

Data Path : W:\HPCHEM1\MSVOA_L\Data\VL073115\
 Data File : VL025810.D
 Acq On : 31 Jul 2015 12:58
 Operator : SY/MD
 Sample : QC073015 CAN 10060
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC073015 CAN 10060

Quant Time: Jul 31 15:41:37 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	6.66	49	674342	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.34	114	1783287	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.76	117	2079864	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.30	95	1779438	10.14	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.57	51	5684	0.06	ppbv #	88
4) Chloromethane	3.76	50	2413	0.06	ppbv	95
5) Vinyl Chloride	3.90	62	2123	0.05	ppbv #	43
8) Dichlorotetrafluoroethane	3.81	85	6134	0.04	ppbv	100
9) Propene	3.61	41	2720	0.09	ppbv #	70
11) Trichlorofluoromethane	4.71	101	9450	0.04	ppbv	90
12) 1,1,2-Trichlorotrifluoroet	5.31	101	5780	0.04	ppbv	88
15) Acetone	4.65	43	29736	0.25	ppbv #	90
16) 1,3-Butadiene	3.98	39	2443	0.05	ppbv #	74
18) 1,1-Dichloroethene	5.09	96	1753	0.04	ppbv #	40
19) Isopropyl Alcohol	4.82	45	1515	0.03	ppbv #	1
20) Methylene Chloride	5.16	84	12889	0.27	ppbv #	75
21) Allyl Chloride	5.23	41	4904	0.07	ppbv #	82
22) trans-1,2-Dichloroethene	5.78	96	2336	0.05	ppbv #	76
23) Vinyl Acetate	6.02	43	7380	0.04	ppbv #	83
24) 1,1-Dichloroethane	5.92	63	5617	0.05	ppbv #	87
27) Carbon Disulfide	5.40	76	5595	0.04	ppbv #	38
28) Methyl tert-Butyl Ether	6.02	73	6308	0.04	ppbv #	90
29) Chloroform	6.75	83	6923	0.04	ppbv	92
30) Cyclohexane	8.31	84	4208	0.05	ppbv #	18
32) 1,1,1-Trichloroethane	7.60	97	7035	0.04	ppbv	98
34) 2-Butanone	6.25	43	6005	0.06	ppbv	93
35) Carbon Tetrachloride	8.17	117	7279	0.04	ppbv #	80
36) Benzene	8.04	78	7435	0.04	ppbv	94
37) 1,2-Dichloroethane	7.37	62	6301	0.04	ppbv #	85
38) Trichloroethene	9.08	130	5940	0.07	ppbv	86
39) 1,2-Dichloropropane	8.84	63	2205	0.03	ppbv	92
47) 1,1,2-Trichloroethane	10.89	97	3502	0.04	ppbv #	93
48) Dibromochloromethane	11.82	129	5087	0.03	ppbv	94
53) Toluene	11.26	91	7483	0.03	ppbv	94
54) 1,2-Dibromoethane	12.15	107	5489	0.04	ppbv	92
56) 1,1,1,2-Tetrachloroethane	13.80	131	3881	0.03	ppbv #	27
60) o-Xylene	15.51	91	10212	0.03	ppbv	96
63) 1,1,2,2-Tetrachloroethane	15.50	83	9963	0.05	ppbv	99
75) 1,3-Dichlorobenzene	19.14	146	11815	0.05	ppbv	95
77) 1,2-Dichlorobenzene	20.04	146	10743	0.04	ppbv	90
78) Hexachloro-1,3-Butadiene	24.69	225	8012	0.05	ppbv	99
79) Naphthalene	23.96	128	21941	0.06	ppbv #	92
80) Naphthalene,2-methyl-	25.95	142	47136	0.42	ppbv	96
81) 1,2,4-Trichlorobenzene	23.75	180	12656	0.07	ppbv	95

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Instrument :
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QC073015 CAN 10060

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 08 02:22:55 2015
QLast Update : Wed Jul 08 02:22:55 2015
Response via : Initial Calibration

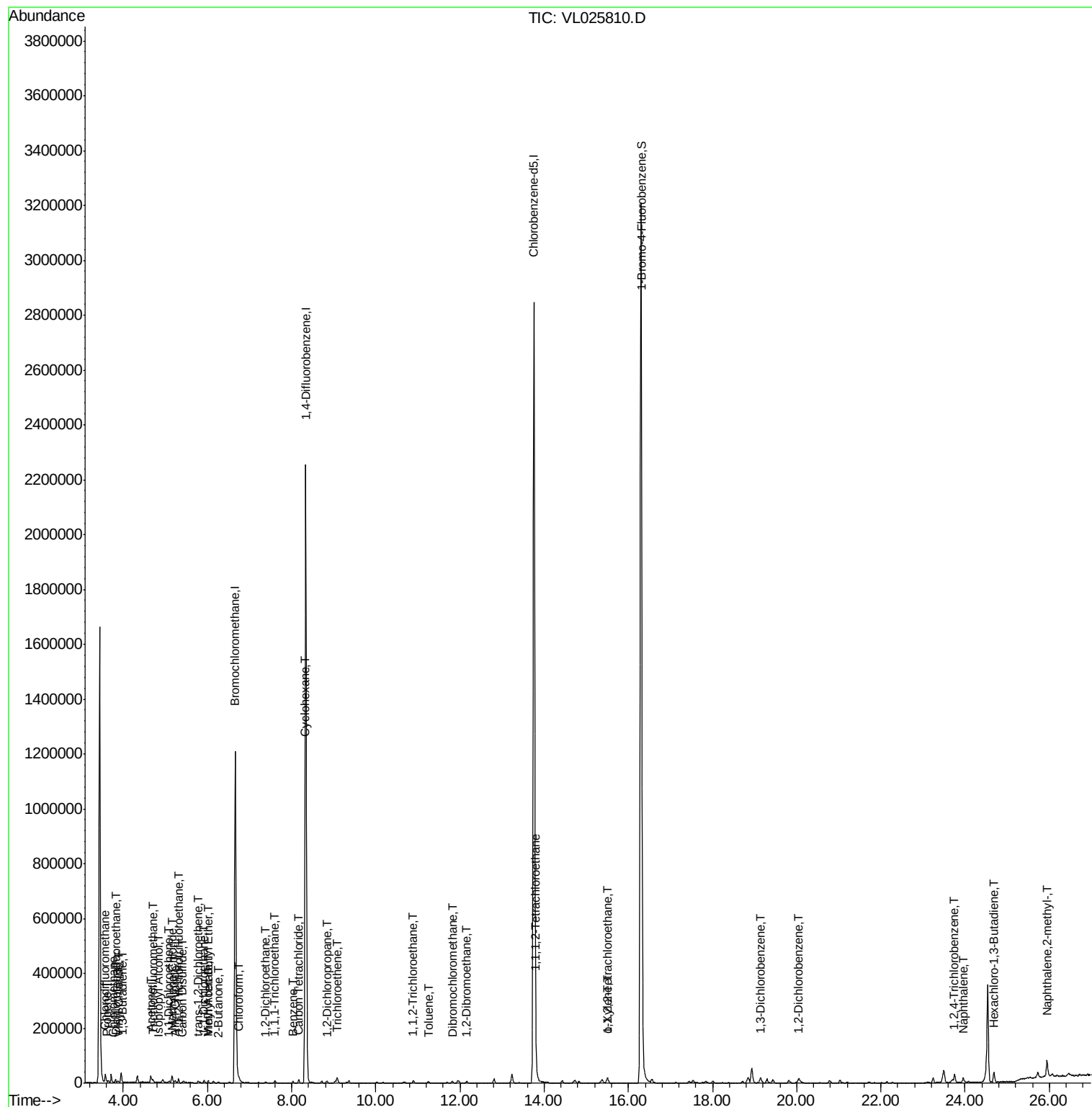
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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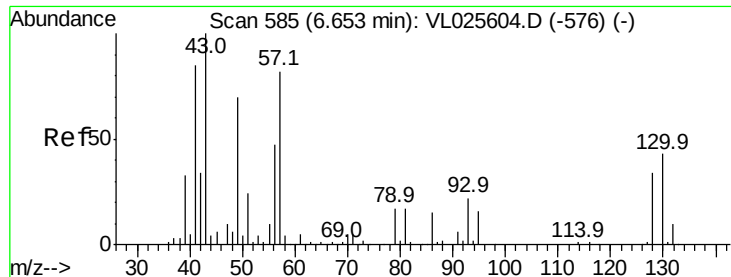
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.66 min Scan# 586

Delta R.T. 0.01 min

Lab File: VL025810.D

Acq: 31 Jul 2015 12:58

Instrument :

MSVOA_L

ClientSampleId :

QC073015 CAN 10060

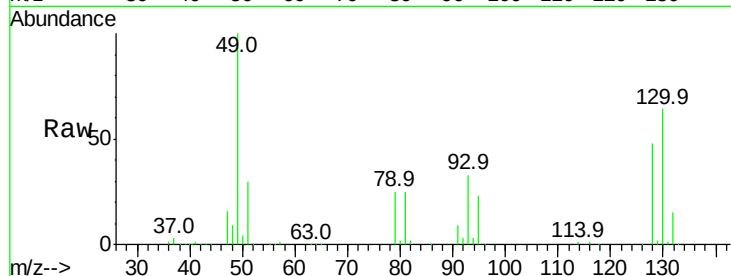
Tgt Ion: 49 Resp: 674342

Ion Ratio Lower Upper

49 100

128 50.8 25.4 76.0

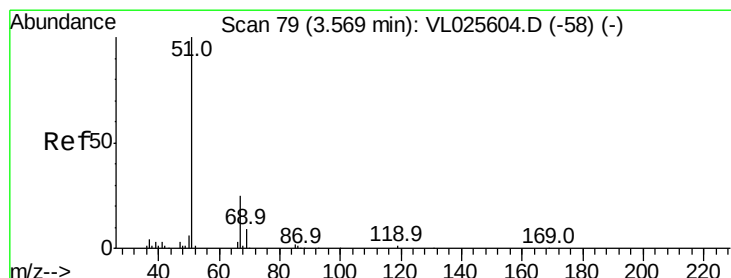
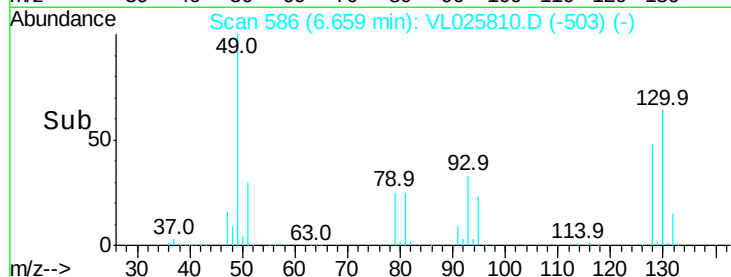
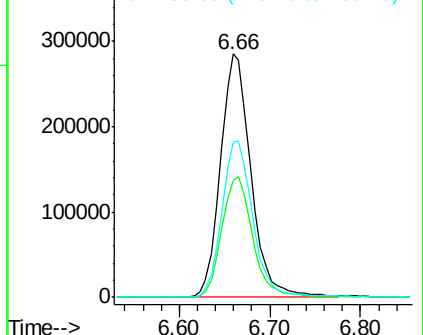
130 66.0 31.9 95.9



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



#3

Chlorodifluoromethane

Concen: 0.06 ppbv

RT: 3.57 min Scan# 80

Delta R.T. 0.01 min

Lab File: VL025810.D

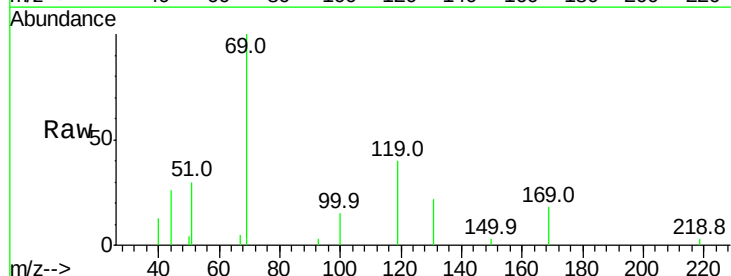
Acq: 31 Jul 2015 12:58

Tgt Ion: 51 Resp: 5684

Ion Ratio Lower Upper

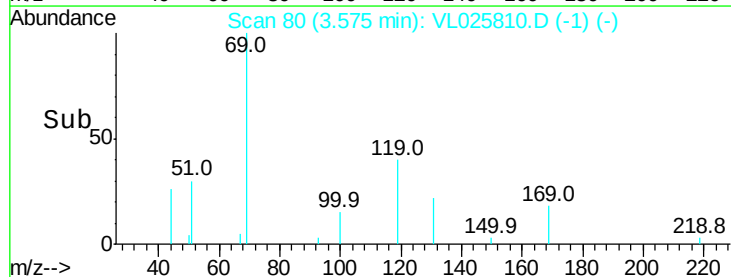
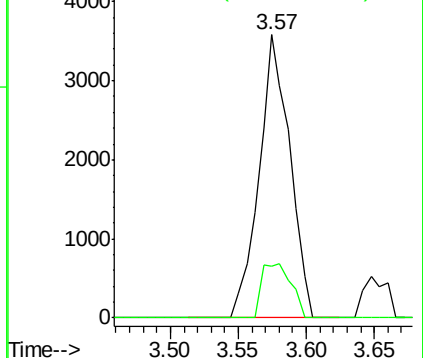
51 100

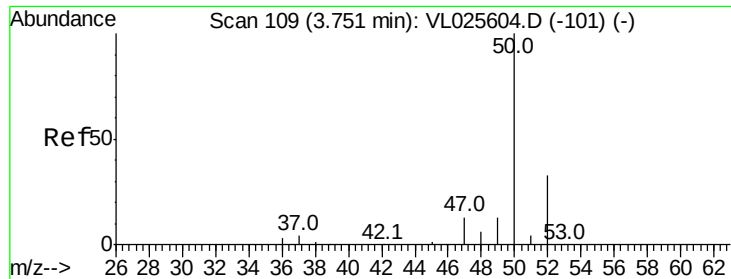
67 18.3 19.5 29.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.06 ppbv

RT: 3.76 min Scan# 110

Delta R.T. 0.01 min

Lab File: VL025810.D

Acq: 31 Jul 2015 12:58

Instrument :

MSVOA_L

ClientSampleId :

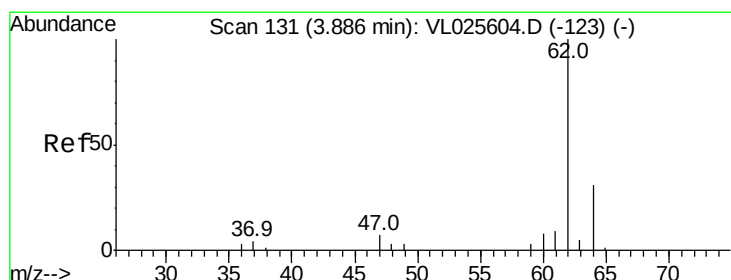
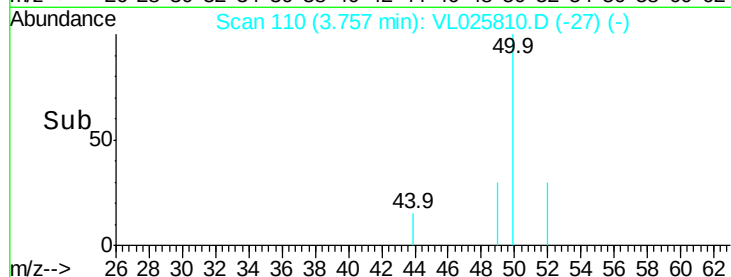
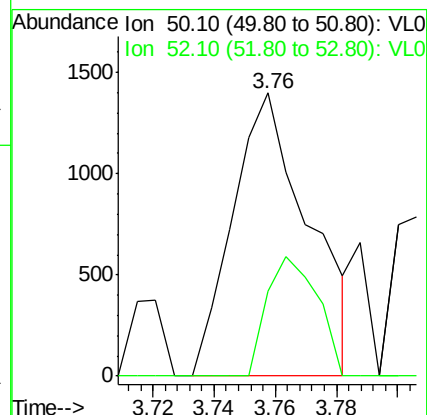
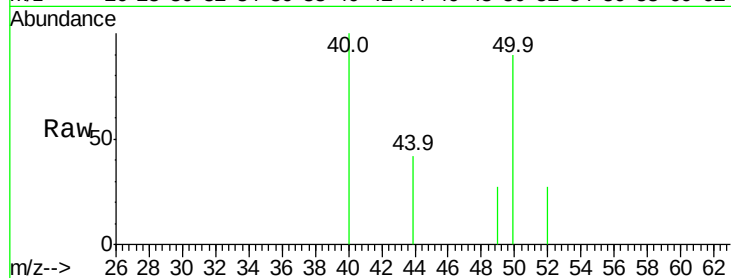
QC073015 CAN 10060

Tgt Ion: 50 Resp: 2413

Ion Ratio Lower Upper

50 100

52 30.1 26.2 39.2



#5

Vinyl Chloride

Concen: 0.05 ppbv

RT: 3.90 min Scan# 133

Delta R.T. 0.01 min

Lab File: VL025810.D

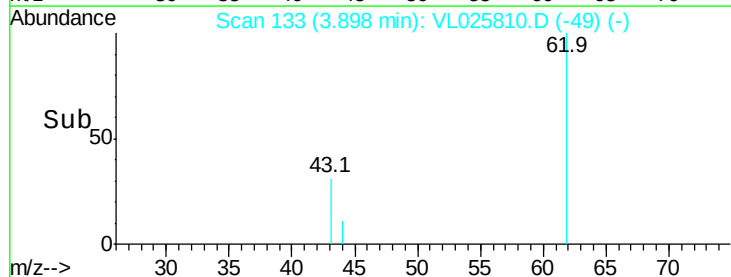
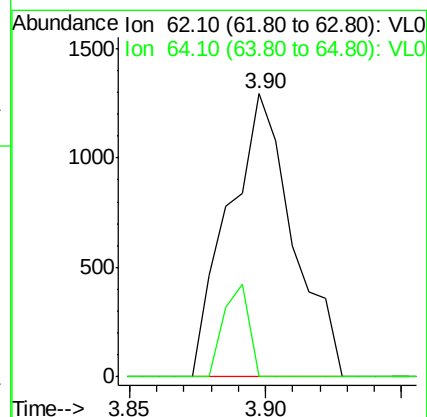
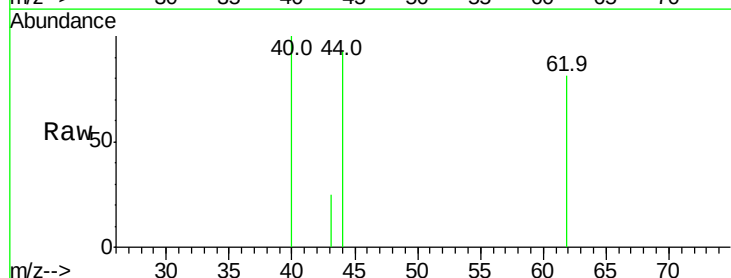
Acq: 31 Jul 2015 12:58

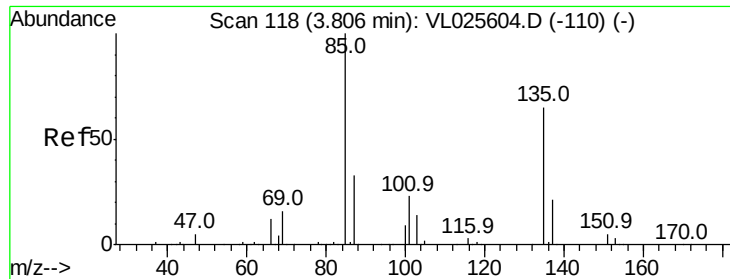
Tgt Ion: 62 Resp: 2123

Ion Ratio Lower Upper

62 100

64 0.0 25.0 37.6#





#8

Dichlorotetrafluoroethane

Concen: 0.04 ppbv

RT: 3.81 min Scan# 119

Delta R.T. 0.01 min

Lab File: VL025810.D

Acq: 31 Jul 2015 12:58

Instrument :

MSVOA_L

ClientSampleId :

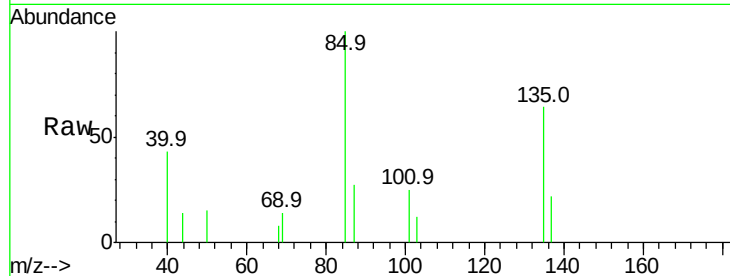
QC073015 CAN 10060

Tgt Ion: 85 Resp: 6134

Ion Ratio Lower Upper

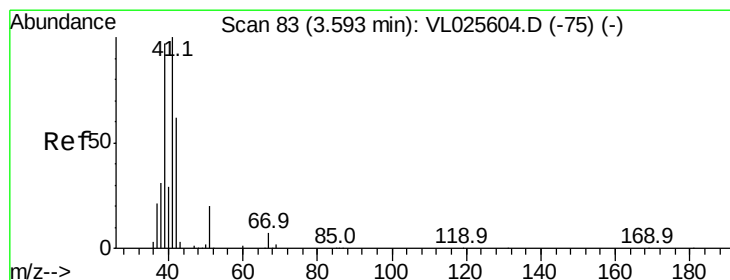
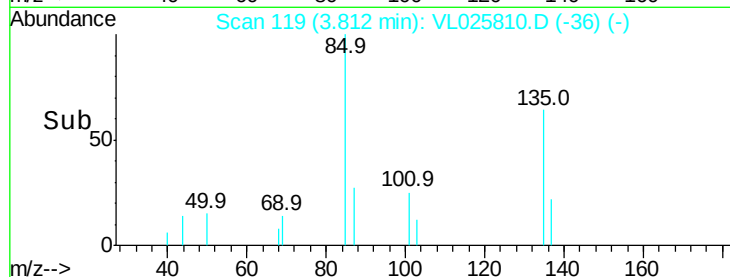
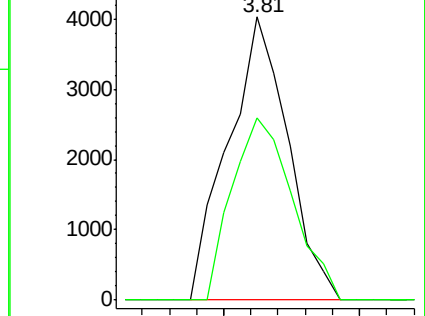
85 100

135 65.2 52.2 78.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0



#9

Propene

Concen: 0.09 ppbv

RT: 3.61 min Scan# 86

Delta R.T. 0.02 min

Lab File: VL025810.D

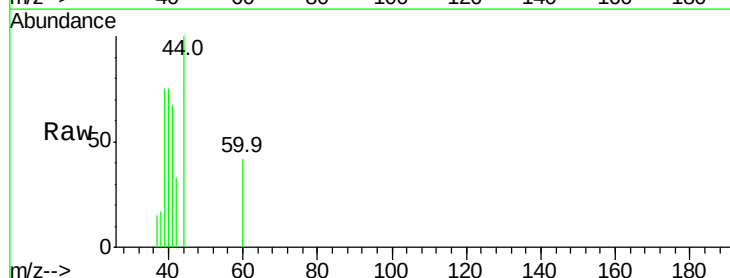
Acq: 31 Jul 2015 12:58

Tgt Ion: 41 Resp: 2720

Ion Ratio Lower Upper

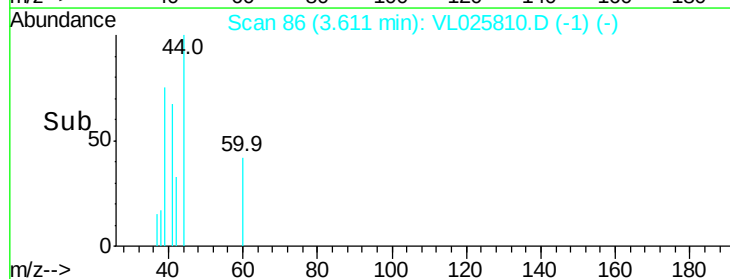
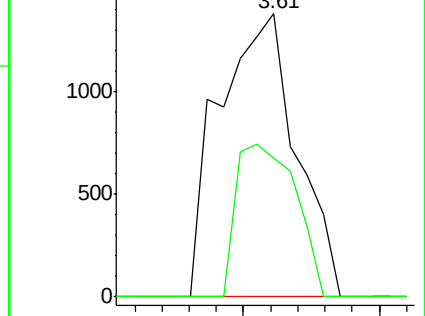
41 100

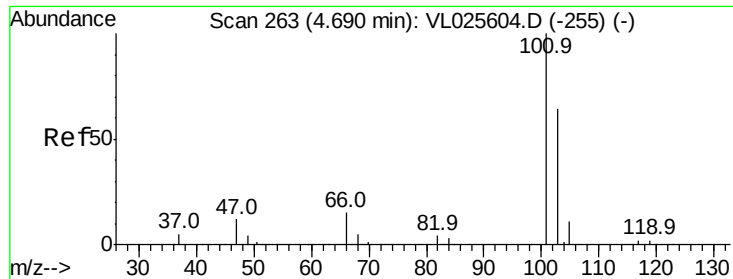
42 41.7 52.4 78.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

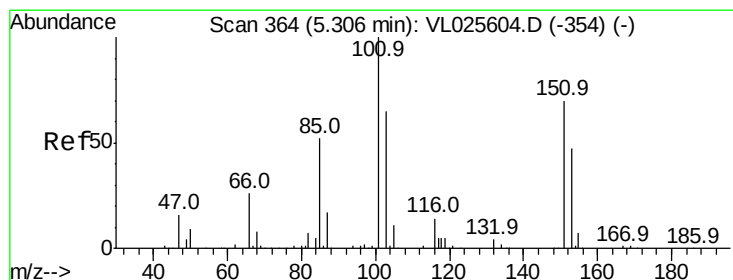
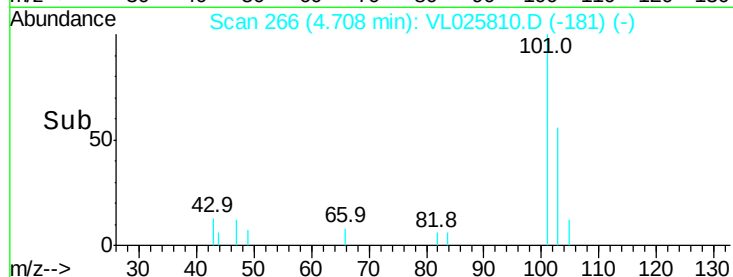
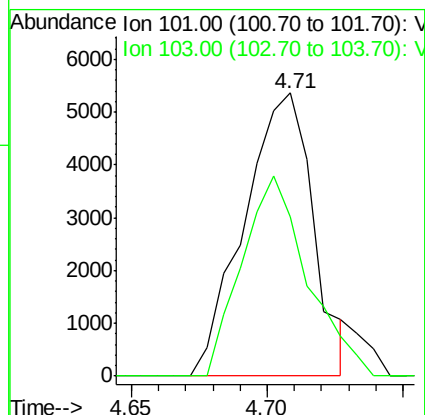
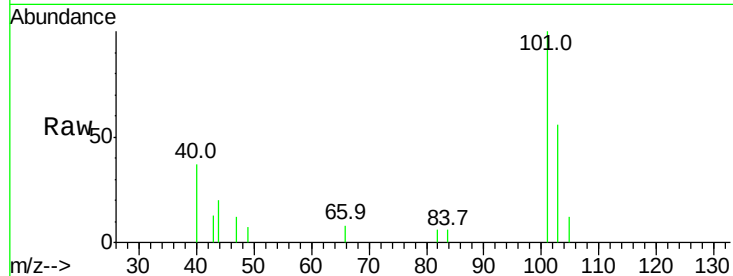




#11
 Trichlorofluoromethane
 Concen: 0.04 ppbv
 RT: 4.71 min Scan# 266
 Delta R.T. 0.02 min
 Lab File: VL025810.D
 Acq: 31 Jul 2015 12:58

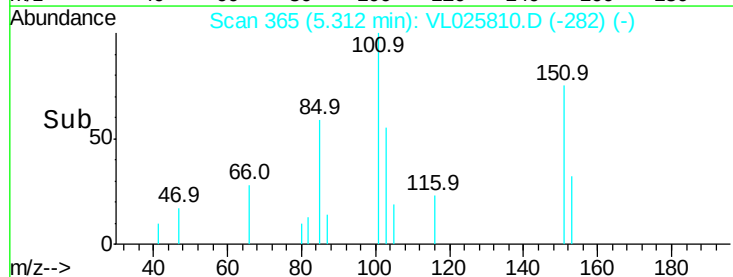
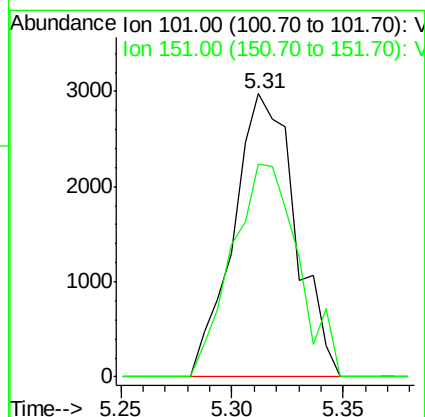
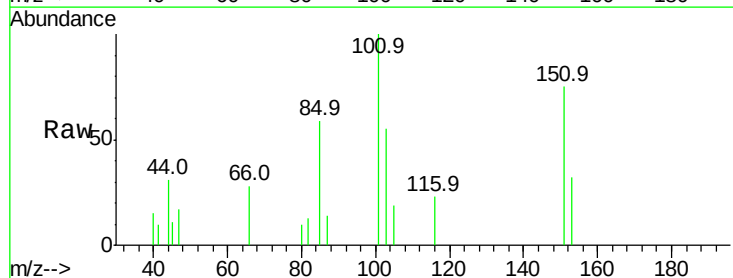
Instrument :
 MSVOA_L
 ClientSampleId :
 QC073015 CAN 10060

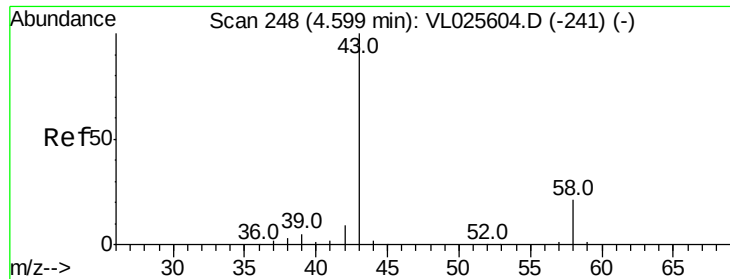
Tgt Ion:101 Resp: 9450
 Ion Ratio Lower Upper
 101 100
 103 56.3 51.4 77.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.04 ppbv
 RT: 5.31 min Scan# 365
 Delta R.T. 0.01 min
 Lab File: VL025810.D
 Acq: 31 Jul 2015 12:58

Tgt Ion:101 Resp: 5780
 Ion Ratio Lower Upper
 101 100
 151 80.0 56.3 84.5





#15

Acetone

Concen: 0.25 ppbv

RT: 4.65 min Scan# 257

Delta R.T. 0.05 min

Lab File: VL025810.D

Acq: 31 Jul 2015 12:58

Instrument :

MSVOA_L

ClientSampleId :

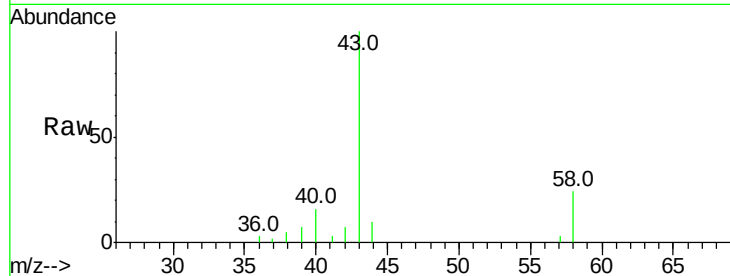
QC073015 CAN 10060

Tgt Ion: 43 Resp: 29736

Ion Ratio Lower Upper

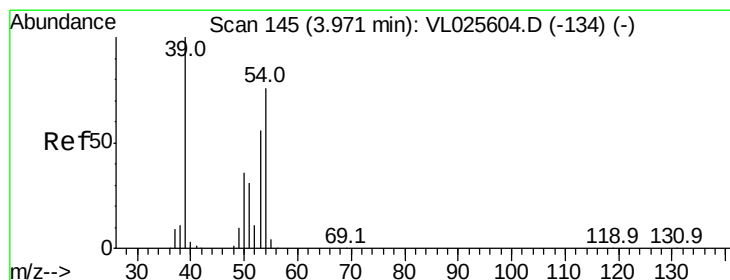
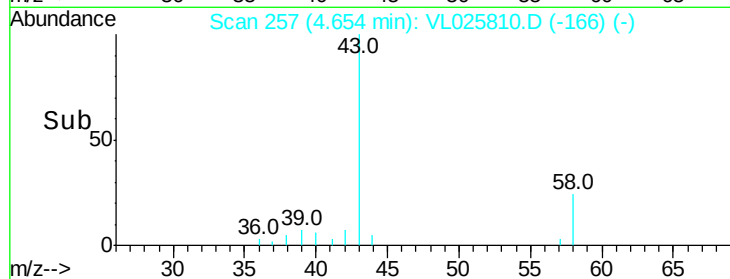
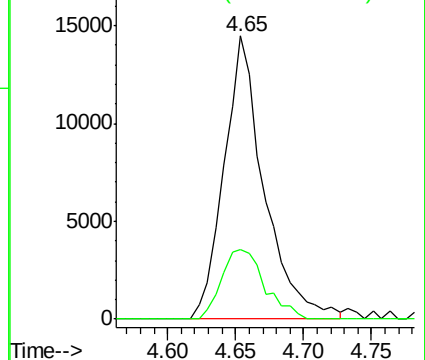
43 100

58 26.4 17.2 25.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.05 ppbv

RT: 3.98 min Scan# 146

Delta R.T. 0.01 min

Lab File: VL025810.D

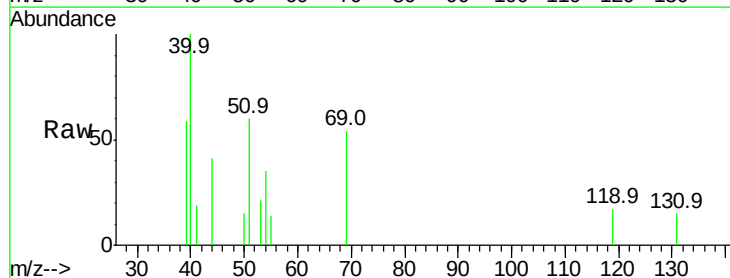
Acq: 31 Jul 2015 12:58

Tgt Ion: 39 Resp: 2443

Ion Ratio Lower Upper

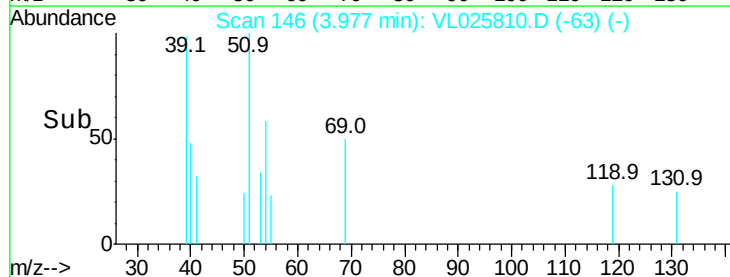
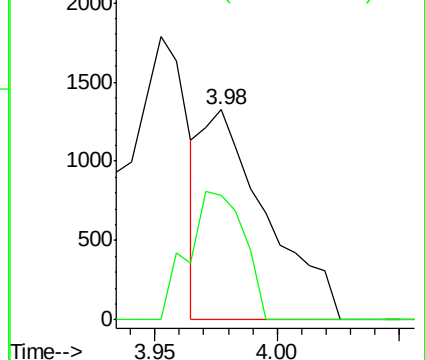
39 100

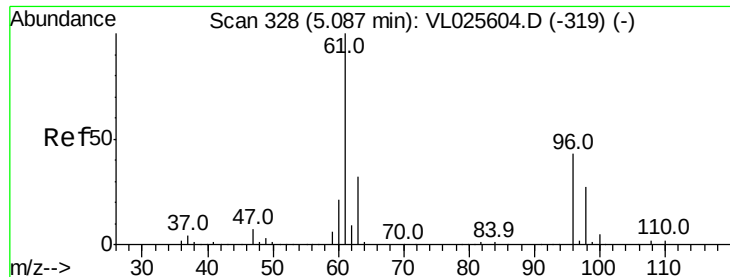
54 52.4 59.3 88.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#18

1,1-Dichloroethene

Concen: 0.04 ppbv

RT: 5.09 min Scan# 328

Delta R.T. -0.00 min

Lab File: VL025810.D

Acq: 31 Jul 2015 12:58

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QC073015 CAN 10060

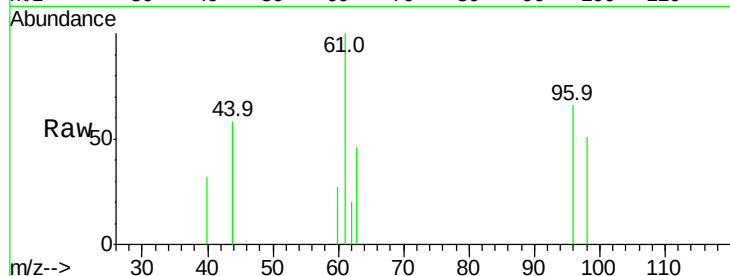
Tgt Ion: 96 Resp: 1753

Ion Ratio Lower Upper

96 100

61 113.0 184.1 276.1#

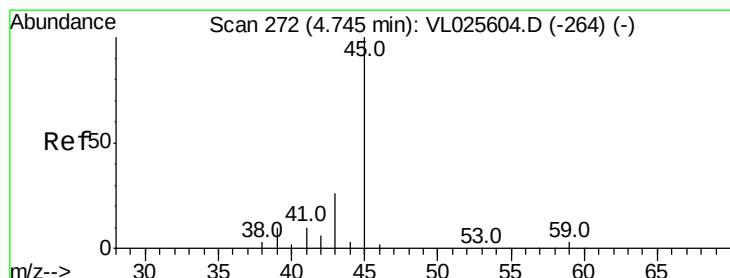
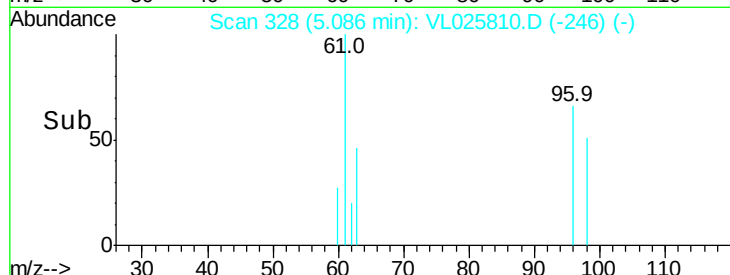
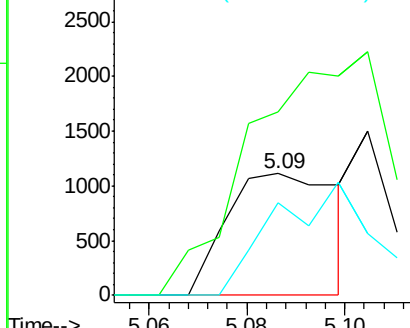
98 76.5 50.0 75.0#



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



#19

Isopropyl Alcohol

Concen: 0.03 ppbv

RT: 4.82 min Scan# 285

Delta R.T. 0.08 min

Lab File: VL025810.D

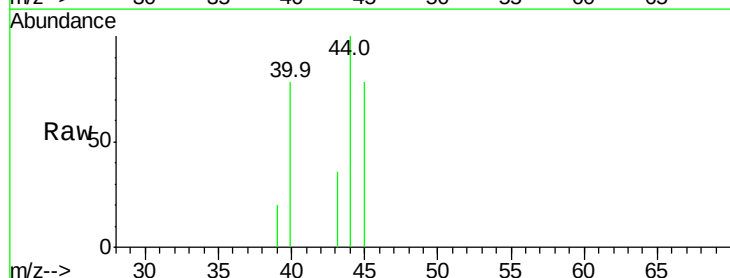
Acq: 31 Jul 2015 12:58

Tgt Ion: 45 Resp: 1515

Ion Ratio Lower Upper

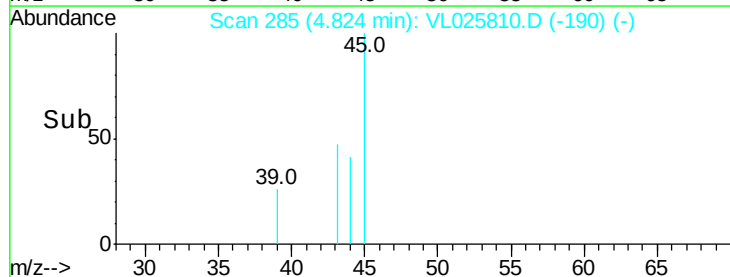
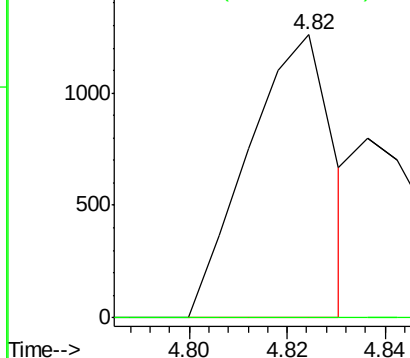
45 100

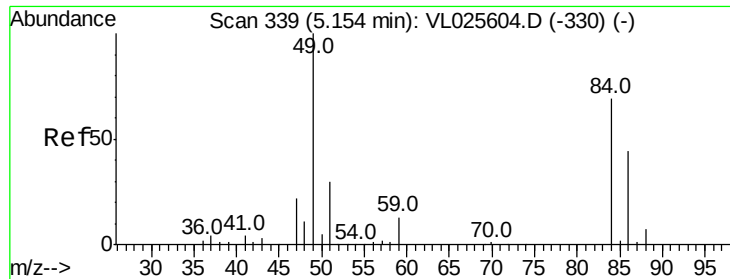
58 517.2 1.1 1.7#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

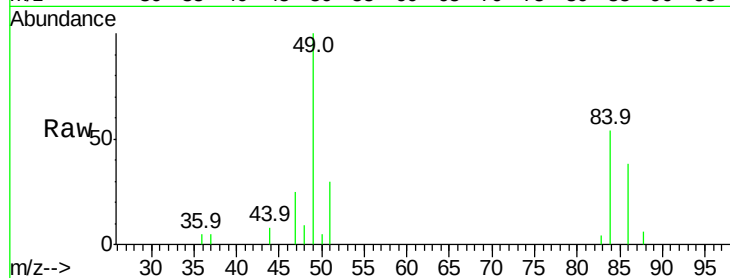




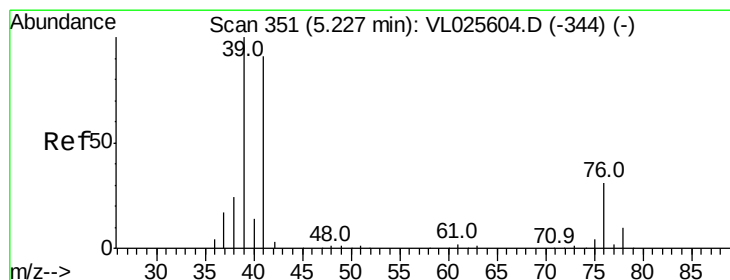
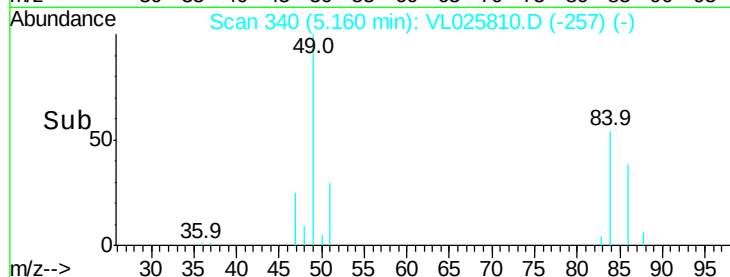
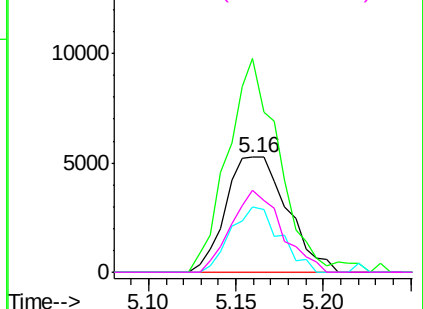
#20
Methylene Chloride
Concen: 0.27 ppbv
RT: 5.16 min Scan# 340
Delta R.T. 0.01 min
Lab File: VL025810.D
Acq: 31 Jul 2015 12:58

Instrument :
MSVOA_L
ClientSampleId :
QC073015 CAN 10060

Tgt Ion: 84 Resp: 12889
Ion Ratio Lower Upper
84 100
49 185.8 115.2 172.8#
51 56.4 35.0 52.6#
86 71.4 50.6 76.0

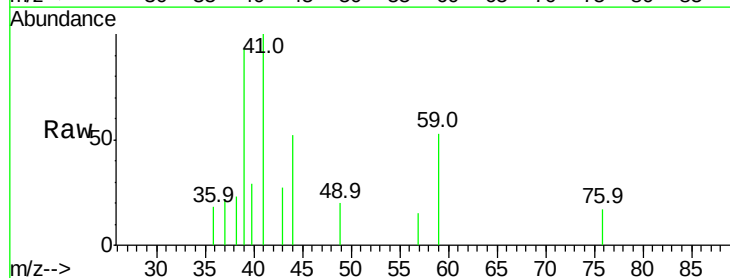


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

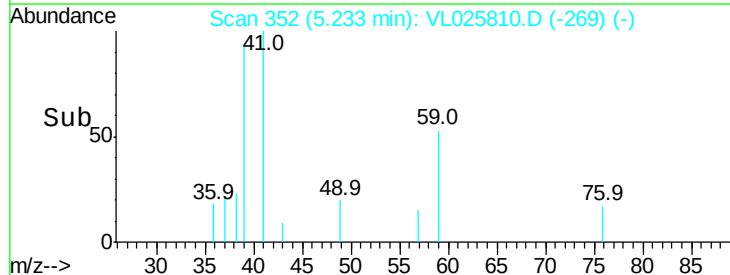
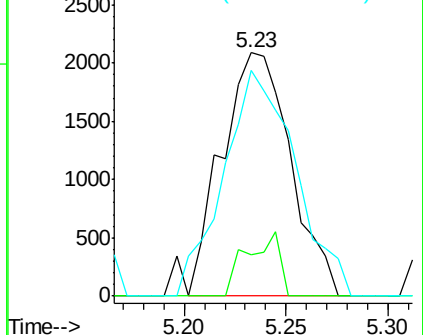


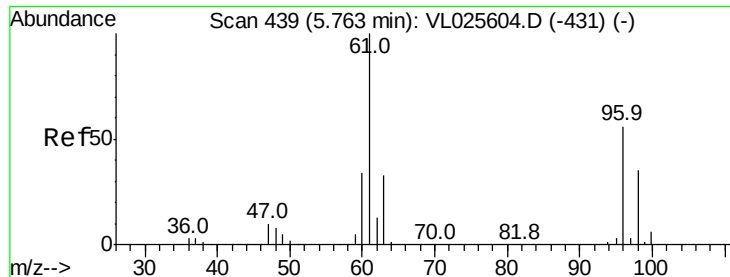
#21
Allyl Chloride
Concen: 0.07 ppbv
RT: 5.23 min Scan# 352
Delta R.T. 0.01 min
Lab File: VL025810.D
Acq: 31 Jul 2015 12:58

Tgt Ion: 41 Resp: 4904
Ion Ratio Lower Upper
41 100
76 12.6 26.6 40.0#
39 96.7 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: 0.05 ppbv

RT: 5.78 min Scan# 441

Delta R.T. 0.01 min

Lab File: VL025810.D

Acq: 31 Jul 2015 12:58

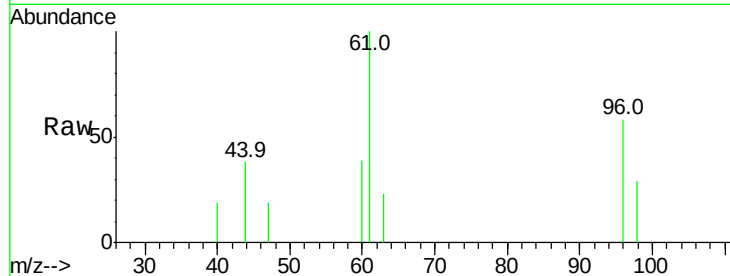
Instrument :

MSVOA_L

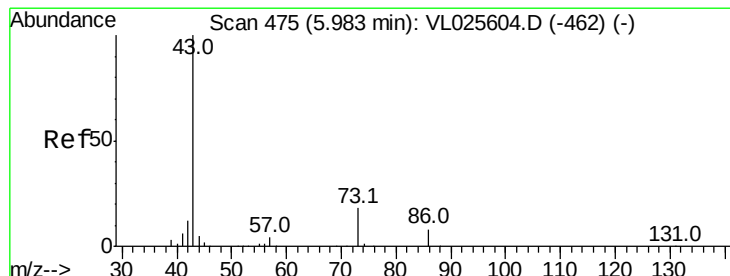
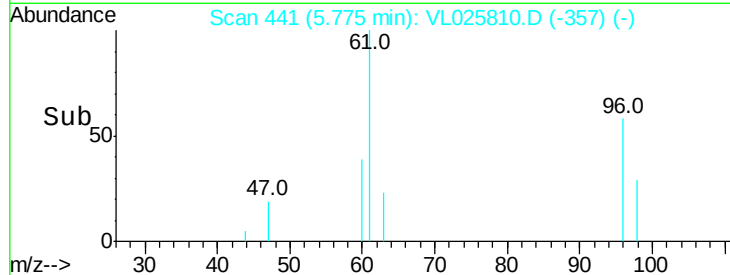
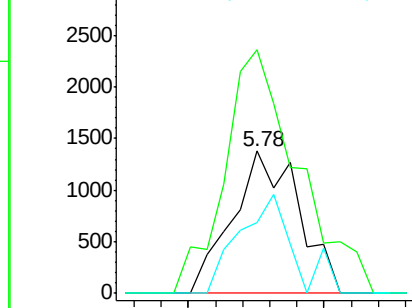
ClientSampleId :

QC073015 CAN 10060

Tgt Ion:	96	Resp:	2336
Ion	Ratio	Lower	Upper
96	100		
61	138.5	141.8	212.6#
98	50.3	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: 0.04 ppbv

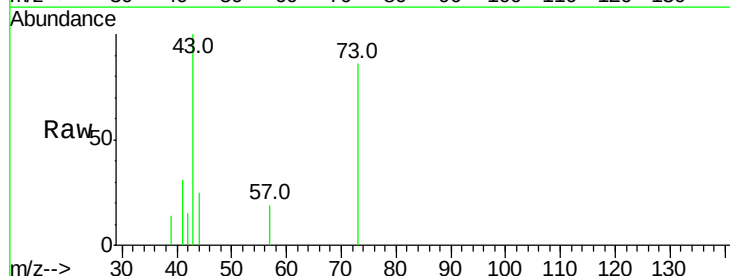
RT: 6.02 min Scan# 481

Delta R.T. 0.04 min

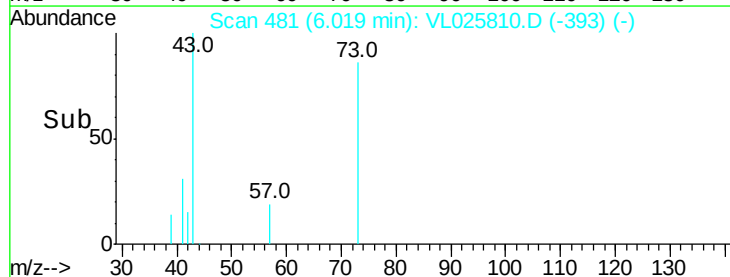
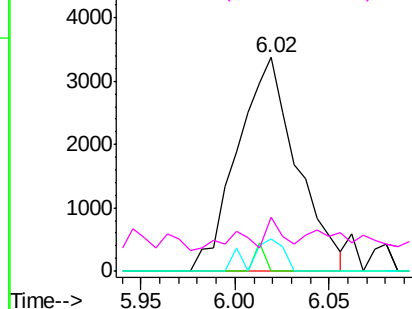
Lab File: VL025810.D

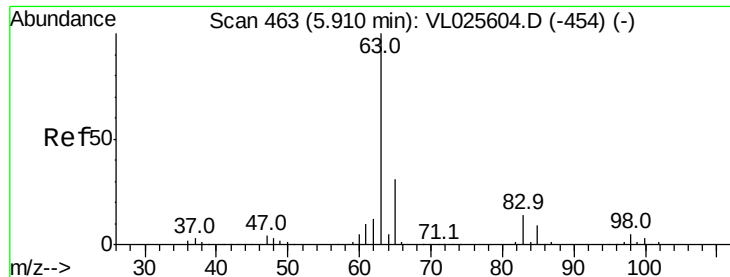
Acq: 31 Jul 2015 12:58

Tgt Ion:	43	Resp:	7380
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.7	10.1#
42	14.9	9.8	14.6#
44	15.6	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

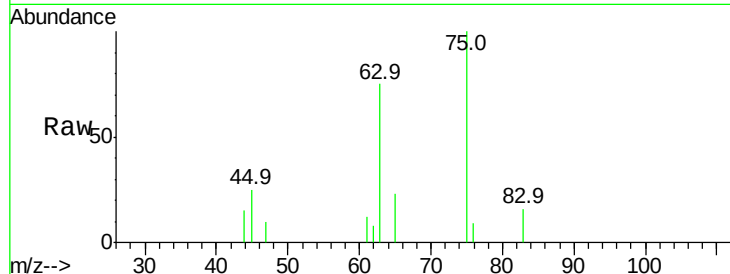




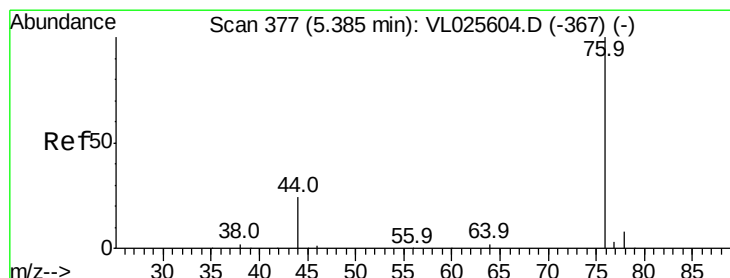
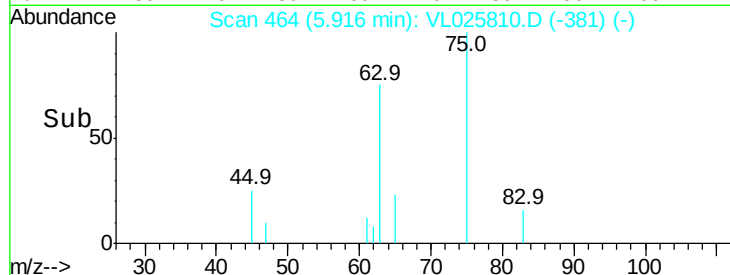
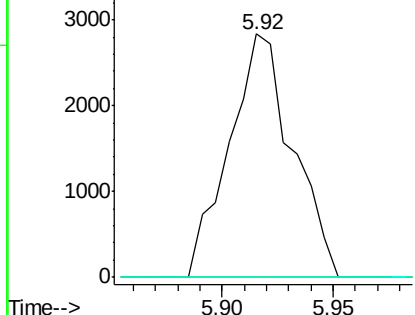
#24
 1,1-Dichloroethane
 Concen: 0.05 ppbv
 RT: 5.92 min Scan# 464
 Delta R.T. 0.01 min
 Lab File: VL025810.D
 Acq: 31 Jul 2015 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 QC073015 CAN 10060

Tgt Ion: 63 Resp: 5617
 Ion Ratio Lower Upper
 63 100
 98 0.0 2.6 8.0#
 100 0.0 1.6 4.7#

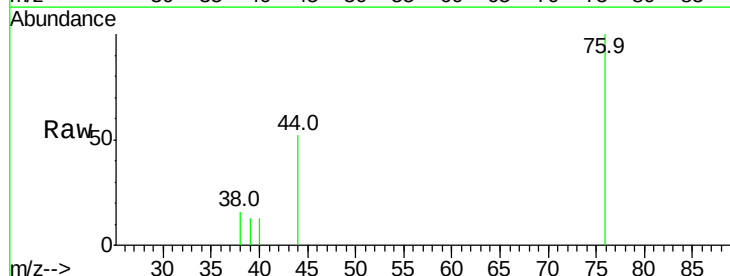


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 98.00 (97.70 to 98.70): VL0
 Ion 100.00 (99.70 to 100.70): VL0

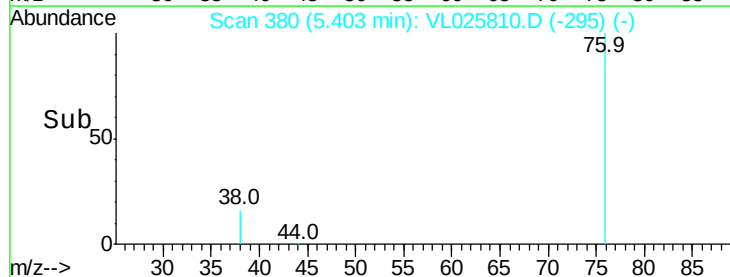
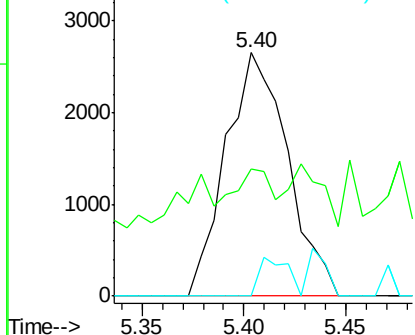


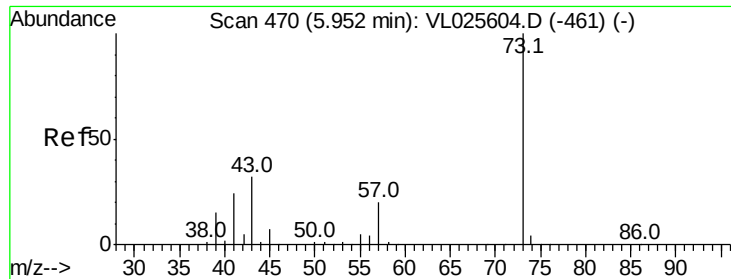
#27
 Carbon Disulfide
 Concen: 0.04 ppbv
 RT: 5.40 min Scan# 380
 Delta R.T. 0.02 min
 Lab File: VL025810.D
 Acq: 31 Jul 2015 12:58

Tgt Ion: 76 Resp: 5595
 Ion Ratio Lower Upper
 76 100
 44 65.1 20.2 30.4#
 78 15.2 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





#28

Methyl tert-Butyl Ether

Concen: 0.04 ppbv

RT: 6.02 min Scan# 481

Delta R.T. 0.07 min

Lab File: VL025810.D

Acq: 31 Jul 2015 12:58

Instrument :

MSVOA_L

ClientSampleId :

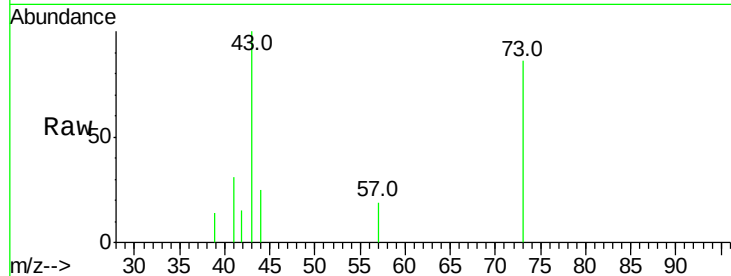
QC073015 CAN 10060

Tgt Ion: 73 Resp: 6308

Ion Ratio Lower Upper

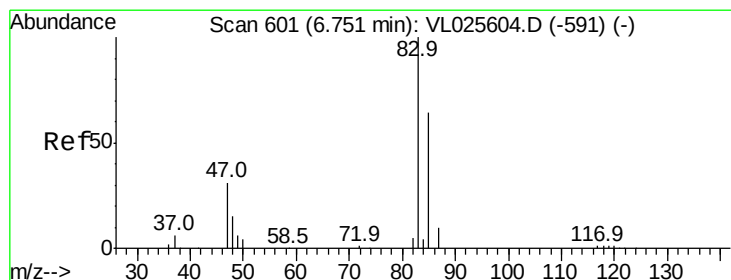
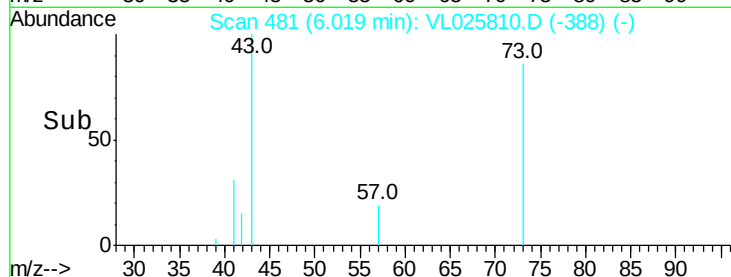
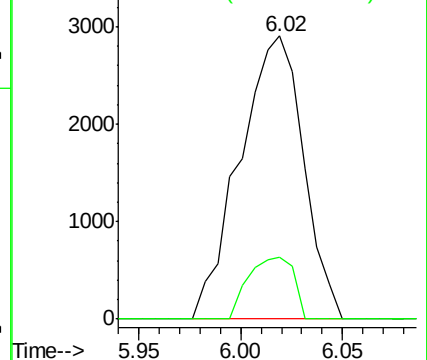
73 100

57 15.4 16.0 24.0#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#29

Chloroform

Concen: 0.04 ppbv

RT: 6.75 min Scan# 601

Delta R.T. -0.00 min

Lab File: VL025810.D

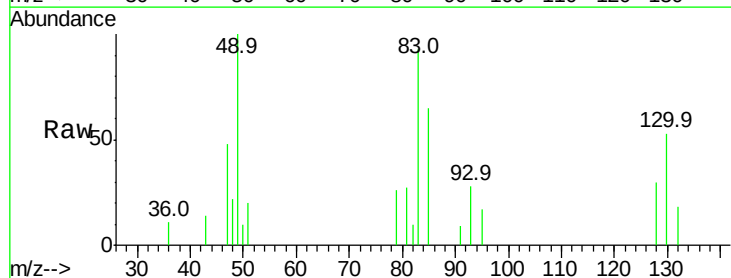
Acq: 31 Jul 2015 12:58

Tgt Ion: 83 Resp: 6923

Ion Ratio Lower Upper

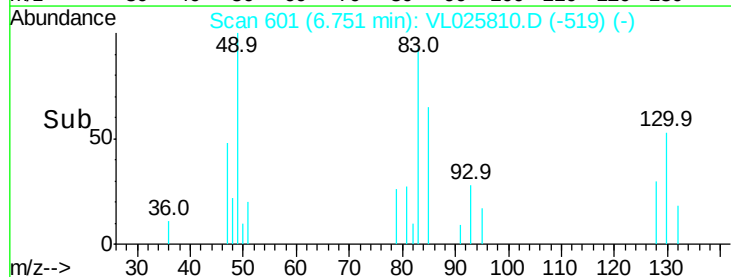
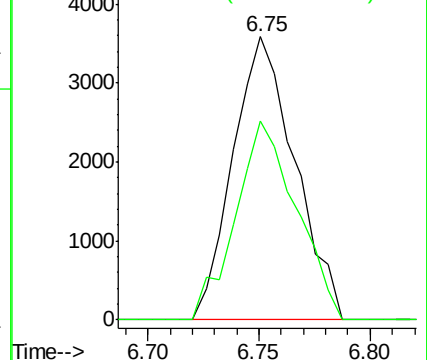
83 100

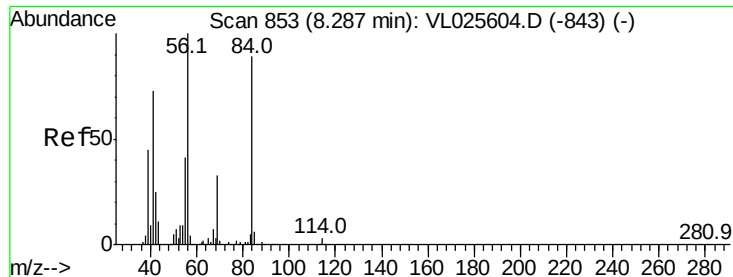
85 70.5 51.6 77.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

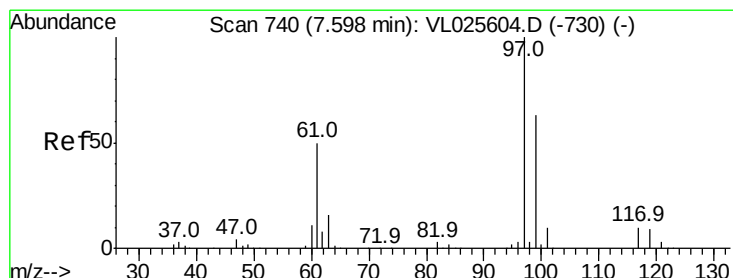
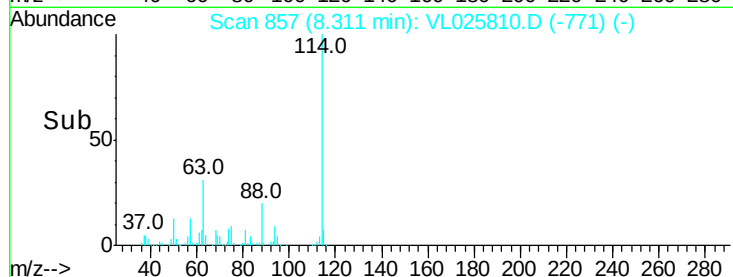
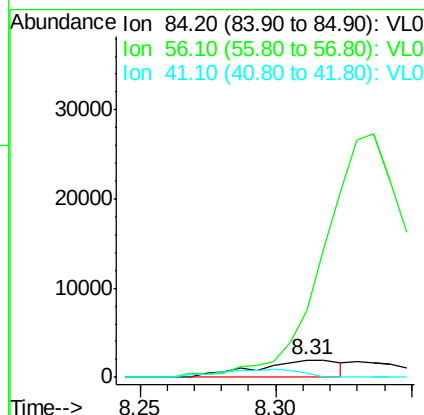
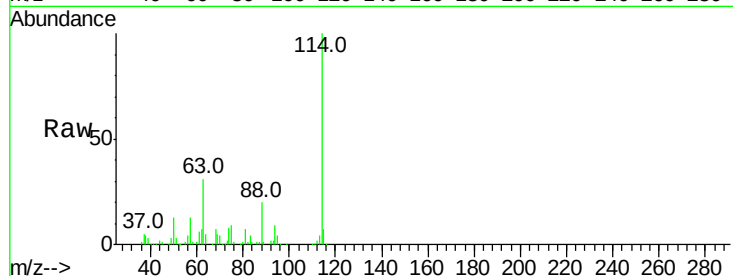




#30
Cyclohexane
Concen: 0.05 ppbv
RT: 8.31 min Scan# 857
Delta R.T. 0.02 min
Lab File: VL025810.D
Acq: 31 Jul 2015 12:58

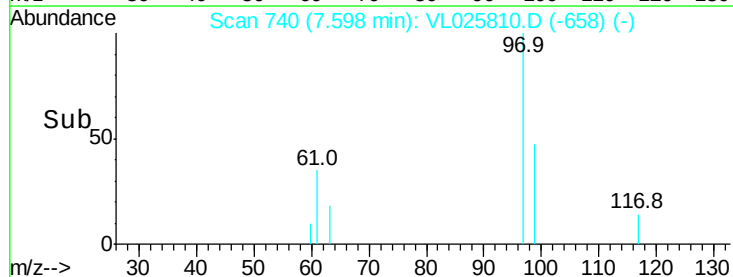
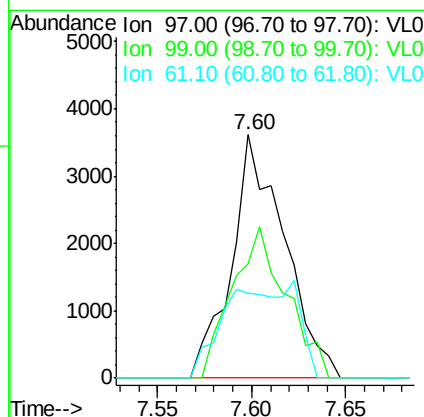
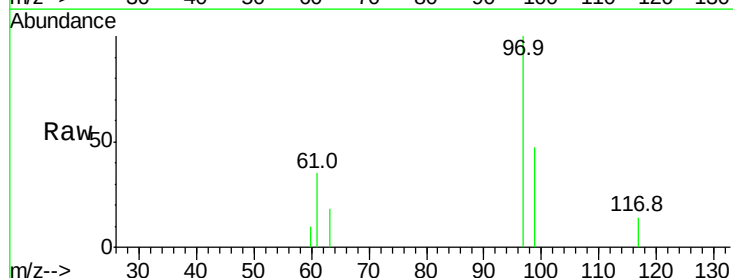
Instrument :
MSVOA_L
ClientSampleId :
QC073015 CAN 10060

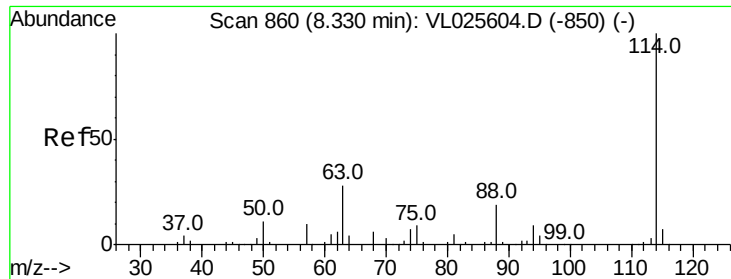
Tgt Ion: 84 Resp: 4208
Ion Ratio Lower Upper
84 100
56 0.0 97.5 146.3#
41 43.4 65.4 98.2#



#32
1,1,1-Trichloroethane
Concen: 0.04 ppbv
RT: 7.60 min Scan# 740
Delta R.T. -0.00 min
Lab File: VL025810.D
Acq: 31 Jul 2015 12:58

Tgt Ion: 97 Resp: 7035
Ion Ratio Lower Upper
97 100
99 63.6 51.2 76.8
61 53.8 40.4 60.6

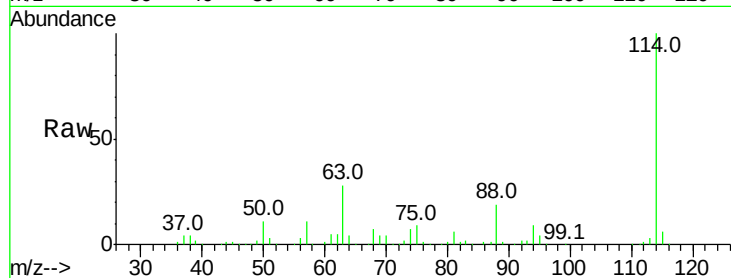




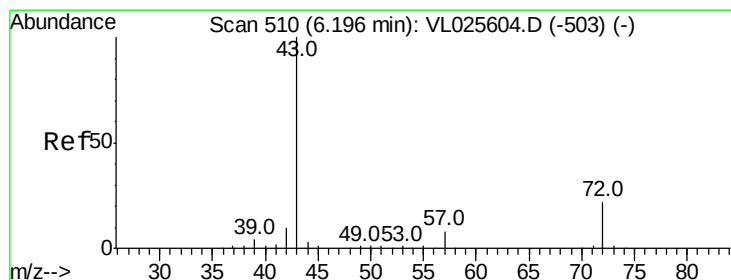
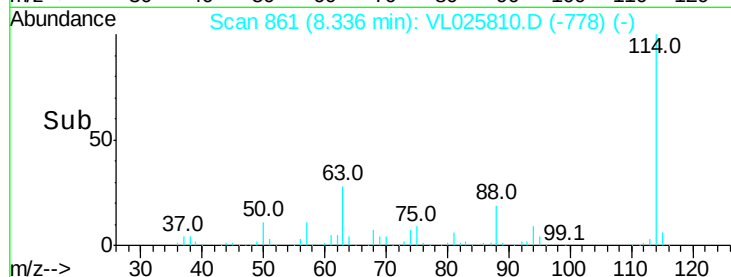
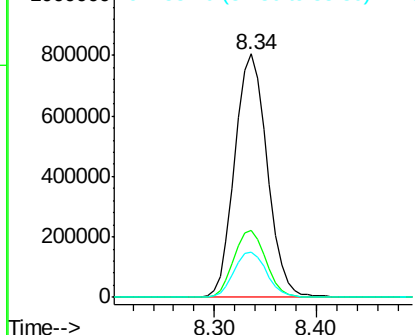
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.34 min Scan# 861
 Delta R.T. 0.01 min
 Lab File: VL025810.D
 Acq: 31 Jul 2015 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 QC073015 CAN 10060

Tgt Ion:114 Resp: 1783287
 Ion Ratio Lower Upper
 114 100
 63 27.5 22.4 33.6
 88 18.7 15.0 22.4

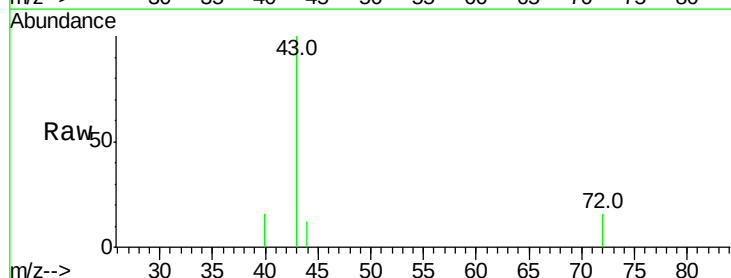


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

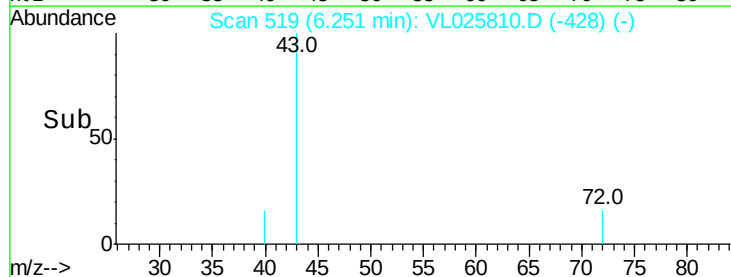
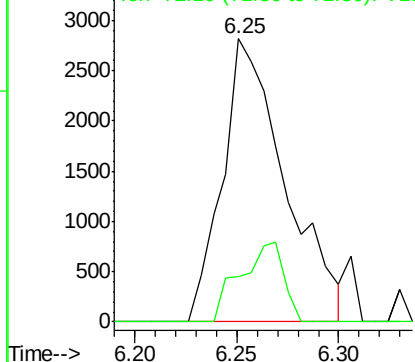


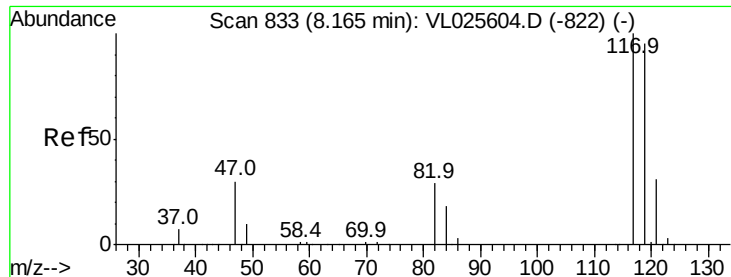
#34
 2-Butanone
 Concen: 0.06 ppbv
 RT: 6.25 min Scan# 519
 Delta R.T. 0.05 min
 Lab File: VL025810.D
 Acq: 31 Jul 2015 12:58

Tgt Ion: 43 Resp: 6005
 Ion Ratio Lower Upper
 43 100
 72 19.8 18.6 28.0



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.04 ppbv

RT: 8.17 min Scan# 834

Delta R.T. 0.01 min

Lab File: VL025810.D

Acq: 31 Jul 2015 12:58

Instrument :

MSVOA_L

ClientSampleId :

QC073015 CAN 10060

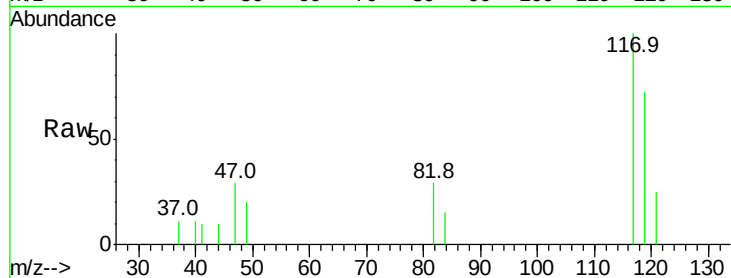
Tgt Ion:117 Resp: 7279

Ion Ratio Lower Upper

117 100

119 72.0 75.9 113.9#

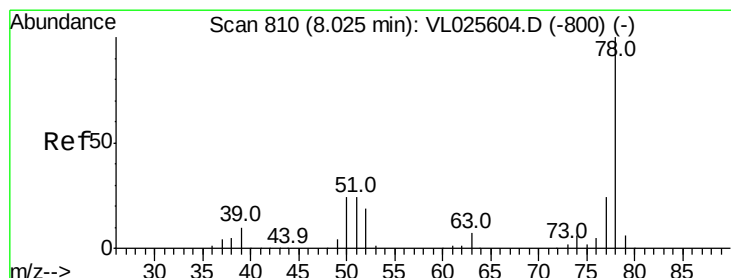
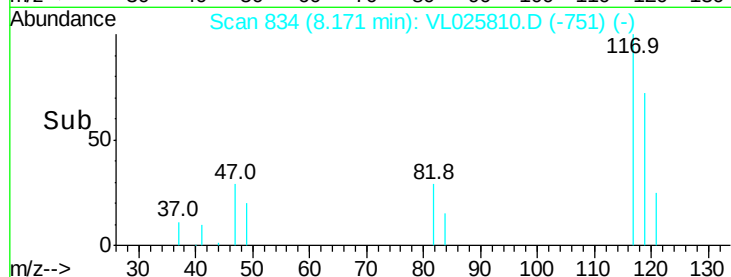
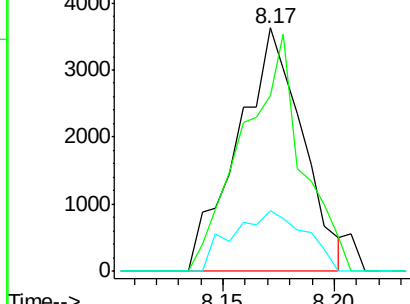
121 25.1 24.4 36.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.04 ppbv

RT: 8.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VL025810.D

Acq: 31 Jul 2015 12:58

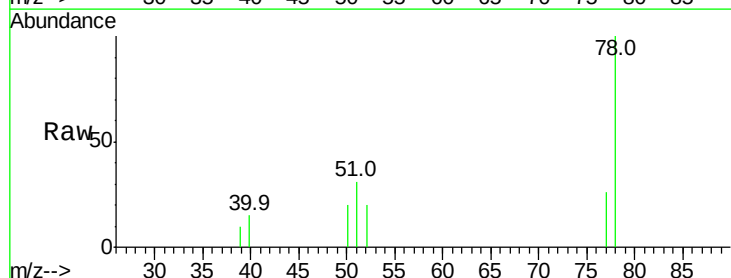
Tgt Ion: 78 Resp: 7435

Ion Ratio Lower Upper

78 100

77 25.9 19.0 28.4

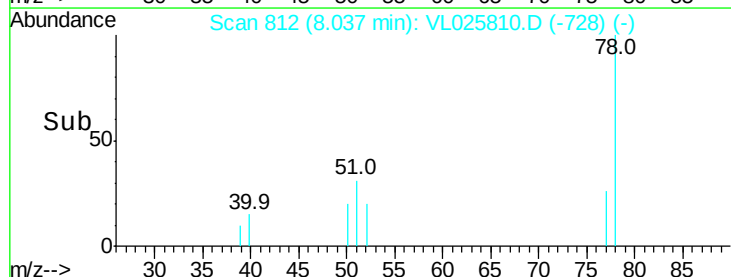
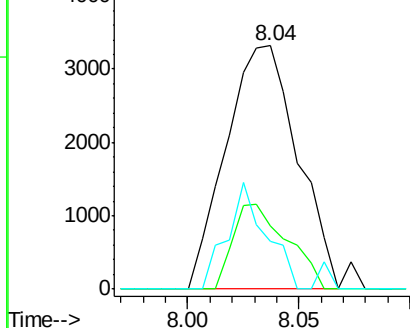
50 19.8 19.2 28.8

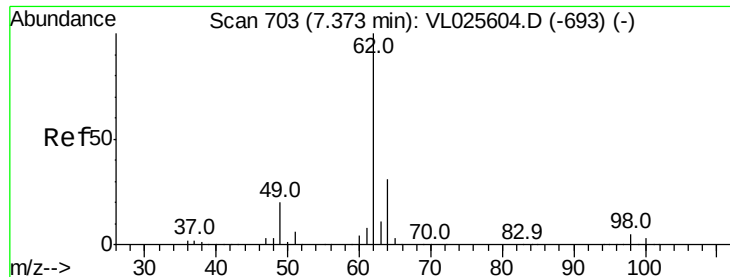


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

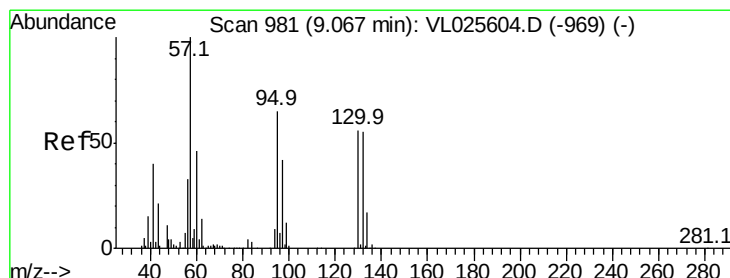
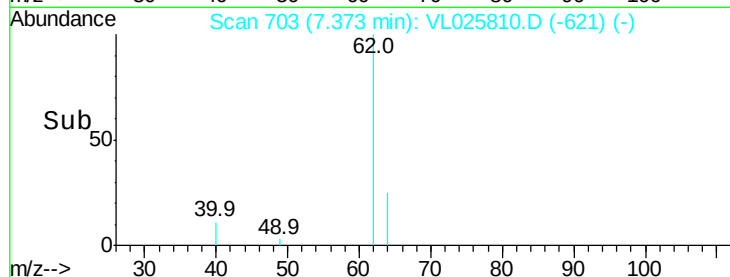
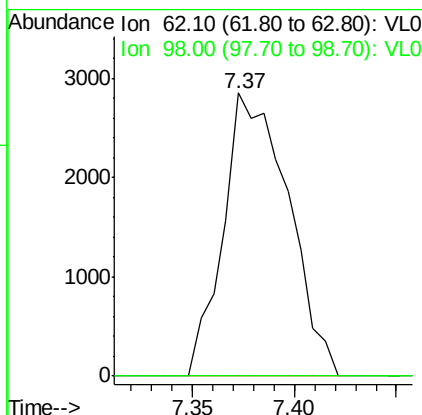
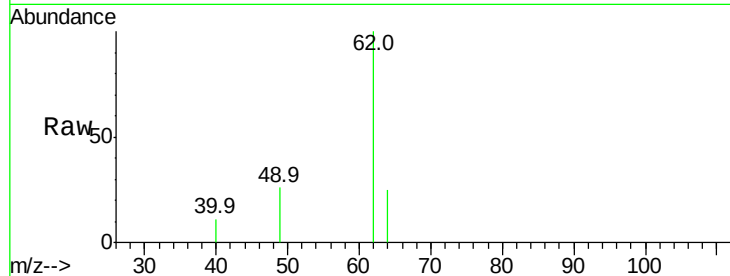




#37
 1,2-Dichloroethane
 Concen: 0.04 ppbv
 RT: 7.37 min Scan# 703
 Delta R.T. -0.00 min
 Lab File: VL025810.D
 Acq: 31 Jul 2015 12:58

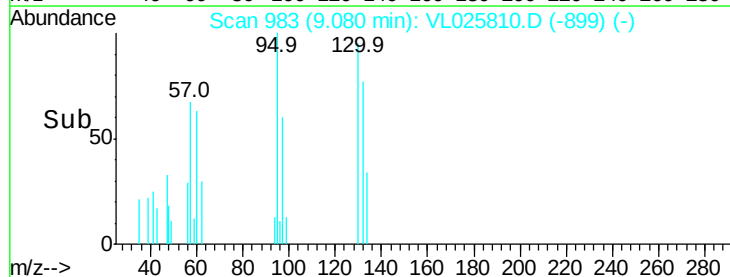
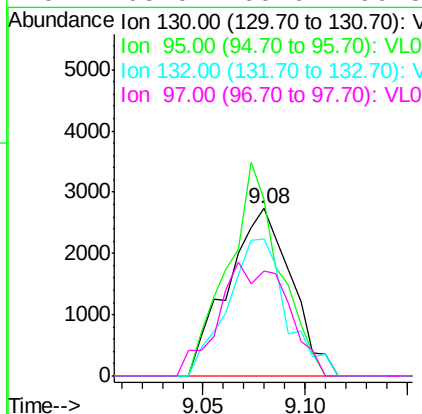
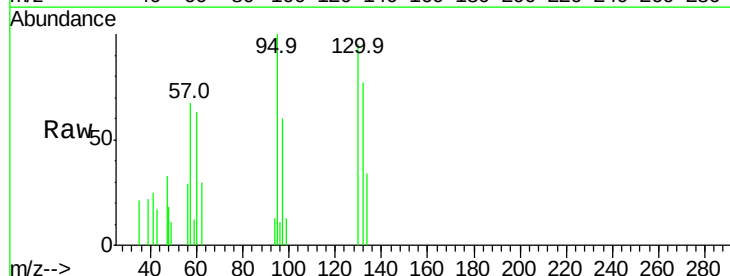
Instrument :
 MSVOA_L
 ClientSampleId :
 QC073015 CAN 10060

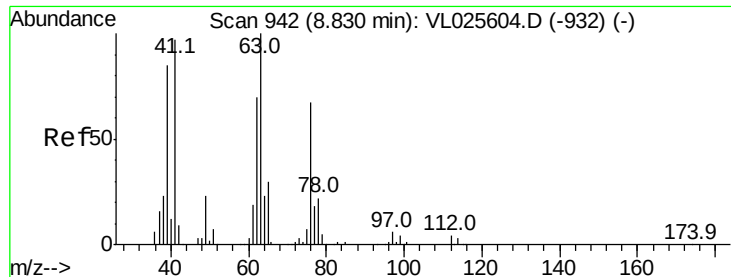
Tgt Ion: 62 Resp: 6301
 Ion Ratio Lower Upper
 62 100
 98 0.0 4.1 6.1#



#38
 Trichloroethene
 Concen: 0.07 ppbv
 RT: 9.08 min Scan# 983
 Delta R.T. 0.01 min
 Lab File: VL025810.D
 Acq: 31 Jul 2015 12:58

Tgt Ion: 130 Resp: 5940
 Ion Ratio Lower Upper
 130 100
 95 105.8 94.2 141.4
 132 81.9 78.6 118.0
 97 63.0 60.6 90.8





#39

1,2-Dichloropropane

Concen: 0.03 ppbv

RT: 8.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VL025810.D

Acq: 31 Jul 2015 12:58

Instrument :

MSVOA_L

ClientSampleId :

QC073015 CAN 10060

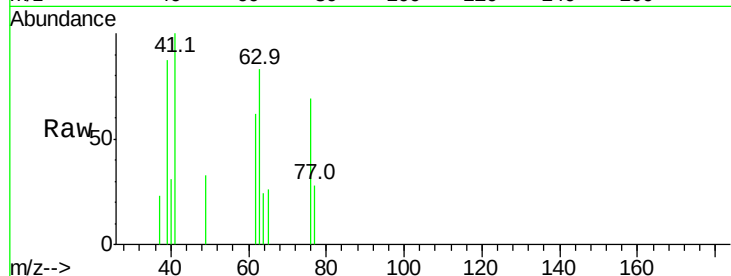
Tgt Ion: 63 Resp: 2205

Ion Ratio Lower Upper

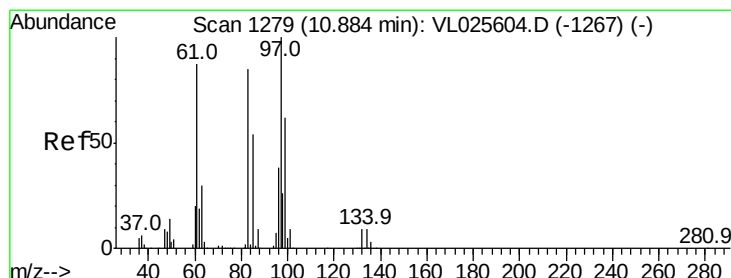
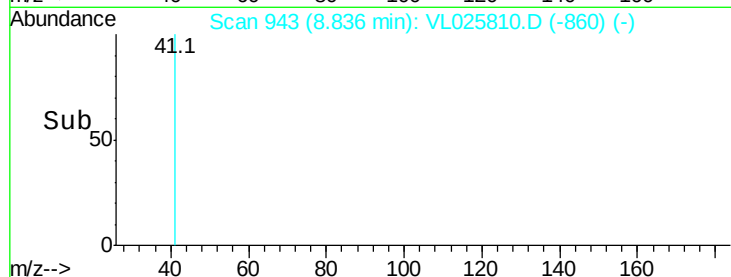
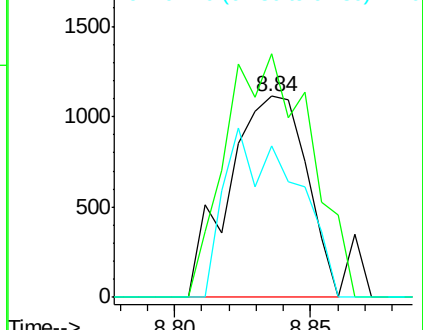
63 100

41 93.5 78.0 117.0

62 58.1 55.7 83.5



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#47

1,1,2-Trichloroethane

Concen: 0.04 ppbv

RT: 10.89 min Scan# 1280

Delta R.T. 0.01 min

Lab File: VL025810.D

Acq: 31 Jul 2015 12:58

Tgt Ion: 97 Resp: 3502

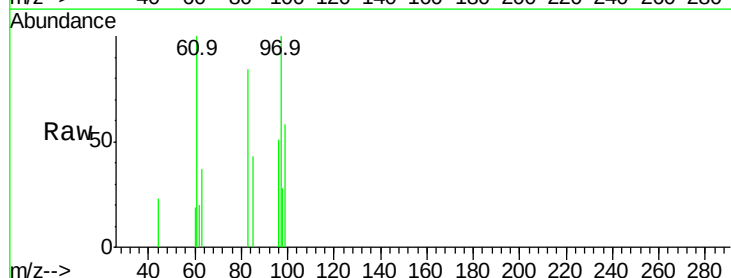
Ion Ratio Lower Upper

97 100

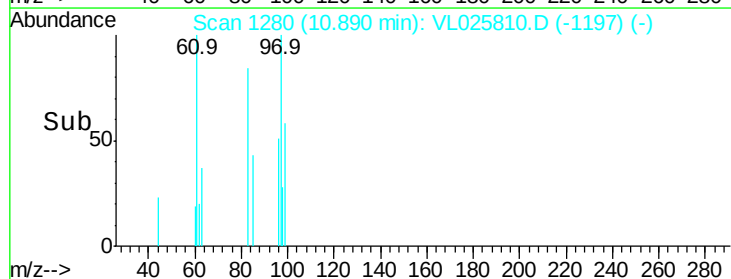
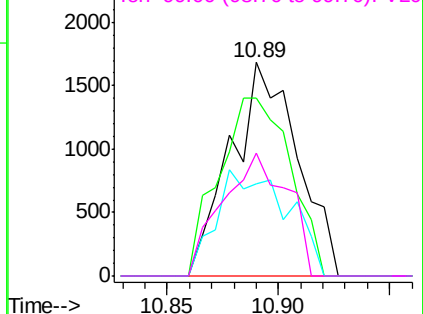
83 83.6 67.8 101.8

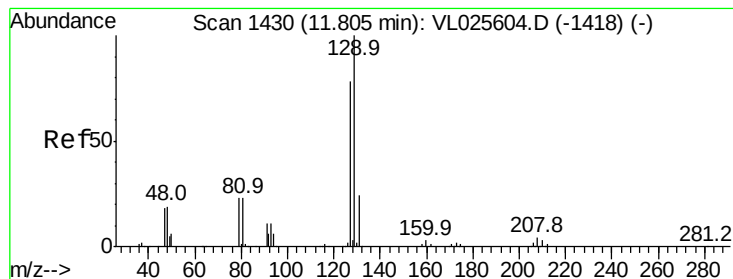
85 43.1 43.5 65.3#

99 57.7 49.8 74.8



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 99.00 (98.70 to 99.70): VL0





#48

Dibromochloromethane

Concen: 0.03 ppbv

RT: 11.82 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VL025810.D

Acq: 31 Jul 2015 12:58

Instrument :

MSVOA_L

ClientSampleId :

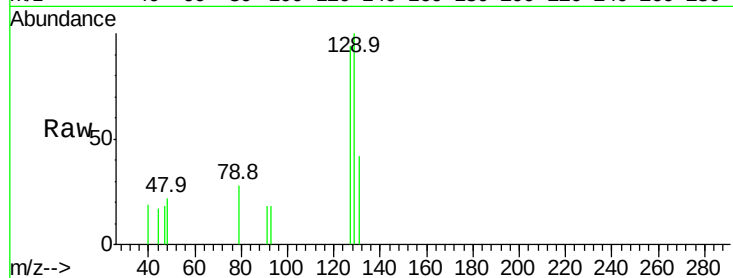
QC073015 CAN 10060

Tgt Ion: 129 Resp: 5087

Ion Ratio Lower Upper

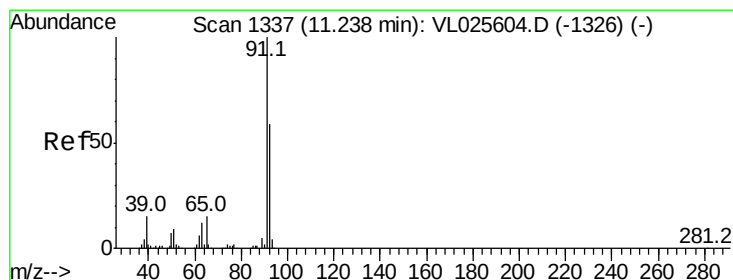
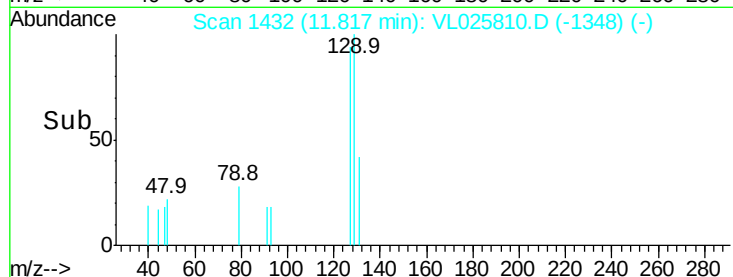
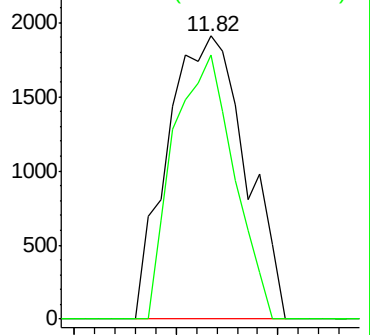
129 100

127 72.4 39.0 116.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#53

Toluene

Concen: 0.03 ppbv

RT: 11.26 min Scan# 1340

Delta R.T. 0.02 min

Lab File: VL025810.D

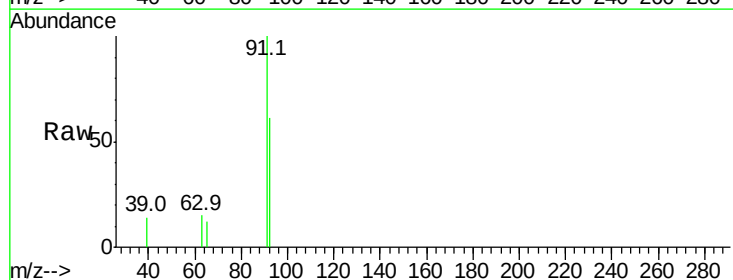
Acq: 31 Jul 2015 12:58

Tgt Ion: 91 Resp: 7483

Ion Ratio Lower Upper

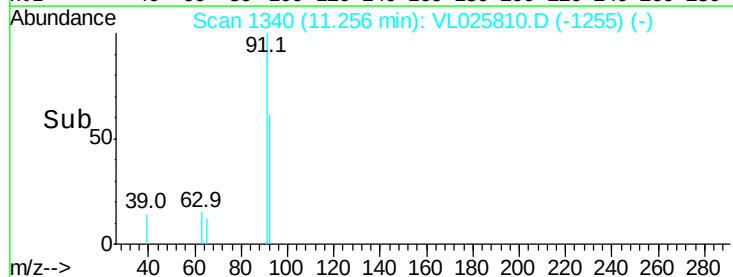
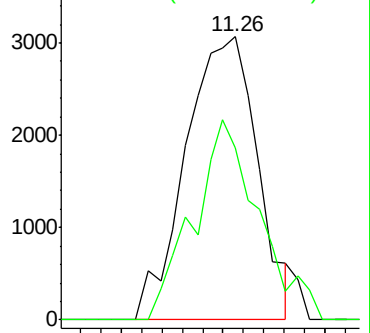
91 100

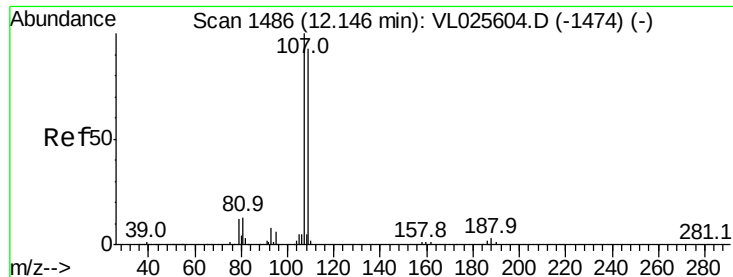
92 64.7 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#54

1,2-Dibromoethane

Concen: 0.04 ppbv

RT: 12.15 min Scan# 1487

Delta R.T. 0.01 min

Lab File: VL025810.D

Acq: 31 Jul 2015 12:58

Instrument :

MSVOA_L

ClientSampleId :

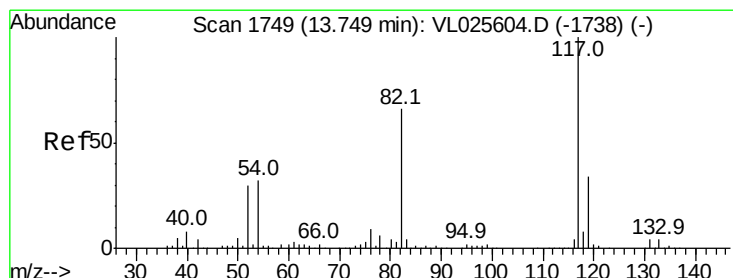
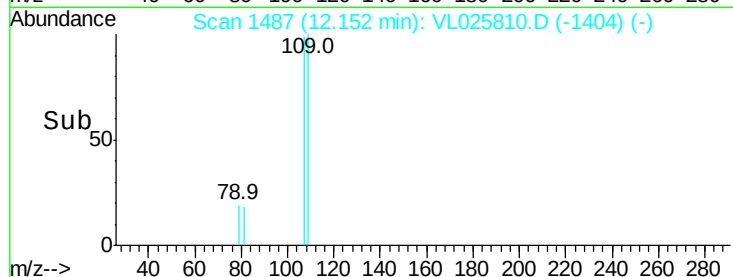
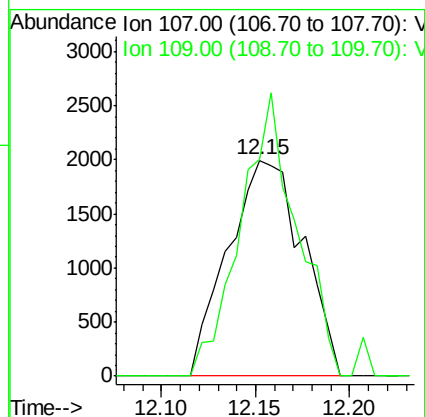
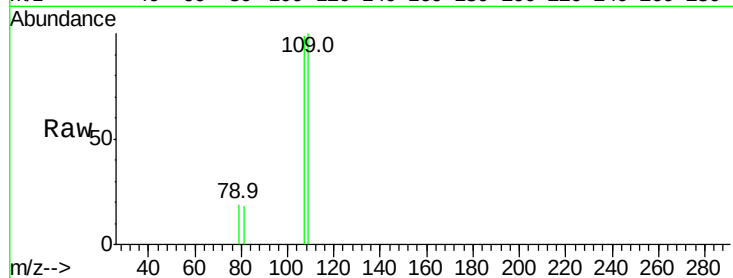
QC073015 CAN 10060

Tgt Ion:107 Resp: 5489

Ion Ratio Lower Upper

107 100

109 100.7 74.1 111.1



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.76 min Scan# 1751

Delta R.T. 0.01 min

Lab File: VL025810.D

Acq: 31 Jul 2015 12:58

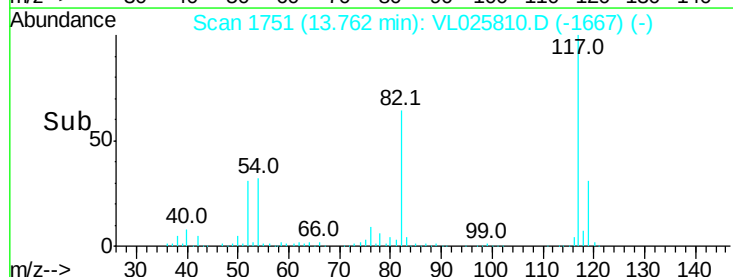
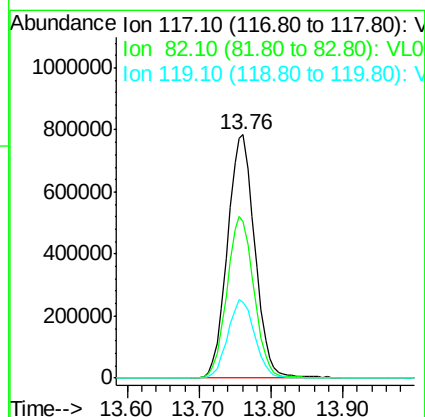
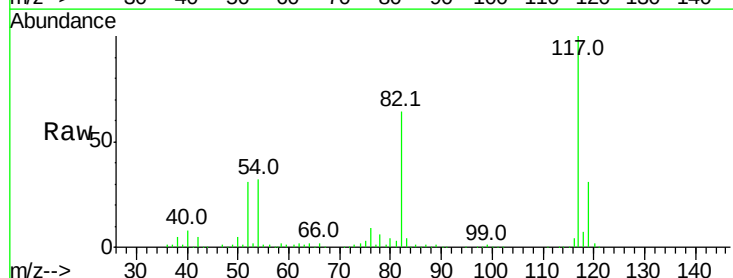
Tgt Ion:117 Resp: 2079864

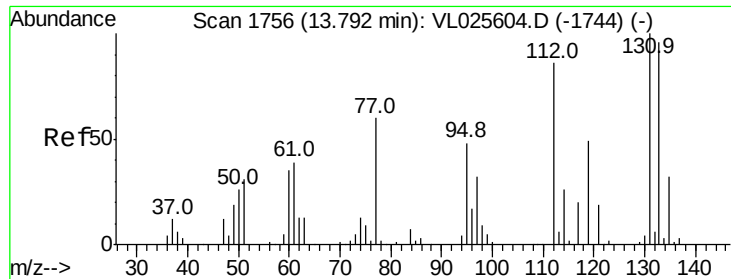
Ion Ratio Lower Upper

117 100

82 66.0 50.5 75.7

119 32.2 45.1 67.7#





#56

1,1,1,2-Tetrachloroethane

Concen: 0.03 ppbv

RT: 13.80 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VL025810.D

Acq: 31 Jul 2015 12:58

Instrument :

MSVOA_L

ClientSampleId :

QC073015 CAN 10060

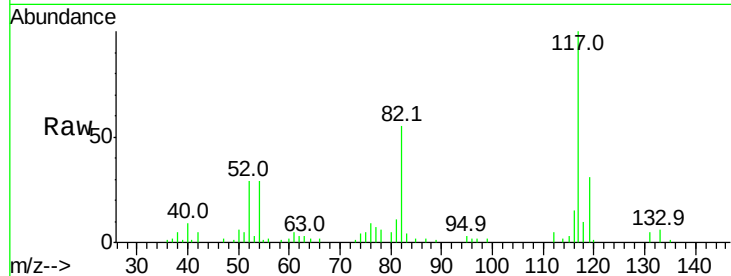
Tgt Ion:131 Resp: 3881

Ion Ratio Lower Upper

131 100

133 122.3 76.9 115.3#

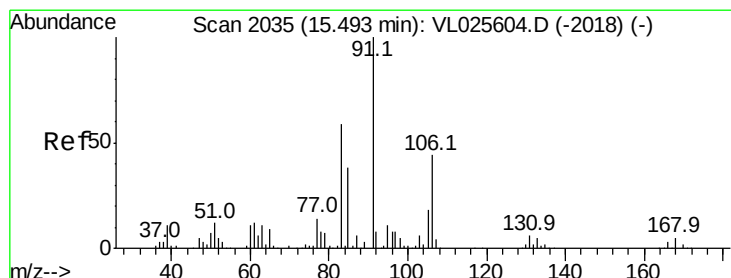
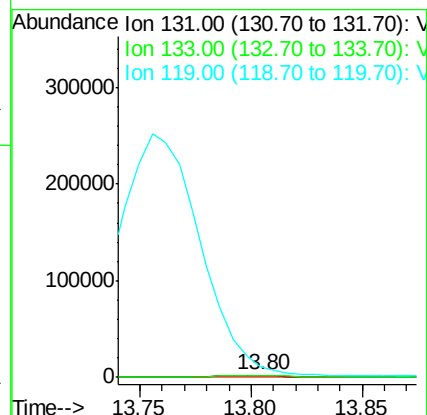
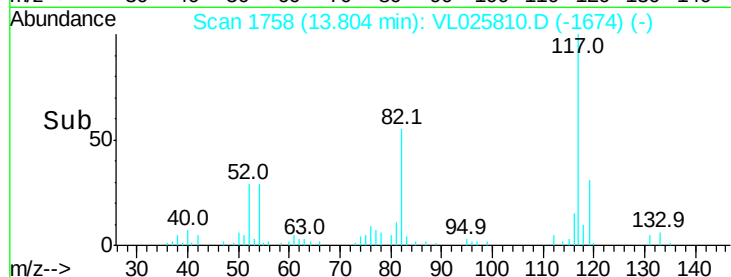
119 0.0 97.8 146.8#



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#60

o-Xylene

Concen: 0.03 ppbv

RT: 15.51 min Scan# 2037

Delta R.T. 0.01 min

Lab File: VL025810.D

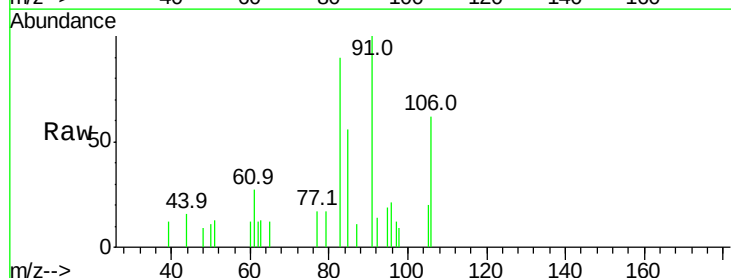
Acq: 31 Jul 2015 12:58

Tgt Ion: 91 Resp: 10212

Ion Ratio Lower Upper

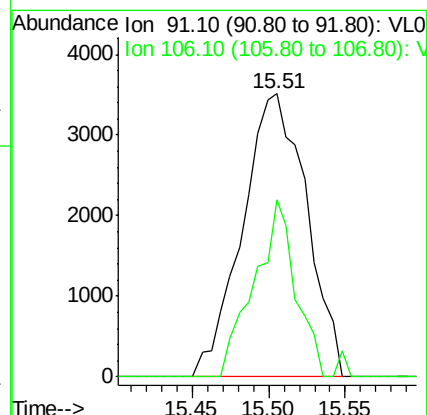
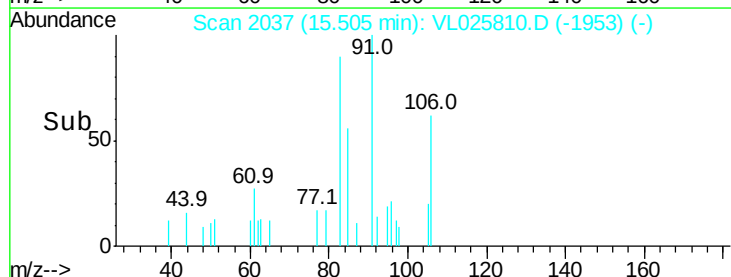
91 100

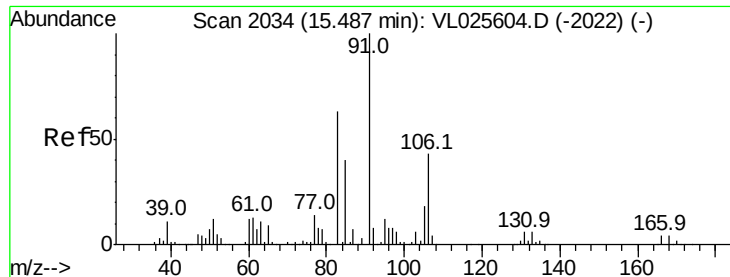
106 41.8 22.1 66.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

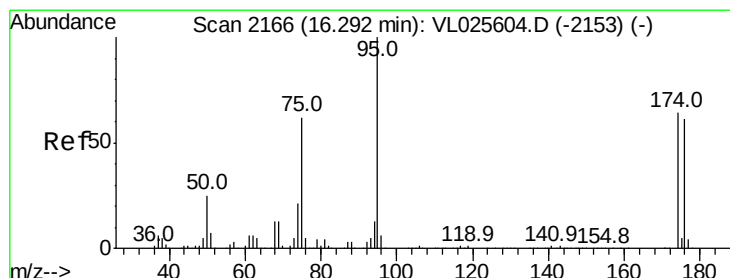
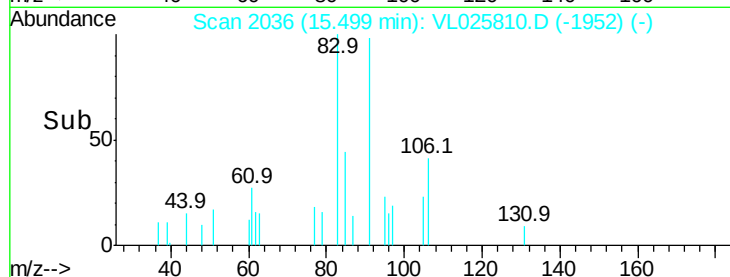
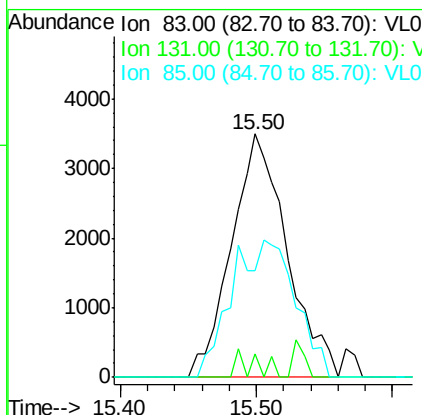
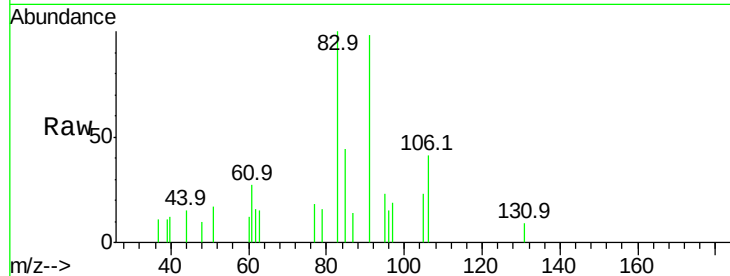




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.05 ppbv
 RT: 15.50 min Scan# 2036
 Delta R.T. 0.01 min
 Lab File: VL025810.D
 Acq: 31 Jul 2015 12:58

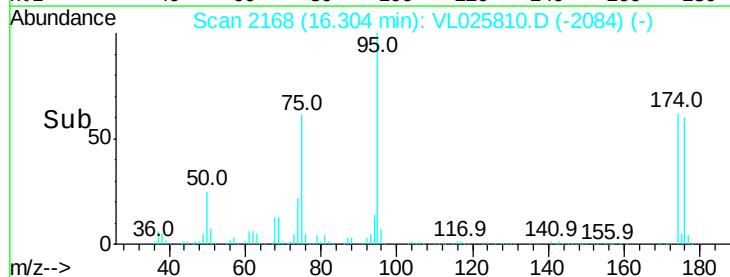
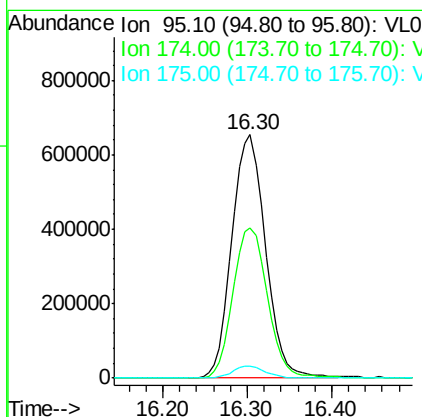
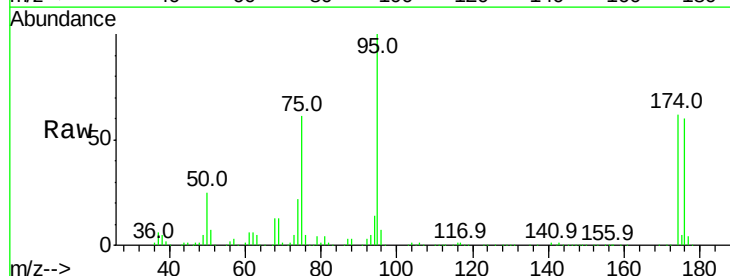
Instrument :
 MSVOA_L
 ClientSampleId :
 QC073015 CAN 10060

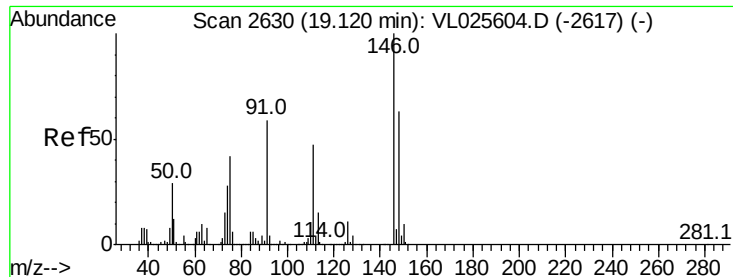
Tgt Ion: 83 Resp: 9963
 Ion Ratio Lower Upper
 83 100
 131 6.9 4.8 14.4
 85 64.7 32.4 97.2



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.14 ppbv
 RT: 16.30 min Scan# 2168
 Delta R.T. 0.01 min
 Lab File: VL025810.D
 Acq: 31 Jul 2015 12:58

Tgt Ion: 95 Resp: 1779438
 Ion Ratio Lower Upper
 95 100
 174 63.8 52.0 78.0
 175 4.9 3.9 5.9





#75

1,3-Dichlorobenzene

Concen: 0.05 ppbv

RT: 19.14 min Scan# 2633

Delta R.T. 0.02 min

Lab File: VL025810.D

Acq: 31 Jul 2015 12:58

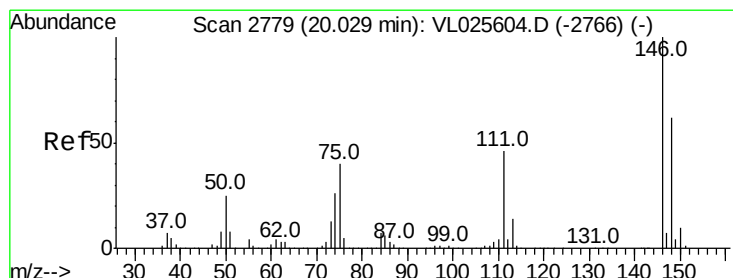
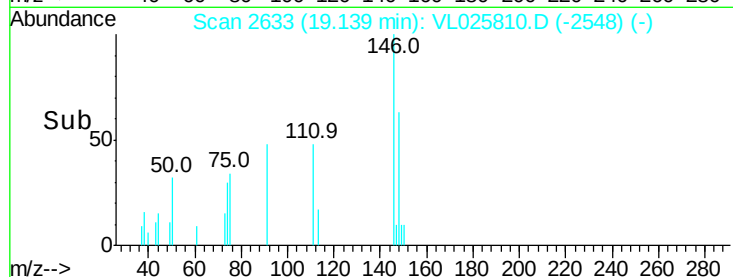
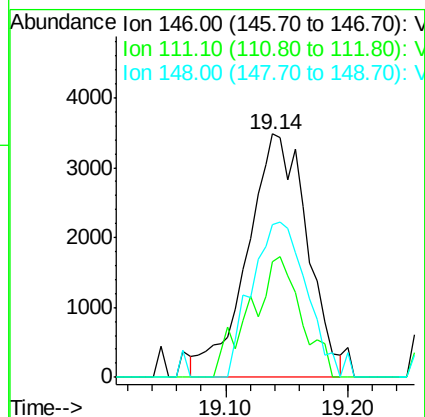
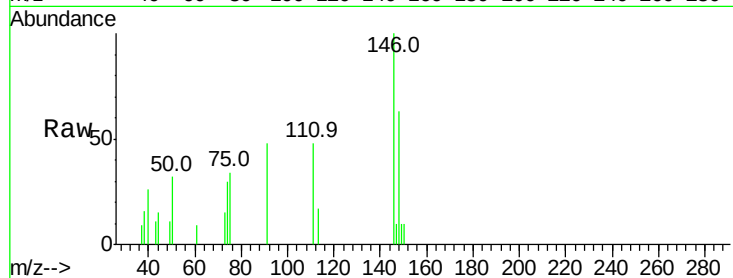
Instrument :

MSVOA_L

ClientSampleId :

QC073015 CAN 10060

Tgt Ion:	146	Resp:	11815
Ion	Ratio	Lower	Upper
146	100		
111	42.7	22.7	68.1
148	59.4	31.8	95.3



#77

1,2-Dichlorobenzene

Concen: 0.04 ppbv

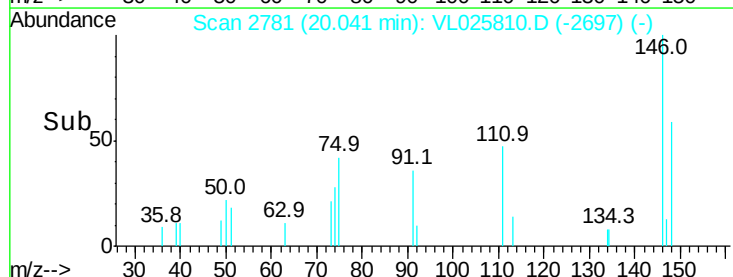
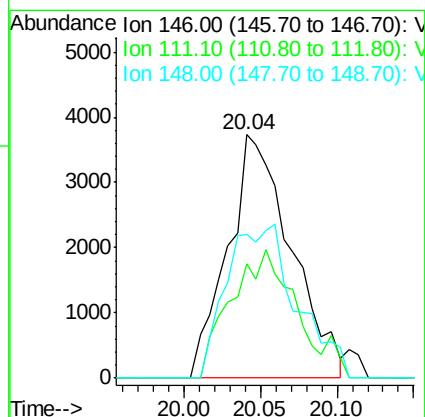
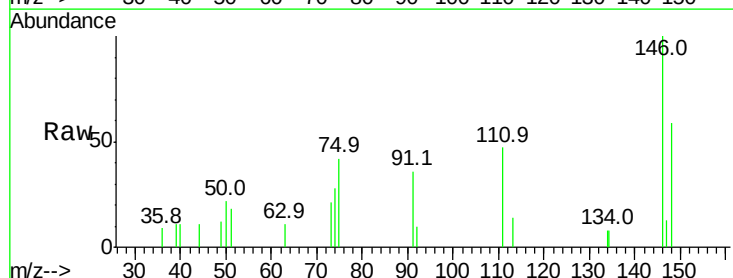
RT: 20.04 min Scan# 2781

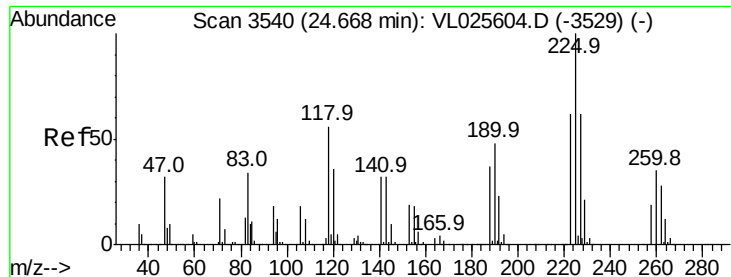
Delta R.T. 0.01 min

Lab File: VL025810.D

Acq: 31 Jul 2015 12:58

Tgt Ion:	146	Resp:	10743
Ion	Ratio	Lower	Upper
146	100		
111	55.2	23.4	70.3
148	69.4	31.6	94.8





#78

Hexachloro-1,3-Butadiene

Concen: 0.05 ppbv

RT: 24.69 min Scan# 3543

Delta R.T. 0.02 min

Lab File: VL025810.D

Acq: 31 Jul 2015 12:58

Instrument :

MSVOA_L

ClientSampleId :

QC073015 CAN 10060

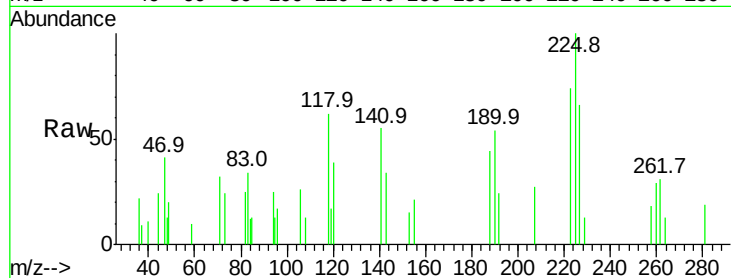
Tgt Ion:225 Resp: 8012

Ion Ratio Lower Upper

225 100

223 64.5 50.6 76.0

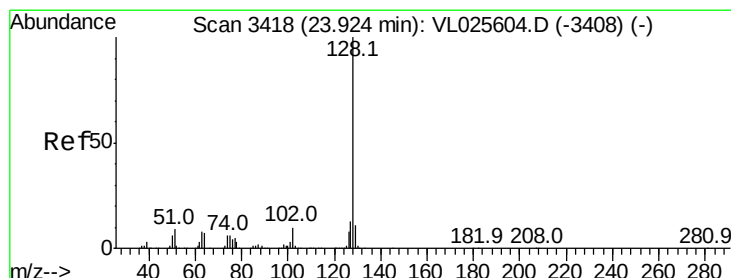
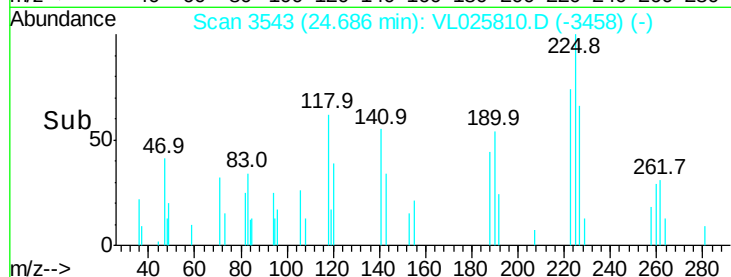
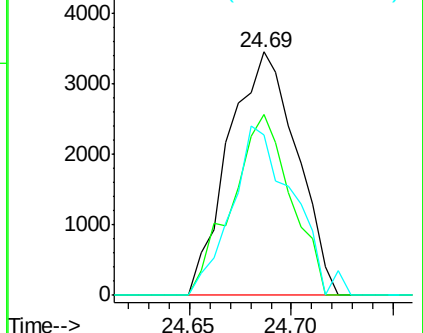
227 62.7 50.5 75.7



Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V



#79

Naphthalene

Concen: 0.06 ppbv

RT: 23.96 min Scan# 3424

Delta R.T. 0.04 min

Lab File: VL025810.D

Acq: 31 Jul 2015 12:58

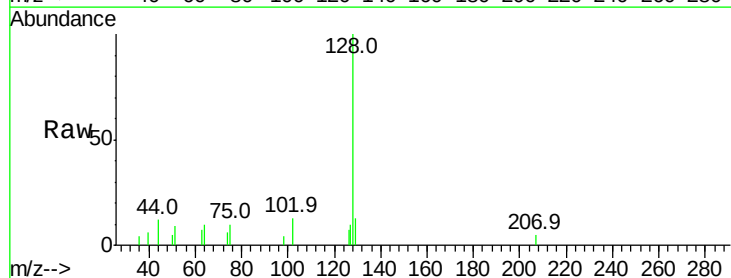
Tgt Ion:128 Resp: 21941

Ion Ratio Lower Upper

128 100

127 9.5 10.8 16.2#

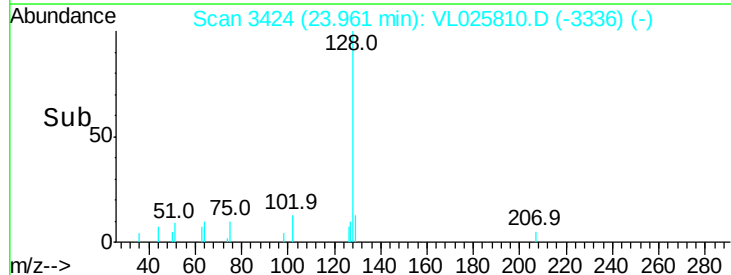
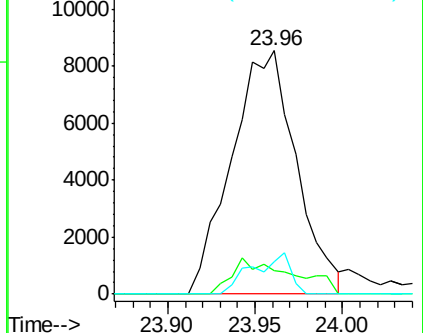
129 13.1 9.0 13.4

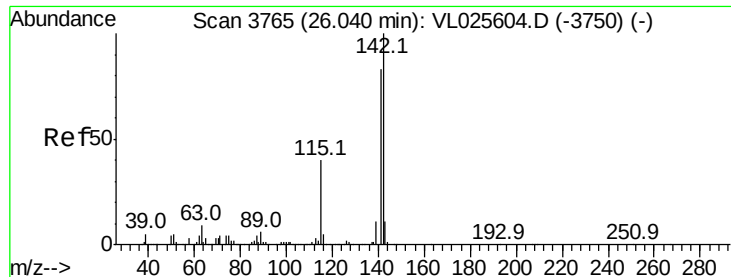


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

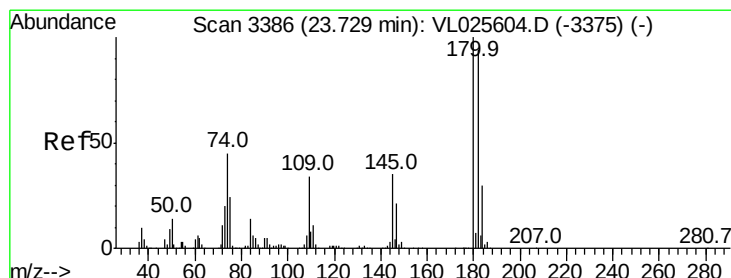
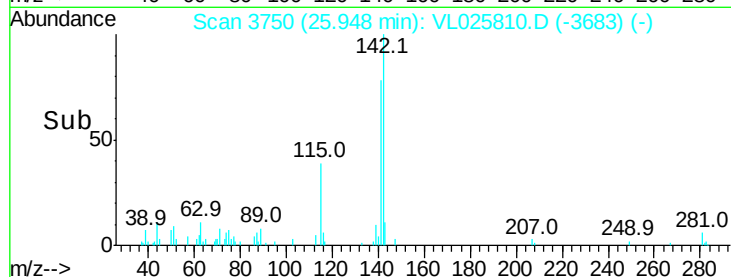
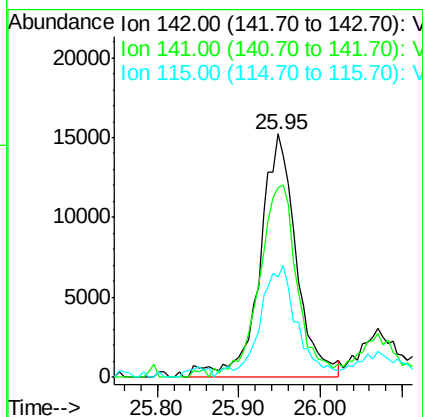
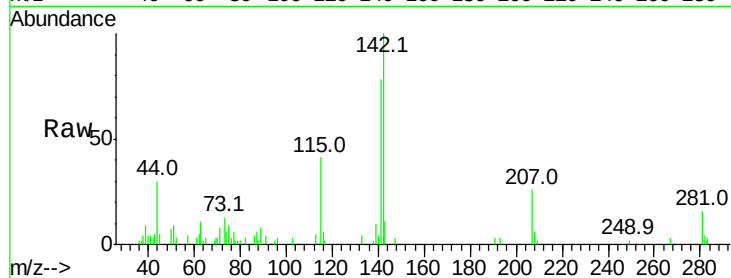




#80
Naphthalene, 2-methyl-
Concen: 0.42 ppbv
RT: 25.95 min Scan# 3750
Delta R.T. -0.09 min
Lab File: VL025810.D
Acq: 31 Jul 2015 12:58

Instrument :
MSVOA_L
ClientSampleId :
QC073015 CAN 10060

Tgt Ion:142 Resp: 47136
Ion Ratio Lower Upper
142 100
141 83.6 67.1 100.7
115 49.5 33.9 50.9



#81
1,2,4-Trichlorobenzene
Concen: 0.07 ppbv
RT: 23.75 min Scan# 3389
Delta R.T. 0.02 min
Lab File: VL025810.D
Acq: 31 Jul 2015 12:58

Tgt Ion:180 Resp: 12656
Ion Ratio Lower Upper
180 100
182 88.6 76.1 114.1
184 31.1 24.4 36.6

