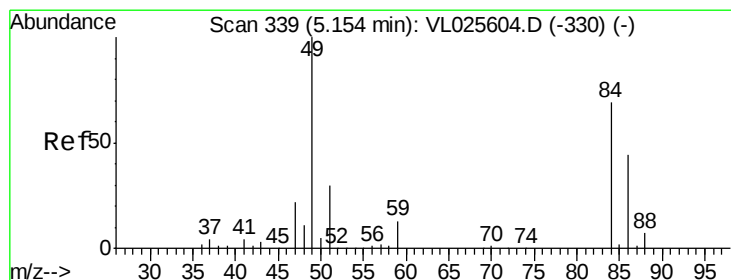
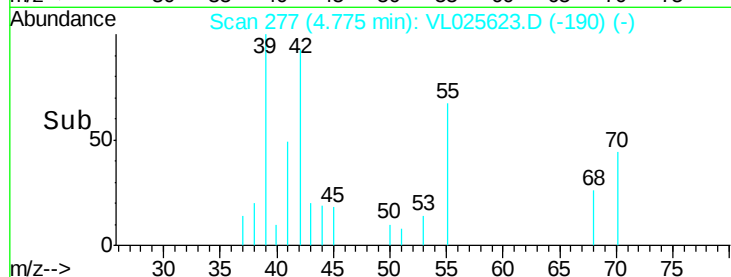
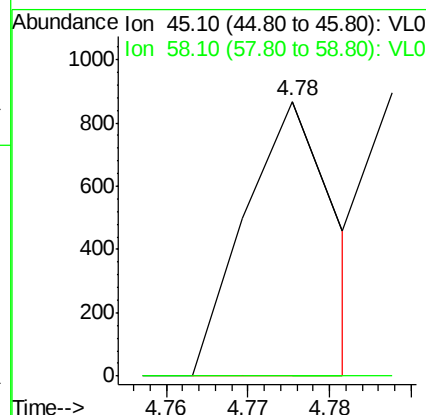
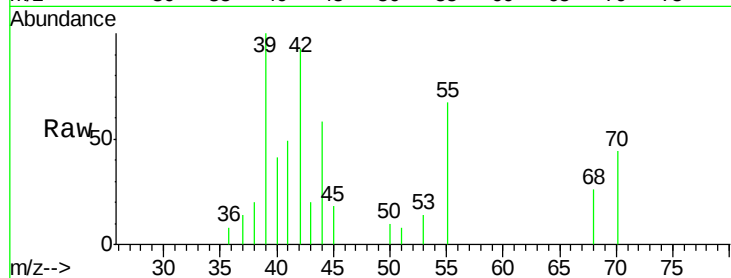
DIN46-MIDSTREAM-07011DL

Tgt Ion: 45 Resp: 668

Ion Ratio Lower Upper

45 100

58 5013.3 1.1 1.7#



#20

Methylene Chloride

Concen: 0.06 ppbv

RT: 5.15 min Scan# 339

Delta R.T. -0.00 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

Tgt Ion: 84 Resp: 3249

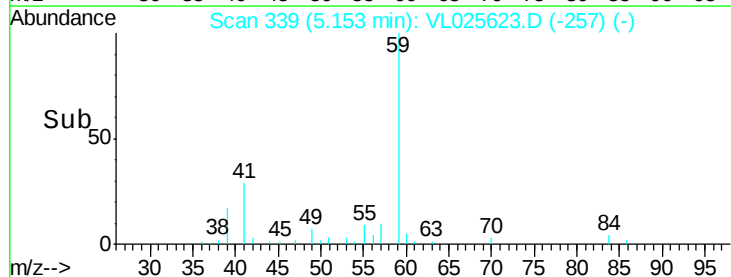
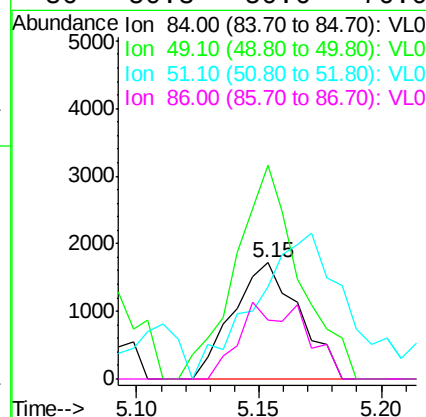
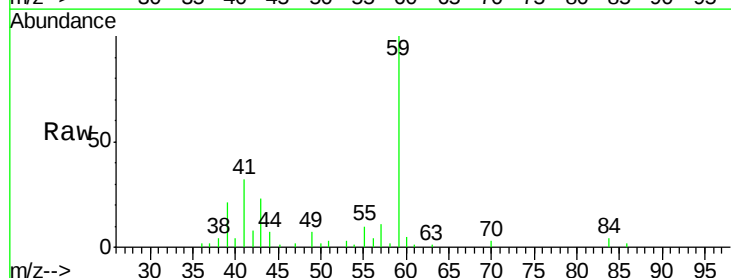
Ion Ratio Lower Upper

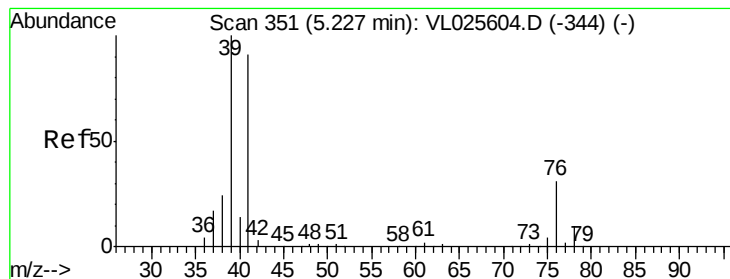
84 100

49 163.1 115.2 172.8

51 79.1 35.0 52.6#

86 50.3 50.6 76.0#





#21

Allyl Chloride

Concen: 0.73 ppbv

RT: 5.17 min Scan# 341

Delta R.T. -0.06 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

Instrument :

MSVOA_L

ClientSampleId :

DIN46-MIDSTREAM-07011DL

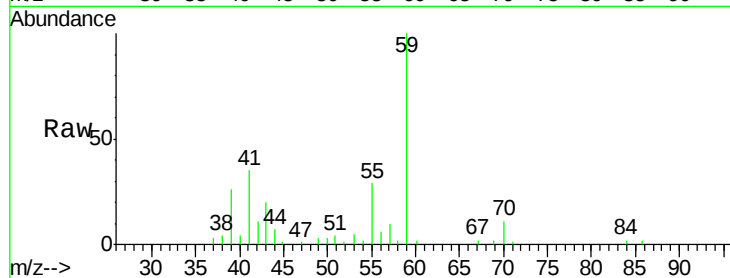
Tgt Ion: 41 Resp: 56496

Ion Ratio Lower Upper

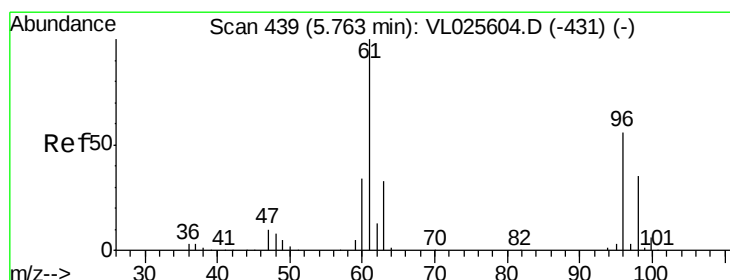
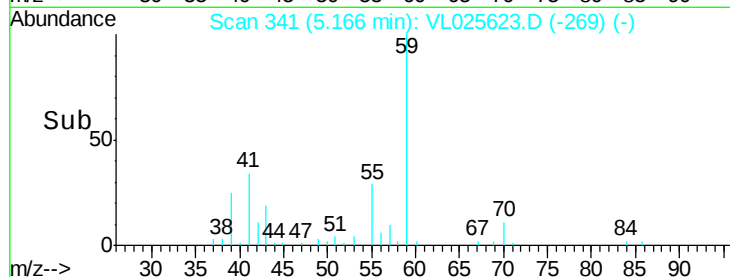
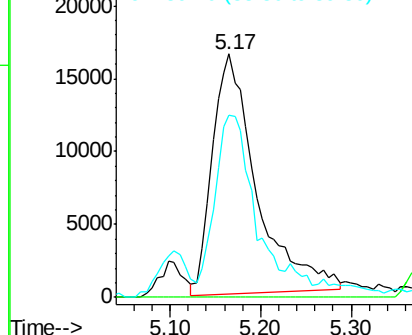
41 100

76 0.0 26.6 40.0#

39 91.8 88.2 132.4



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.08 ppbv

RT: 5.77 min Scan# 440

Delta R.T. 0.01 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

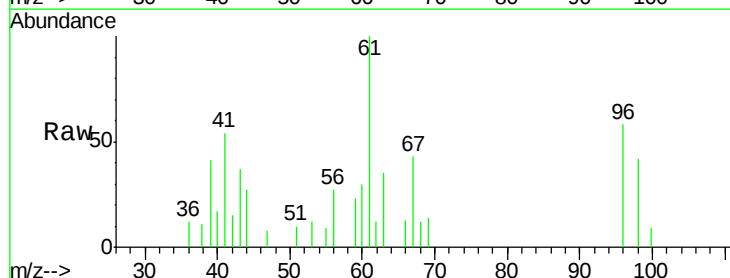
Tgt Ion: 96 Resp: 4399

Ion Ratio Lower Upper

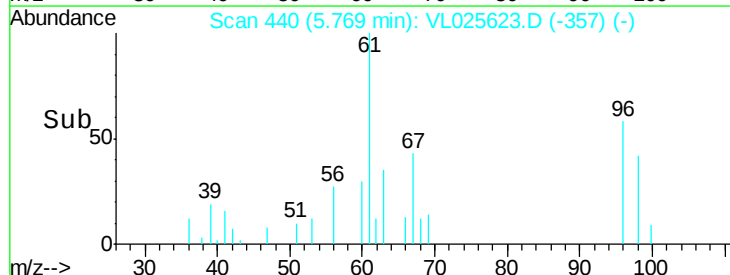
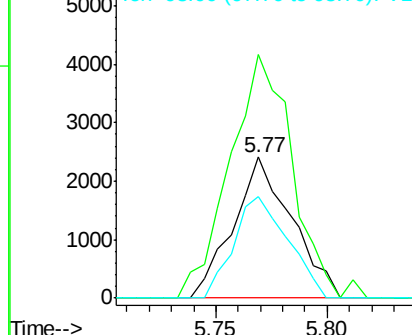
96 100

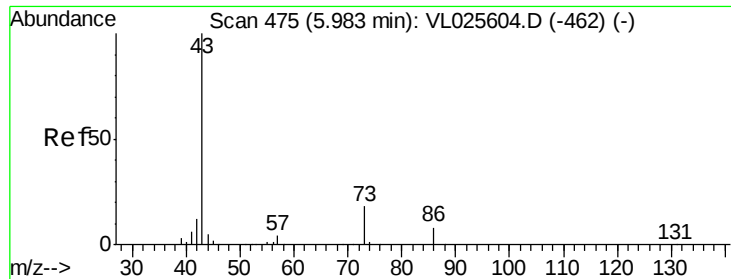
61 172.7 141.8 212.6

98 72.0 49.0 73.6



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 0.10 ppbv

RT: 5.96 min Scan# 471

Delta R.T. -0.02 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

Instrument :

MSVOA_L

ClientSampleId :

DIN46-MIDSTREAM-07011DL

Tgt Ion: 43 Resp: 18437

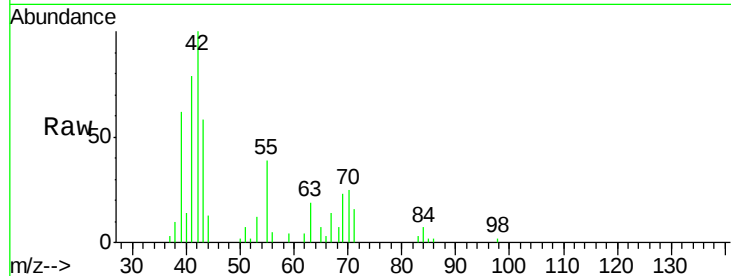
Ion Ratio Lower Upper

43 100

86 3.8 6.7 10.1#

42 173.4 9.8 14.6#

44 9.0 4.1 6.1#

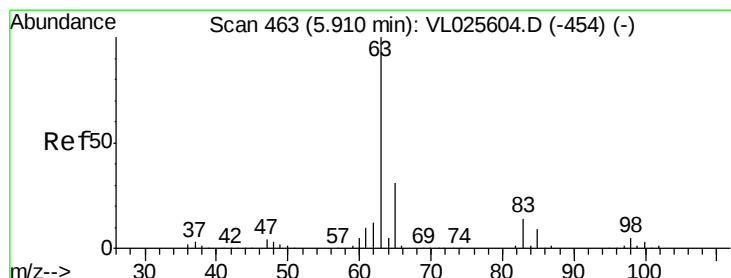
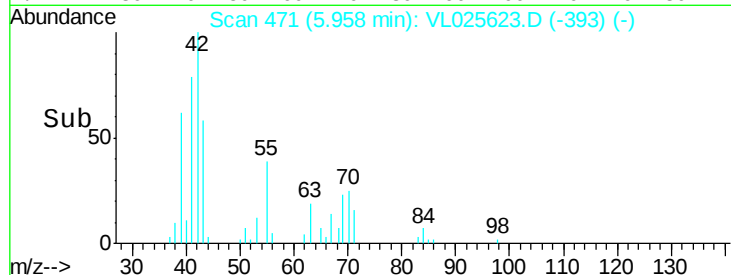
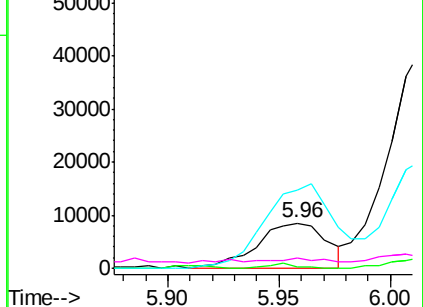


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 2.62 ppbv

RT: 5.91 min Scan# 463

Delta R.T. -0.00 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

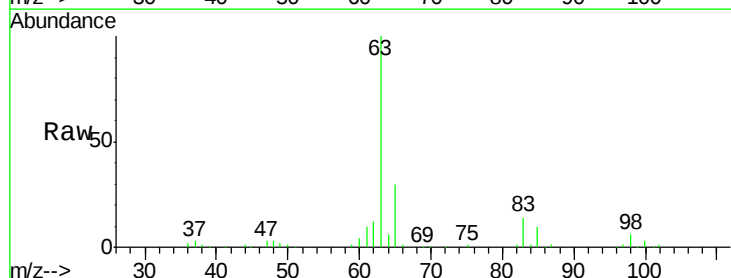
Tgt Ion: 63 Resp: 329754

Ion Ratio Lower Upper

63 100

98 5.9 2.6 8.0

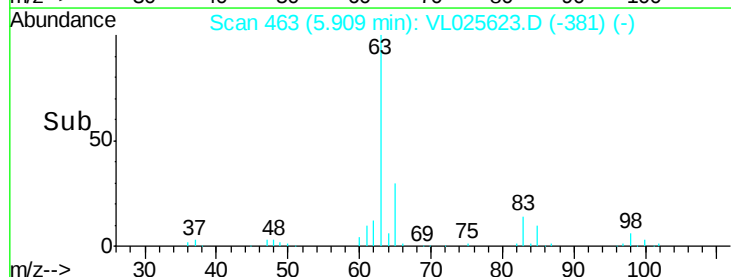
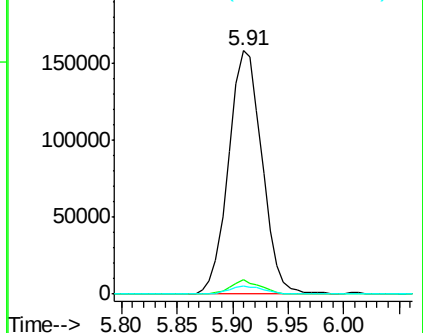
100 3.4 1.6 4.7

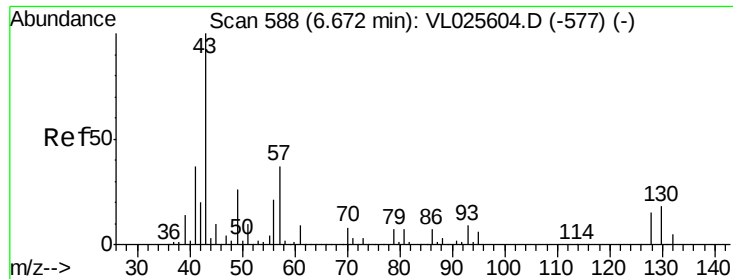


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

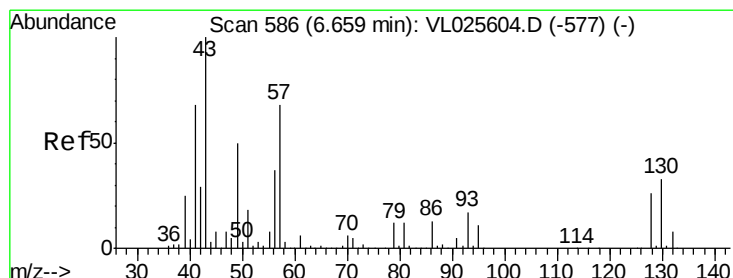
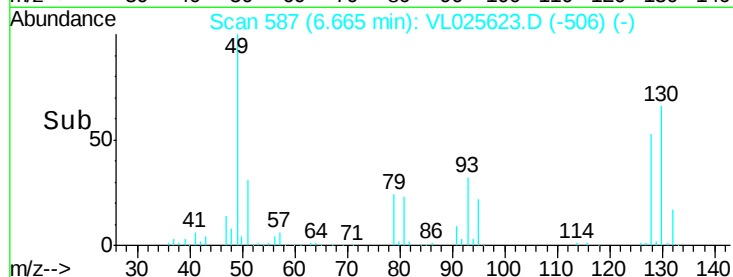
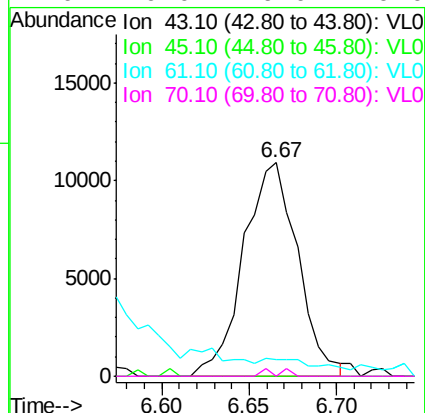
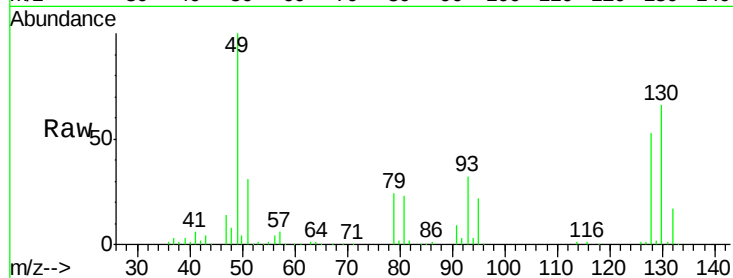




#25
Ethyl Acetate
Concen: 0.13 ppbv
RT: 6.67 min Scan# 587
Delta R.T. -0.01 min
Lab File: VL025623.D
Acq: 8 Jul 2015 1:17

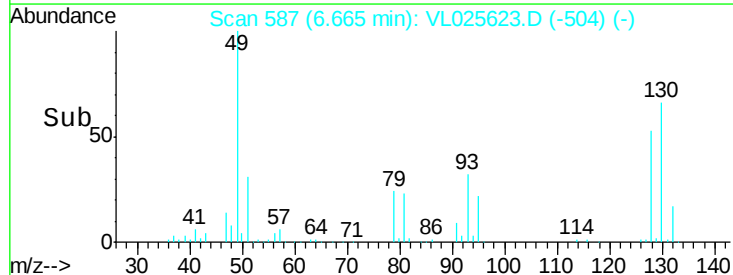
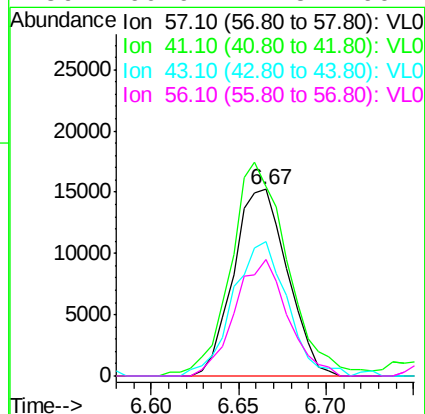
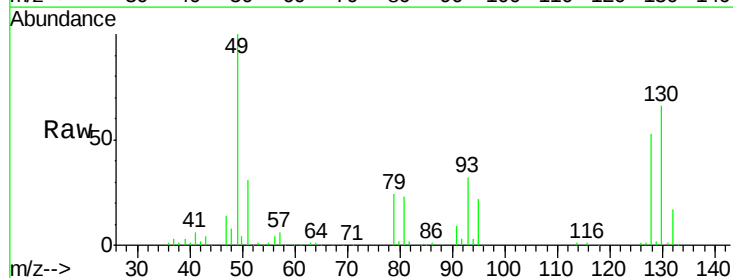
Instrument :
MSVOA_L
ClientSampleId :
DIN46-MIDSTREAM-07011DL

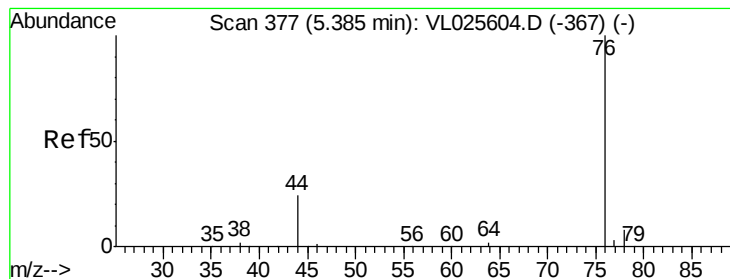
Tgt Ion:	43	Resp:	23501
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.5	11.3#
61	0.0	6.6	10.0#
70	0.0	6.0	9.0#



#26
Hexane
Concen: 0.37 ppbv
RT: 6.67 min Scan# 587
Delta R.T. 0.01 min
Lab File: VL025623.D
Acq: 8 Jul 2015 1:17

Tgt Ion:	57	Resp:	32693
Ion	Ratio	Lower	Upper
57	100		
41	121.3	81.4	122.2
43	73.4	171.4	257.2#
56	60.9	44.5	66.7





#27

Carbon Disulfide

Concen: 0.28 ppbv

RT: 5.40 min Scan# 379

Delta R.T. 0.01 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

Instrument :

MSVOA_L

ClientSampleId :

DIN46-MIDSTREAM-07011DL

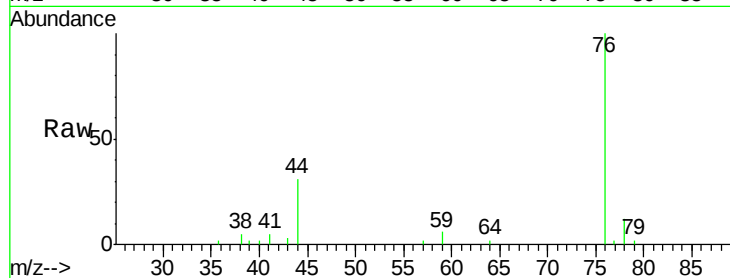
Tgt Ion: 76 Resp: 40303

Ion Ratio Lower Upper

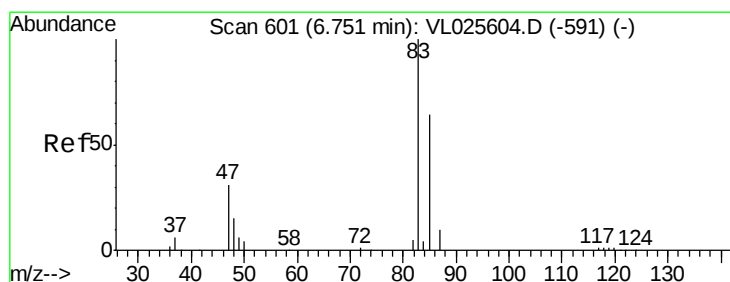
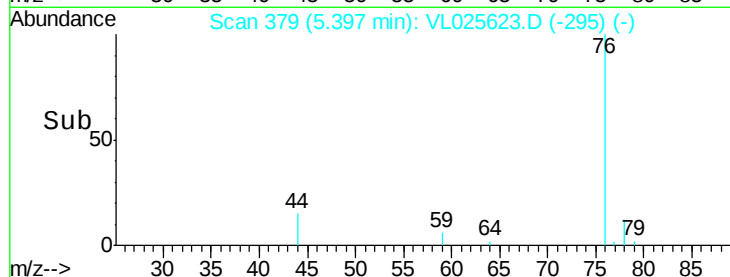
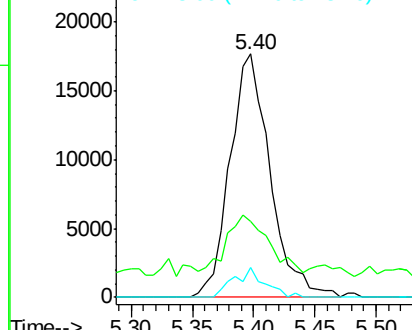
76 100

44 42.5 20.2 30.4#

78 9.4 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#29

Chloroform

Concen: 0.05 ppbv

RT: 6.75 min Scan# 601

Delta R.T. -0.00 min

Lab File: VL025623.D

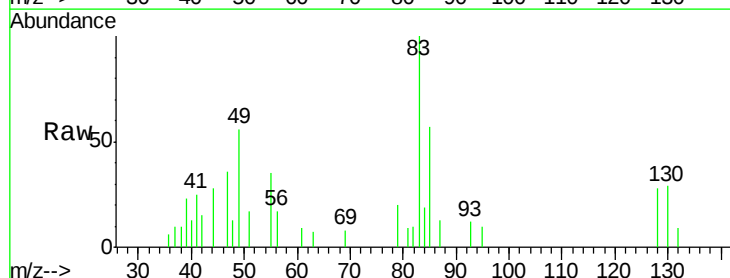
Acq: 8 Jul 2015 1:17

Tgt Ion: 83 Resp: 9417

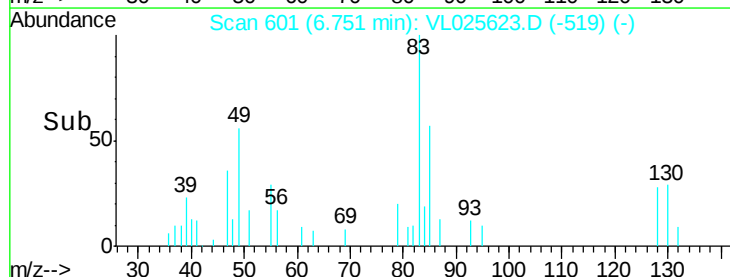
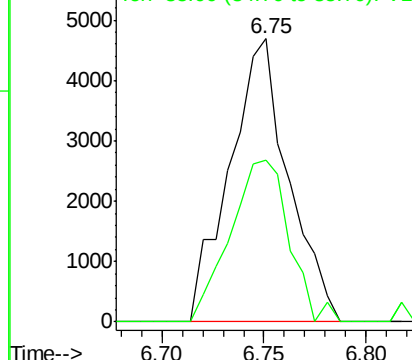
Ion Ratio Lower Upper

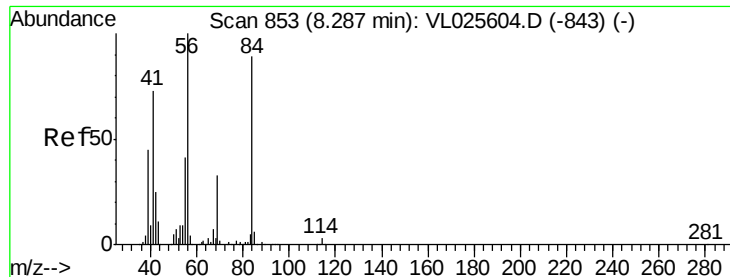
83 100

85 56.9 51.6 77.4



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0

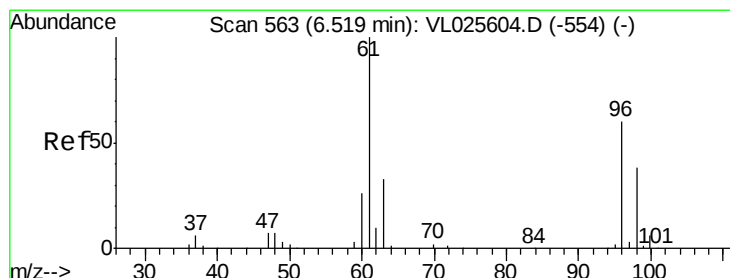
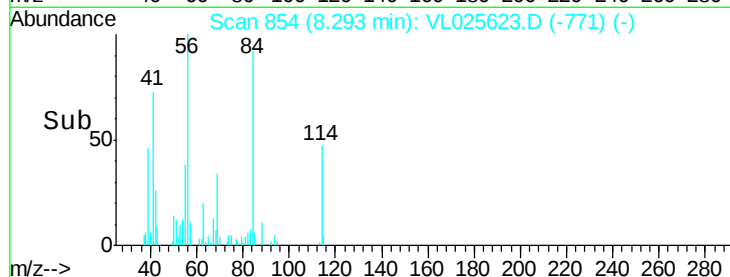
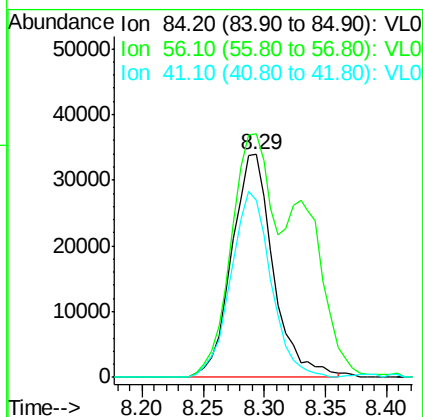
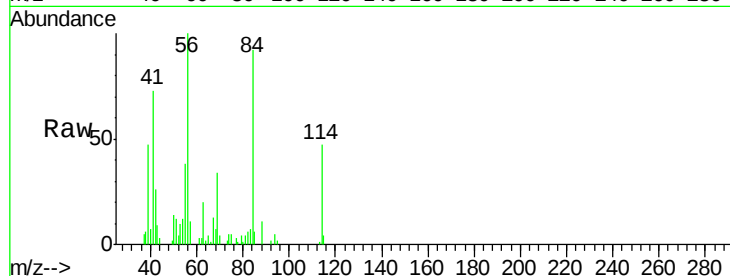




#30
Cyclohexane
Concen: 0.95 ppbv
RT: 8.29 min Scan# 854
Delta R.T. 0.01 min
Lab File: VL025623.D
Acq: 8 Jul 2015 1:17

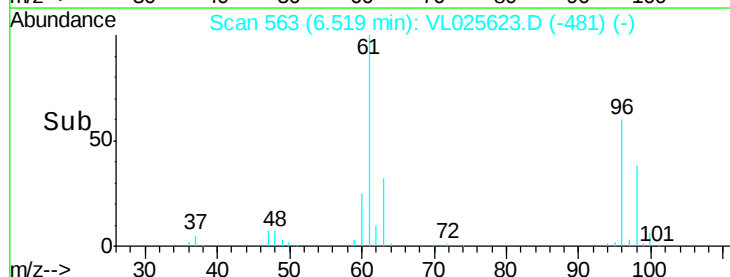
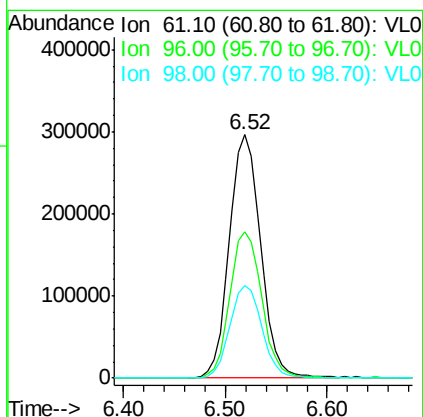
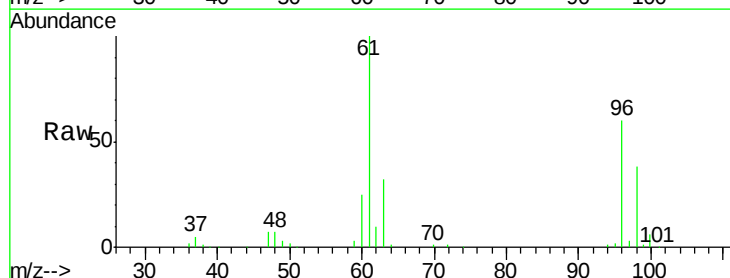
Instrument :
MSVOA_L
ClientSampleId :
DIN46-MIDSTREAM-07011DL

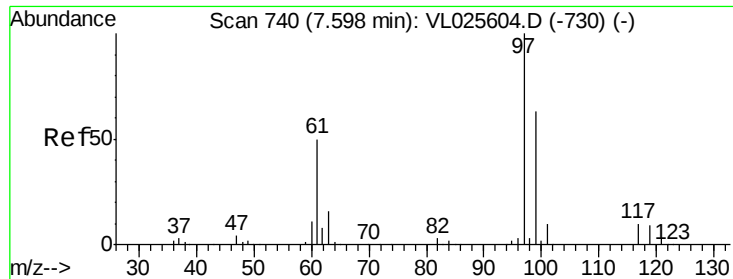
Tgt Ion: 84 Resp: 80050
Ion Ratio Lower Upper
84 100
56 182.2 97.5 146.3#
41 80.7 65.4 98.2



#31
cis-1,2-Dichloroethene
Concen: 7.22 ppbv
RT: 6.52 min Scan# 563
Delta R.T. -0.00 min
Lab File: VL025623.D
Acq: 8 Jul 2015 1:17

Tgt Ion: 61 Resp: 633351
Ion Ratio Lower Upper
61 100
96 59.9 48.1 72.1
98 38.0 30.7 46.1





#32

1,1,1-Trichloroethane

Concen: 0.38 ppbv

RT: 7.60 min Scan# 740

Delta R.T. -0.00 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

Instrument :

MSVOA_L

ClientSampleId :

DIN46-MIDSTREAM-07011DL

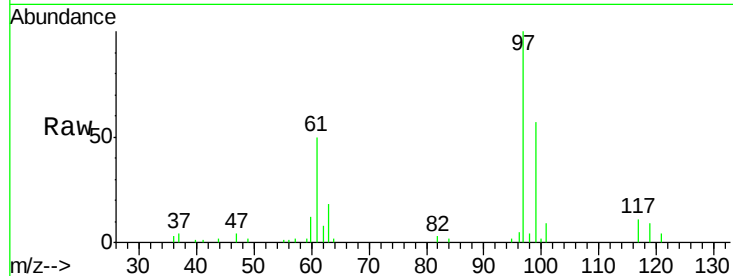
Tgt Ion: 97 Resp: 72469

Ion Ratio Lower Upper

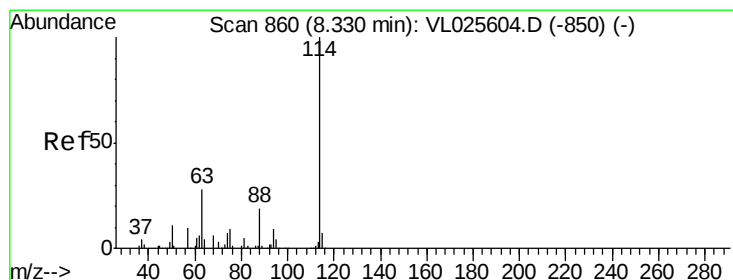
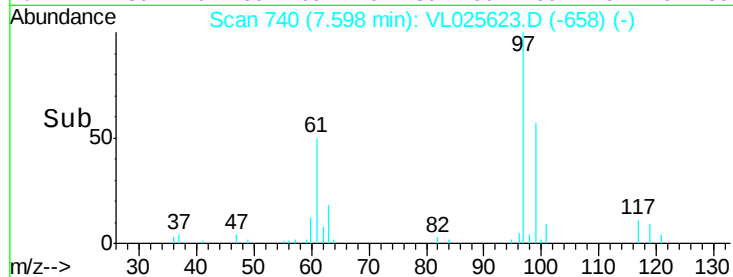
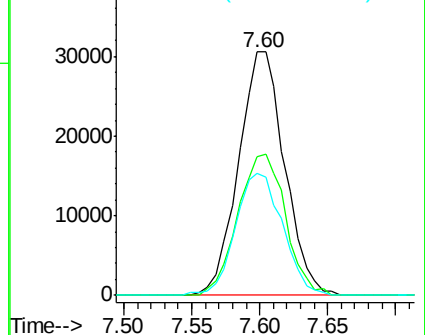
97 100

99 59.8 51.2 76.8

61 51.1 40.4 60.6



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.34 min Scan# 861

Delta R.T. 0.01 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

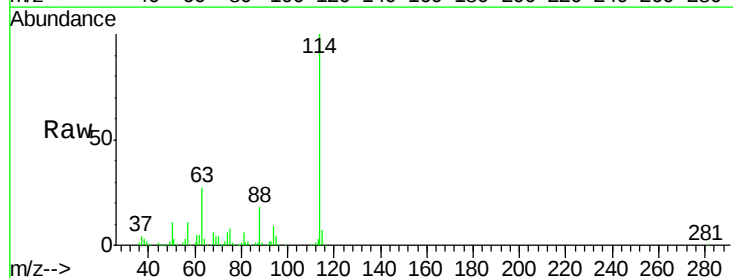
Tgt Ion: 114 Resp: 1883001

Ion Ratio Lower Upper

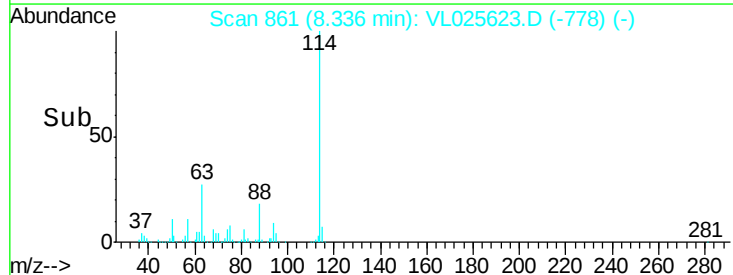
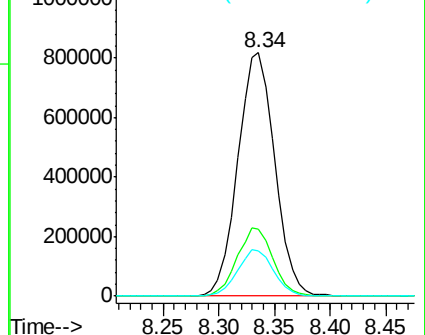
114 100

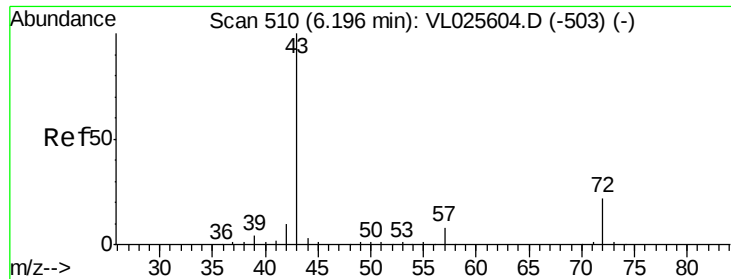
63 27.3 22.4 33.6

88 18.7 15.0 22.4



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.22 ppbv

RT: 6.24 min Scan# 517

Delta R.T. 0.04 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

Instrument :

MSVOA_L

ClientSampleId :

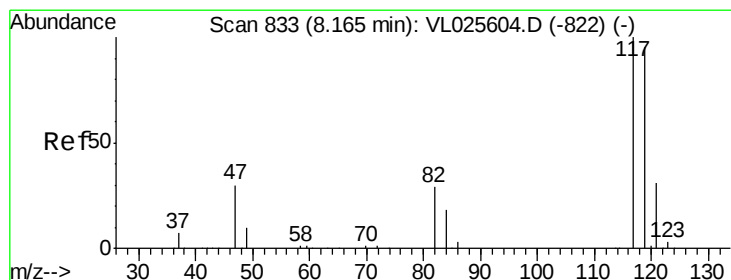
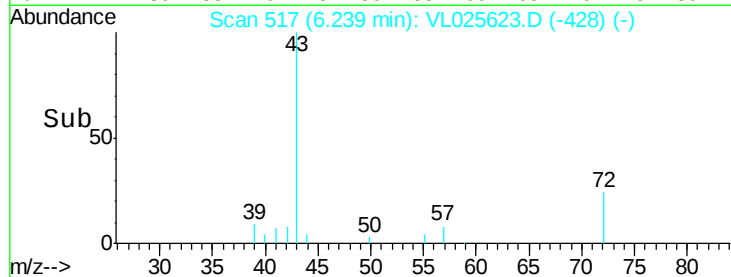
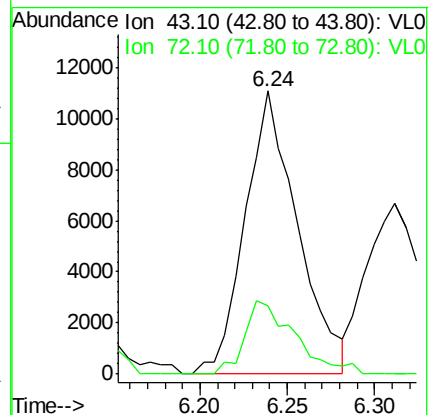
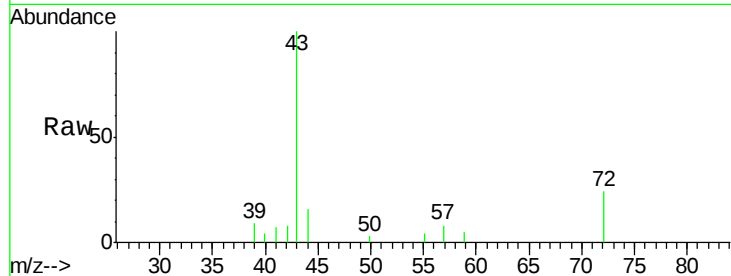
DIN46-MIDSTREAM-07011DL

Tgt Ion: 43 Resp: 23151

Ion Ratio Lower Upper

43 100

72 24.7 18.6 28.0



#35

Carbon Tetrachloride

Concen: 0.00 ppbv

RT: 8.18 min Scan# 835

Delta R.T. 0.01 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

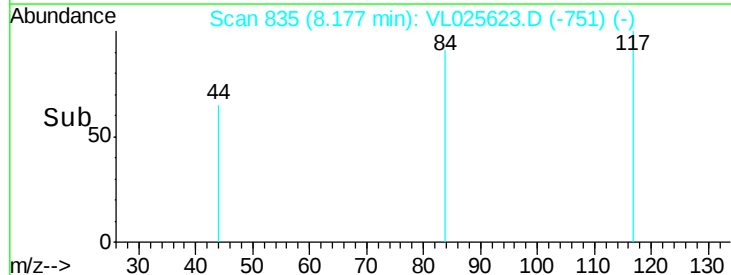
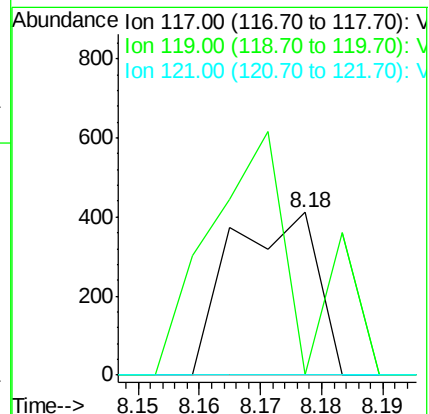
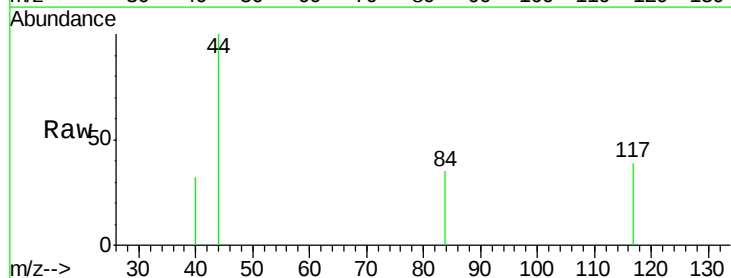
Tgt Ion: 117 Resp: 403

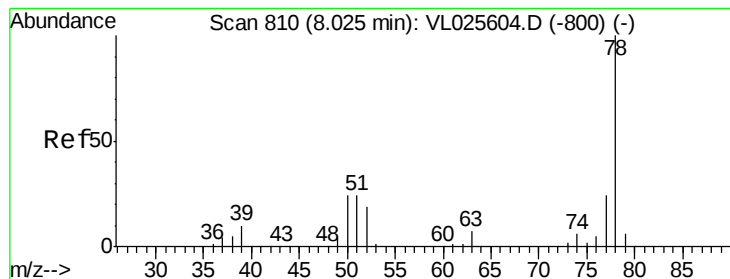
Ion Ratio Lower Upper

117 100

119 0.0 75.9 113.9#

121 0.0 24.4 36.6#





#36

Benzene

Concen: 0.01 ppbv

RT: 8.02 min Scan# 810

Delta R.T. -0.00 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

Instrument :

MSVOA_L

ClientSampleId :

DIN46-MIDSTREAM-07011DL

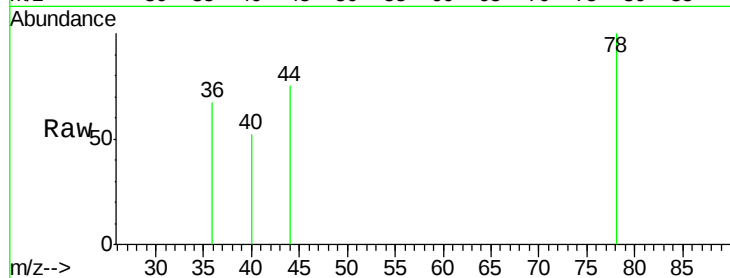
Tgt Ion: 78 Resp: 1060

Ion Ratio Lower Upper

78 100

77 0.0 19.0 28.4#

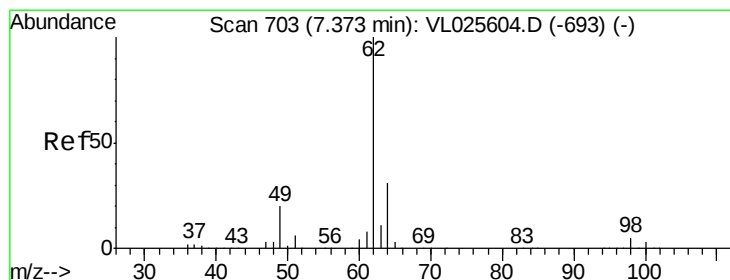
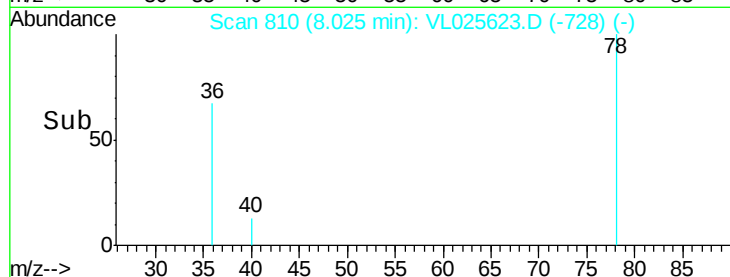
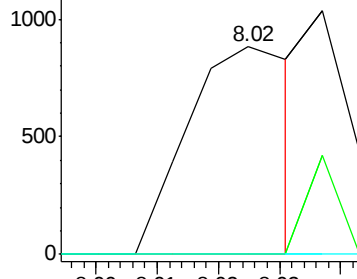
50 0.0 19.2 28.8#



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 0.01 ppbv

RT: 7.38 min Scan# 704

Delta R.T. 0.01 min

Lab File: VL025623.D

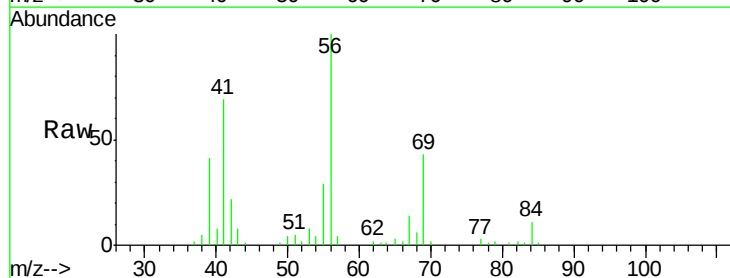
Acq: 8 Jul 2015 1:17

Tgt Ion: 62 Resp: 1476

Ion Ratio Lower Upper

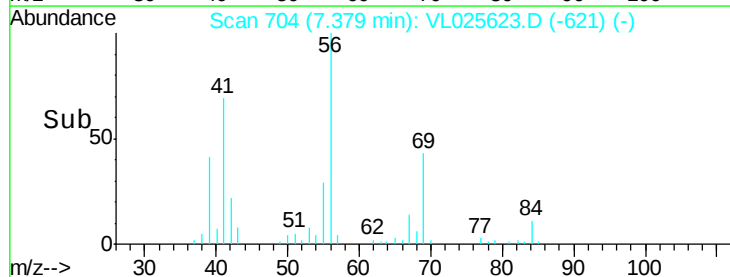
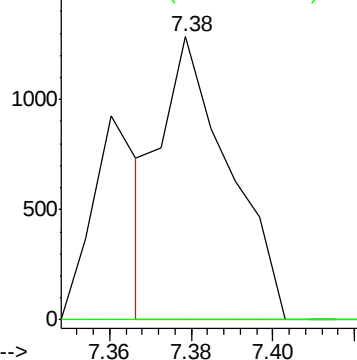
62 100

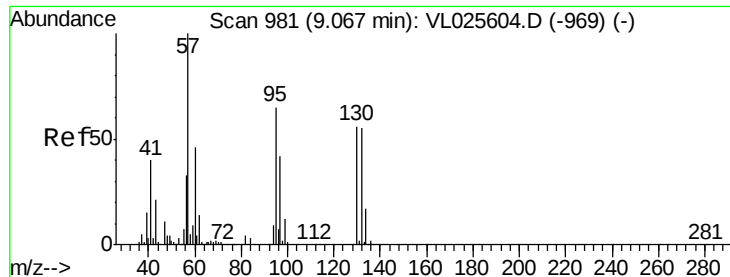
98 0.0 4.1 6.1#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

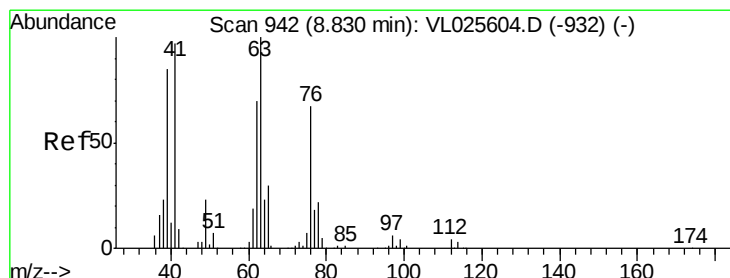
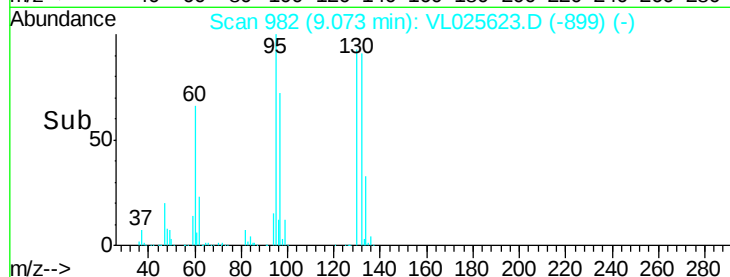
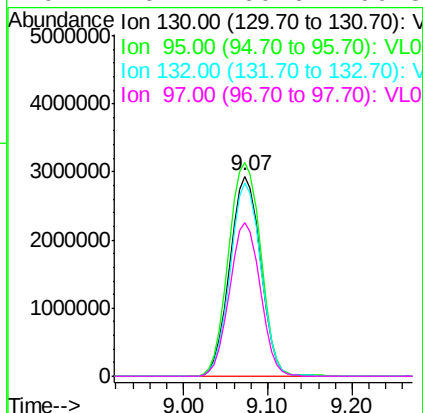
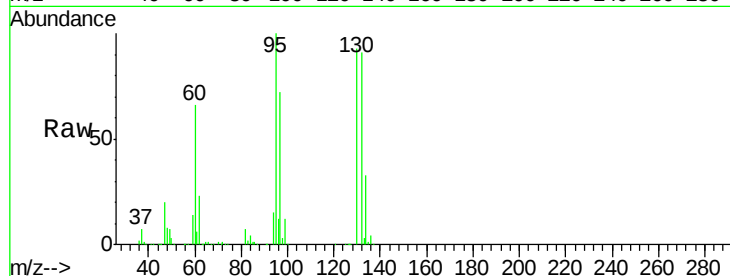




#38
 Trichloroethene
 Concen: 86.92 ppbv
 RT: 9.07 min Scan# 982
 Delta R.T. 0.01 min
 Lab File: VL025623.D
 Acq: 8 Jul 2015 1:17

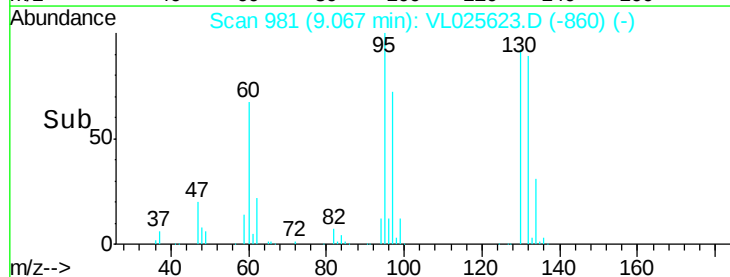
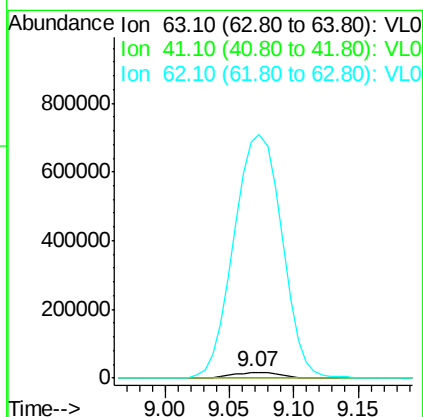
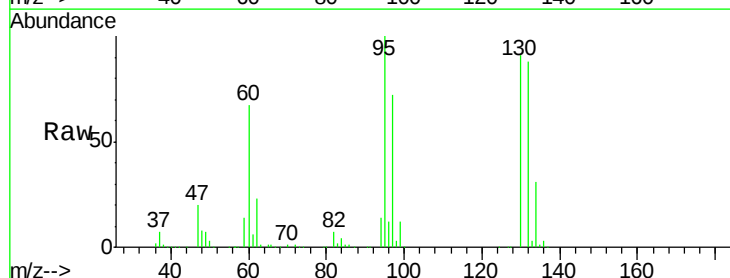
Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46-MIDSTREAM-07011DL

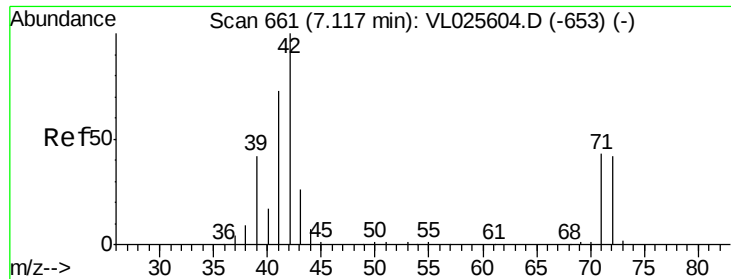
Tgt Ion:130 Resp: 7287861
 Ion Ratio Lower Upper
 130 100
 95 107.0 94.2 141.4
 132 97.0 78.6 118.0
 97 76.7 60.6 90.8



#39
 1,2-Dichloropropane
 Concen: 0.63 ppbv
 RT: 9.07 min Scan# 981
 Delta R.T. 0.24 min
 Lab File: VL025623.D
 Acq: 8 Jul 2015 1:17

Tgt Ion: 63 Resp: 41778
 Ion Ratio Lower Upper
 63 100
 41 12.7 78.0 117.0#
 62 4227.9 55.7 83.5#

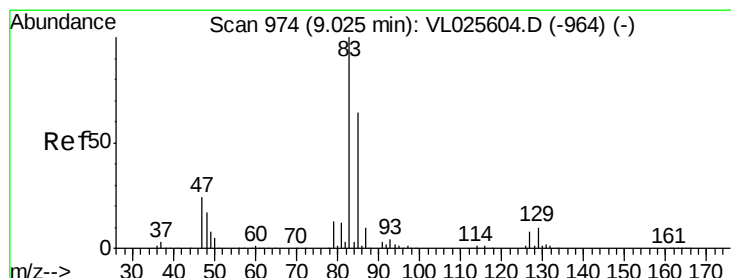
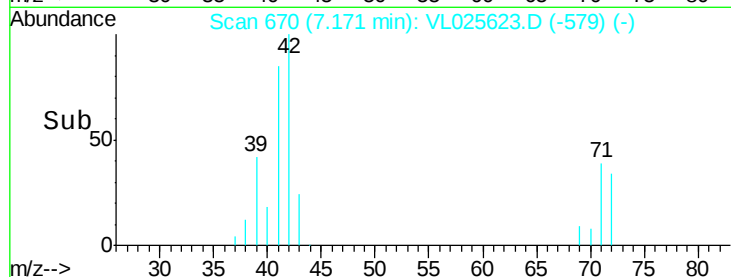
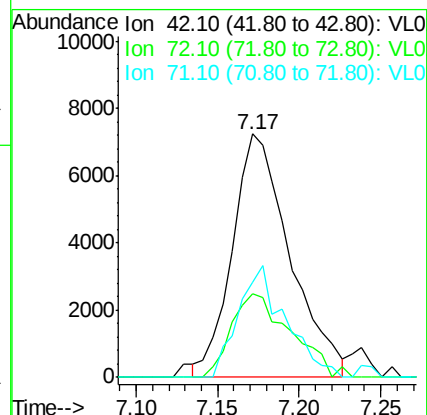
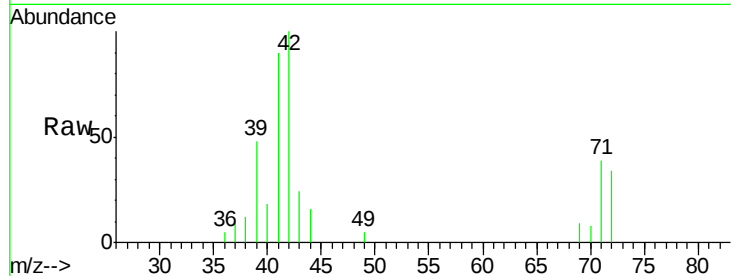




#41
Tetrahydrofuran
Concen: 0.33 ppbv
RT: 7.17 min Scan# 670
Delta R.T. 0.05 min
Lab File: VL025623.D
Acq: 8 Jul 2015 1:17

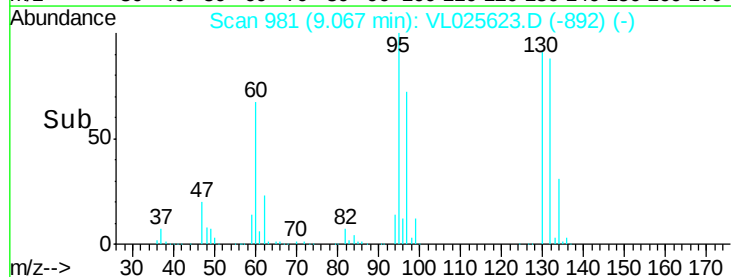
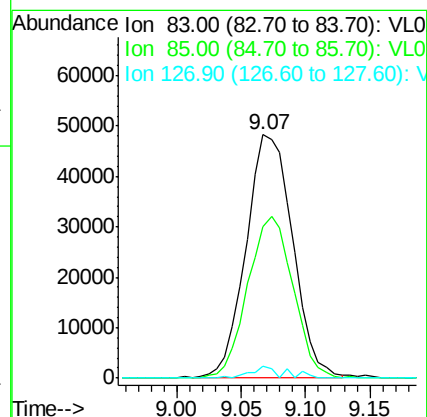
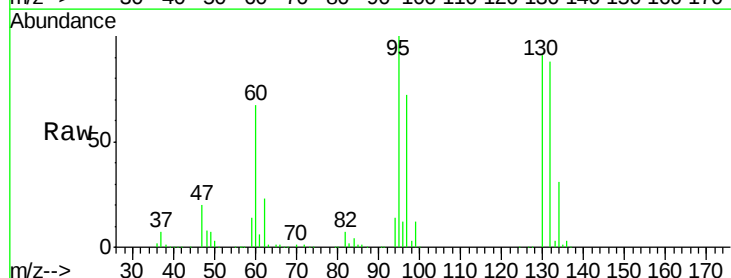
Instrument :
MSVOA_L
ClientSampleId :
DIN46-MIDSTREAM-07011DL

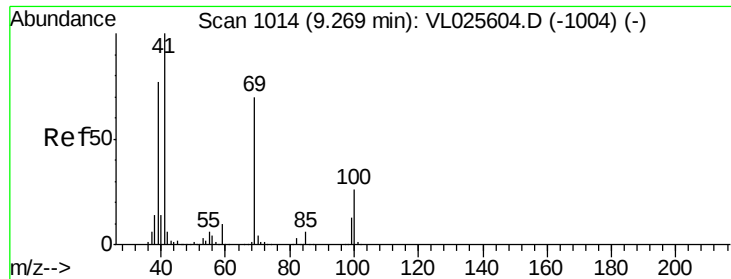
Tgt Ion: 42 Resp: 17791
Ion Ratio Lower Upper
42 100
72 35.4 34.0 51.0
71 38.9 33.0 49.6



#42
Bromodichloromethane
Concen: 0.65 ppbv
RT: 9.07 min Scan# 981
Delta R.T. 0.04 min
Lab File: VL025623.D
Acq: 8 Jul 2015 1:17

Tgt Ion: 83 Resp: 121322
Ion Ratio Lower Upper
83 100
85 62.2 51.3 76.9
127 4.8 6.0 9.0#





#43

Methyl Methacrylate

Concen: 0.00 ppbv

RT: 9.11 min Scan# 988

Delta R.T. -0.16 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

Instrument :

MSVOA_L

ClientSampleId :

DIN46-MIDSTREAM-07011DL

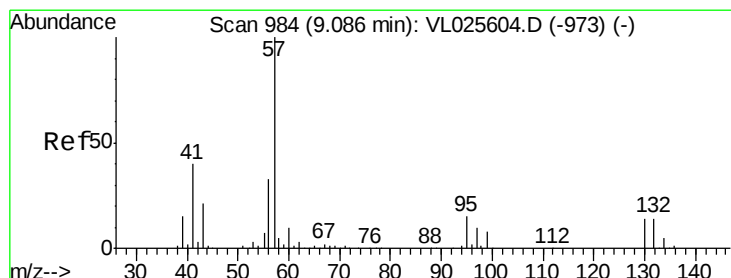
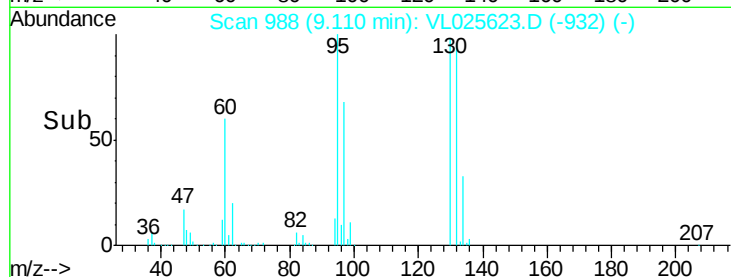
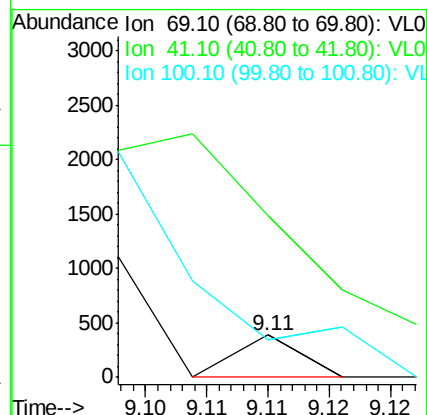
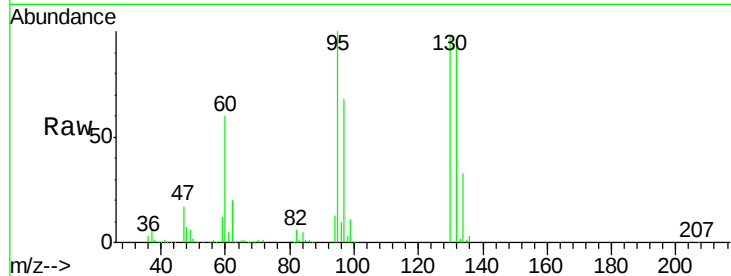
Tgt Ion: 69 Resp: 143

Ion Ratio Lower Upper

69 100

41 762.2 117.3 175.9#

100 0.0 29.0 43.6#



#44

2,2,4-Trimethylpentane

Concen: 0.00 ppbv

RT: 9.09 min Scan# 985

Delta R.T. 0.01 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

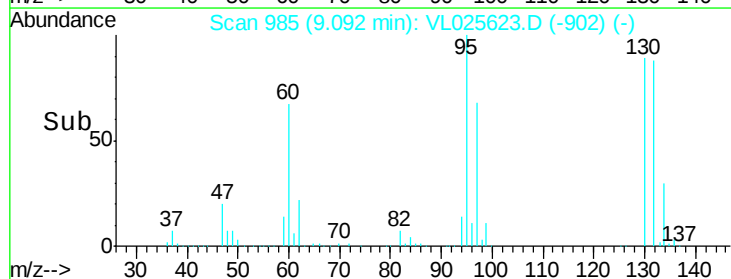
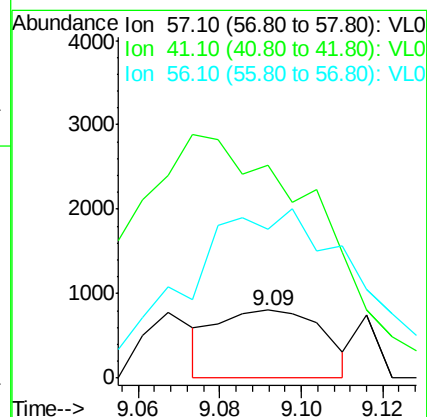
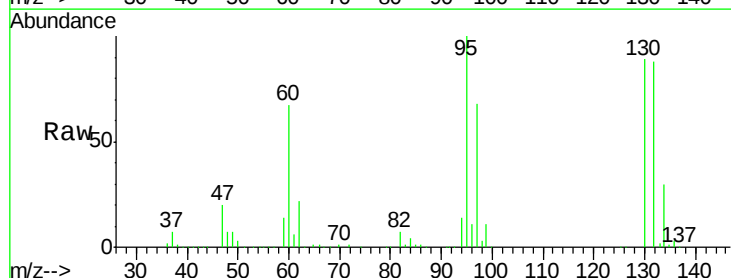
Tgt Ion: 57 Resp: 1442

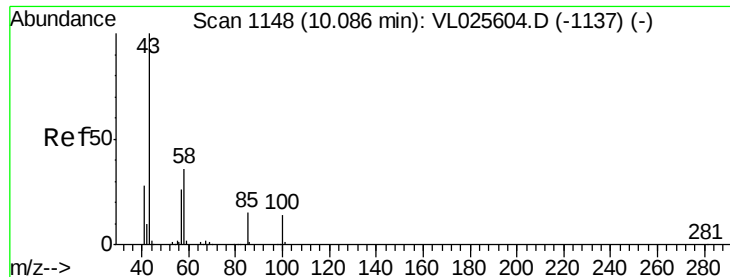
Ion Ratio Lower Upper

57 100

41 0.0 31.2 46.8#

56 556.8 25.4 38.2#





#50

4-Methyl-2-Pentanone

Concen: 0.00 ppbv

RT: 10.15 min Scan# 1158

Delta R.T. 0.06 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

Instrument :

MSVOA_L

ClientSampleId :

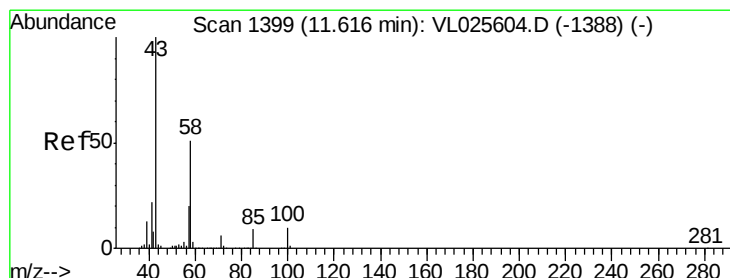
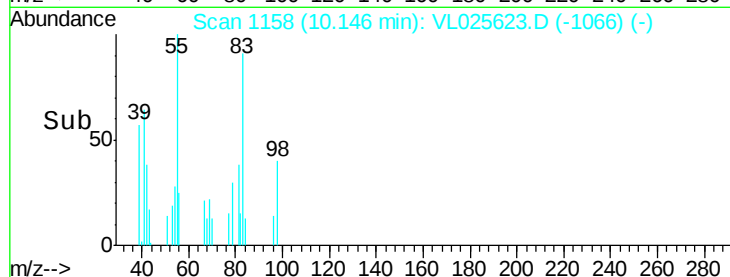
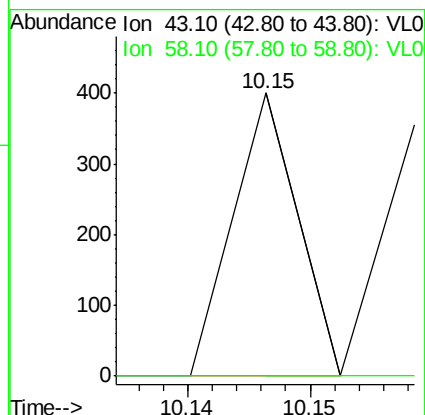
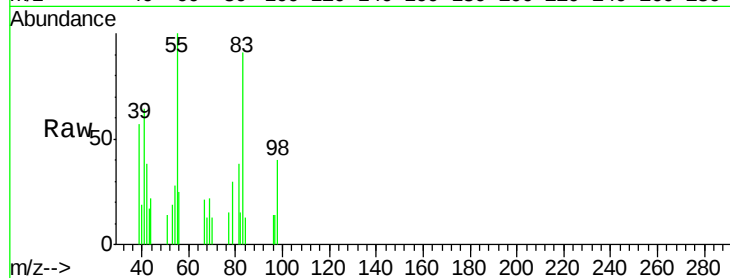
DIN46-MIDSTREAM-07011DL

Tgt Ion: 43 Resp: 146

Ion Ratio Lower Upper

43 100

58 0.0 28.5 42.7#



#51

2-Hexanone

Concen: 0.10 ppbv

RT: 11.94 min Scan# 1453

Delta R.T. 0.33 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

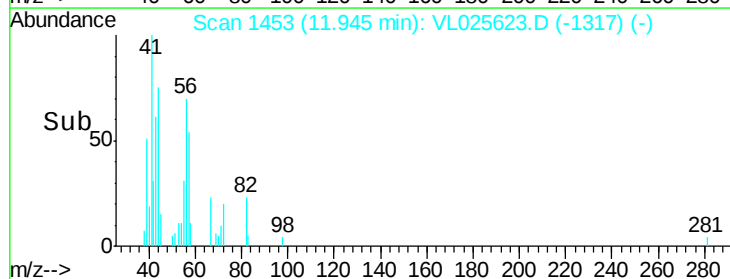
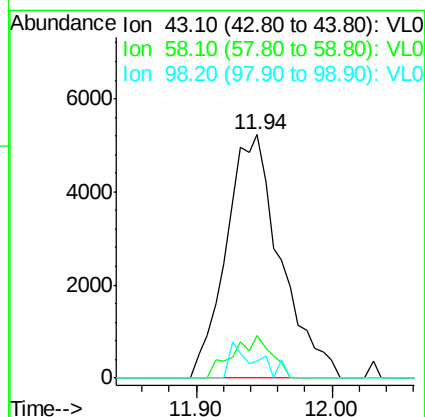
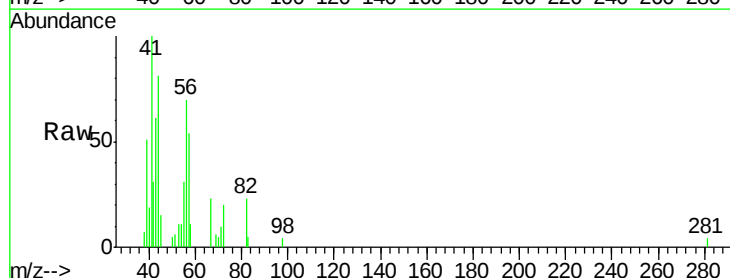
Tgt Ion: 43 Resp: 14498

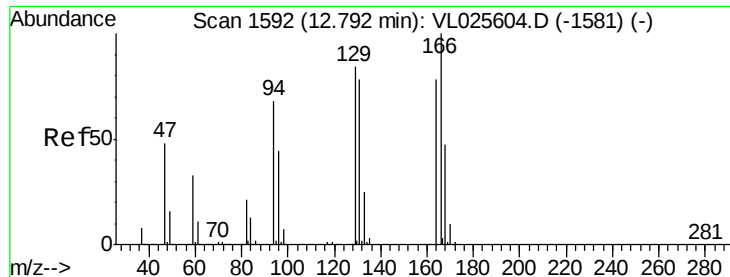
Ion Ratio Lower Upper

43 100

58 12.5 39.0 58.6#

98 7.2 0.2 0.4#





#52

Tetrachloroethene

Concen: 0.00 ppbv

RT: 12.79 min Scan# 1592

Delta R.T. -0.00 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

Instrument :

MSVOA_L

ClientSampleId :

DIN46-MIDSTREAM-07011DL

Tgt Ion: 164 Resp: 400

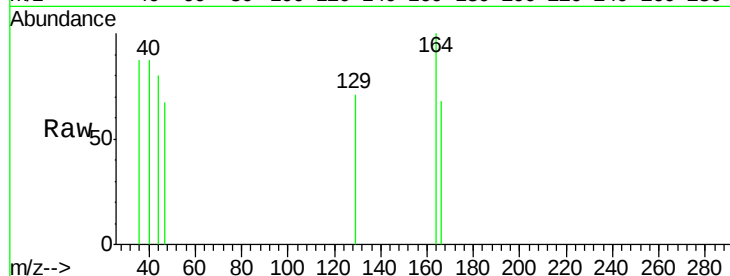
Ion Ratio Lower Upper

164 100

166 67.9 102.3 153.5#

129 71.2 86.2 129.4#

131 0.0 80.3 120.5#

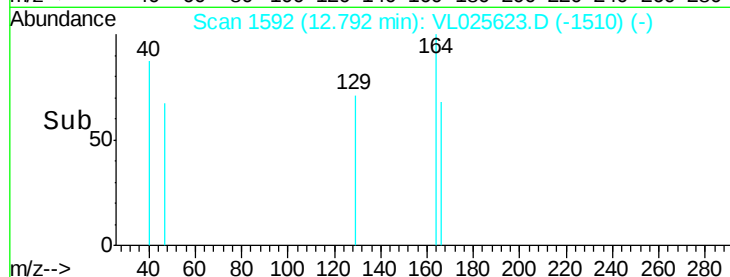
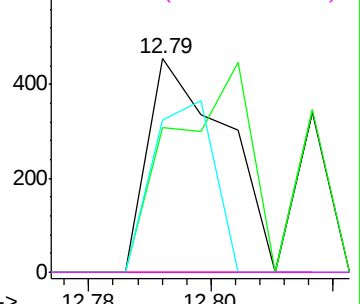


Abundance Ion 163.90 (163.60 to 164.60): V

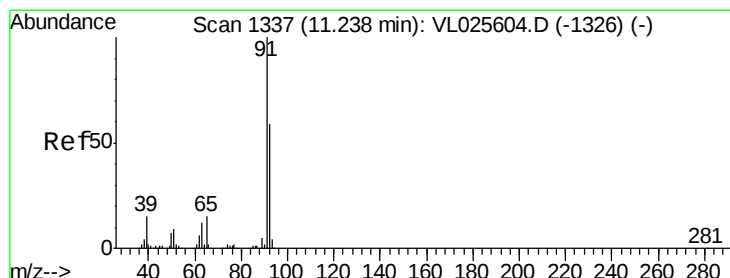
Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



Time-->



#53

Toluene

Concen: 0.01 ppbv

RT: 11.25 min Scan# 1339

Delta R.T. 0.01 min

Lab File: VL025623.D

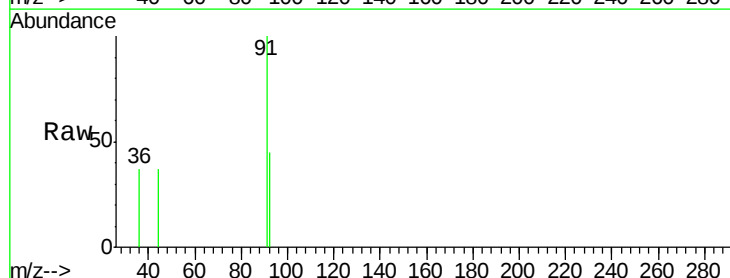
Acq: 8 Jul 2015 1:17

Tgt Ion: 91 Resp: 1501

Ion Ratio Lower Upper

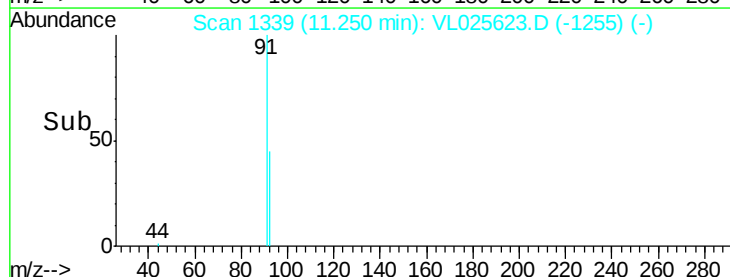
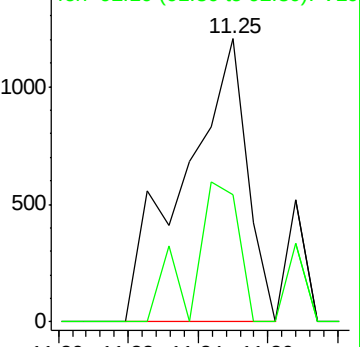
91 100

92 0.0 48.2 72.2#

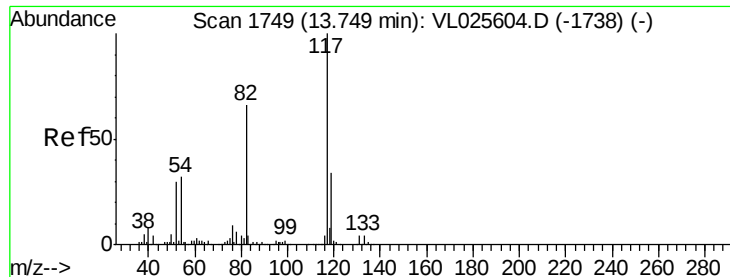


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



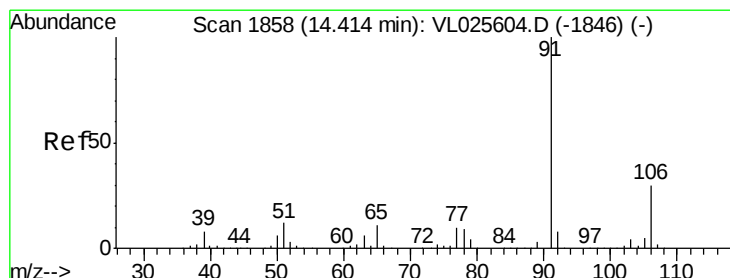
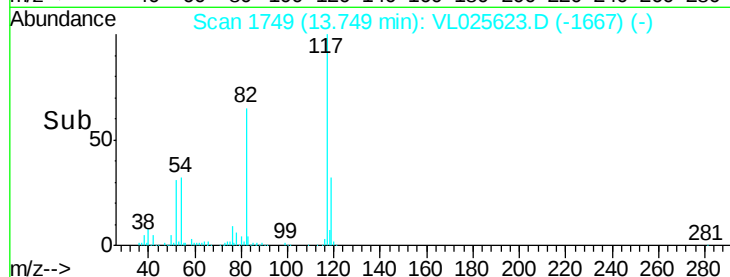
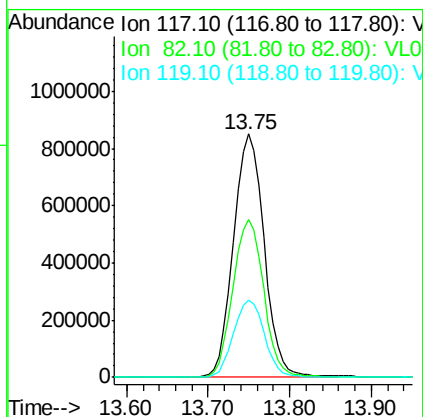
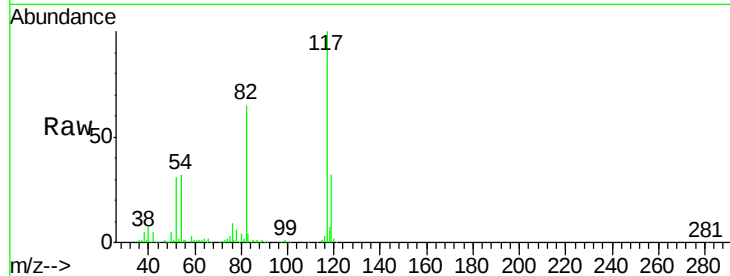
Time-->



#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.75 min Scan# 1749
Delta R.T. -0.00 min
Lab File: VL025623.D
Acq: 8 Jul 2015 1:17

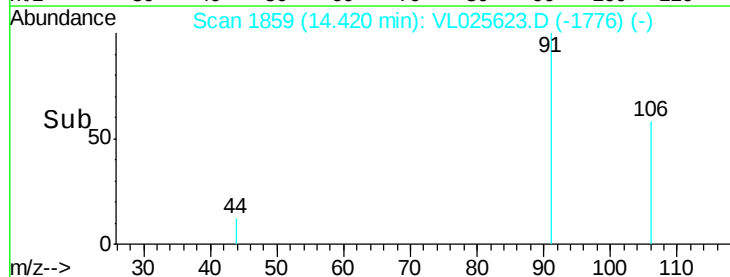
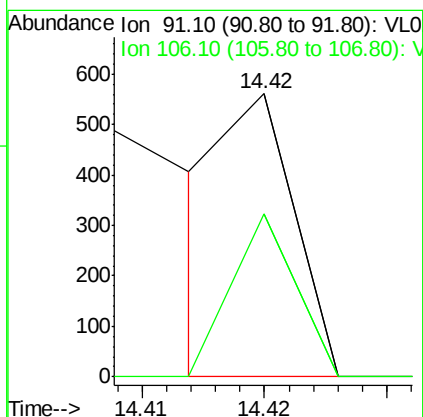
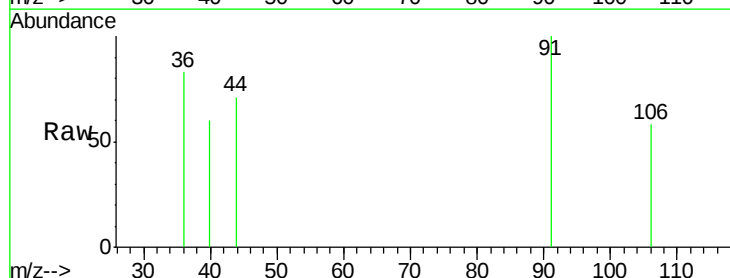
Instrument :
MSVOA_L
ClientSampleId :
DIN46-MIDSTREAM-07011DL

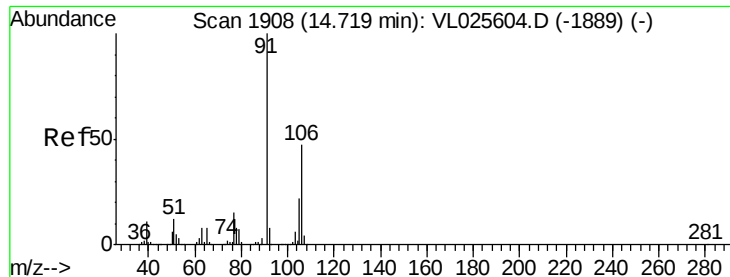
Tgt Ion:117 Resp: 2223133
Ion Ratio Lower Upper
117 100
82 65.7 50.5 75.7
119 32.3 45.1 67.7#



#58
Ethyl Benzene
Concen: 0.00 ppbv
RT: 14.42 min Scan# 1859
Delta R.T. 0.01 min
Lab File: VL025623.D
Acq: 8 Jul 2015 1:17

Tgt Ion: 91 Resp: 205
Ion Ratio Lower Upper
91 100
106 57.6 24.2 36.2#

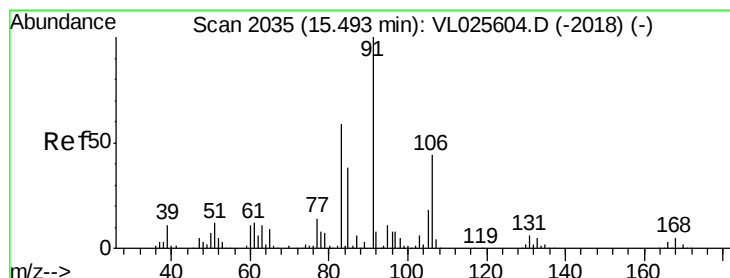
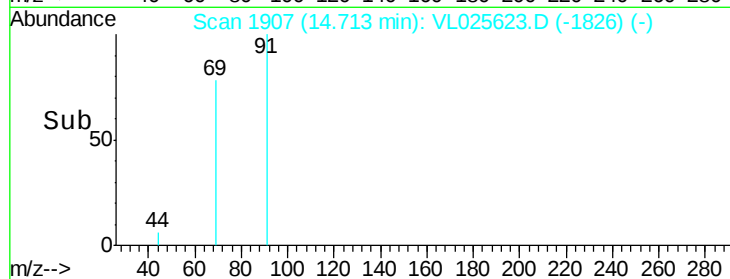
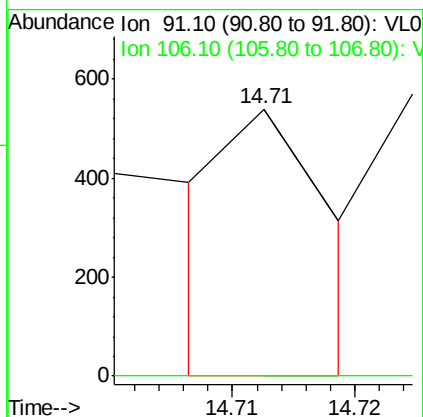
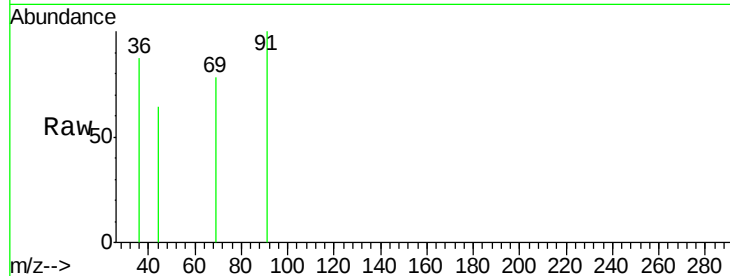




#59
m/p-Xylene
Concen: 0.00 ppbv
RT: 14.71 min Scan# 1907
Delta R.T. -0.01 min
Lab File: VL025623.D
Acq: 8 Jul 2015 1:17

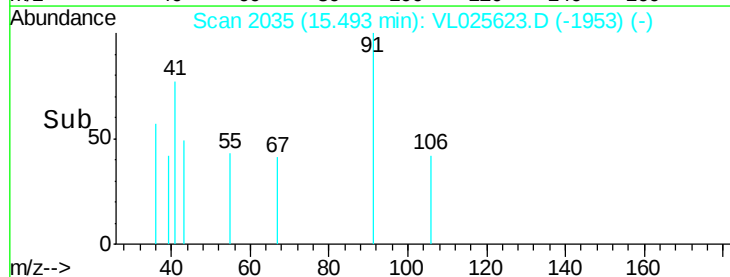
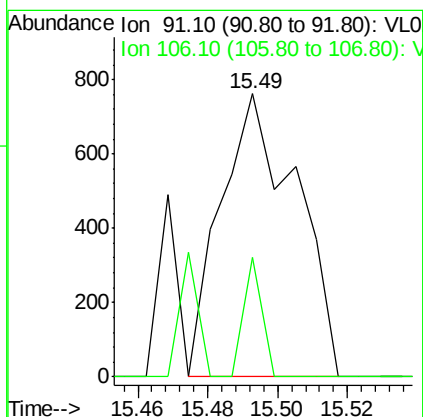
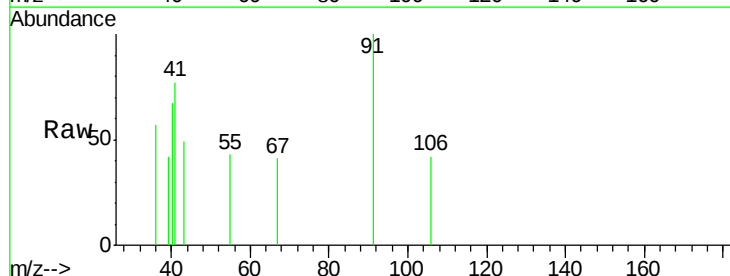
Instrument :
MSVOA_L
ClientSampleId :
DIN46-MIDSTREAM-07011DL

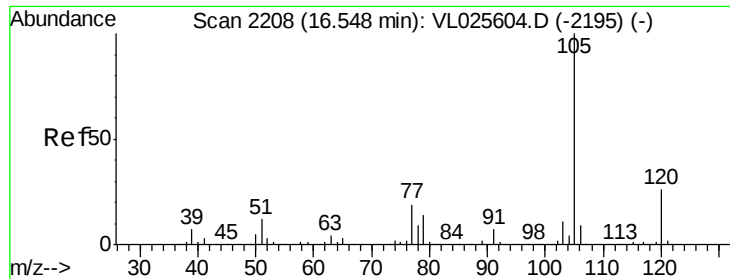
Tgt Ion: 91 Resp: 311
Ion Ratio Lower Upper
91 100
106 0.0 37.9 56.9#



#60
o-Xylene
Concen: 0.00 ppbv
RT: 15.49 min Scan# 2035
Delta R.T. -0.00 min
Lab File: VL025623.D
Acq: 8 Jul 2015 1:17

Tgt Ion: 91 Resp: 1151
Ion Ratio Lower Upper
91 100
106 0.0 22.1 66.1#





#62

Isopropylbenzene

Concen: 0.00 ppbv

RT: 16.55 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

Instrument :

MSVOA_L

ClientSampleId :

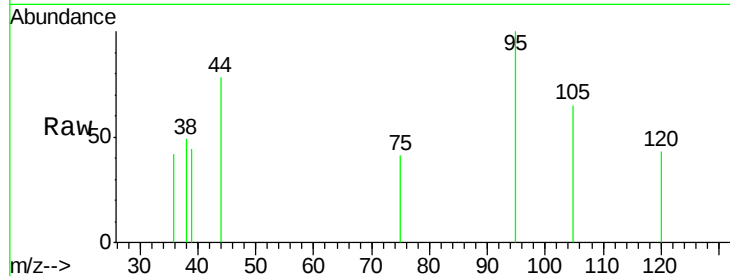
DIN46-MIDSTREAM-07011DL

Tgt Ion: 105 Resp: 623

Ion Ratio Lower Upper

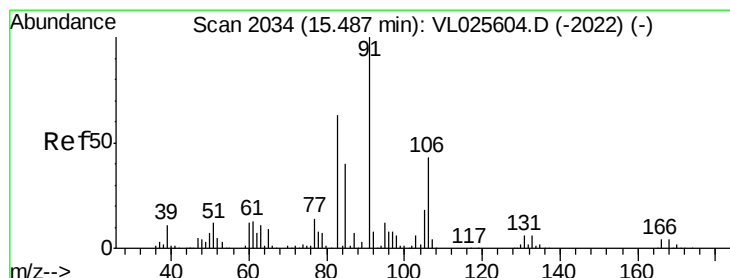
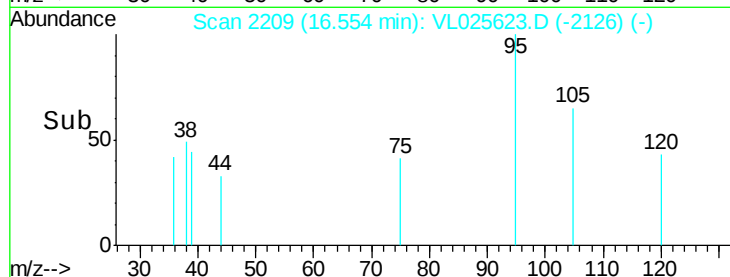
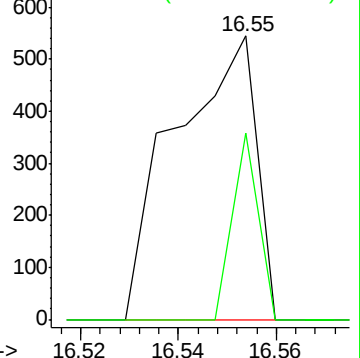
105 100

120 0.0 20.6 31.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.00 ppbv

RT: 15.36 min Scan# 2013

Delta R.T. -0.13 min

Lab File: VL025623.D

Acq: 8 Jul 2015 1:17

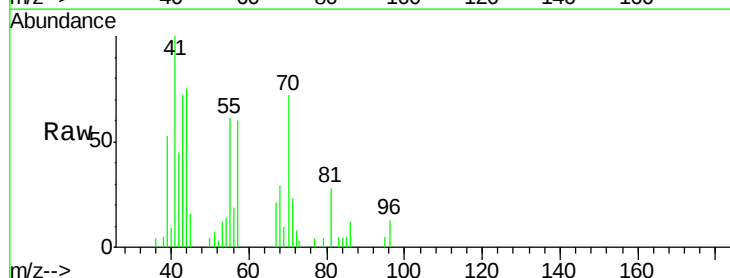
Tgt Ion: 83 Resp: 595

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.4#

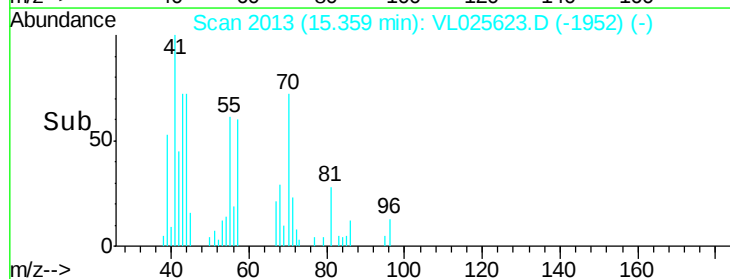
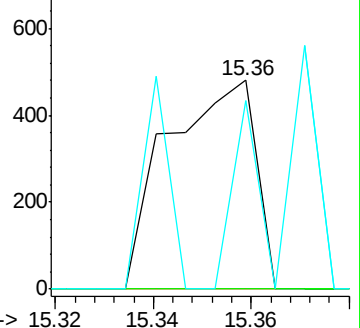
85 91.3 32.4 97.2

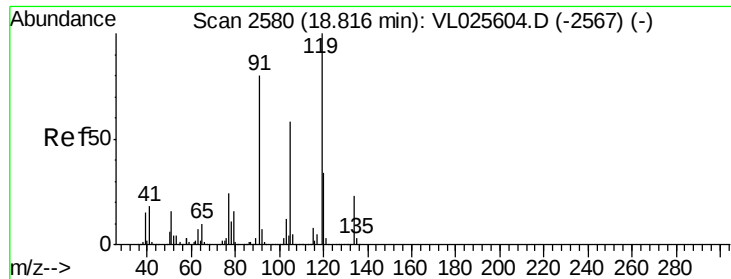


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0

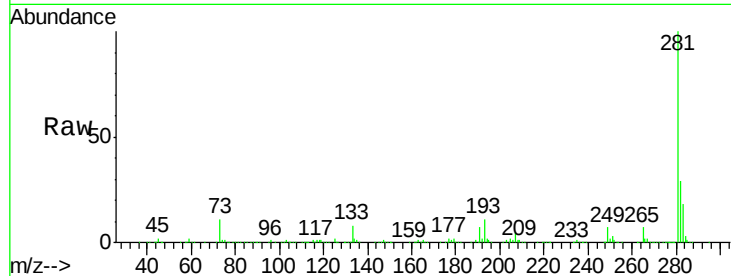




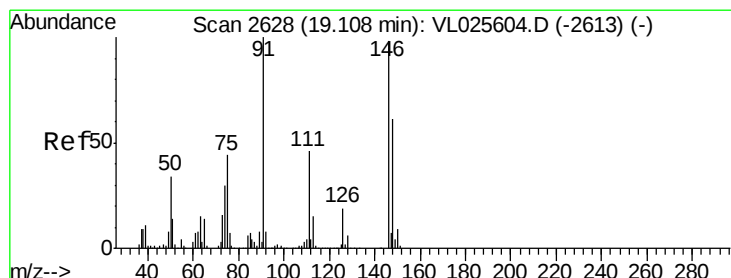
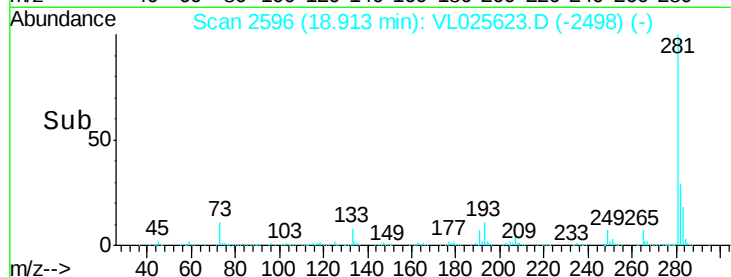
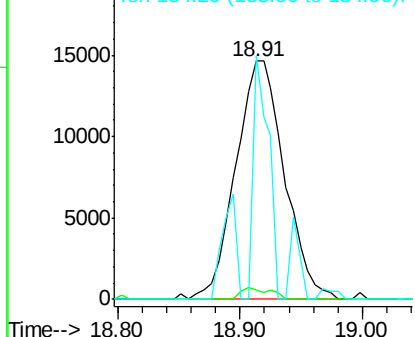
#65
 tert-Butylbenzene
 Concen: 0.09 ppbv
 RT: 18.91 min Scan# 2596
 Delta R.T. 0.10 min
 Lab File: VL025623.D
 Acq: 8 Jul 2015 1:17

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46-MIDSTREAM-07011DL

Tgt Ion: 119 Resp: 40430
 Ion Ratio Lower Upper
 119 100
 91 2.9 64.5 96.7#
 134 52.4 17.4 26.0#

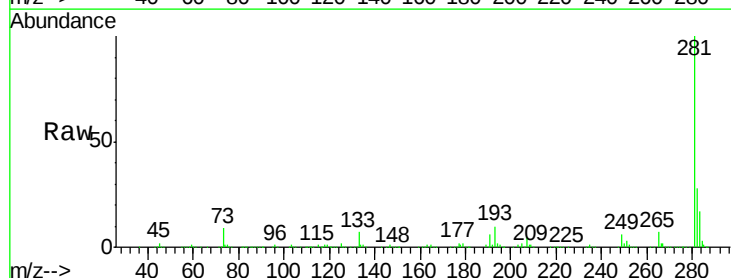


Abundance Ion 119.20 (118.90 to 119.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 134.20 (133.90 to 134.90): V

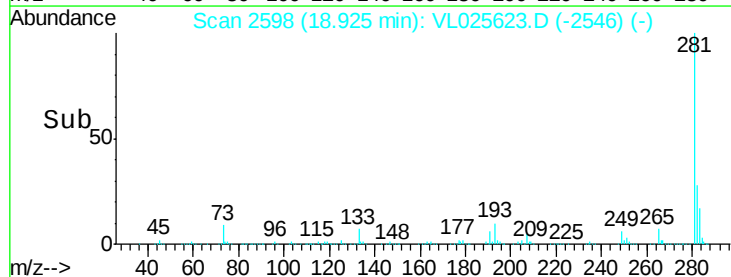
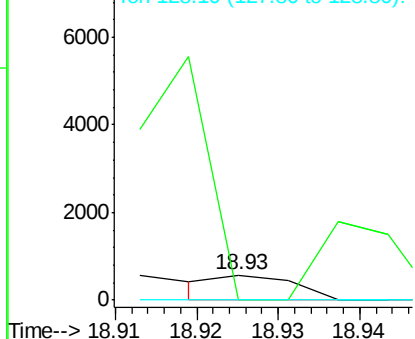


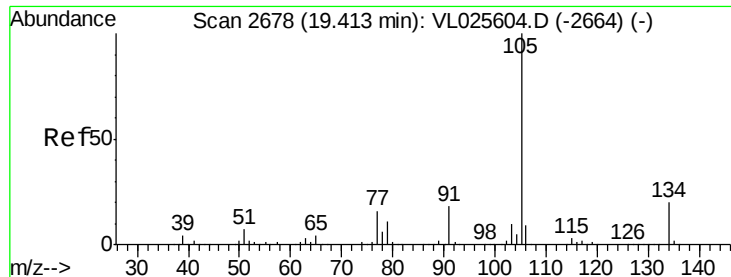
#66
 Benzyl Chloride
 Concen: 0.00 ppbv
 RT: 18.93 min Scan# 2598
 Delta R.T. -0.18 min
 Lab File: VL025623.D
 Acq: 8 Jul 2015 1:17

Tgt Ion: 91 Resp: 375
 Ion Ratio Lower Upper
 91 100
 126 2009.1 14.5 21.7#
 128 0.0 4.6 7.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 126.10 (125.80 to 126.80): V
 Ion 128.10 (127.80 to 128.80): V

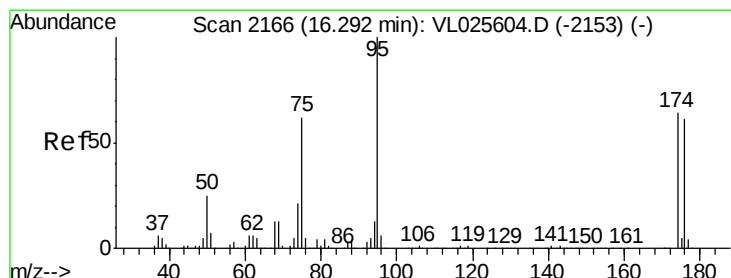
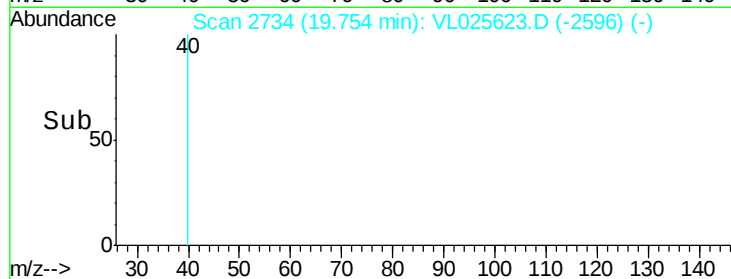
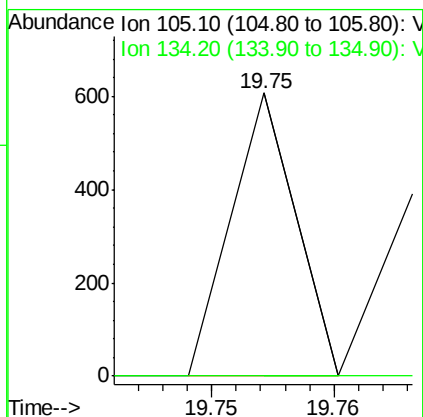
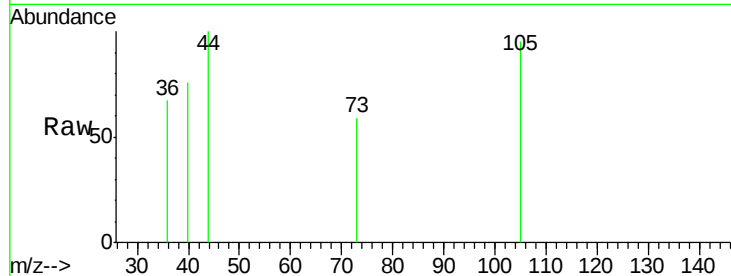




#67
 sec-Butylbenzene
 Concen: 0.00 ppbv
 RT: 19.75 min Scan# 2734
 Delta R.T. 0.34 min
 Lab File: VL025623.D
 Acq: 8 Jul 2015 1:17

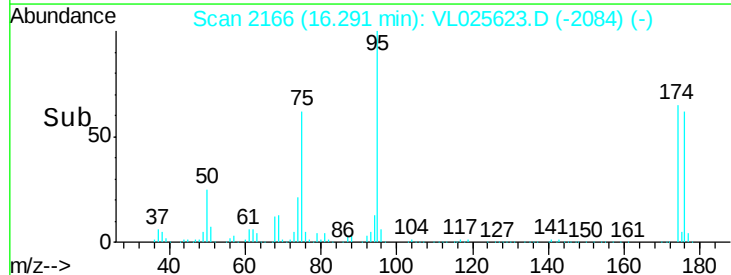
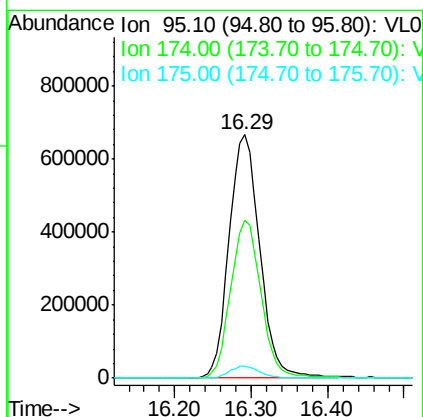
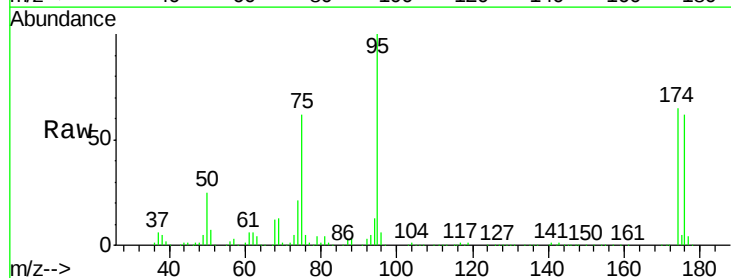
Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46-MIDSTREAM-07011DL

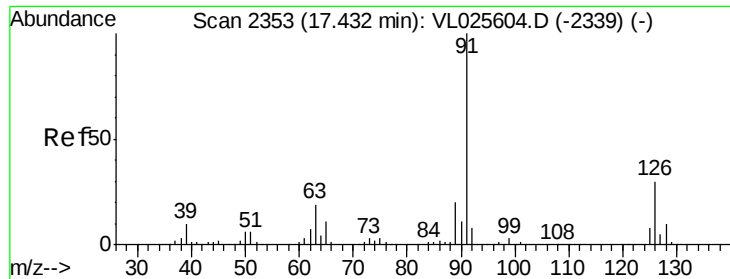
Tgt Ion: 105 Resp: 222
 Ion Ratio Lower Upper
 105 100
 134 0.0 15.4 23.2#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.90 ppbv
 RT: 16.29 min Scan# 2166
 Delta R.T. -0.00 min
 Lab File: VL025623.D
 Acq: 8 Jul 2015 1:17

Tgt Ion: 95 Resp: 1857232
 Ion Ratio Lower Upper
 95 100
 174 64.7 52.0 78.0
 175 4.9 3.9 5.9

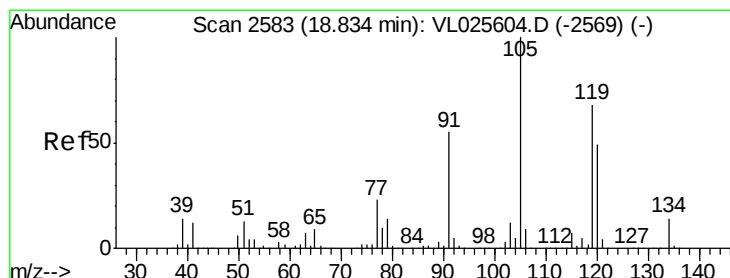
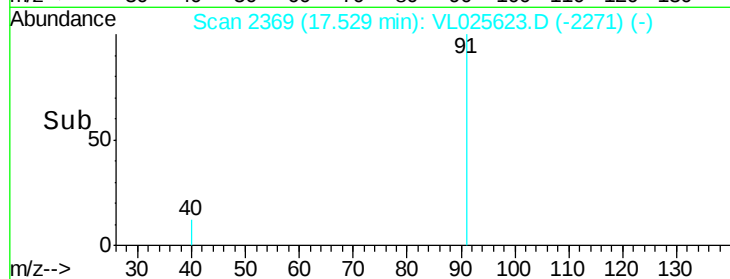
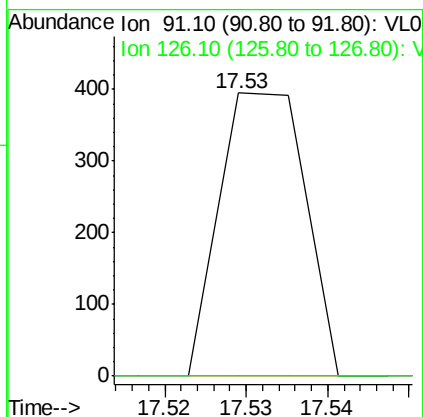
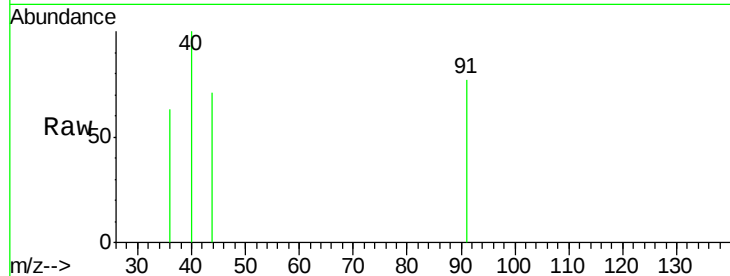




#71
 2-Chlorotoluene
 Concen: 0.00 ppbv
 RT: 17.53 min Scan# 2369
 Delta R.T. 0.10 min
 Lab File: VL025623.D
 Acq: 8 Jul 2015 1:17

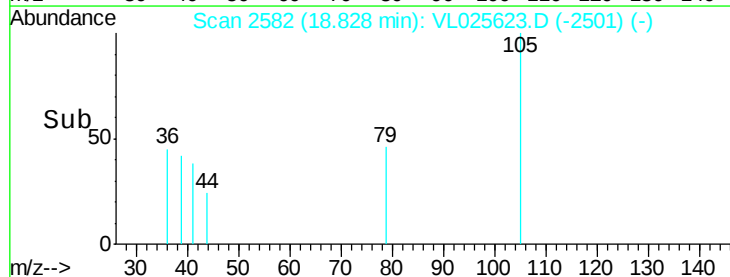
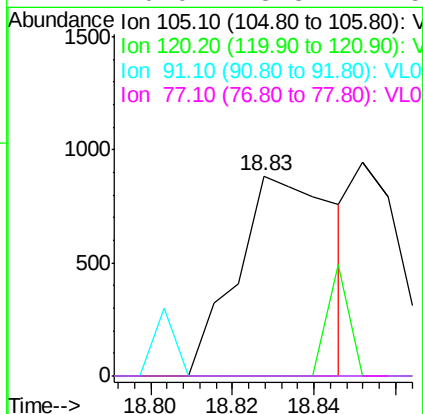
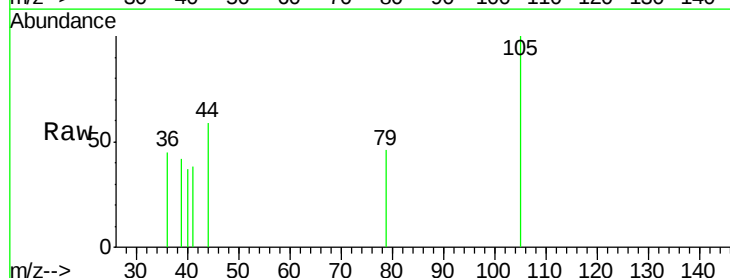
Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46-MIDSTREAM-07011DL

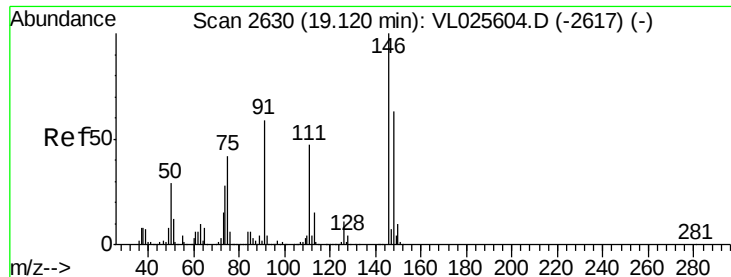
Tgt Ion: 91 Resp: 288
 Ion Ratio Lower Upper
 91 100
 126 0.0 12.2 49.0#



#74
 1,2,4-Trimethylbenzene
 Concen: 0.00 ppbv
 RT: 18.83 min Scan# 2582
 Delta R.T. -0.01 min
 Lab File: VL025623.D
 Acq: 8 Jul 2015 1:17

Tgt Ion: 105 Resp: 1466
 Ion Ratio Lower Upper
 105 100
 120 0.0 39.3 58.9#
 91 0.0 43.8 65.6#
 77 0.0 18.3 27.5#

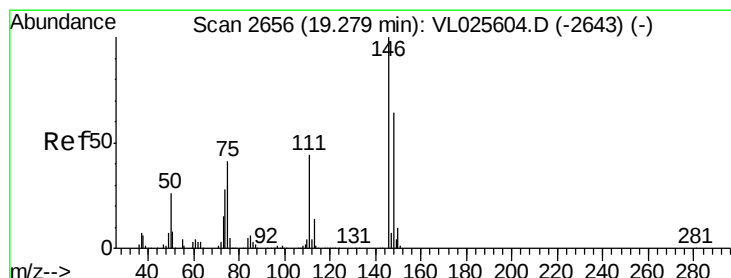
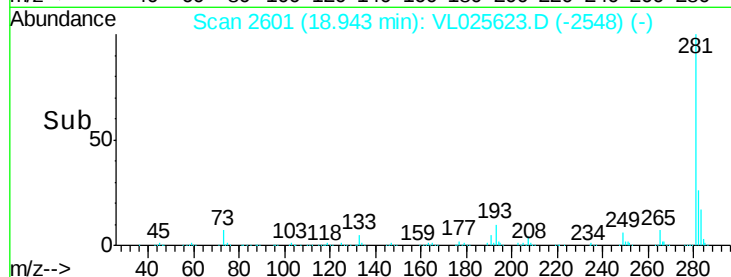
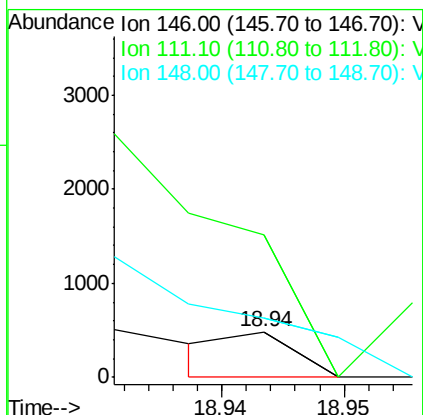
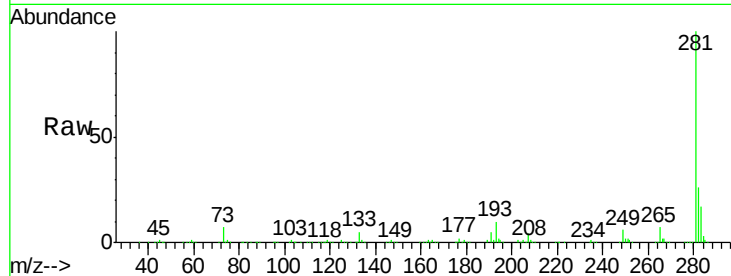




#75
 1,3-Dichlorobenzene
 Concen: 0.00 ppbv
 RT: 18.94 min Scan# 2601
 Delta R.T. -0.18 min
 Lab File: VL025623.D
 Acq: 8 Jul 2015 1:17

Instrument :
 MSVOA_L
 ClientSampleId :
 DIN46-MIDSTREAM-07011DL

Tgt Ion:146 Resp: 176
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.7 68.1#
 148 0.0 31.8 95.3#



#76
 1,4-Dichlorobenzene
 Concen: 0.00 ppbv
 RT: 18.94 min Scan# 2601
 Delta R.T. -0.34 min
 Lab File: VL025623.D
 Acq: 8 Jul 2015 1:17

Tgt Ion:146 Resp: 176
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.1 66.1#
 148 0.0 31.9 95.9#

