

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL070715\
 Data File : VL025611.D
 Acq On : 7 Jul 2015 15:54
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVV070715

Manual Integrations
 APPROVED

sam
 7/8/2015 11:06:09 AM

Quant Time: Jul 07 16:33:31 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 07 2015
 QLast Update : Tue Jul 07 15:16:09 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.67	49	650809	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	8.34	114	1753527	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.76	117	2334149m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.30	95	1926937	9.79	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.64	85	1505230	8.93	ppbv	97
3) Chlorodifluoromethane	3.57	51	731710	7.98	ppbv	99
4) Chloromethane	3.75	50	331794	7.93	ppbv	99
5) Vinyl Chloride	3.89	62	370235	8.19	ppbv	99
6) Bromomethane	4.15	94	312756	8.53	ppbv	93
7) Chloroethane	4.25	64	173599	8.25	ppbv	95
8) Dichlorotetrafluoroethane	3.81	85	1201682	8.13	ppbv	100
9) Propene	3.60	41	253625	8.32	ppbv	99
10) Heptane	9.36	43	1055573	8.90	ppbv	98
11) Trichlorofluoromethane	4.70	101	1876736	8.58	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	5.31	101	1050735	8.38	ppbv	99
13) Ethanol	4.34	45	30930m	6.53	ppbv	
14) Bromoethene	4.45	108	336662	8.18	ppbv	97
15) Acetone	4.60	43	960828	8.36	ppbv	100
16) 1,3-Butadiene	3.97	39	382275	8.35	ppbv	100
17) tert-Butyl alcohol	5.13	59	799193	8.28	ppbv	100
18) 1,1-Dichloroethene	5.09	96	396302	8.25	ppbv	99
19) Isopropyl Alcohol	4.75	45	335918	7.32	ppbv #	97
20) Methylene Chloride	5.15	84	367737	7.87	ppbv	93
21) Allyl Chloride	5.23	41	575540	8.00	ppbv	96
22) trans-1,2-Dichloroethene	5.77	96	401126	8.18	ppbv	98
23) Vinyl Acetate	5.99	43	1549412	8.89	ppbv	99
24) 1,1-Dichloroethane	5.92	63	984811	8.43	ppbv	99
25) Ethyl Acetate	6.68	43	1505960	8.66	ppbv	99
26) Hexane	6.67	57	718792	8.78	ppbv	98
27) Carbon Disulfide	5.39	76	1128742	8.51	ppbv	100
28) Methyl tert-Butyl Ether	5.96	73	1444514	8.87	ppbv	99
29) Chloroform	6.76	83	1364856	8.44	ppbv	99
30) Cyclohexane	8.29	84	690551	8.82	ppbv	99
31) cis-1,2-Dichloroethene	6.53	61	726345	8.92	ppbv	97
32) 1,1,1-Trichloroethane	7.60	97	1546867	9.11	ppbv	100
34) 2-Butanone	6.20	43	892418	8.97	ppbv	99
35) Carbon Tetrachloride	8.17	117	1652230	8.84	ppbv	100
36) Benzene	8.03	78	1498275	8.92	ppbv	99
37) 1,2-Dichloroethane	7.38	62	1232352	8.59	ppbv	100
38) Trichloroethene	9.07	130	696054	8.91	ppbv	99
39) 1,2-Dichloropropane	8.84	63	532998	8.59	ppbv	95
40) 1,4-Dioxane	9.12	88	104250	10.72	ppbv #	30
41) Tetrahydrofuran	7.12	42	449049	9.04	ppbv	98
42) Bromodichloromethane	9.04	83	1565312	9.05	ppbv	99
43) Methyl Methacrylate	9.27	69	620522	9.63	ppbv	98

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sam
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Quant Time: Jul 07 16:33:31 2015
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 07 2015
 QLast Update : Tue Jul 07 15:16:09 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.10	57	2581110	8.96	ppbv	99
45) t-1,3-Dichloropropene	10.66	75	1013298	9.35	ppbv	99
46) cis-1,3-Dichloropropene	10.03	75	1134681	9.47	ppbv	99
47) 1,1,2-Trichloroethane	10.89	97	755438	8.75	ppbv	99
48) Dibromochloromethane	11.81	129	1414156	9.16	ppbv	98
49) Bromoform	14.83	173	1161842	9.12	ppbv	99
50) 4-Methyl-2-Pentanone	10.10	43	1370238	9.56	ppbv	100
51) 2-Hexanone	11.63	43	1319426	10.26	ppbv #	98
52) Tetrachloroethene	12.80	164	789583	9.37	ppbv	97
53) Toluene	11.25	91	2249190	9.53	ppbv	99
54) 1,2-Dibromoethane	12.15	107	1231130	8.82	ppbv	99
56) 1,1,1,2-Tetrachloroethane	13.80	131	1063755	8.43	ppbv	99
57) Chlorobenzene	13.82	112	2013578	8.11	ppbv	98
58) Ethyl Benzene	14.43	91	3524849	9.14	ppbv	99
59) m/p-Xylene	14.73	91	5891054	17.39	ppbv	99
60) o-Xylene	15.51	91	3113120	8.53	ppbv	100
61) Styrene	15.32	104	1330400	10.41	ppbv	99
62) Isopropylbenzene	16.56	105	4176531	8.76	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.50	83	1953587	7.92	ppbv	100
64) n-propylbenzene	17.54	120	1138723	8.83	ppbv	98
65) tert-Butylbenzene	18.83	119	3953049	8.44	ppbv	99
66) Benzyl Chloride	19.11	91	1220000	7.10	ppbv	100
67) sec-Butylbenzene	19.43	105	5642810	8.60	ppbv	100
69) p-Isopropyltoluene	19.80	119	4900119	9.06	ppbv	100
70) n-Butylbenzene	20.77	91	4852356	8.85	ppbv	99
71) 2-Chlorotoluene	17.44	91	3181190	9.09	ppbv	99
72) 4-Ethyltoluene	17.83	105	3682948	9.13	ppbv	99
73) 1,3,5-Trimethylbenzene	18.00	105	3557902	8.97	ppbv	98
74) 1,2,4-Trimethylbenzene	18.85	105	3726240	8.39	ppbv	98
75) 1,3-Dichlorobenzene	19.13	146	2368333	8.19	ppbv	100
76) 1,4-Dichlorobenzene	19.28	146	2428923	8.39	ppbv	99
77) 1,2-Dichlorobenzene	20.04	146	2360009	8.23	ppbv	99
78) Hexachloro-1,3-Butadiene	24.68	225	1333930	7.56	ppbv	99
79) Naphthalene	23.94	128	3404936	7.94	ppbv	99
80) Naphthalene, 2-methyl-	26.05	142	584866	4.69	ppbv	99
81) 1,2,4-Trichlorobenzene	23.74	180	1764598	8.58	ppbv	100

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

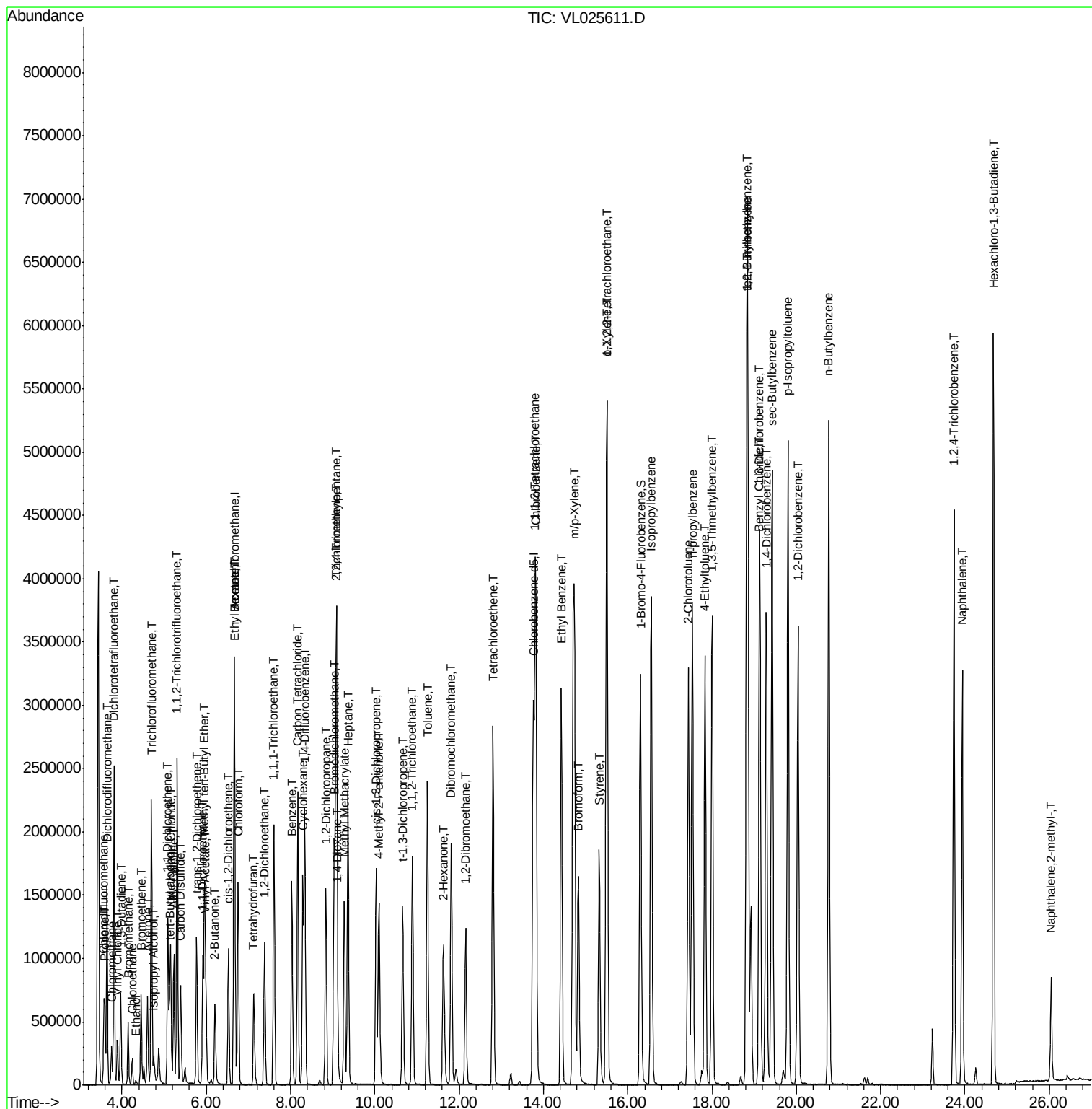
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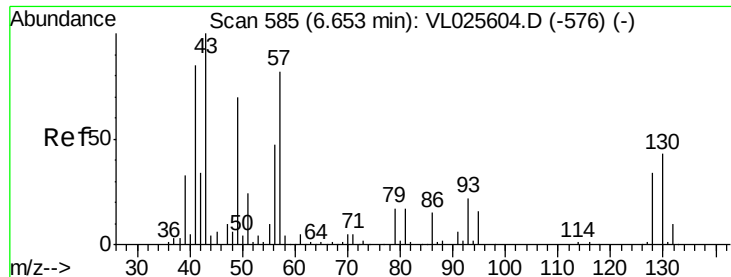
Instrument :
MSVOA_L
ClientSampleId :
ICVVL070715

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul
QLast Update : Tue Jul 07 15:16:09 2015
Response via : Initial Calibration





#1

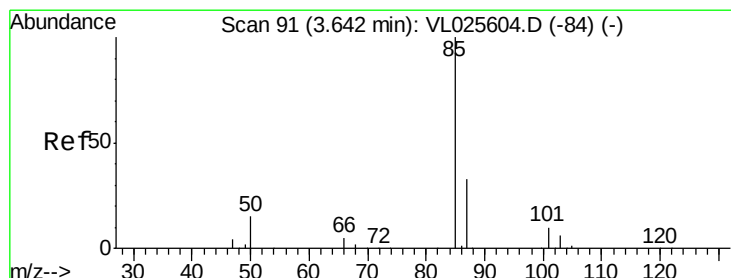
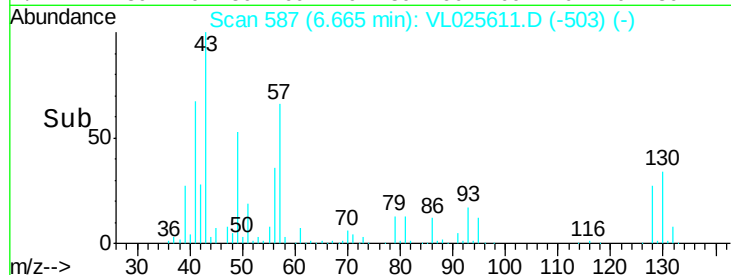
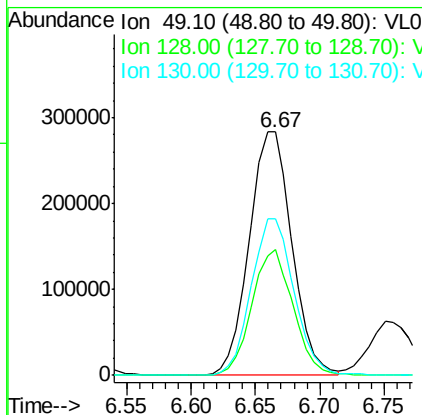
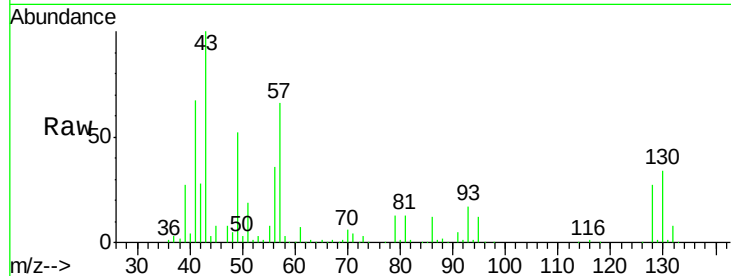
Bromochloromethane
Concen: 10.00 ppbv
RT: 6.67 min Scan# 587
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL070715

Tot Ion	Ratio	Lower	Upper
49	100		
128	50.4	25.4	76.0
130	64.8	31.9	95.9

Manual Integrations
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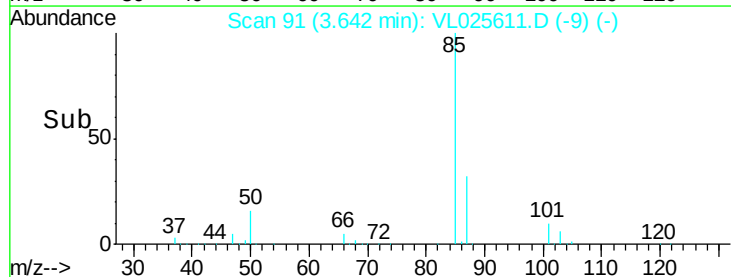
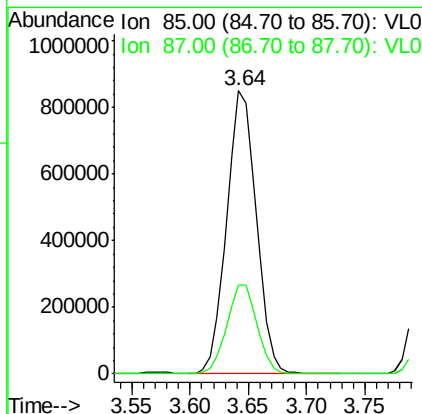
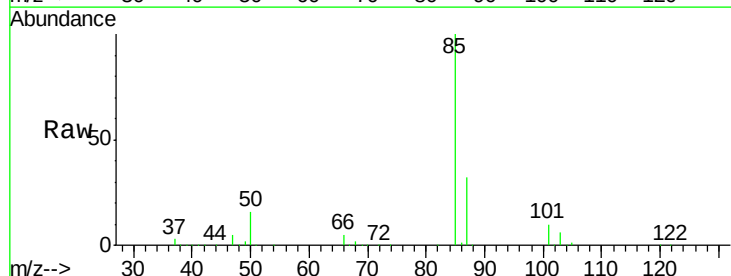
sam
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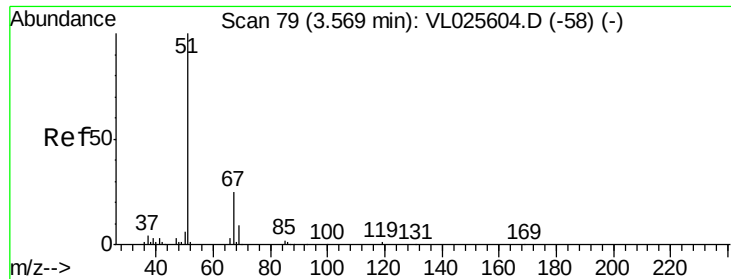


#2

Dichlorodifluoromethane
Concen: 8.93 ppbv
RT: 3.64 min Scan# 91
Delta R.T. -0.00 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.6	26.5	39.7





#3

Chlorodifluoromethane

Concen: 7.98 ppbv

RT: 3.57 min Scan# 80

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL070715

Tot Ion: 51 Resp: 731710

Ion Ratio Lower Upper

51 100

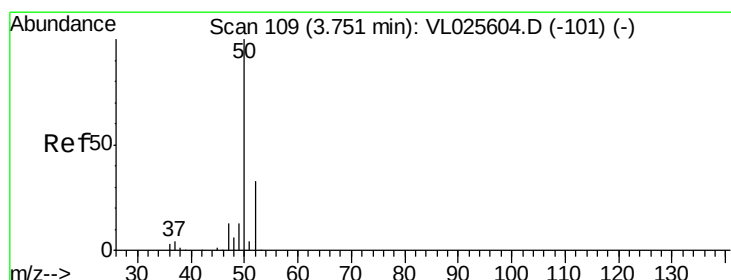
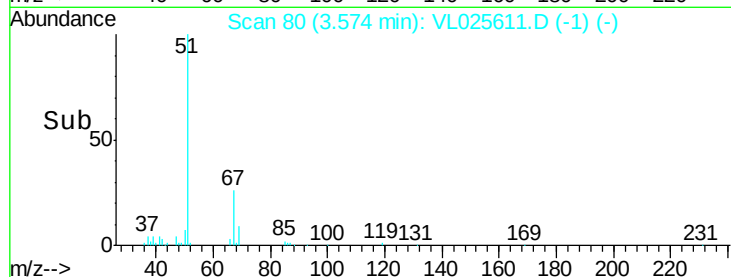
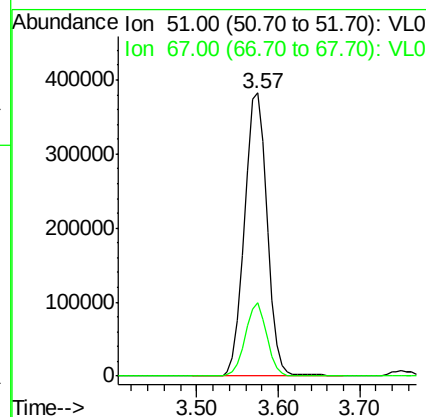
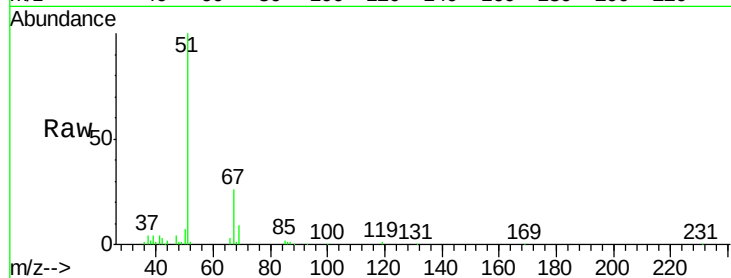
67 24.8 19.5 29.3

Manual Integrations

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#4

Chloromethane

Concen: 7.93 ppbv

RT: 3.75 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL025611.D

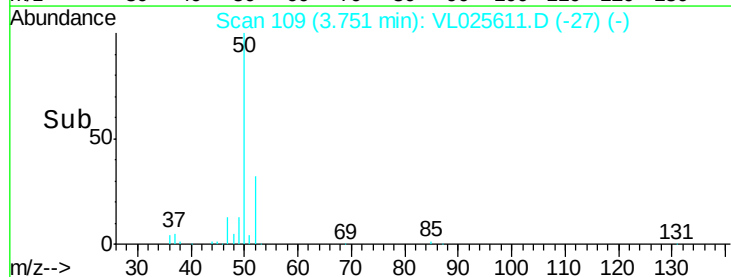
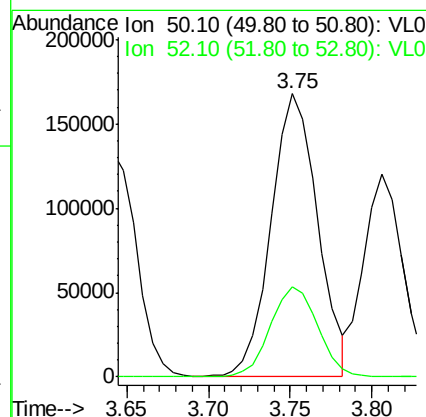
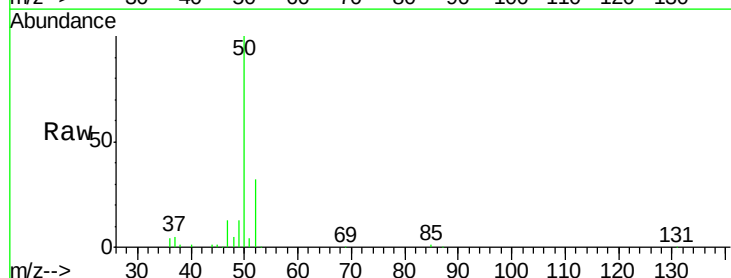
Acq: 7 Jul 2015 15:54

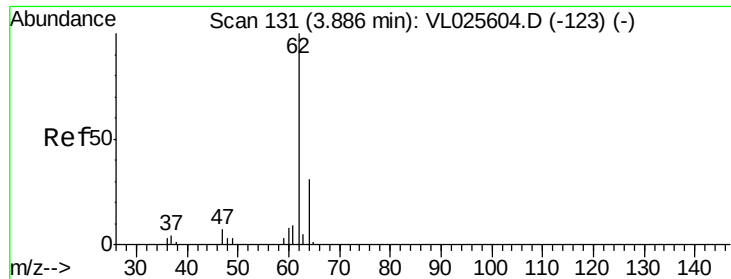
Tgt Ion: 50 Resp: 331794

Ion Ratio Lower Upper

50 100

52 32.2 26.2 39.2





#5

Vinyl Chloride

Concen: 8.19 ppbv

RT: 3.89 min Scan# 132

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Tot Ion: 62 Resp: 370235

Ion Ratio Lower Upper

62 100

64 30.6 25.0 37.6

Instrument :

MSVOA_L

ClientSampleId :

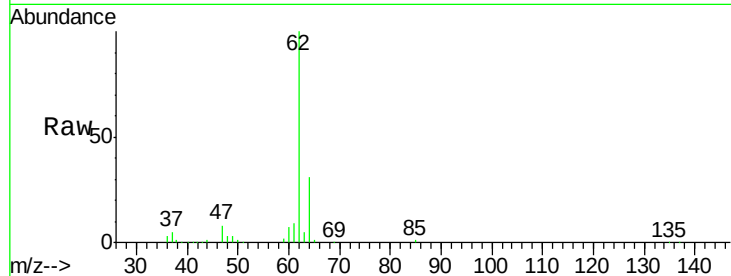
ICVVL070715

Manual Integrations

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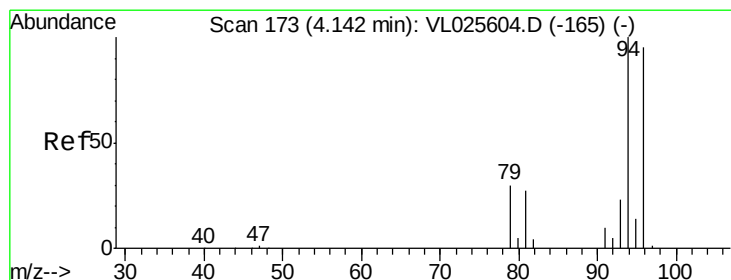
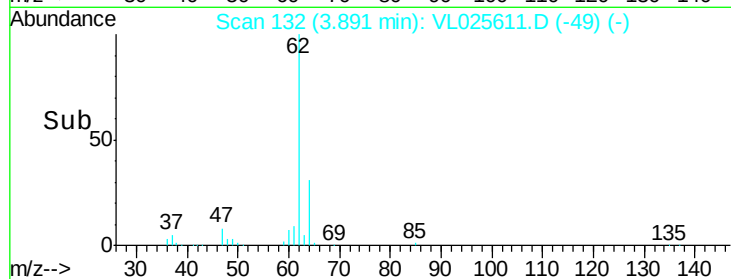
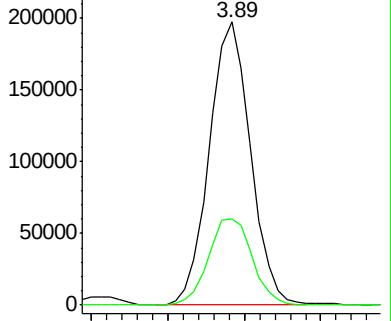
sam

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.53 ppbv

RT: 4.15 min Scan# 174

Delta R.T. 0.01 min

Lab File: VL025611.D

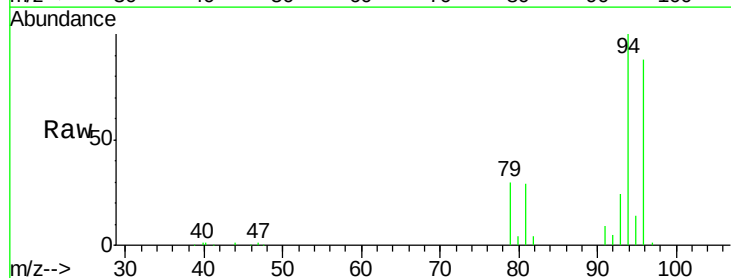
Acq: 7 Jul 2015 15:54

Tgt Ion: 94 Resp: 312756

Ion Ratio Lower Upper

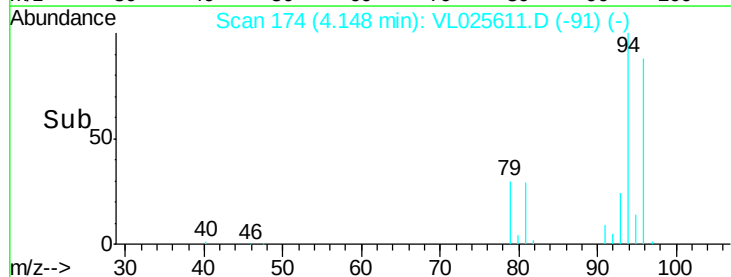
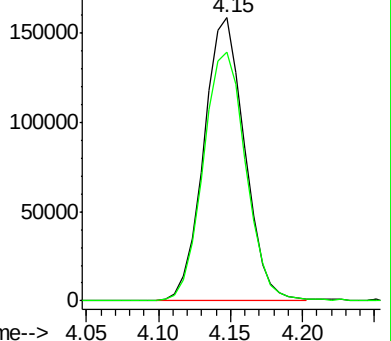
94 100

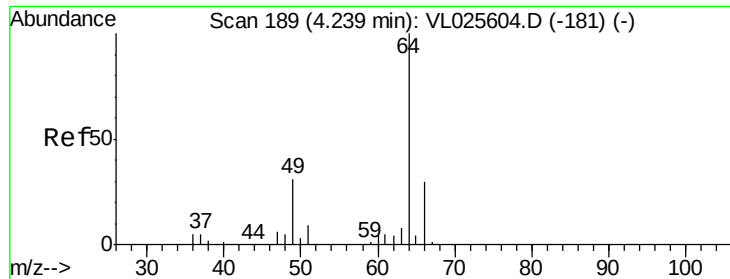
96 87.9 75.9 113.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.25 ppbv

RT: 4.25 min Scan# 190

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL070715

Tot Ion: 64 Resp: 173599

Ion Ratio Lower Upper

64 100

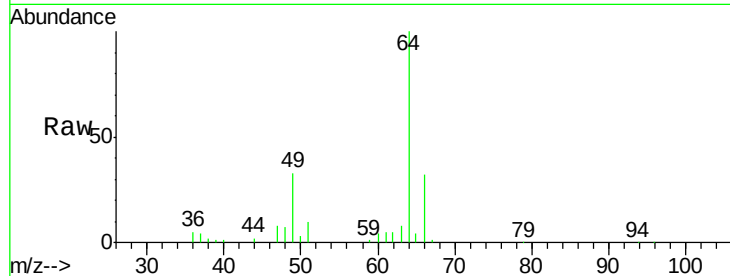
66 32.3 23.8 35.8

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

4.25

80000

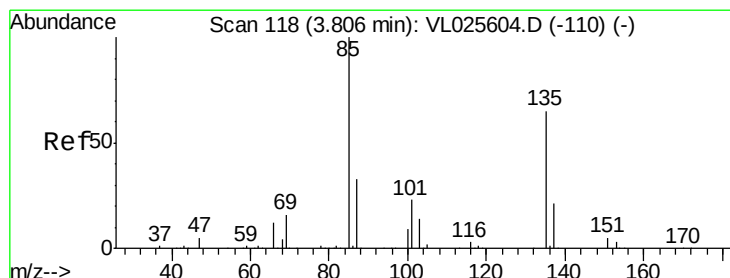
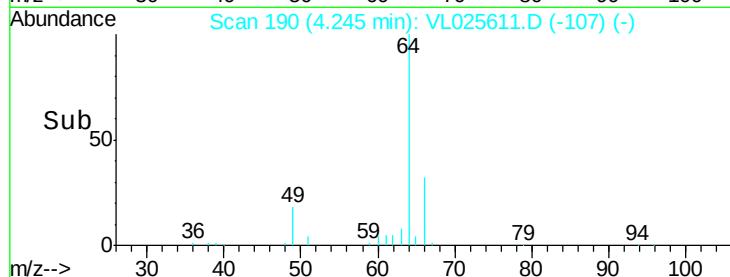
60000

40000

20000

0

Time--> 4.15 4.20 4.25 4.30



#8

Dichlorotetrafluoroethane

Concen: 8.13 ppbv

RT: 3.81 min Scan# 118

Delta R.T. -0.00 min

Lab File: VL025611.D

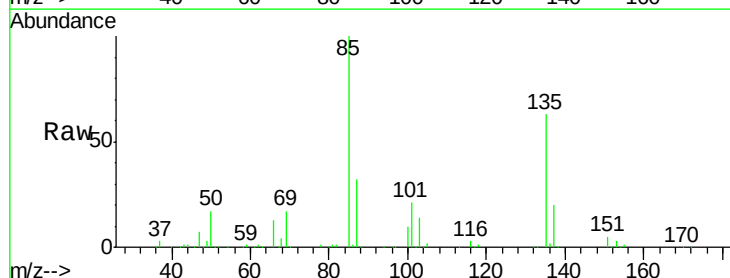
Acq: 7 Jul 2015 15:54

Tgt Ion: 85 Resp: 1201682

Ion Ratio Lower Upper

85 100

135 65.6 52.2 78.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.81

800000

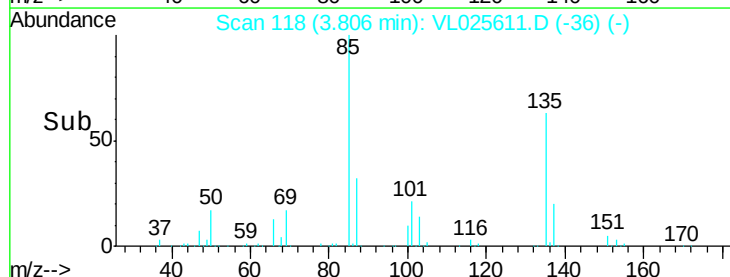
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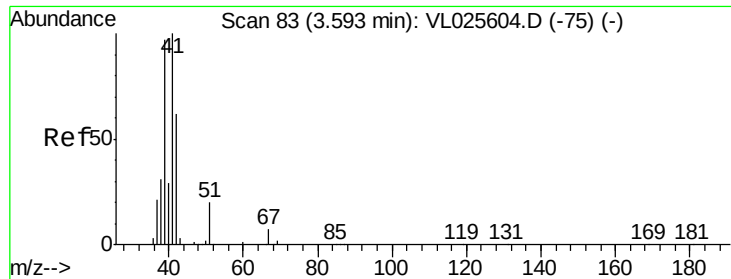
400000

200000

0

Time--> 3.75 3.80 3.85





#9

Propene

Concen: 8.32 ppbv

RT: 3.60 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL070715

Tot Ion: 41 Resp: 253625

Ion Ratio Lower Upper

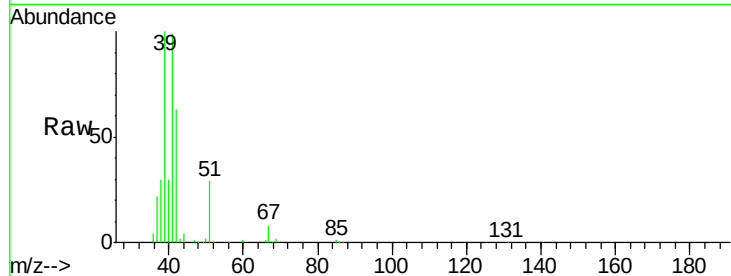
41 100

42 64.7 52.4 78.6

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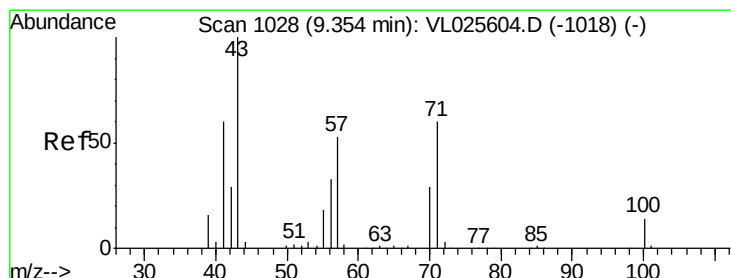
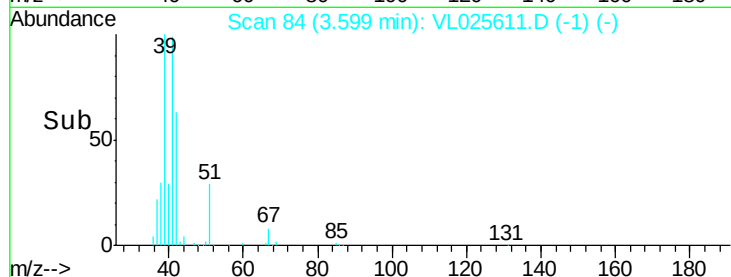
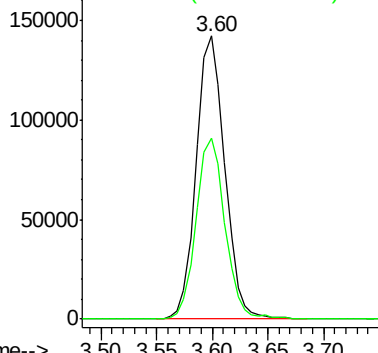
sam

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 8.90 ppbv

RT: 9.36 min Scan# 1029

Delta R.T. 0.01 min

Lab File: VL025611.D

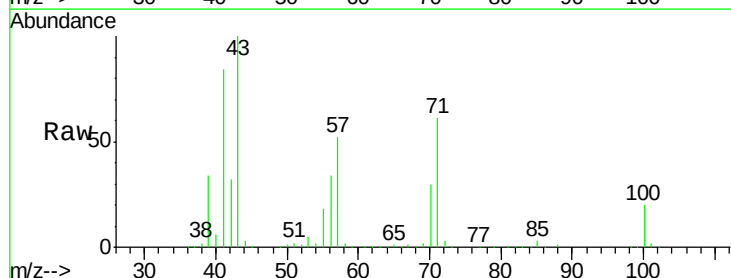
Acq: 7 Jul 2015 15:54

Tgt Ion: 43 Resp: 1055573

Ion Ratio Lower Upper

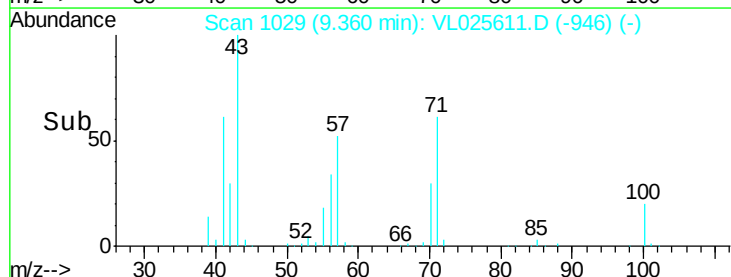
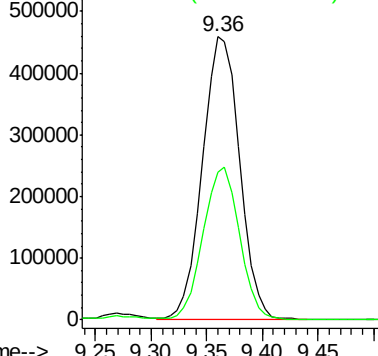
43 100

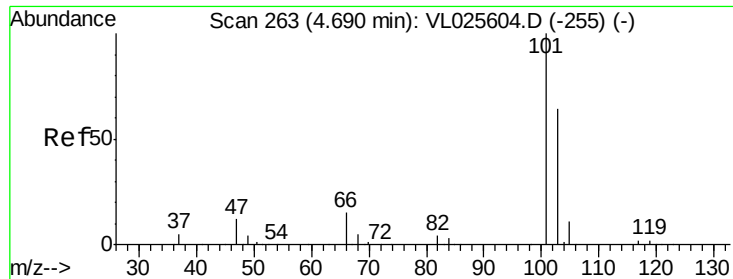
57 54.9 42.6 64.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 8.58 ppbv

RT: 4.70 min Scan# 264

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL070715

Tot Ion:101 Resp: 1876736

Ion Ratio Lower Upper

101 100

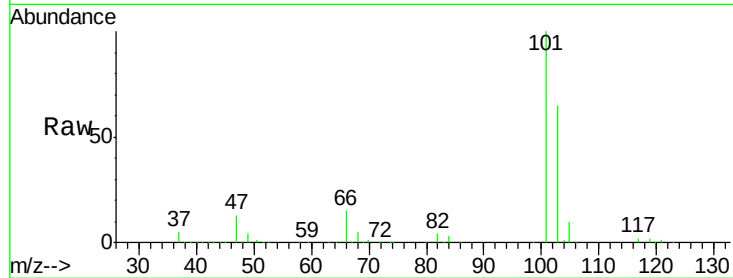
103 65.3 51.4 77.2

Manual Integrations

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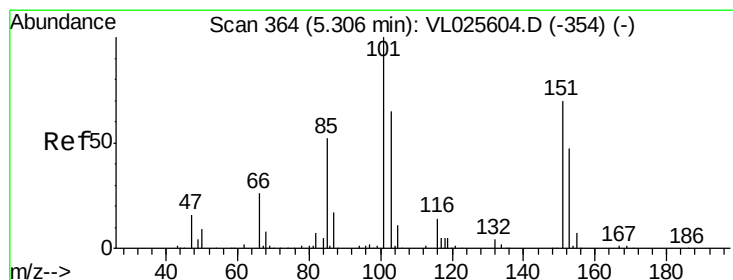
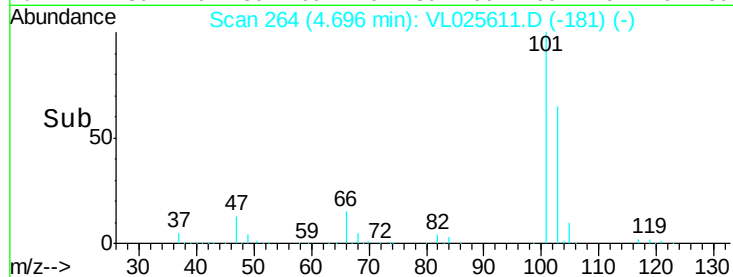
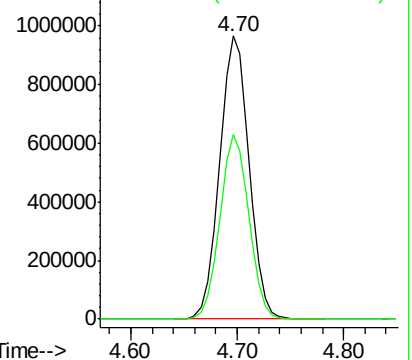
sam

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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: 8.38 ppbv

RT: 5.31 min Scan# 364

Delta R.T. -0.00 min

Lab File: VL025611.D

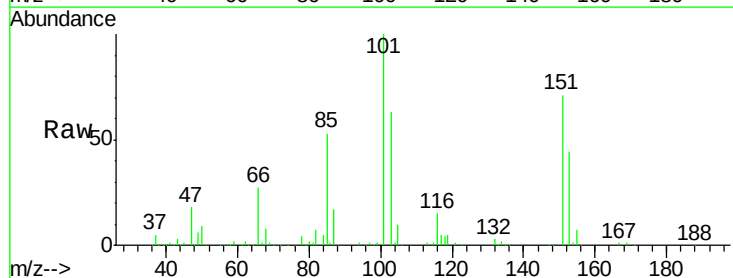
Acq: 7 Jul 2015 15:54

Tgt Ion:101 Resp: 1050735

Ion Ratio Lower Upper

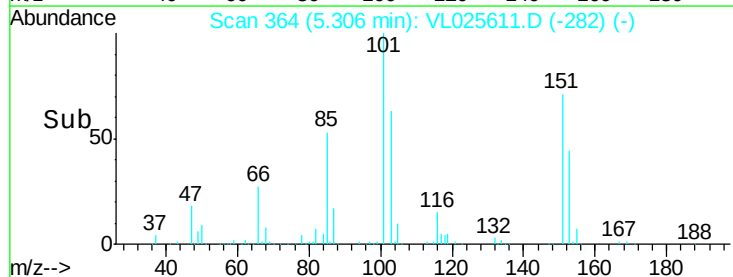
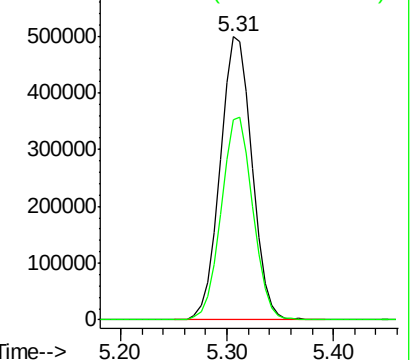
101 100

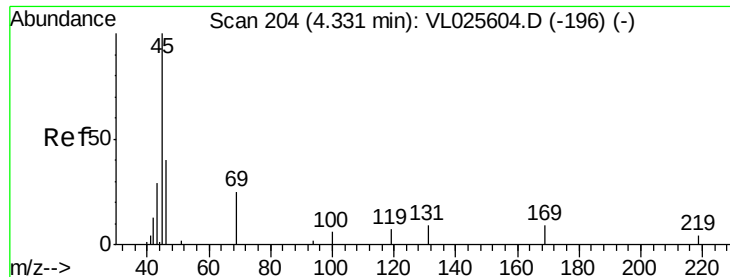
151 71.0 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





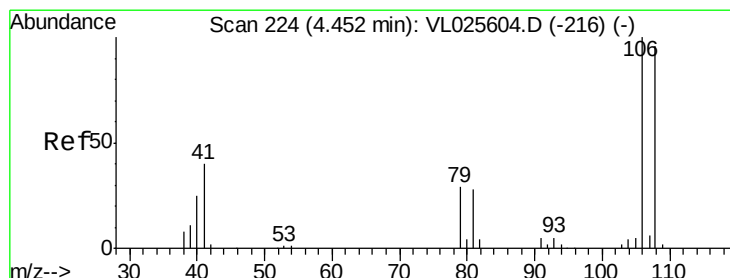
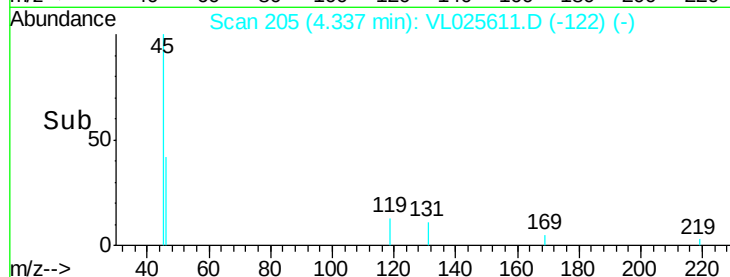
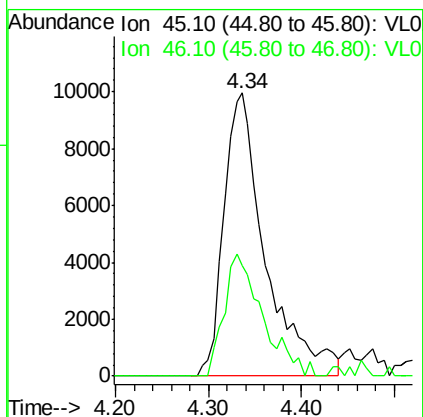
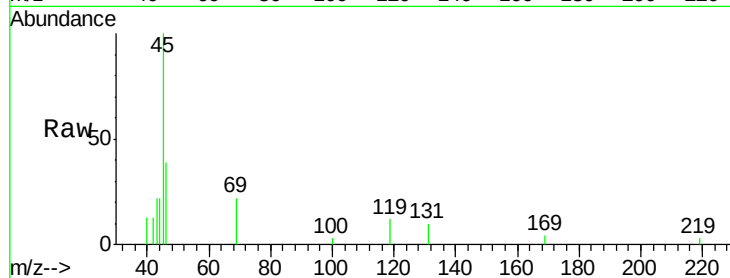
#13
Ethanol
Concen: 6.53 ppbv m
RT: 4.34 min Scan# 205
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL070715

Tot Ion: 45 Resp: 30930
Ion Ratio Lower Upper
45 100
46 39.9 16.0 64.0

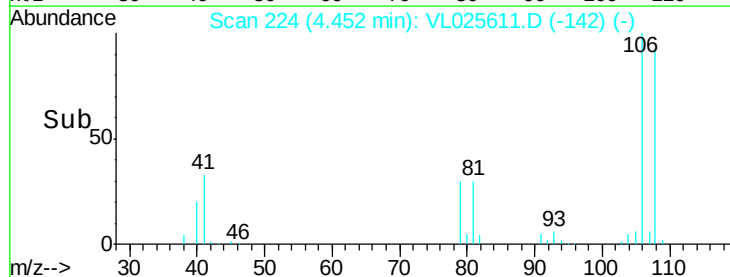
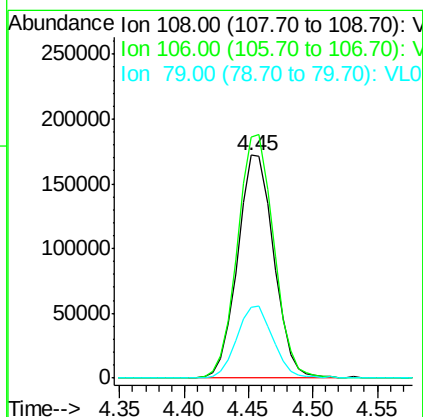
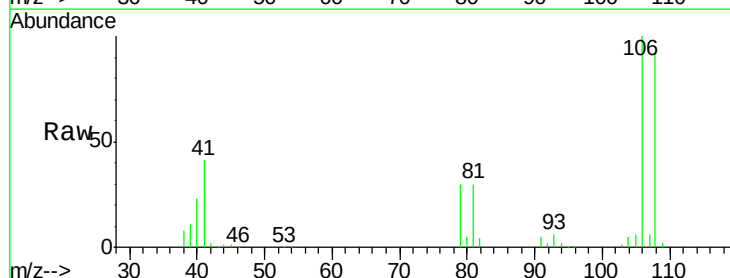
Manual Integrations
APPROVED

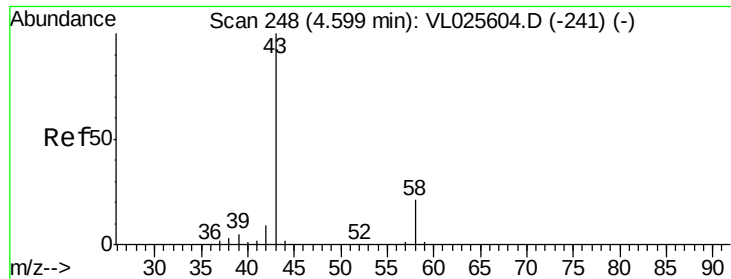
sam
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#14
Bromoethene
Concen: 8.18 ppbv
RT: 4.45 min Scan# 224
Delta R.T. -0.00 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Tgt Ion: 108 Resp: 336662
Ion Ratio Lower Upper
108 100
106 109.7 85.7 128.5
79 32.5 24.6 36.8





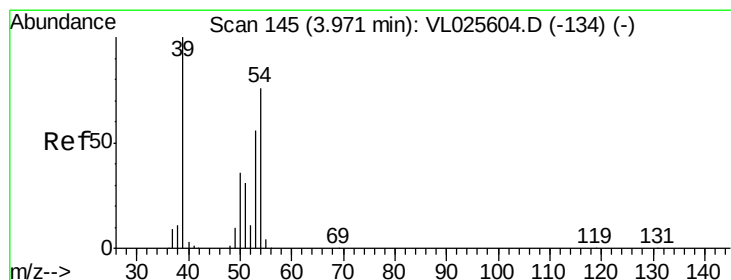
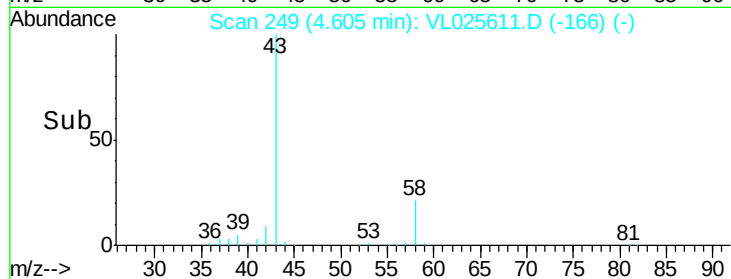
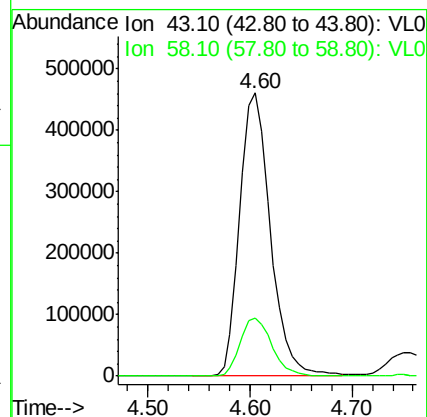
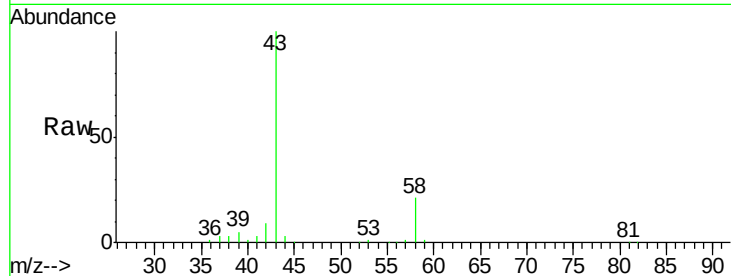
#15
Acetone
Concen: 8.36 ppbv
RT: 4.60 min Scan# 249
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL070715

Tot Ion: 43 Resp: 960828
Ion Ratio Lower Upper
43 100
58 21.6 17.2 25.8

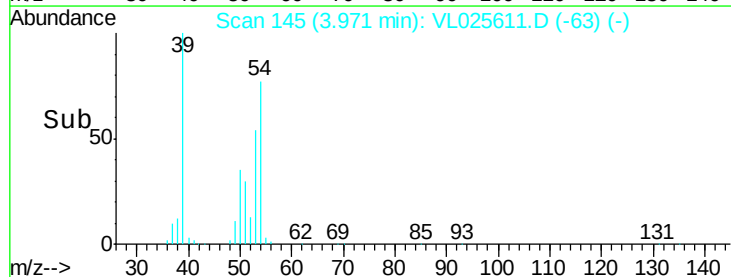
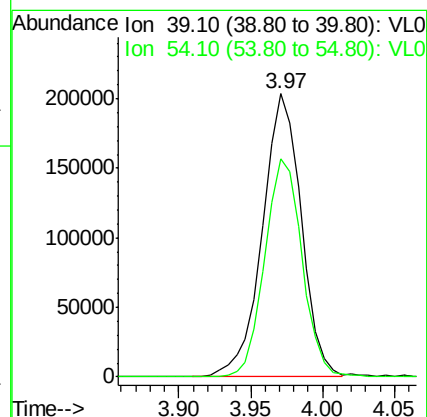
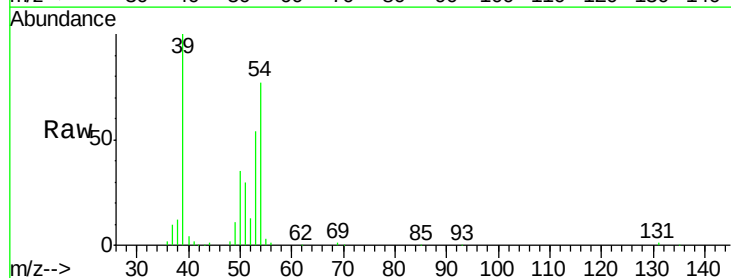
Manual Integrations
APPROVED

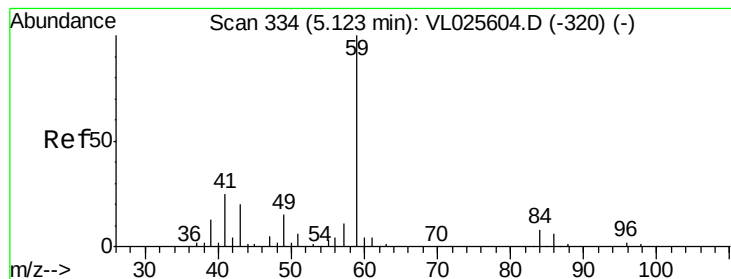
sam
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#16
1,3-Butadiene
Concen: 8.35 ppbv
RT: 3.97 min Scan# 145
Delta R.T. -0.00 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Tgt Ion: 39 Resp: 382275
Ion Ratio Lower Upper
39 100
54 73.8 59.3 88.9





#17

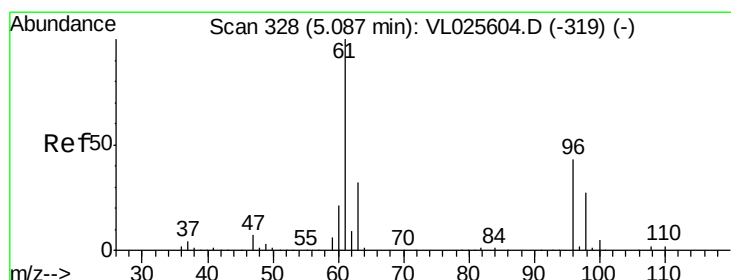
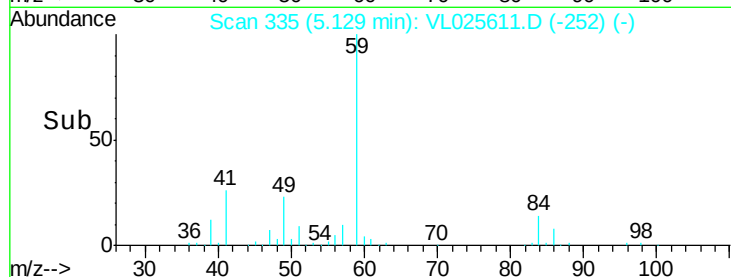
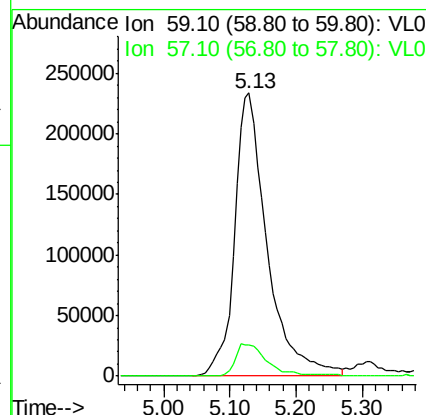
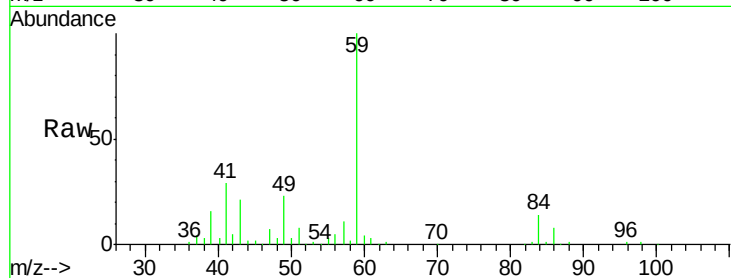
tert-Butyl alcohol
Concen: 8.28 ppbv
RT: 5.13 min Scan# 335
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL070715

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.7	9.4	14.2

Manual Integrations
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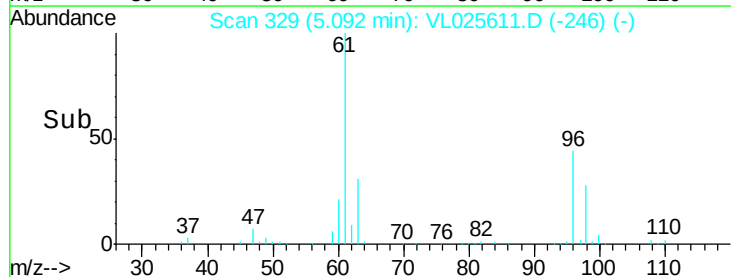
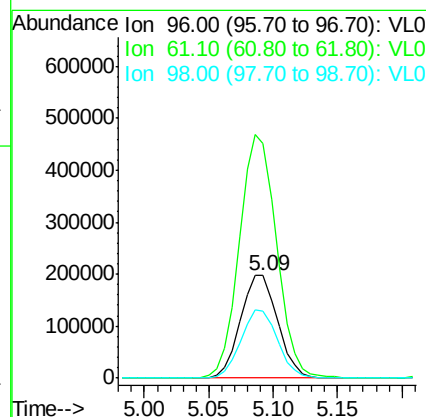
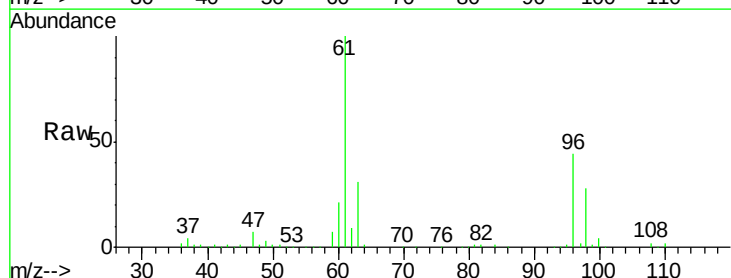
sam
7/8/2015 11:06:09 AM

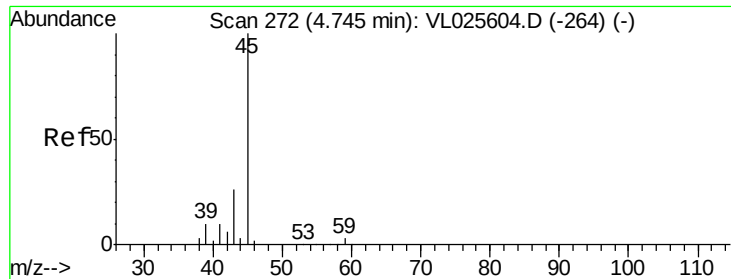


#18

1,1-Dichloroethene
Concen: 8.25 ppbv
RT: 5.09 min Scan# 329
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Tgt Ion	Ratio	Lower	Upper
96	100		
61	228.7	184.1	276.1
98	64.8	50.0	75.0





#19

Isopropyl Alcohol

Concen: 7.32 ppbv

RT: 4.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL070715

Tot Ion: 45 Resp: 335918

Ion Ratio Lower Upper

45 100

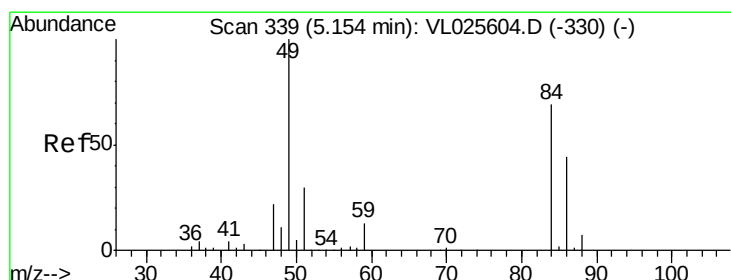
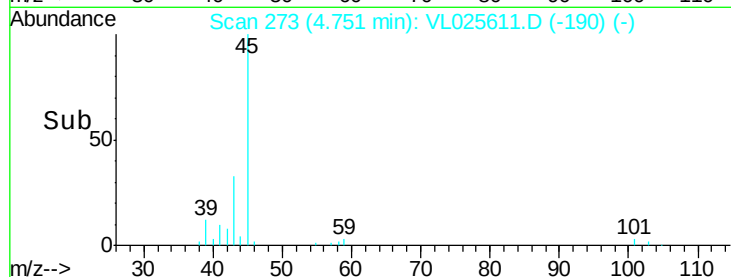
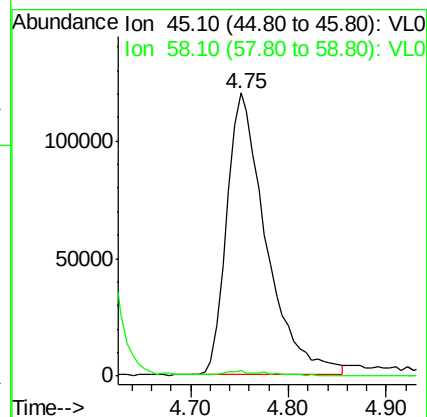
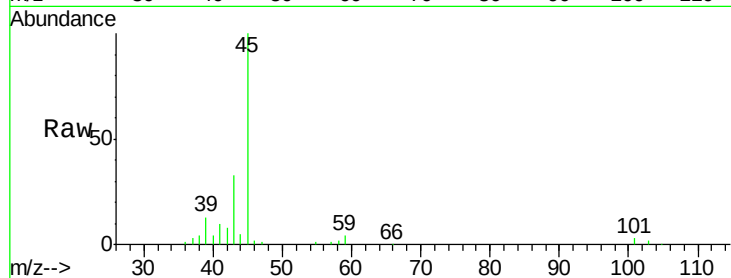
58 2.4 1.1 1.7#

Manual Integrations

APPROVED

sam

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#20

Methylene Chloride

Concen: 7.87 ppbv

RT: 5.15 min Scan# 339

Delta R.T. -0.00 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Tgt Ion: 84 Resp: 367737

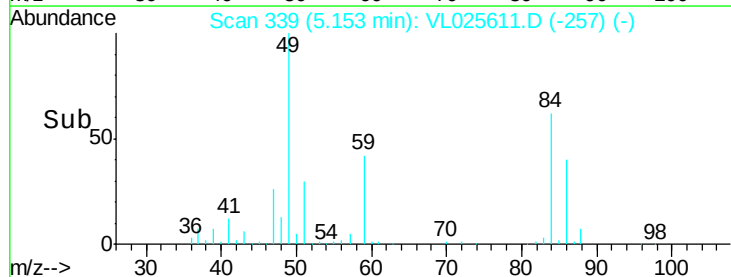
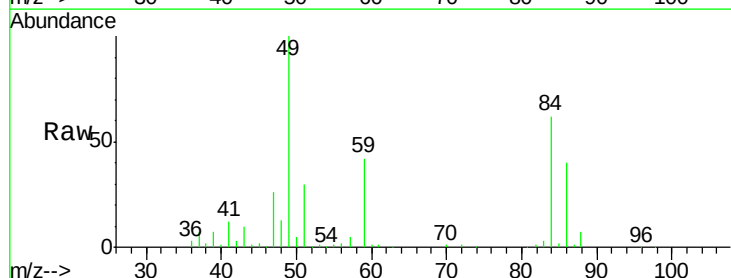
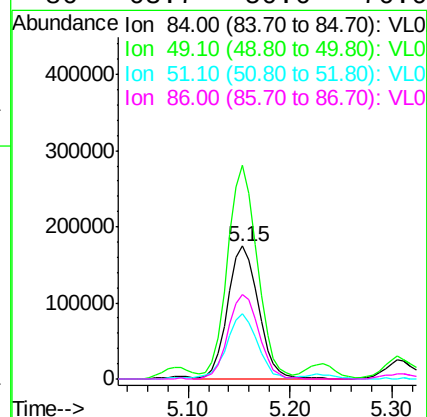
Ion Ratio Lower Upper

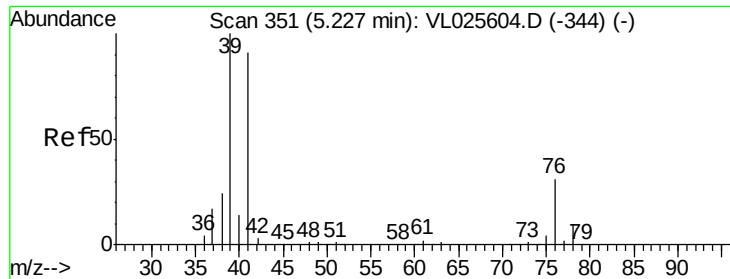
84 100

49 157.7 115.2 172.8

51 47.5 35.0 52.6

86 63.7 50.6 76.0





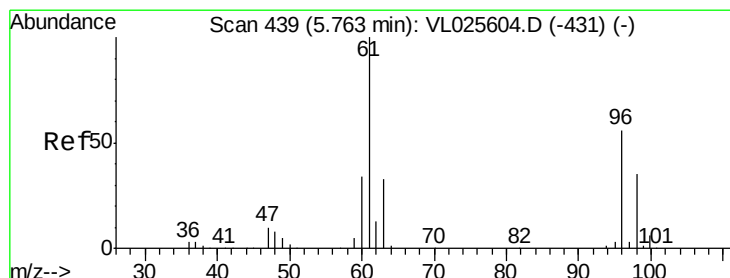
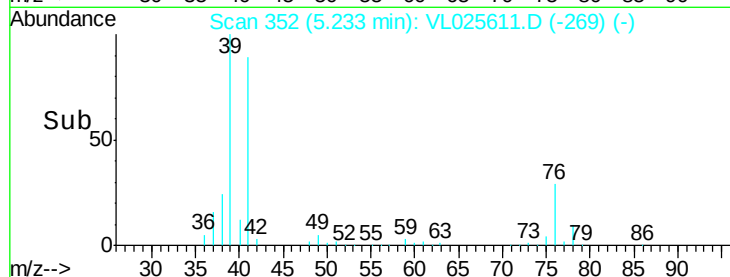
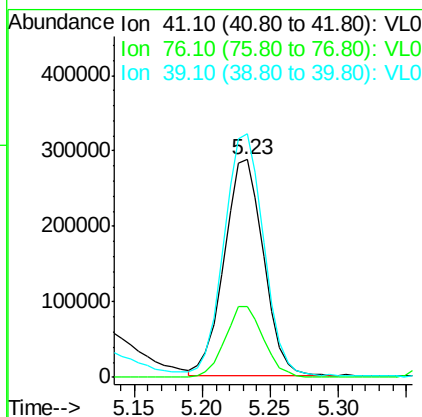
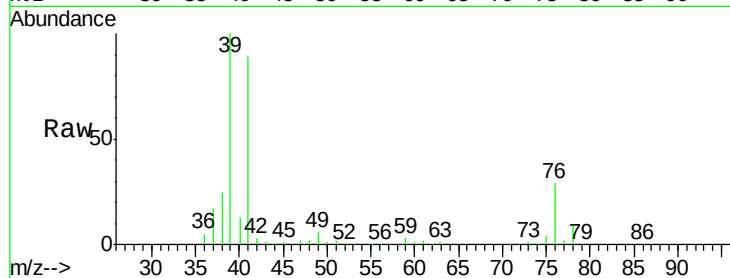
#21
Allvl Chloride
Concen: 8.00 ppbv
RT: 5.23 min Scan# 352
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL070715

Tot Ion	Ratio	Lower	Upper
41	100		
76	32.4	26.6	40.0
39	115.8	88.2	132.4

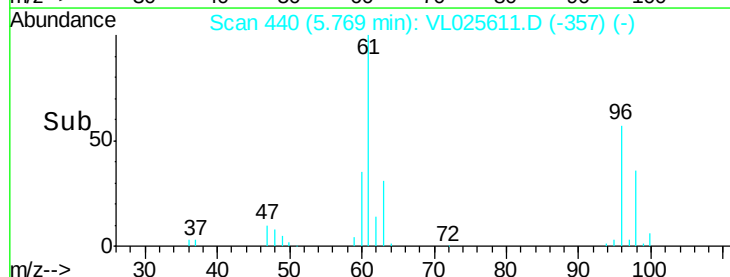
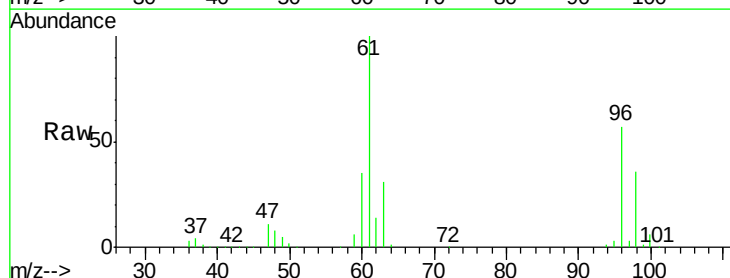
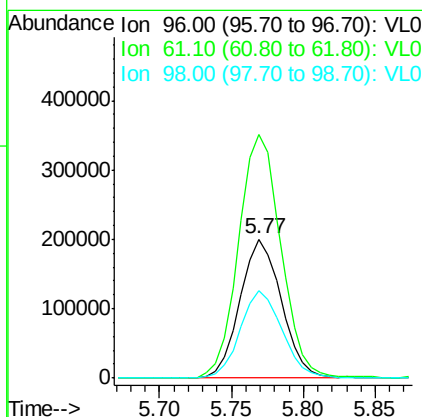
Manual Integrations
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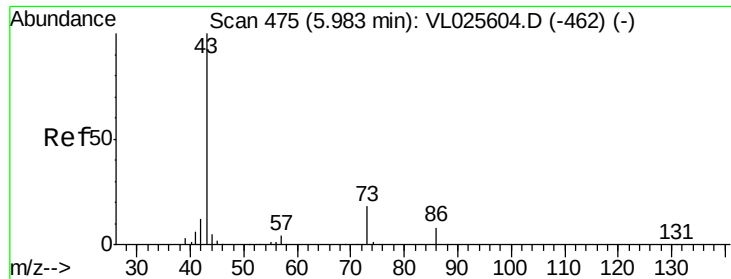
sam
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#22
trans-1,2-Dichloroethene
Concen: 8.18 ppbv
RT: 5.77 min Scan# 440
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Tgt Ion	Ratio	Lower	Upper
96	100		
61	174.7	141.8	212.6
98	63.1	49.0	73.6





#23

Vinyl Acetate

Concen: 8.89 ppbv

RT: 5.99 min Scan# 476

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL070715

Tot Ion: 43 Resp: 1549412

Ion Ratio Lower Upper

43 100

86 8.0 6.7 10.1

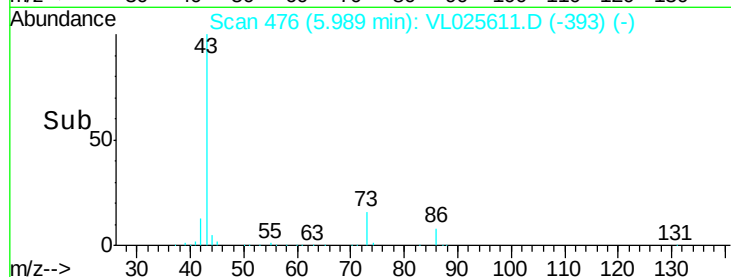
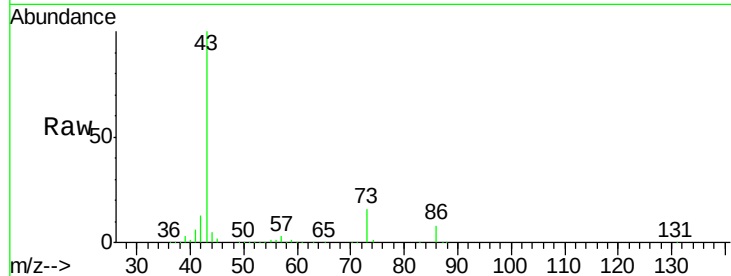
42 12.7 9.8 14.6

44 5.3 4.1 6.1

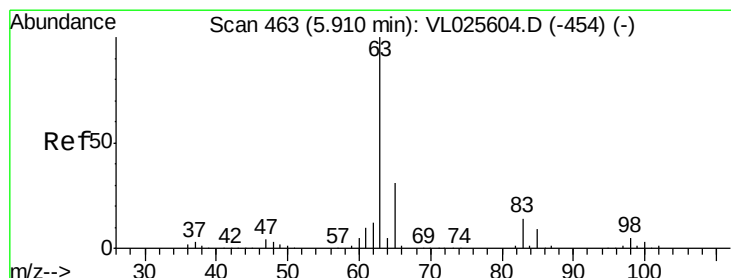
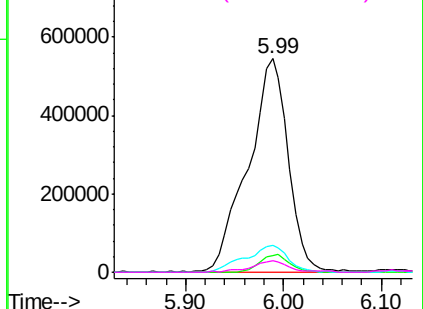
Manual Integrations
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 8.43 ppbv

RT: 5.92 min Scan# 464

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

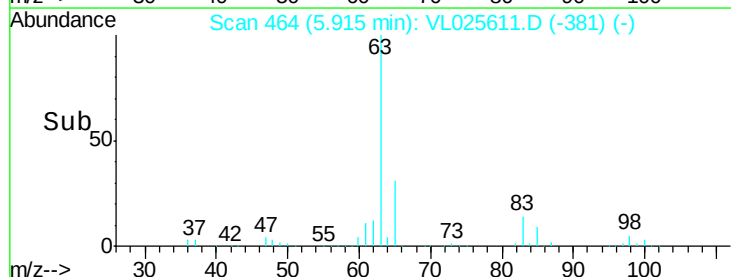
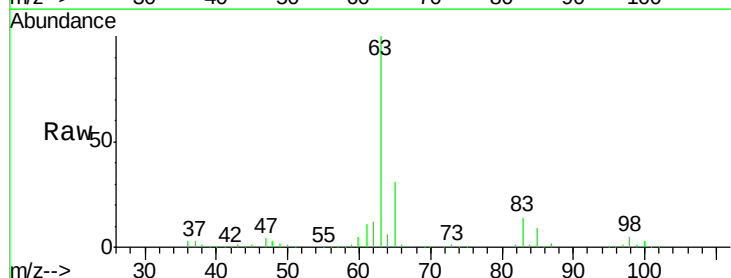
Tgt Ion: 63 Resp: 984811

Ion Ratio Lower Upper

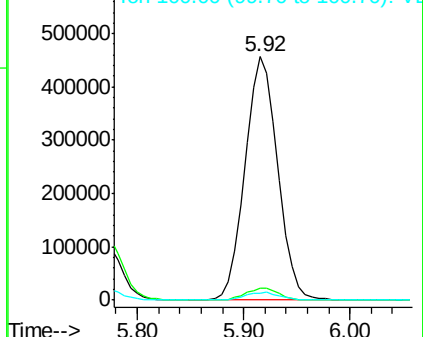
63 100

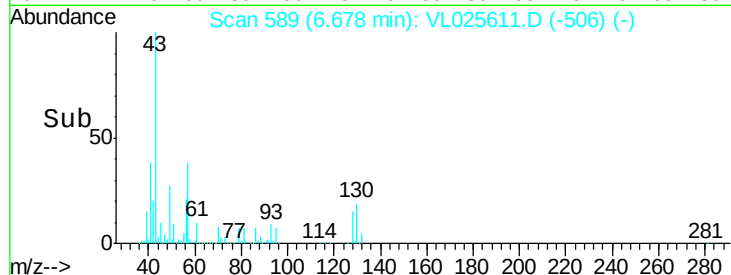
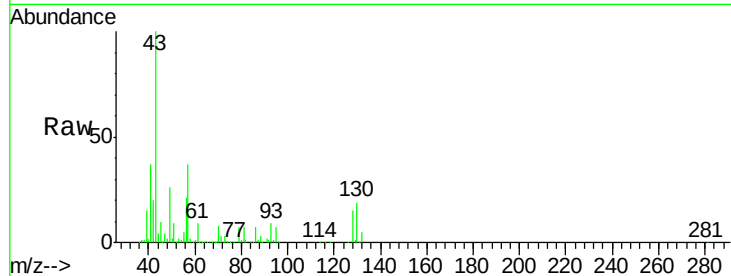
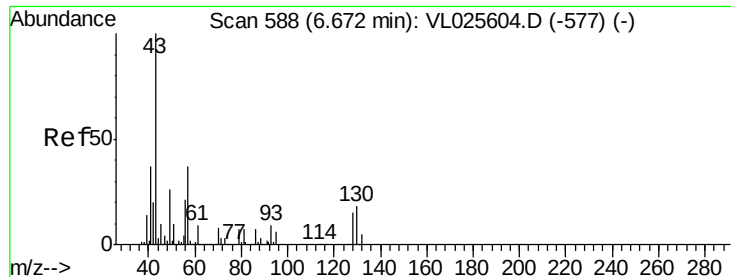
98 5.0 2.6 8.0

100 2.9 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





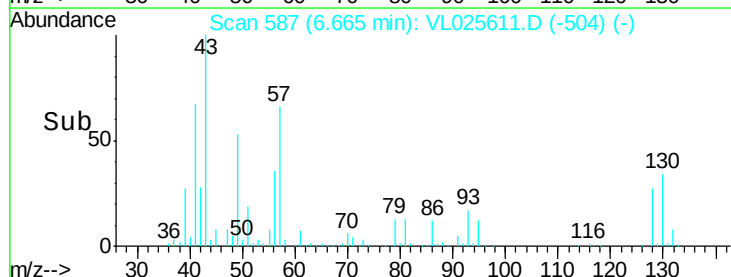
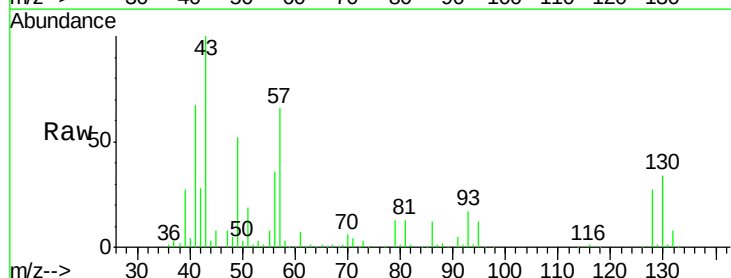
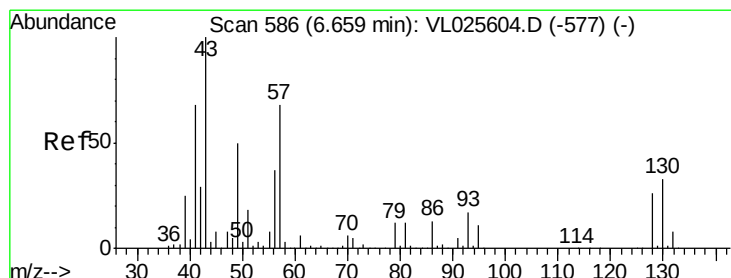
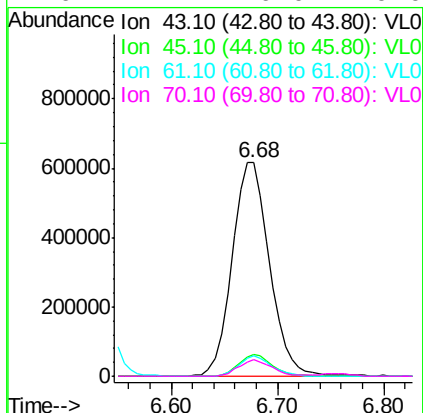
#25
Ethyl Acetate
Concen: 8.66 ppbv
RT: 6.68 min Scan# 589
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.2	7.5	11.3	
61	8.6	6.6	10.0	
70	7.1	6.0	9.0	

Instrument :
MSVOA_L
ClientSampleId :
ICVVL070715

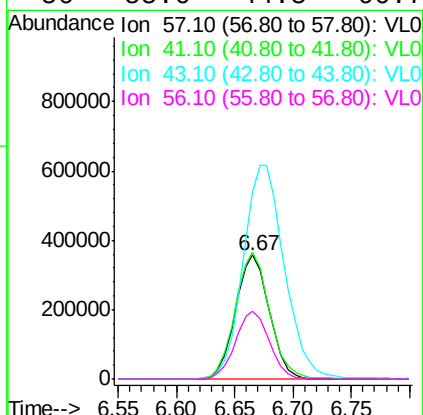
Manual Integrations
APPROVED

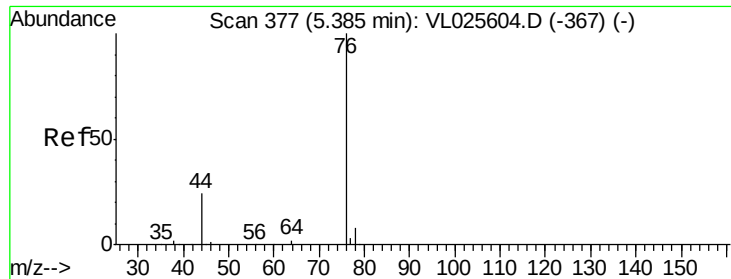
sam
7/8/2015 11:06:09 AM



#26
Hexane
Concen: 8.78 ppbv
RT: 6.67 min Scan# 587
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	105.6	81.4	122.2	
43	211.6	171.4	257.2	
56	55.6	44.5	66.7	





#27

Carbon Disulfide

Concen: 8.51 ppbv

RT: 5.39 min Scan# 378

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL070715

Tot Ion: 76 Resp: 1128742

Ion Ratio Lower Upper

76 100

44 25.4 20.2 30.4

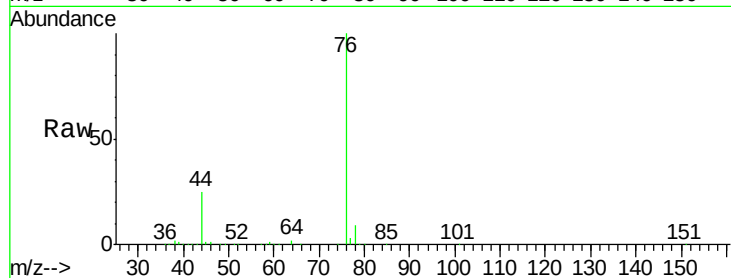
78 8.9 7.4 11.2

Manual Integrations

APPROVED

sam

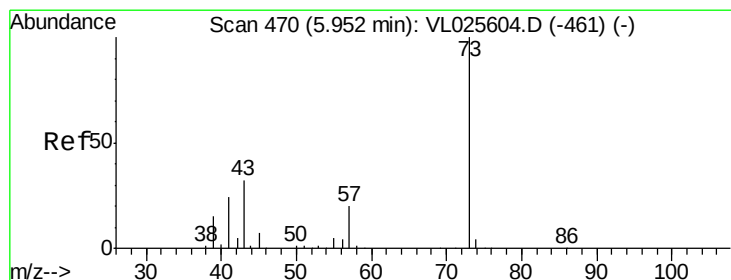
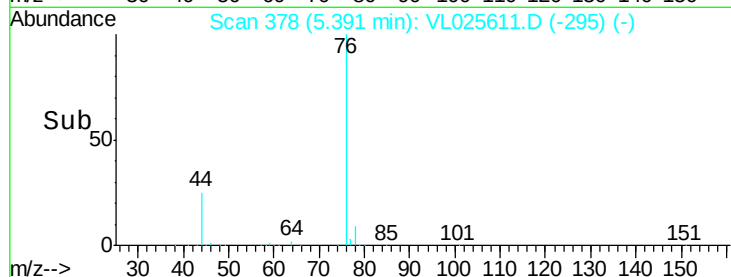
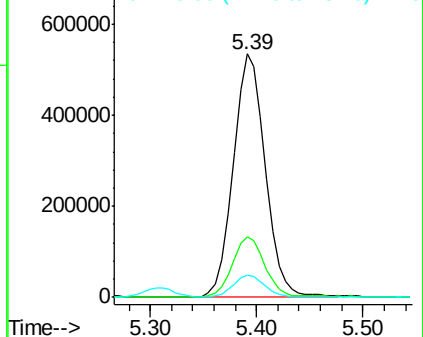
7/8/2015 11:06:09 AM



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: 8.87 ppbv

RT: 5.96 min Scan# 471

Delta R.T. 0.01 min

Lab File: VL025611.D

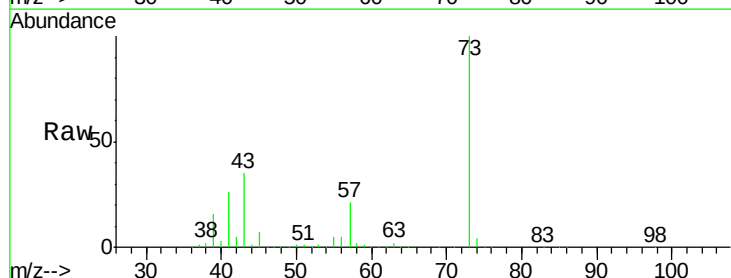
Acq: 7 Jul 2015 15:54

Tgt Ion: 73 Resp: 1444514

Ion Ratio Lower Upper

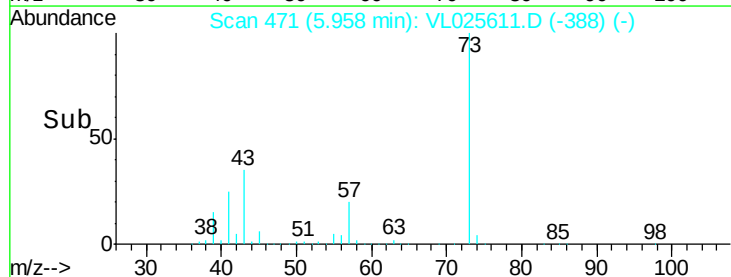
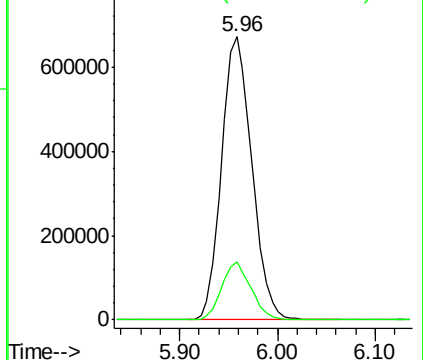
73 100

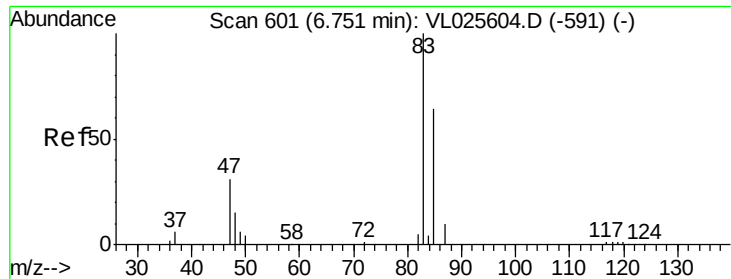
57 19.8 16.0 24.0



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





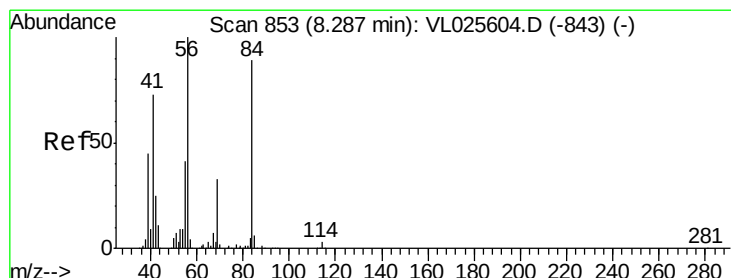
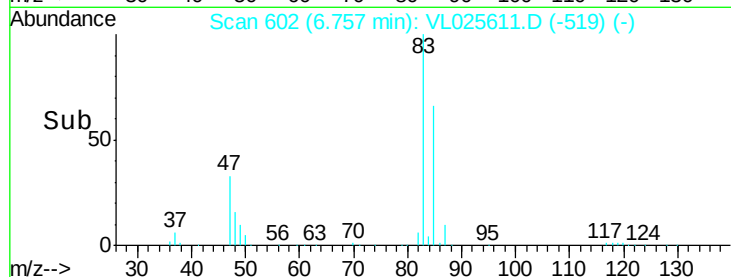
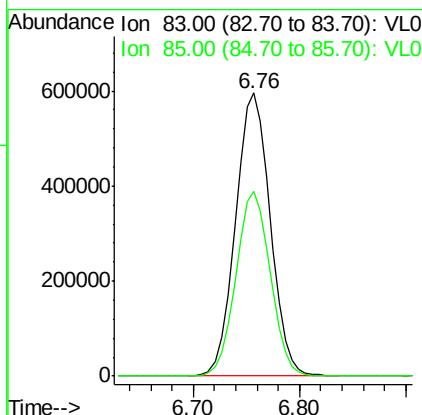
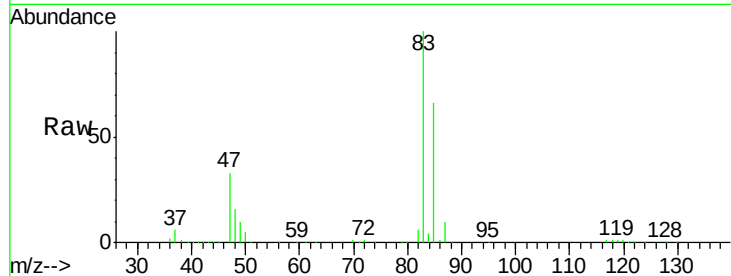
#29
Chloroform
Concen: 8.44 ppbv
RT: 6.76 min Scan# 602
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL070715

Tot Ion: 83 Resp: 1364856
Ion Ratio Lower Upper
83 100
85 65.4 51.6 77.4

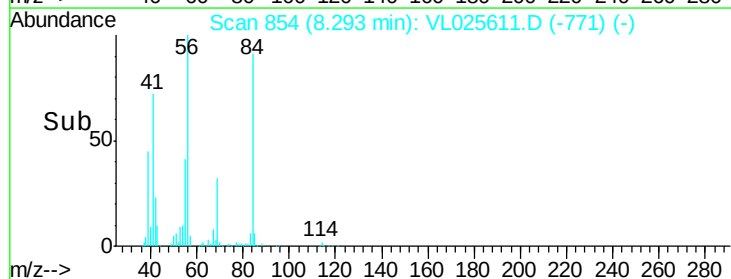
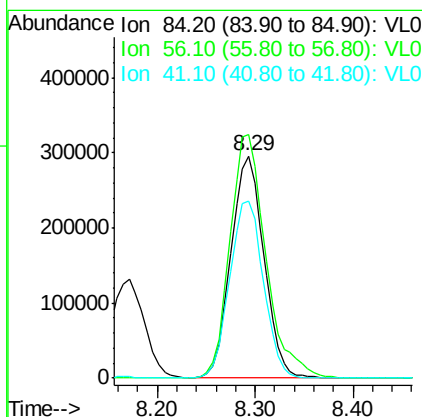
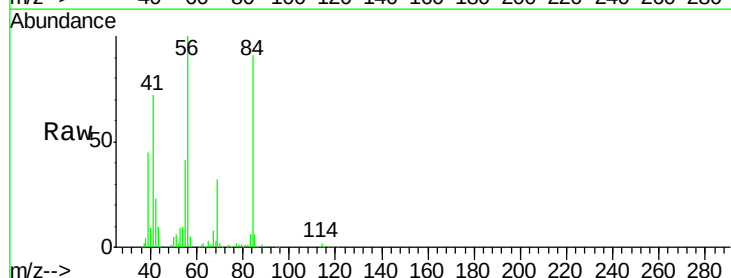
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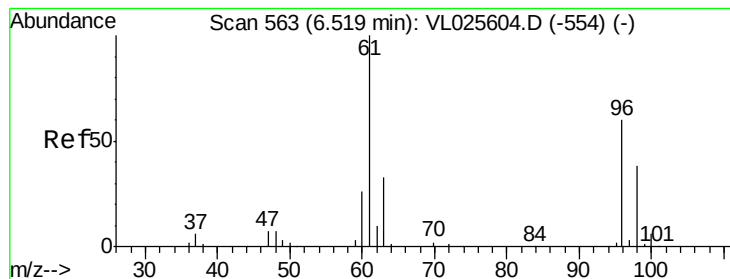
sam
7/8/2015 11:06:09 AM



#30
Cyclohexane
Concen: 8.82 ppbv
RT: 8.29 min Scan# 854
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Tgt Ion: 84 Resp: 690551
Ion Ratio Lower Upper
84 100
56 120.1 97.5 146.3
41 82.3 65.4 98.2





#31

cis-1,2-Dichloroethene

Concen: 8.92 ppbv

RT: 6.53 min Scan# 564

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

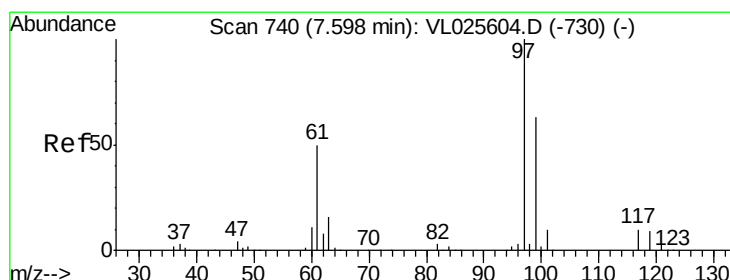
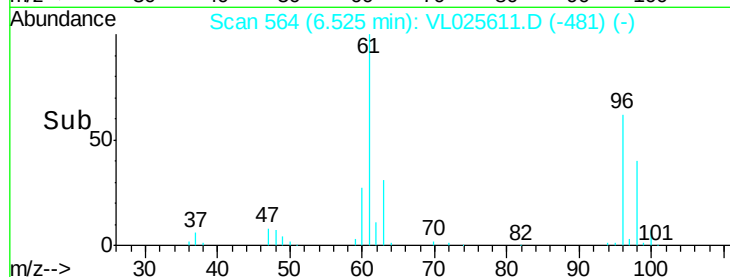
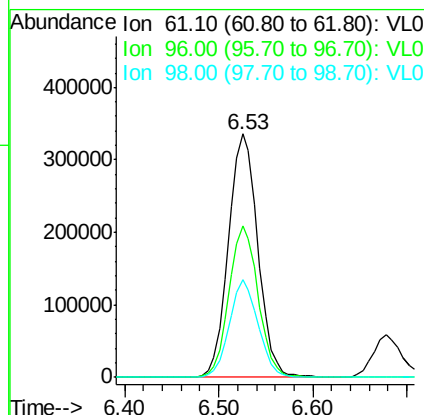
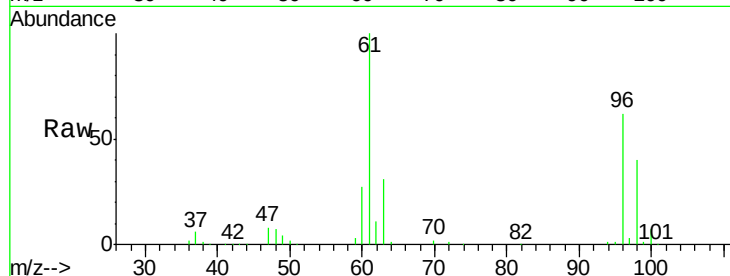
ClientSampleId :

ICVVL070715

Tot Ion:	61	Resp:	726345
Ion	Ratio	Lower	Upper
61	100		
96	62.4	48.1	72.1
98	40.1	30.7	46.1

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#32

1,1,1-Trichloroethane

Concen: 9.11 ppbv

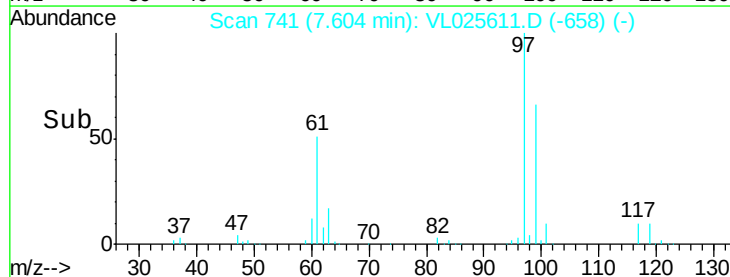
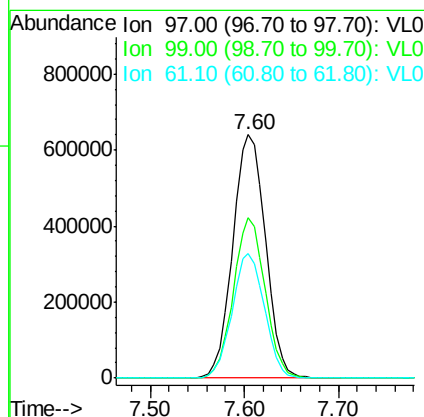
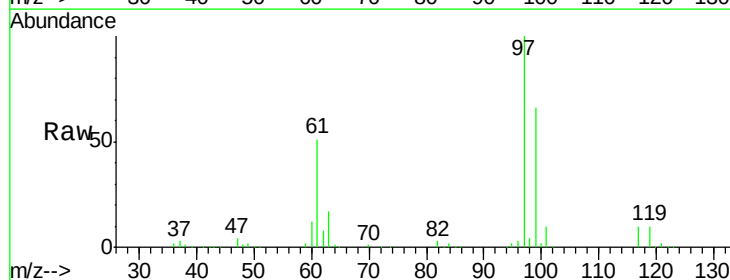
RT: 7.60 min Scan# 741

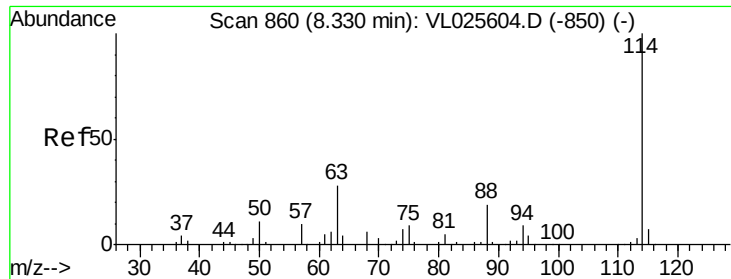
Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Tgt Ion:	97	Resp:	1546867
Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.2	76.8
61	50.6	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: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL070715

Tot Ion:114 Resp: 1753527

Ion Ratio Lower Upper

114 100

63 28.1 22.4 33.6

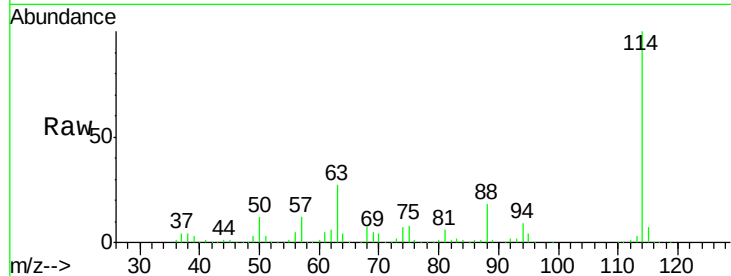
88 18.4 15.0 22.4

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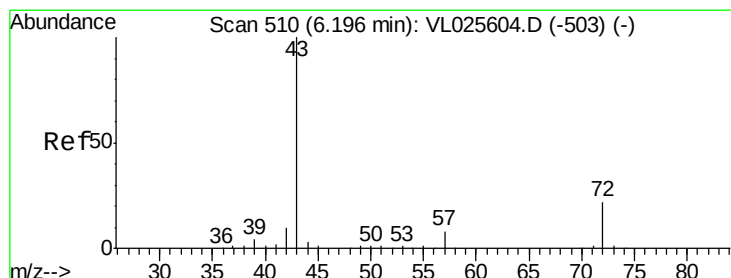
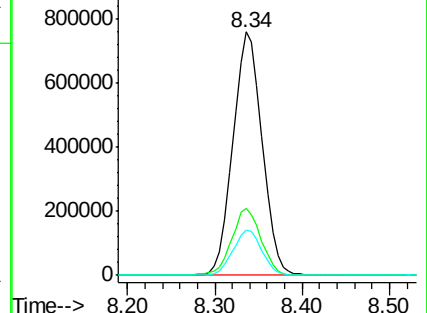
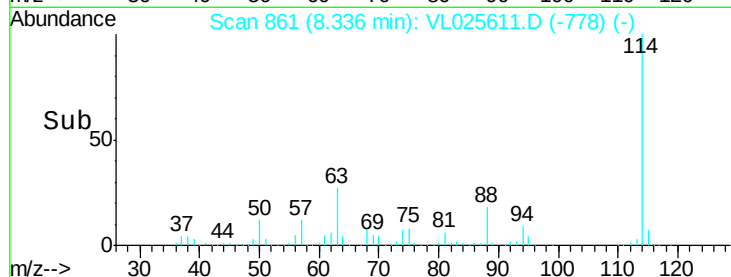
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Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 8.97 ppbv

RT: 6.20 min Scan# 511

Delta R.T. 0.01 min

Lab File: VL025611.D

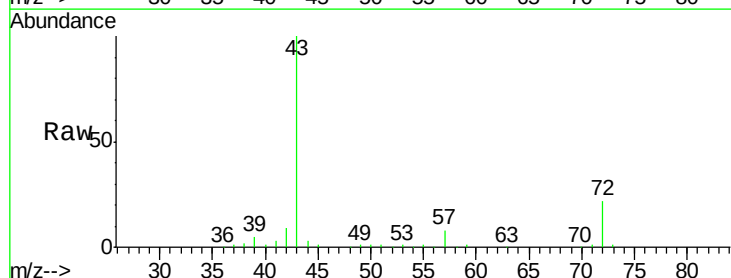
Acq: 7 Jul 2015 15:54

Tgt Ion: 43 Resp: 892418

Ion Ratio Lower Upper

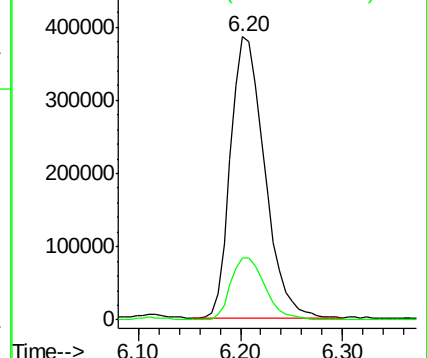
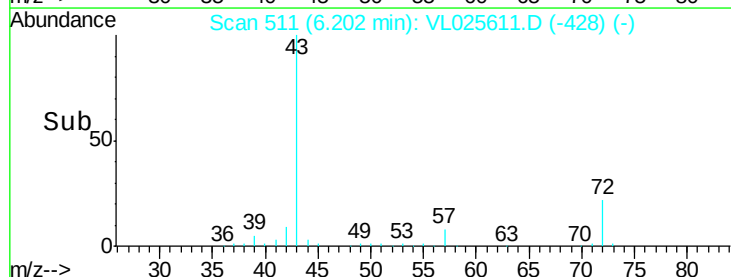
43 100

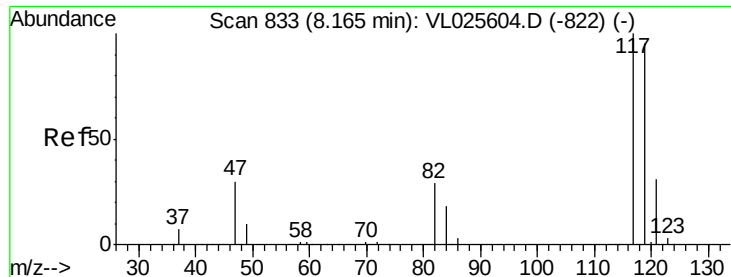
72 22.6 18.6 28.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 8.84 ppbv

RT: 8.17 min Scan# 834

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL070715

Tot Ion:117 Resp: 1652230

Ion Ratio Lower Upper

117 100

119 95.1 75.9 113.9

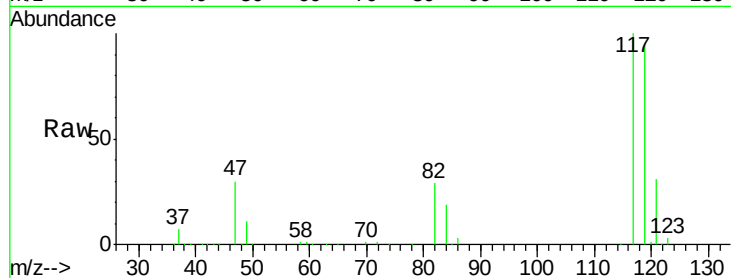
121 31.0 24.4 36.6

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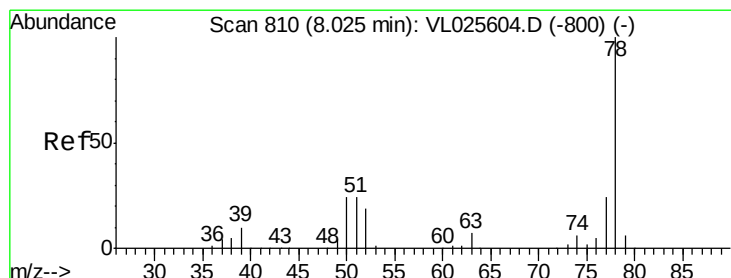
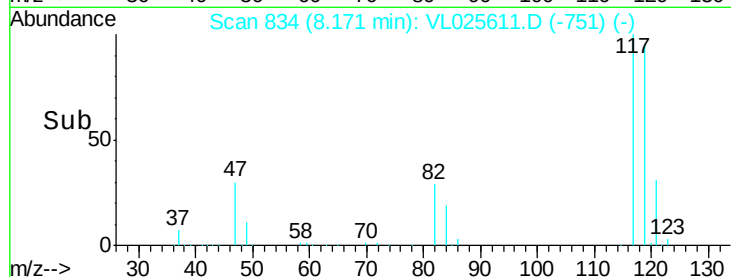
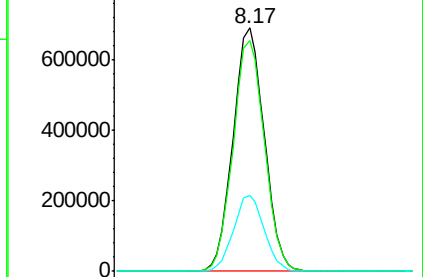
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 8.92 ppbv

RT: 8.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

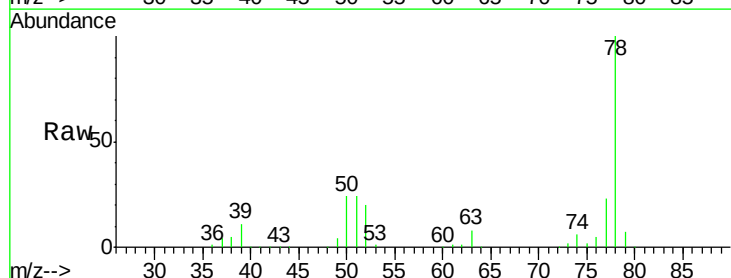
Tgt Ion: 78 Resp: 1498275

Ion Ratio Lower Upper

78 100

77 23.2 19.0 28.4

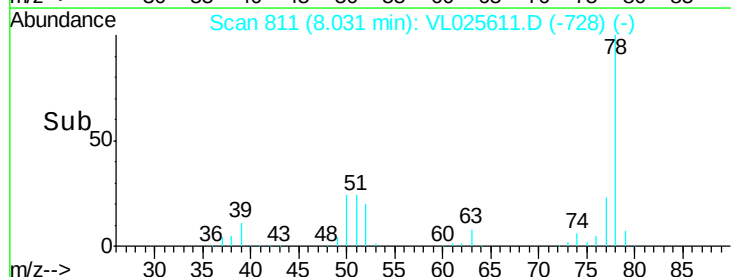
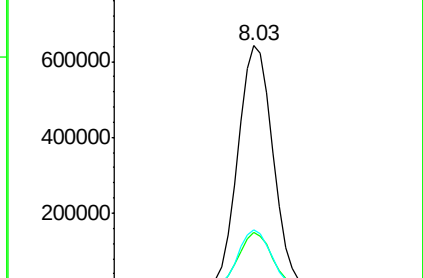
50 24.3 19.2 28.8

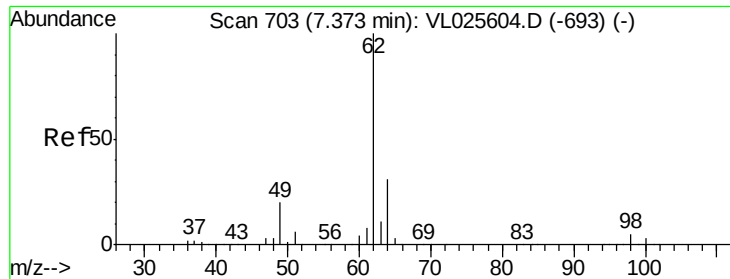


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





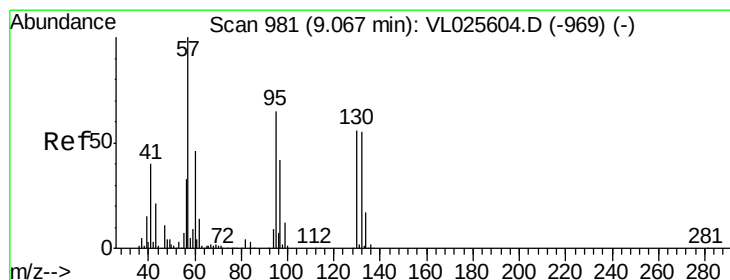
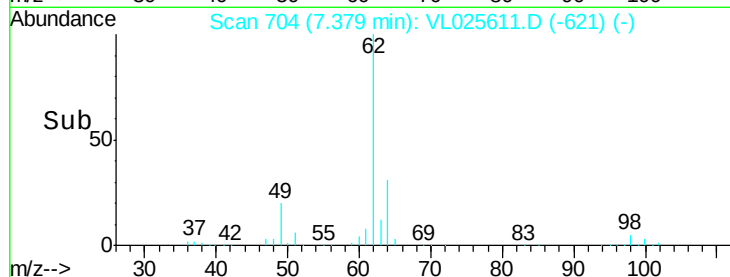
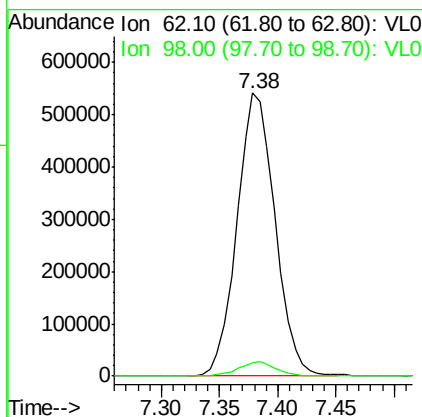
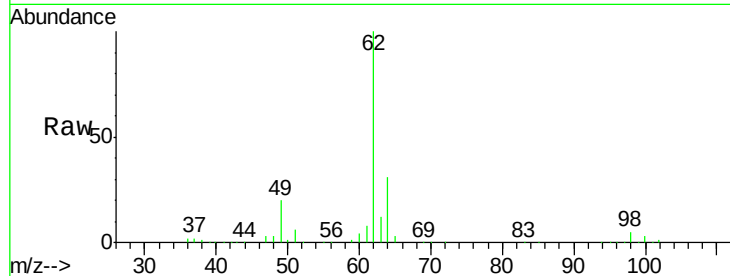
#37
 1,2-Dichloroethane
 Concen: 8.59 ppbv
 RT: 7.38 min Scan# 704
 Delta R.T. 0.01 min
 Lab File: VL025611.D
 Acq: 7 Jul 2015 15:54

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL070715

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.0	4.1	6.1

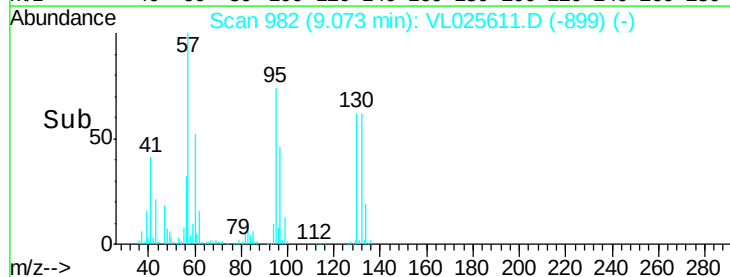
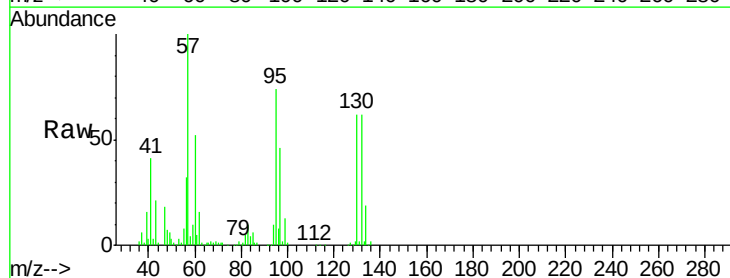
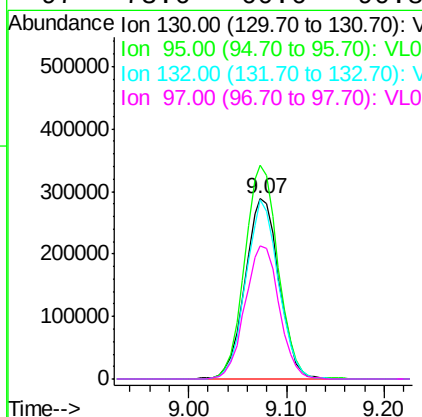
Manual Integrations
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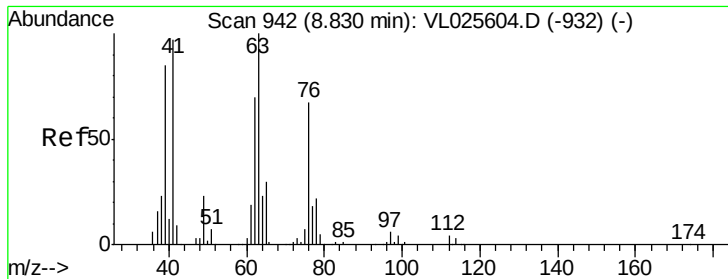
sam
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#38
 Trichloroethene
 Concen: 8.91 ppbv
 RT: 9.07 min Scan# 982
 Delta R.T. 0.01 min
 Lab File: VL025611.D
 Acq: 7 Jul 2015 15:54

Tgt Ion	Ratio	Lower	Upper
130	100		
95	118.4	94.2	141.4
132	99.3	78.6	118.0
97	73.6	60.6	90.8





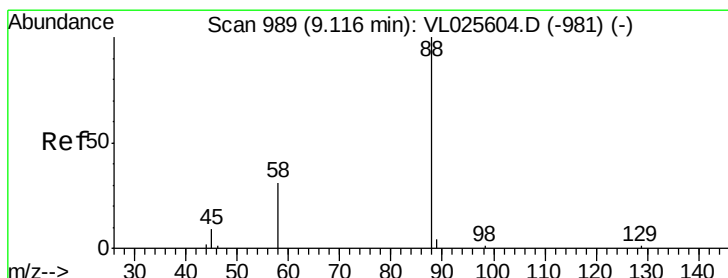
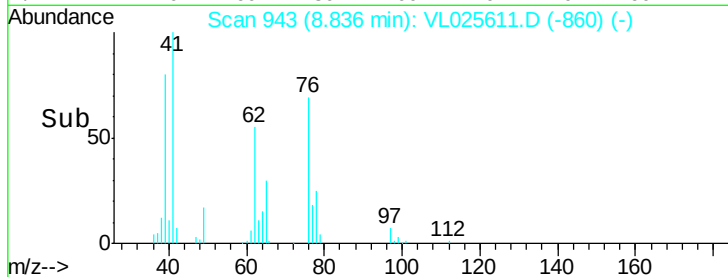
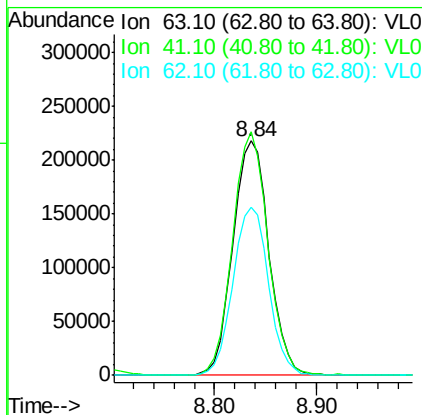
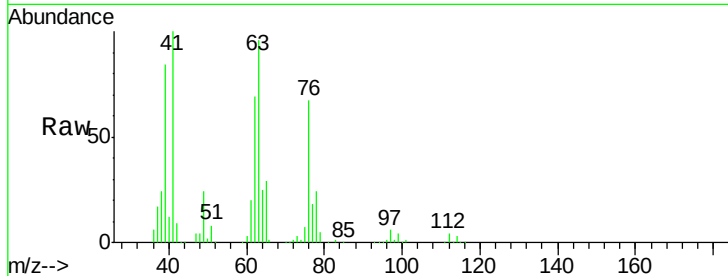
#39
 1,2-Dichloropropane
 Concen: 8.59 ppbv
 RT: 8.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VL025611.D
 Acq: 7 Jul 2015 15:54

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL070715

Tot Ion	Ratio	Lower	Upper
63	100		
41	103.5	78.0	117.0
62	71.5	55.7	83.5

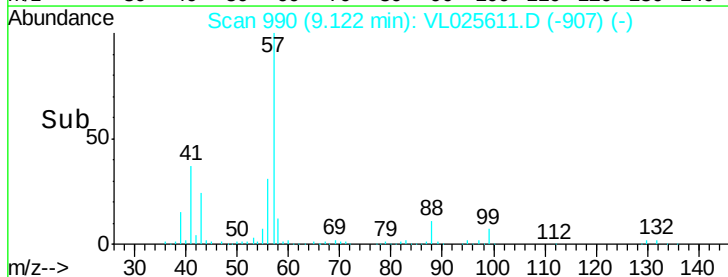
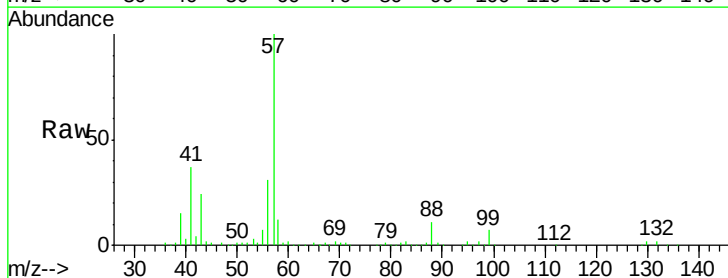
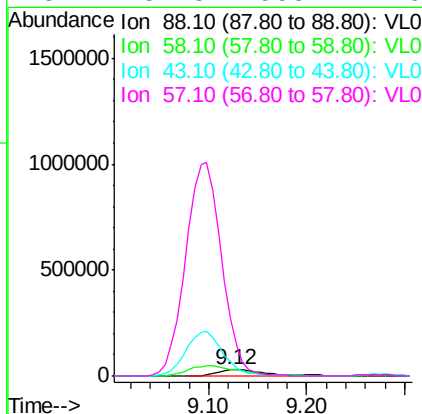
Manual Integrations
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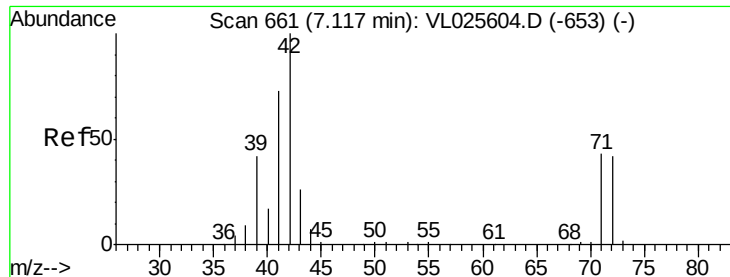
sam
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#40
 1,4-Dioxane
 Concen: 10.72 ppbv
 RT: 9.12 min Scan# 990
 Delta R.T. 0.01 min
 Lab File: VL025611.D
 Acq: 7 Jul 2015 15:54

Tgt Ion	Ratio	Lower	Upper
88	100		
58	182.1	127.1	190.7
43	542.5	337.7	506.5#
57	2484.3	1533.2	2299.8#





#41

Tetrahydrofuran

Concen: 9.04 ppbv

RT: 7.12 min Scan# 662

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

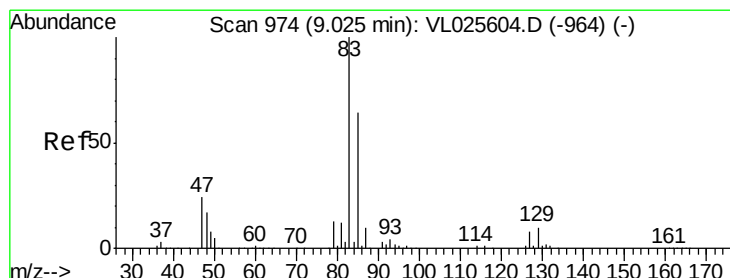
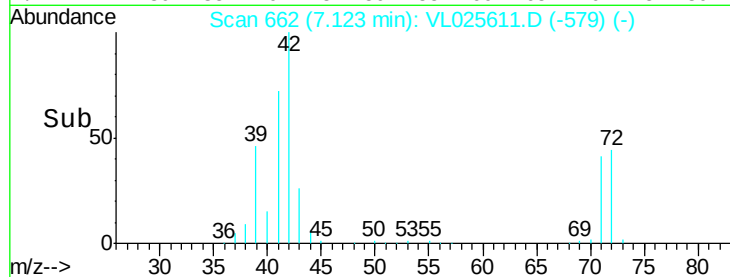
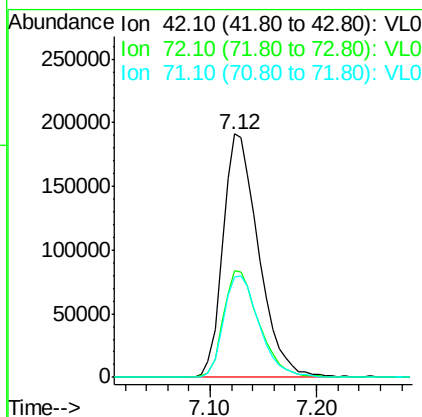
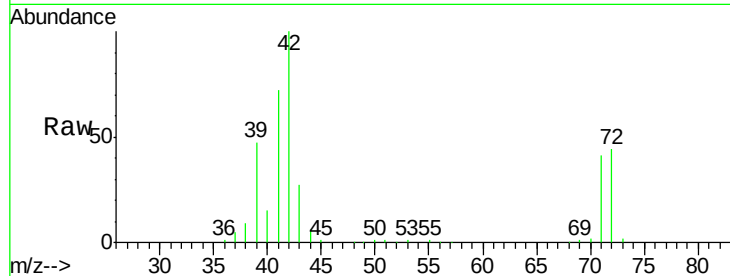
ClientSampleId :

ICVVL070715

Tot Ion:	42	Resp:	449049
Ion	Ratio	Lower	Upper
42	100		
72	43.8	34.0	51.0
71	42.0	33.0	49.6

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#42

Bromodichloromethane

Concen: 9.05 ppbv

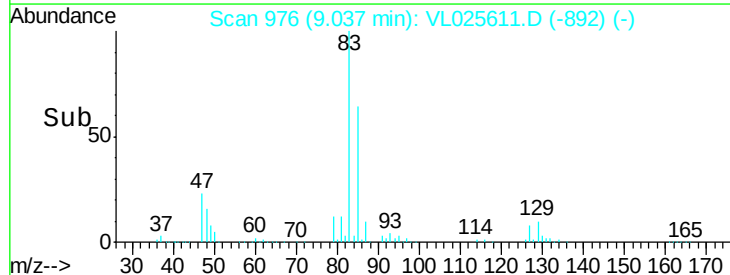
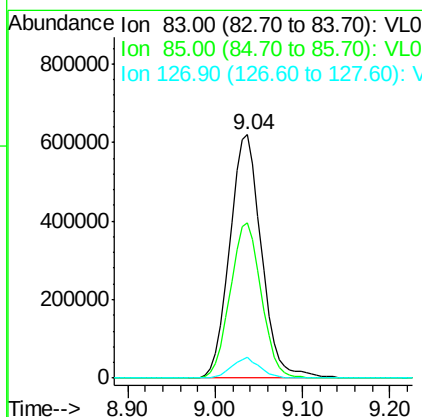
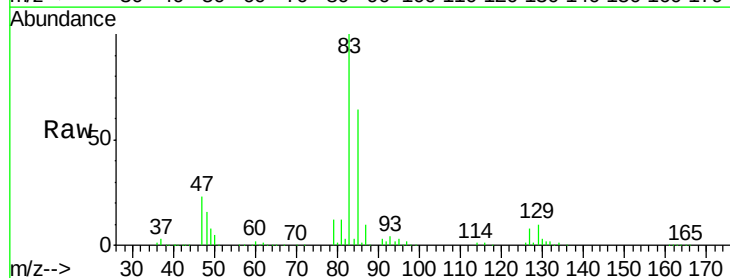
RT: 9.04 min Scan# 976

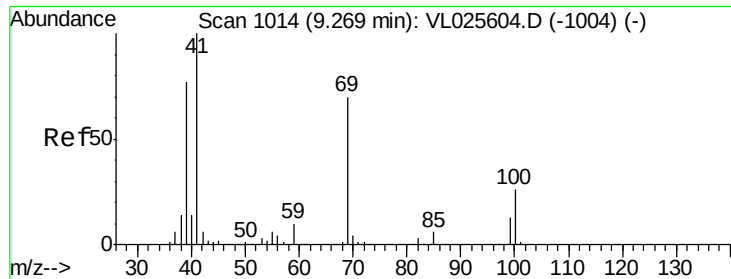
Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Tgt Ion:	83	Resp:	1565312
Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.3	76.9
127	8.4	6.0	9.0





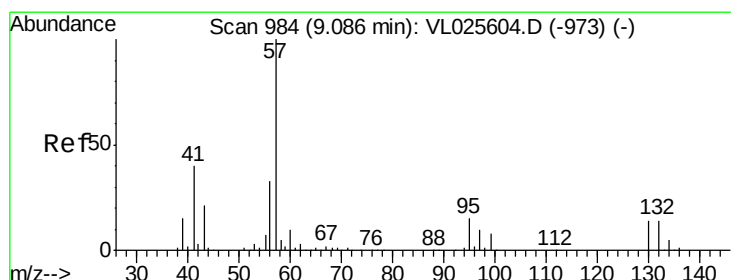
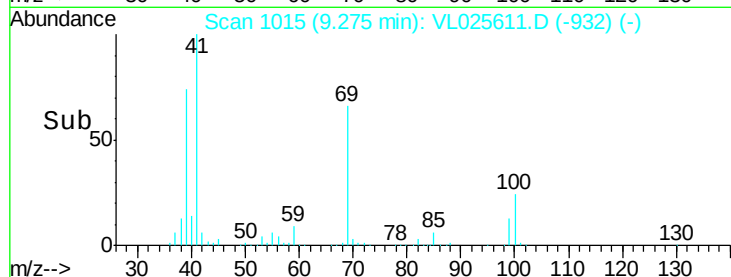
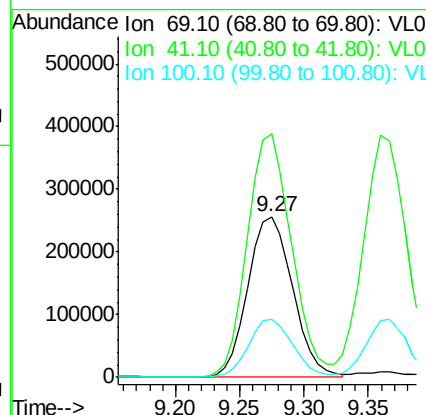
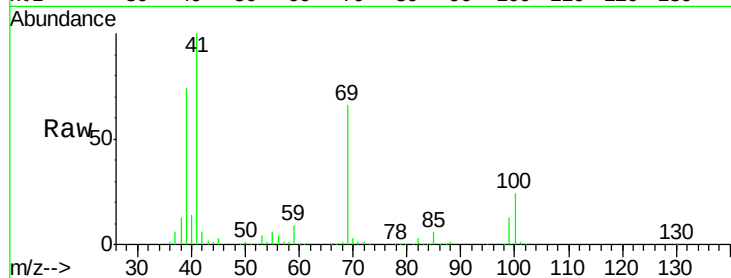
#43
Methyl Methacrylate
Concen: 9.63 ppbv
RT: 9.27 min Scan# 1015
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL070715

Tot Ion	Ratio	Lower	Upper
69	100		
41	149.8	117.3	175.9
100	35.9	29.0	43.6

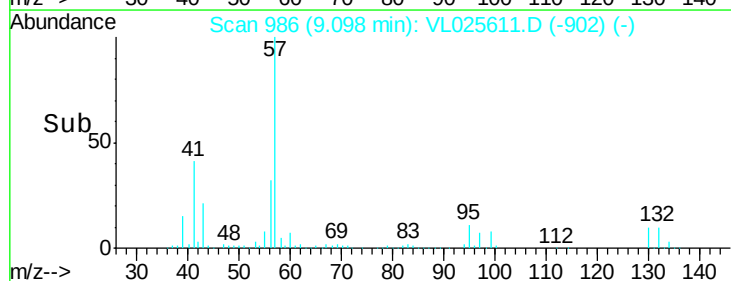
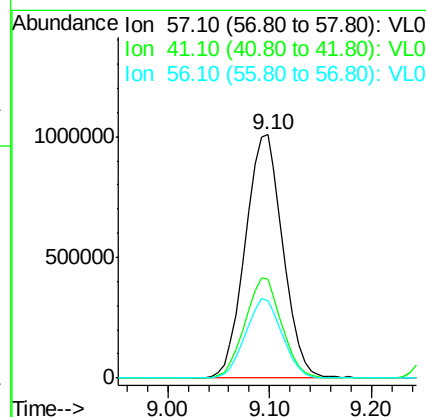
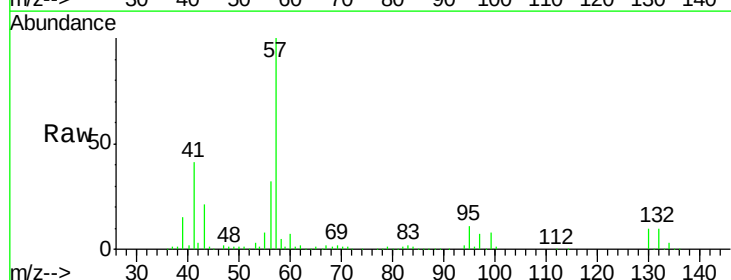
Manual Integrations
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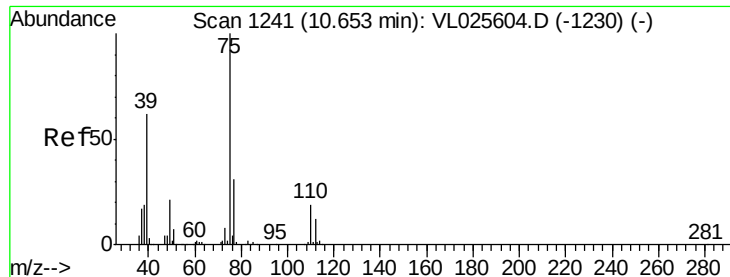
sam
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#44
2,2,4-Trimethylpentane
Concen: 8.96 ppbv
RT: 9.10 min Scan# 986
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Tgt Ion	Ratio	Lower	Upper
57	100		
41	40.2	31.2	46.8
56	31.8	25.4	38.2





#45

t-1,3-Dichloropropene

Concen: 9.35 ppbv

RT: 10.66 min Scan# 1242

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL070715

Tot Ion: 75 Resp: 1013298

Ion Ratio Lower Upper

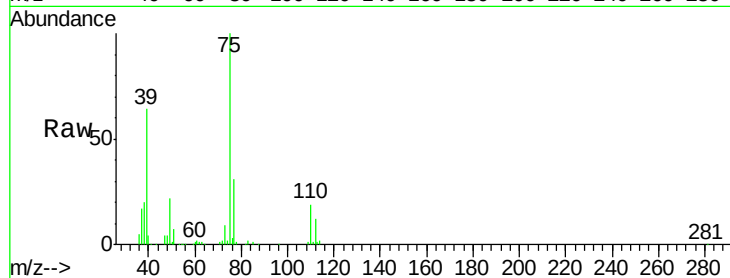
75 100

77 31.1 24.6 37.0

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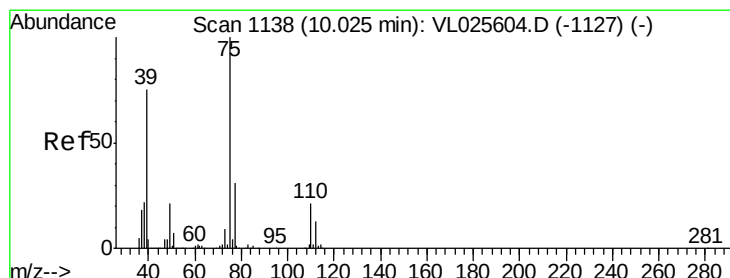
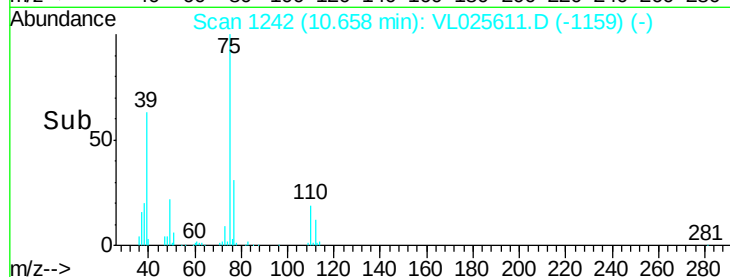
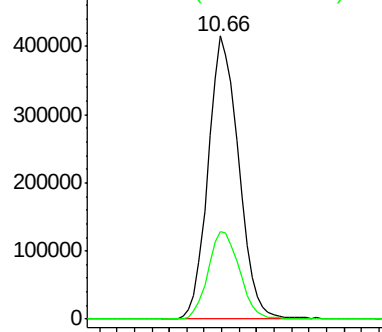
sam

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 9.47 ppbv

RT: 10.03 min Scan# 1139

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

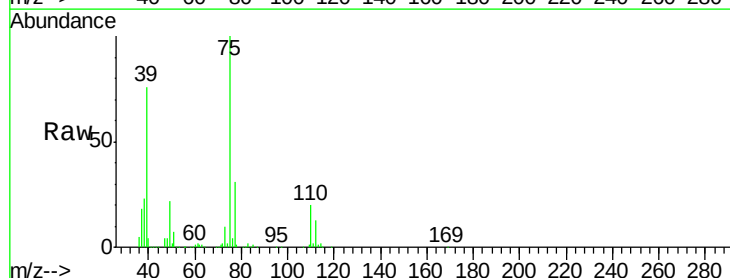
Tgt Ion: 75 Resp: 1134681

Ion Ratio Lower Upper

75 100

39 76.3 60.4 90.6

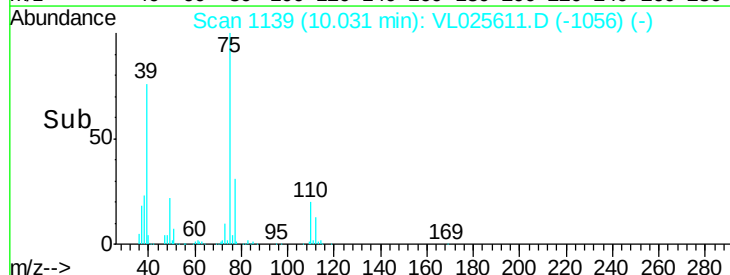
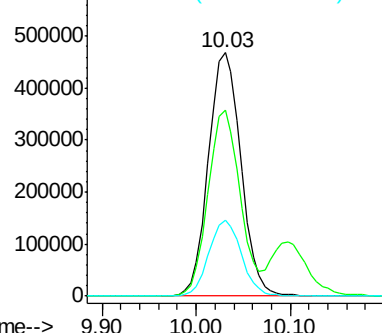
77 31.0 24.6 37.0

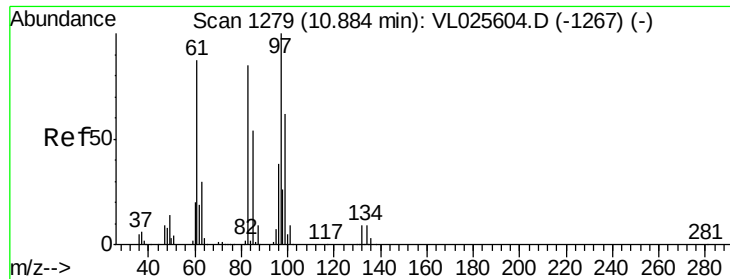


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





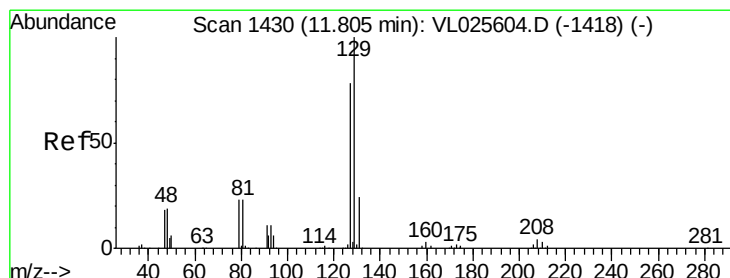
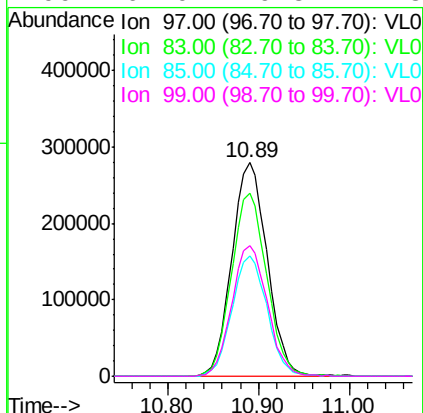
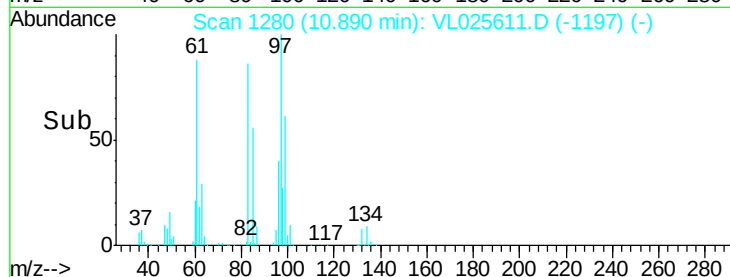
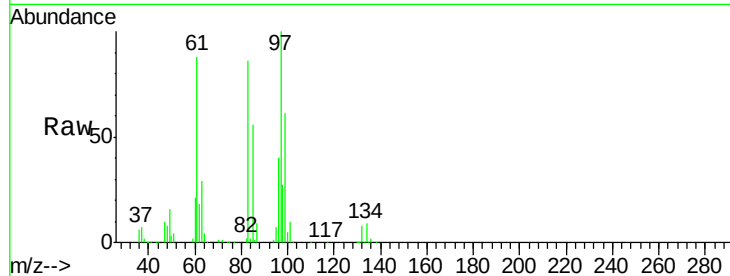
#47
 1,1,2-Trichloroethane
 Concen: 8.75 ppbv
 RT: 10.89 min Scan# 1280
 Delta R.T. 0.01 min
 Lab File: VL025611.D
 Acq: 7 Jul 2015 15:54

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL070715

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		755438		
83	85.5	67.8	101.8		
85	56.1	43.5	65.3		
99	61.0	49.8	74.8		

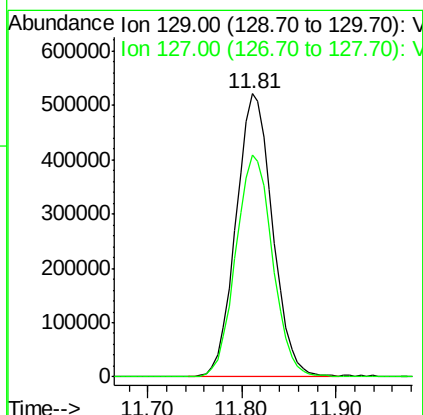
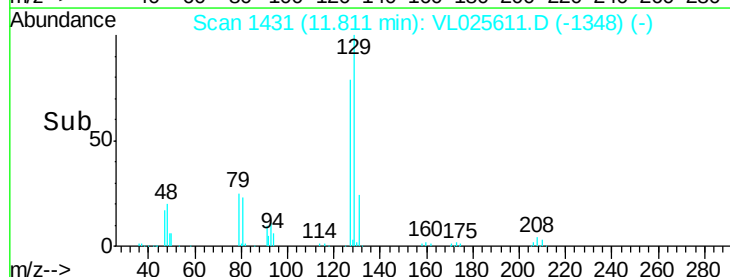
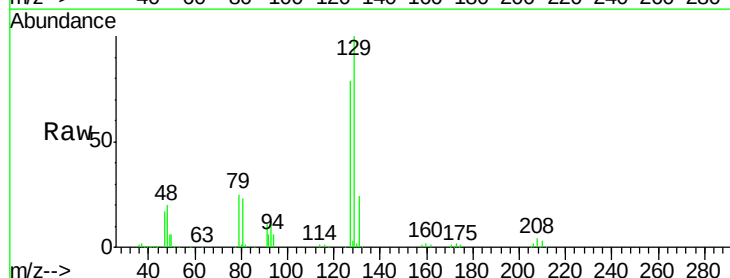
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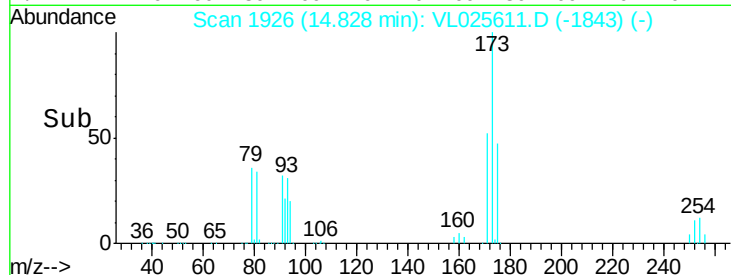
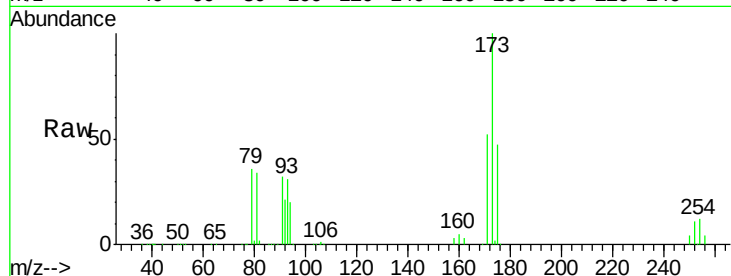
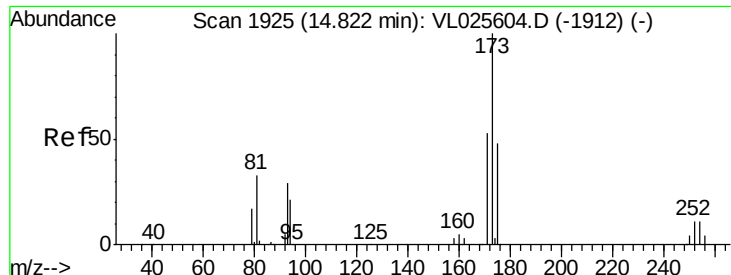
sam
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#48
 Dibromochloromethane
 Concen: 9.16 ppbv
 RT: 11.81 min Scan# 1431
 Delta R.T. 0.01 min
 Lab File: VL025611.D
 Acq: 7 Jul 2015 15:54

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1414156		
127	79.3	39.0	116.9		





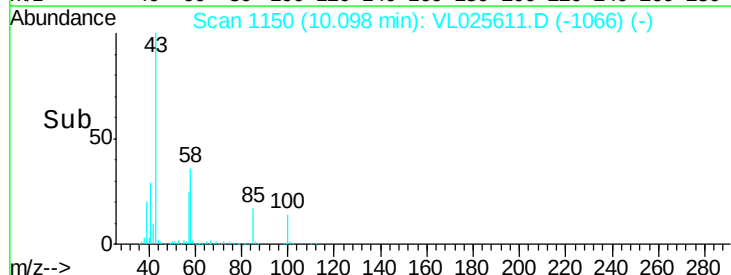
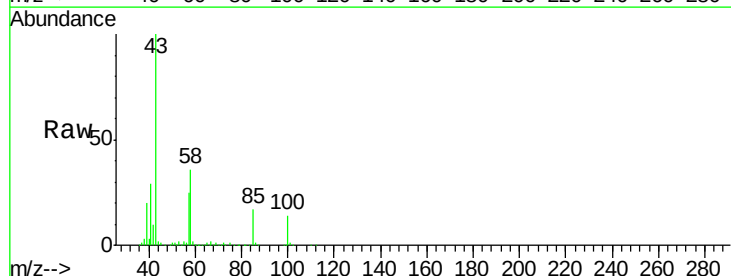
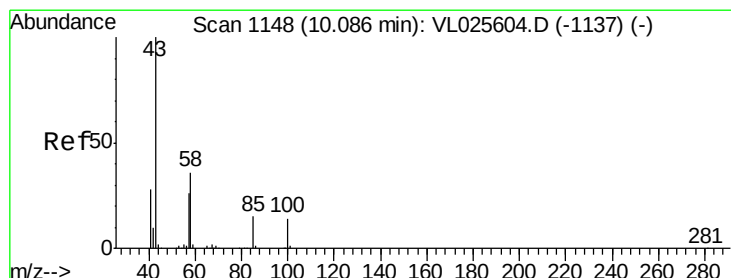
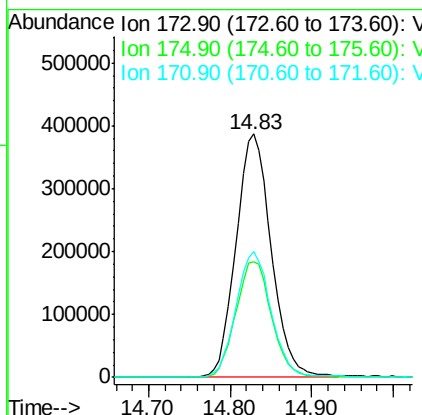
#49
Bromoform
Concen: 9.12 ppbv
RT: 14.83 min Scan# 1926
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Tot Ion: 173 Resp: 1161842
Ion Ratio Lower Upper
173 100
175 48.6 39.5 59.3
171 52.0 42.2 63.2

Instrument :
MSVOA_L
ClientSampleId :
ICVVL070715

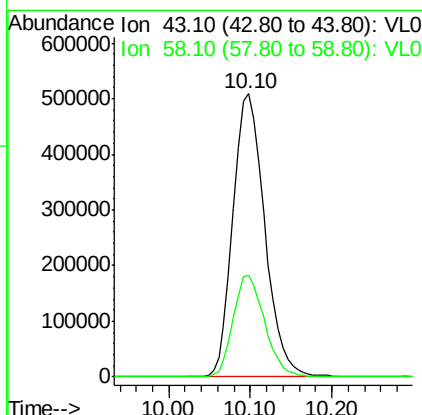
Manual Integrations
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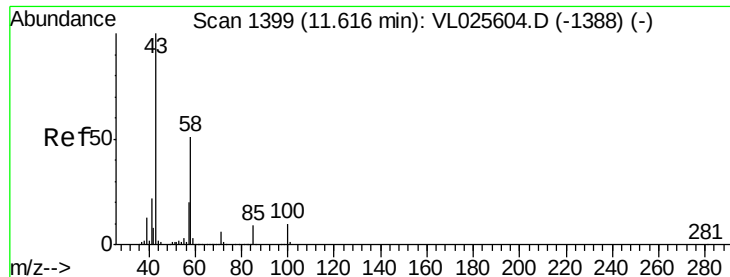
sam
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#50
4-Methyl-2-Pentanone
Concen: 9.56 ppbv
RT: 10.10 min Scan# 1150
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Tgt Ion: 43 Resp: 1370238
Ion Ratio Lower Upper
43 100
58 35.6 28.5 42.7





#51

2-Hexanone

Concen: 10.26 ppbv

RT: 11.63 min Scan# 1401

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL070715

Tot Ion: 43 Resp: 1319426

Ion Ratio Lower Upper

43 100

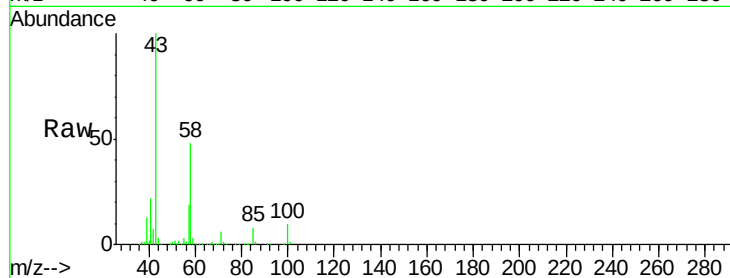
58 47.5 39.0 58.6

98 0.4 0.2 0.4#

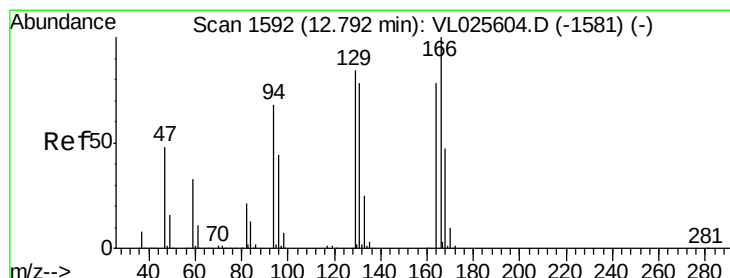
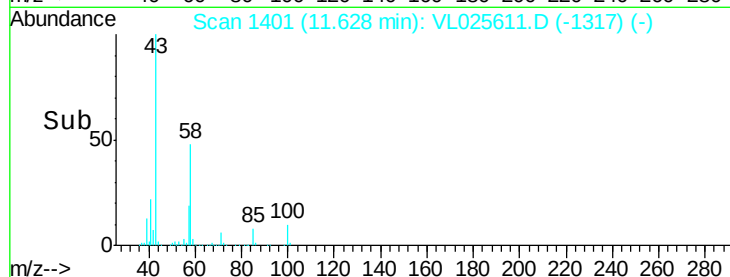
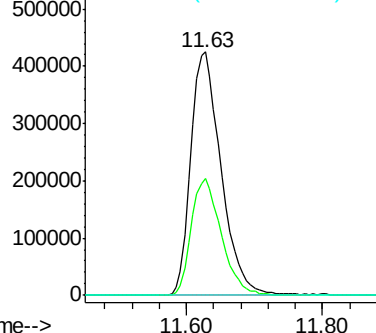
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 9.37 ppbv

RT: 12.80 min Scan# 1594

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Tgt Ion: 164 Resp: 789583

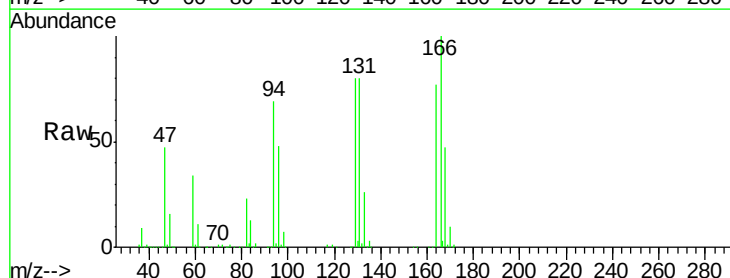
Ion Ratio Lower Upper

164 100

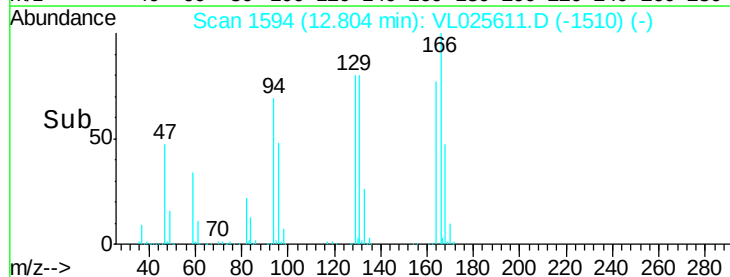
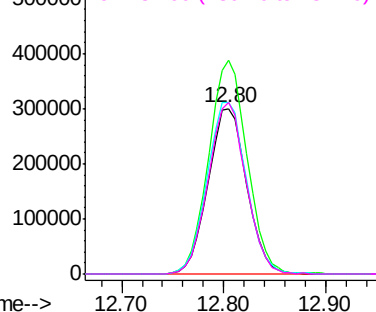
166 129.3 102.3 153.5

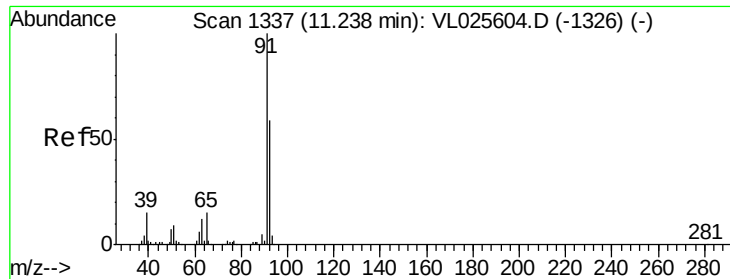
129 104.0 86.2 129.4

131 103.6 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





#53

Toluene

Concen: 9.53 ppbv

RT: 11.25 min Scan# 1339

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL070715

Tot Ion: 91 Resp: 2249190

Ion Ratio Lower Upper

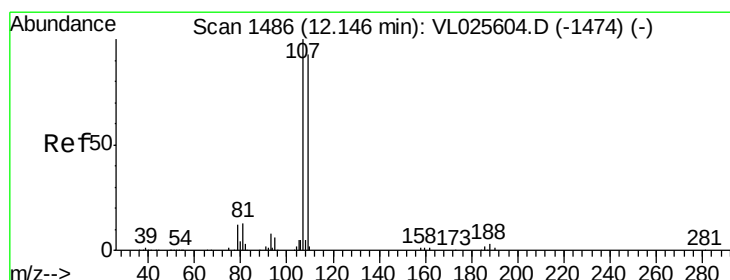
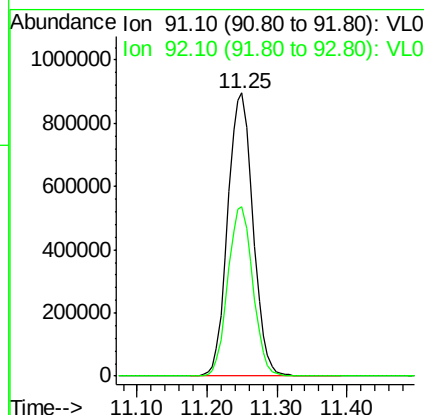
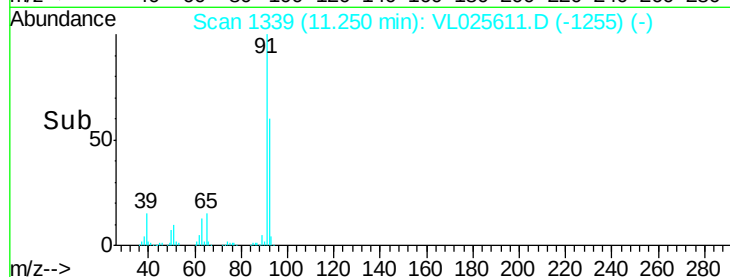
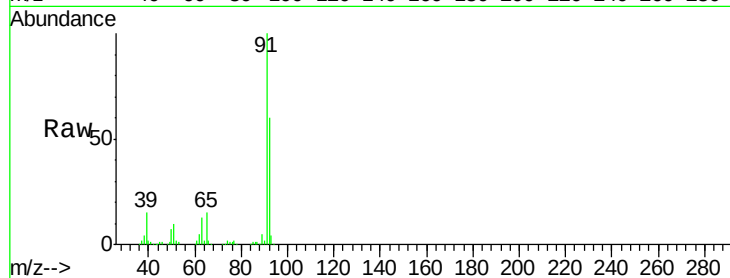
91 100

92 59.4 48.2 72.2

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#54

1,2-Dibromoethane

Concen: 8.82 ppbv

RT: 12.15 min Scan# 1487

Delta R.T. 0.01 min

Lab File: VL025611.D

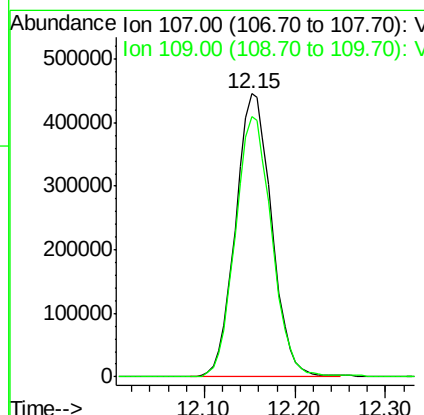
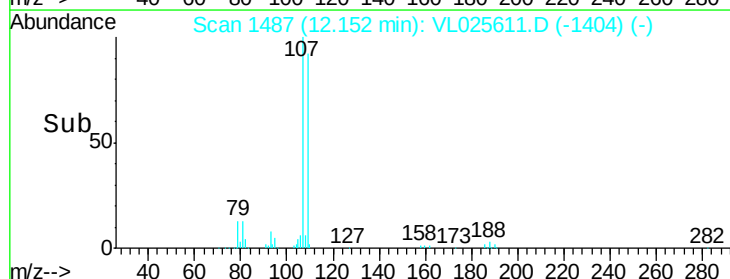
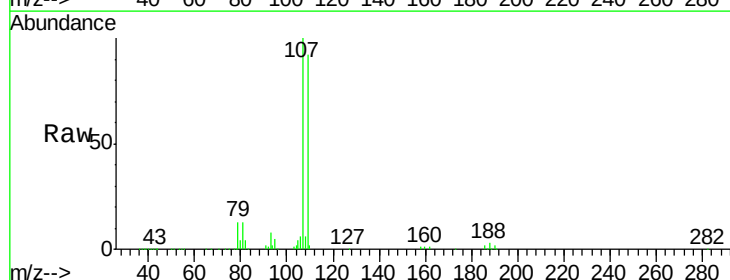
Acq: 7 Jul 2015 15:54

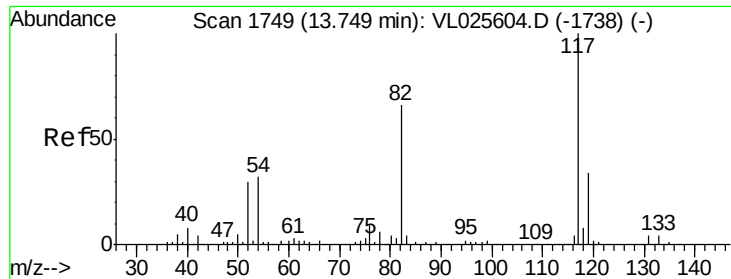
Tgt Ion: 107 Resp: 1231130

Ion Ratio Lower Upper

107 100

109 92.0 74.1 111.1





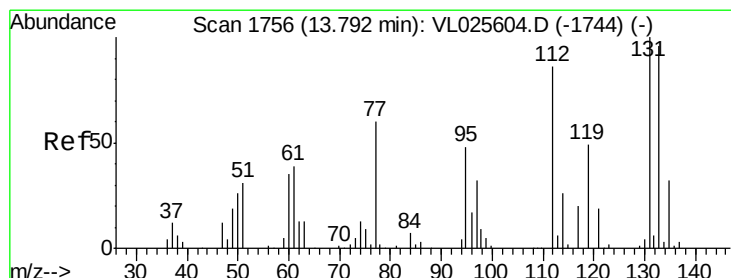
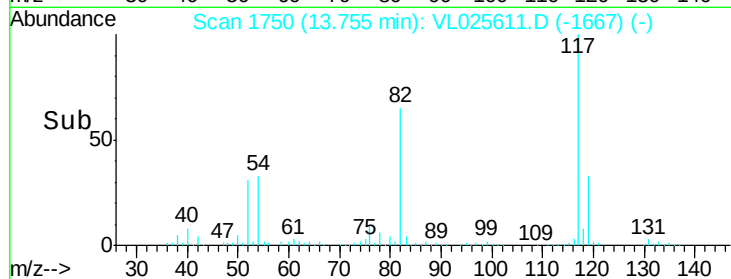
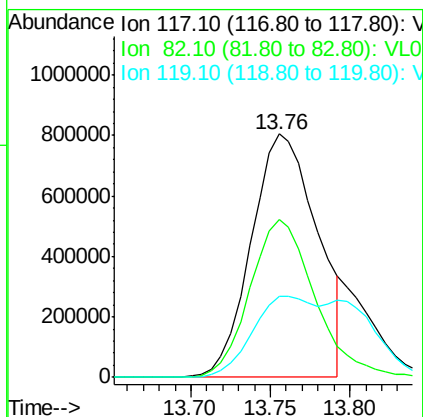
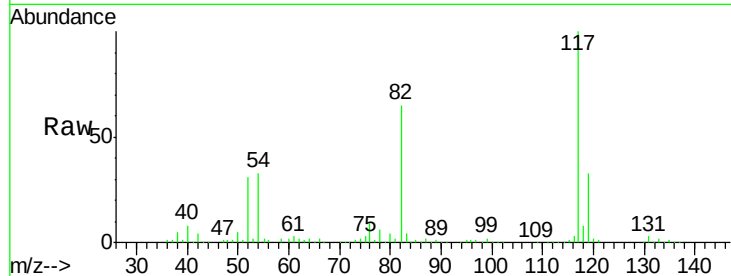
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 13.76 min Scan# 1750
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL070715

Tot Ion:117 Resp: 2334149
Ion Ratio Lower Upper
117 100
82 64.3 50.5 75.7
119 57.0 45.1 67.7

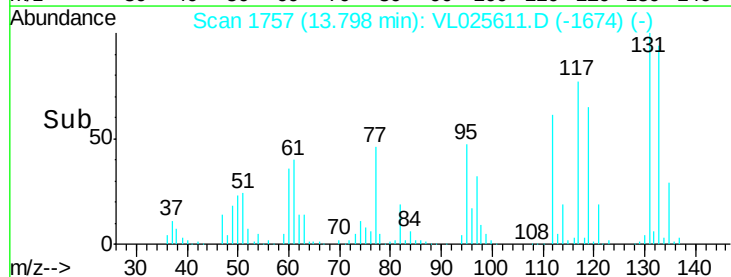
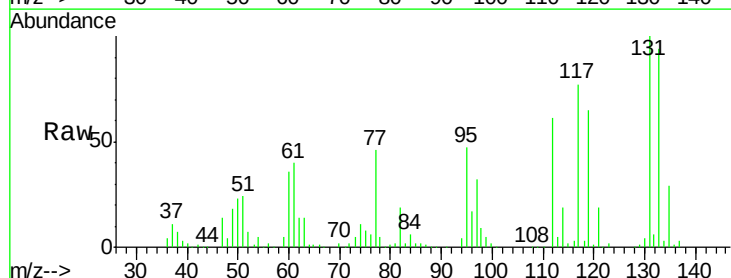
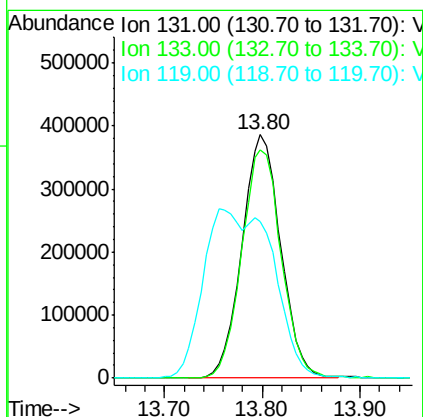
Manual Integrations
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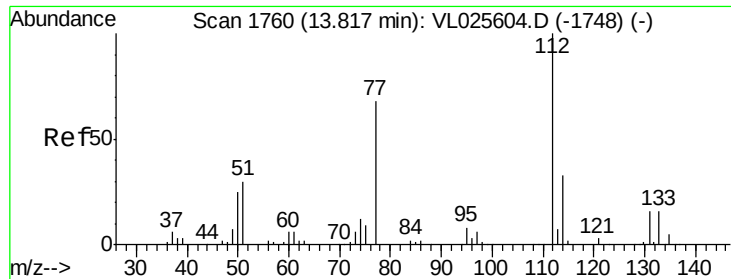
sam
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.43 ppbv
RT: 13.80 min Scan# 1757
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Tgt Ion:131 Resp: 1063755
Ion Ratio Lower Upper
131 100
133 96.3 76.9 115.3
119 125.1 97.8 146.8





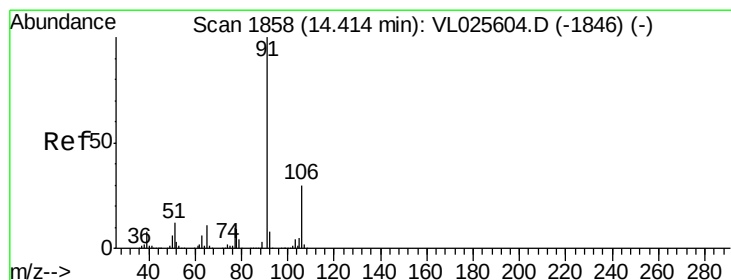
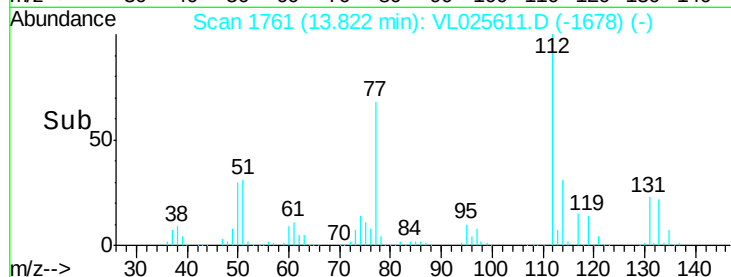
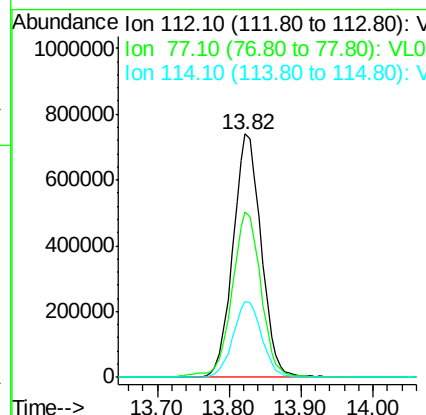
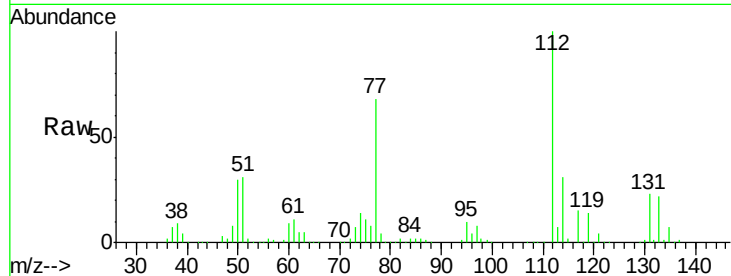
#57
Chlorobenzene
Concen: 8.11 ppbv
RT: 13.82 min Scan# 1761
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL070715

Tot Ion	Ratio	Lower	Upper
112	100		
77	67.9	55.2	82.8
114	31.3	29.4	36.0

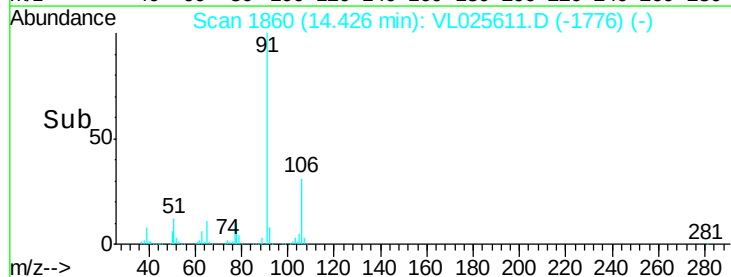
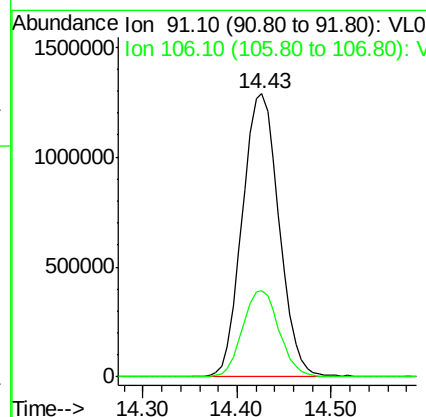
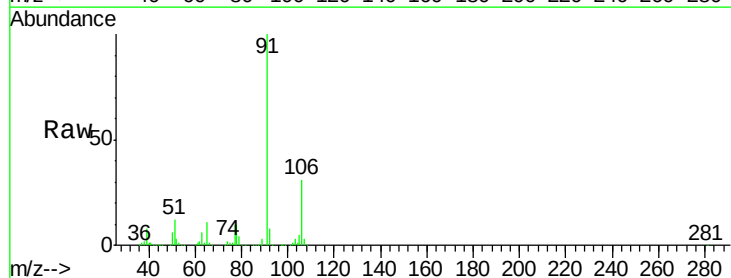
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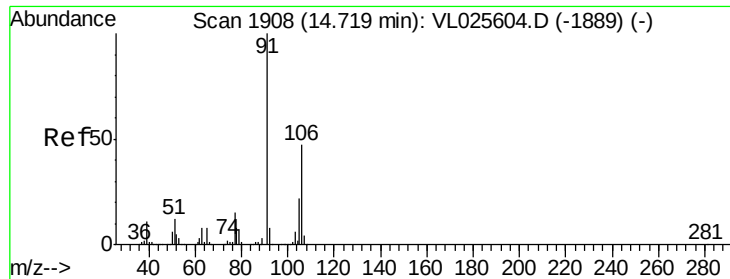
sam
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#58
Ethyl Benzene
Concen: 9.14 ppbv
RT: 14.43 min Scan# 1860
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.6	24.2	36.2





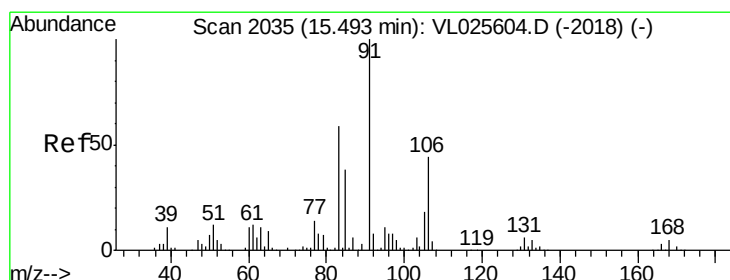
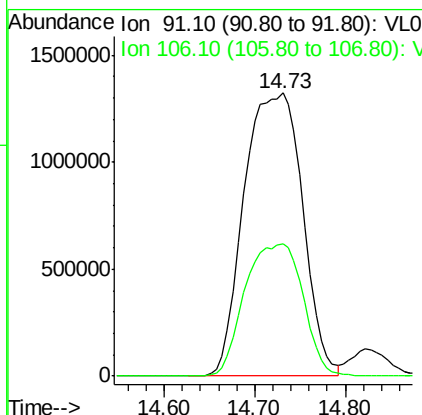
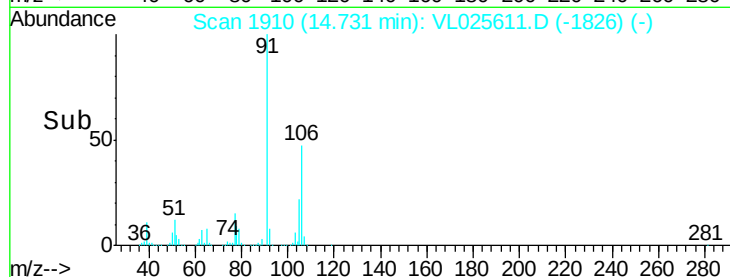
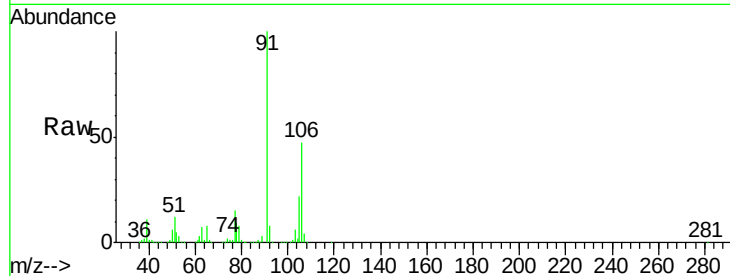
#59
m/p-Xylene
Concen: 17.39 ppbv
RT: 14.73 min Scan# 1910
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL070715

Tot Ion: 91 Resp: 5891054
Ion Ratio Lower Upper
91 100
106 46.7 37.9 56.9

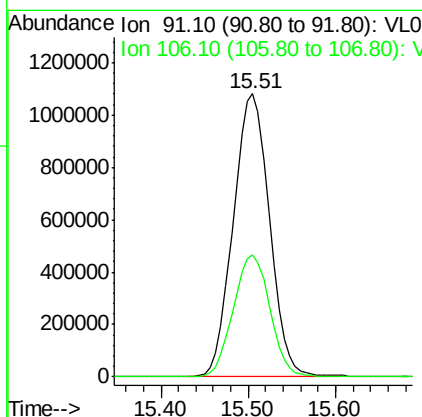
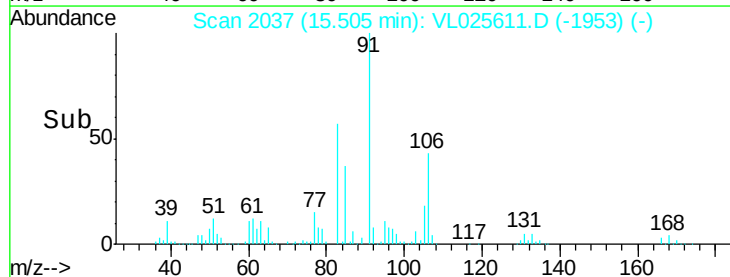
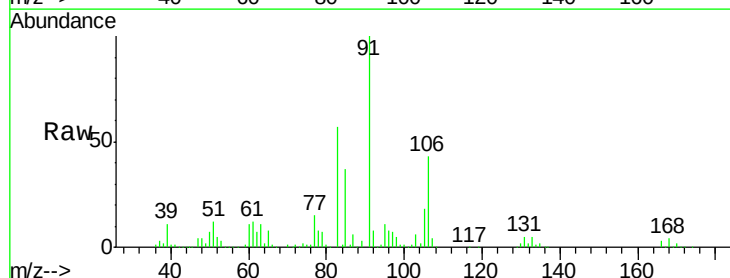
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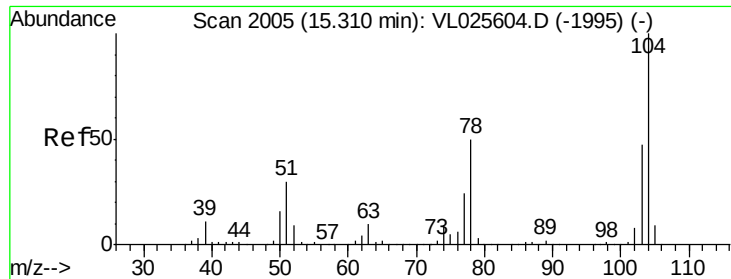
sam
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#60
o-Xylene
Concen: 8.53 ppbv
RT: 15.51 min Scan# 2037
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Tgt Ion: 91 Resp: 3113120
Ion Ratio Lower Upper
91 100
106 43.9 22.1 66.1





#61

Stvrene

Concen: 10.41 ppbv

RT: 15.32 min Scan# 2007

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL070715

Tot Ion:104 Resp: 1330400

Ion Ratio Lower Upper

104 100

78 51.5 40.2 60.4

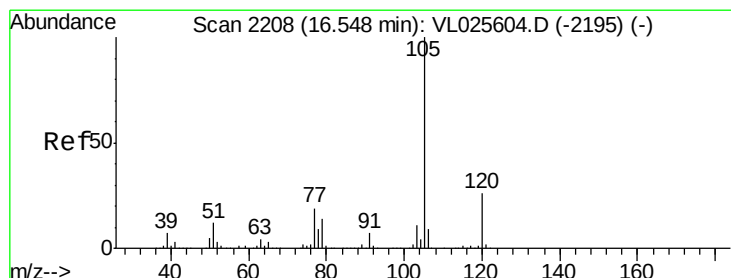
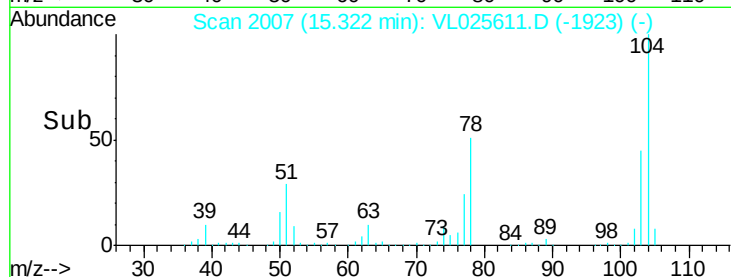
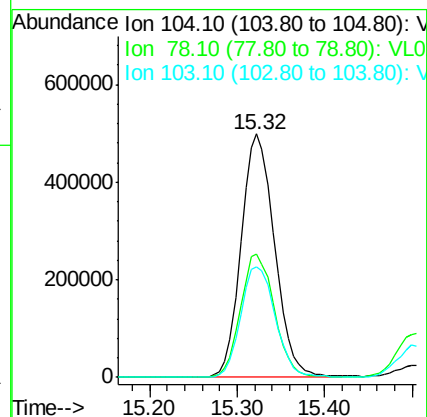
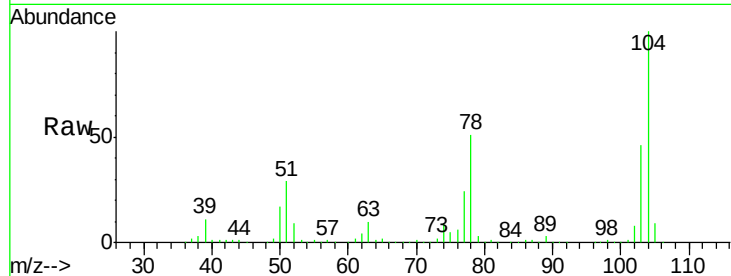
103 47.3 37.4 56.2

Manual Integrations

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#62

Isopropylbenzene

Concen: 8.76 ppbv

RT: 16.56 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VL025611.D

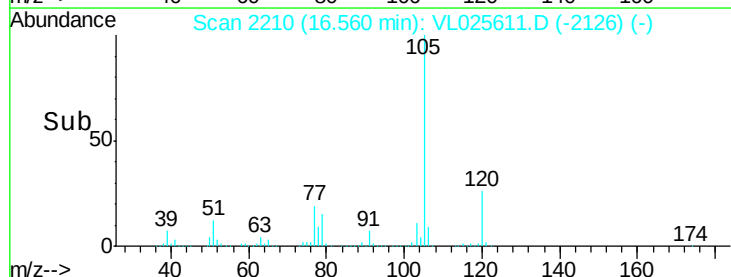
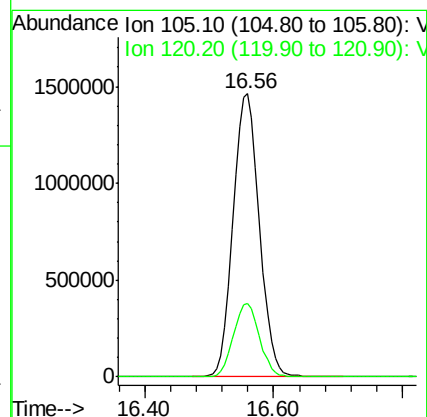
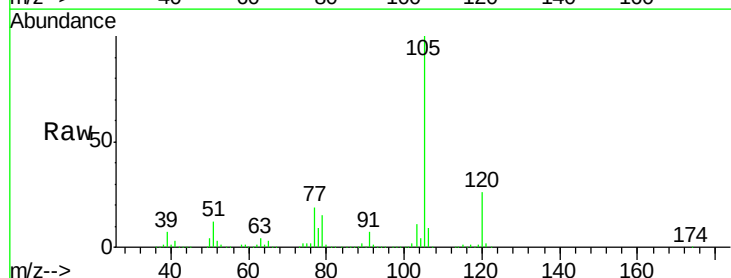
Acq: 7 Jul 2015 15:54

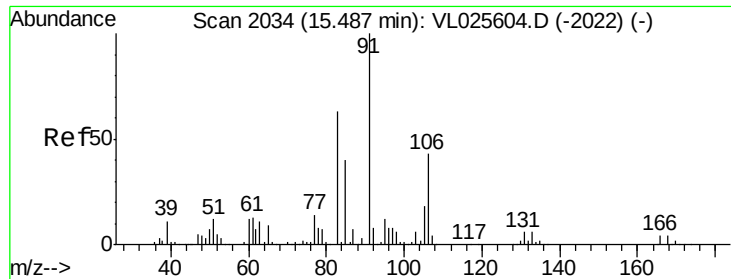
Tgt Ion:105 Resp: 4176531

Ion Ratio Lower Upper

105 100

120 25.8 20.6 31.0





#63

1,1,2,2-Tetrachloroethane

Concen: 7.92 ppbv

RT: 15.50 min Scan# 2036

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL070715

Tot Ion: 83 Resp: 1953587

Ion Ratio Lower Upper

83 100

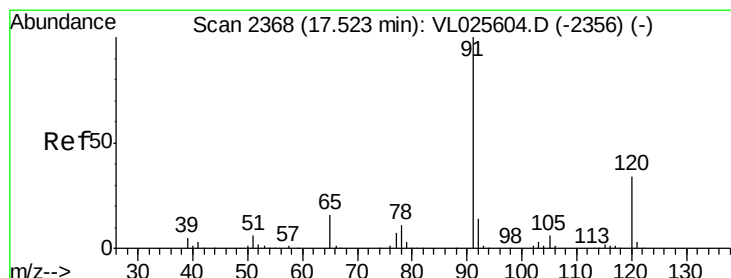
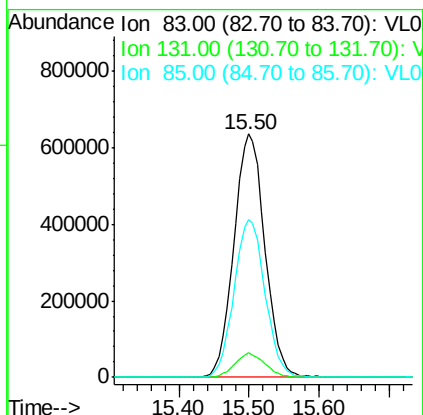
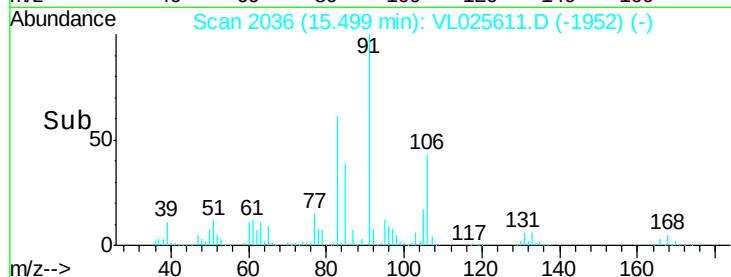
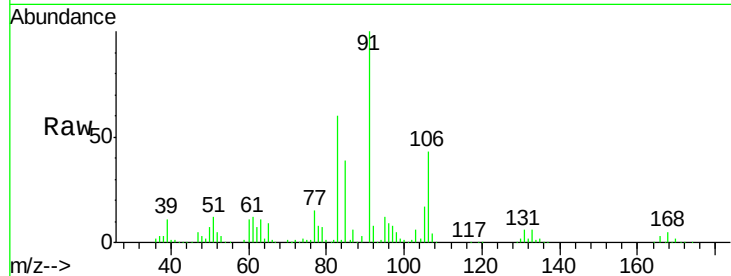
131 9.7 4.8 14.4

85 65.2 32.4 97.2

Manual Integrations
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#64

n-propylbenzene

Concen: 8.83 ppbv

RT: 17.54 min Scan# 2370

Delta R.T. 0.01 min

Lab File: VL025611.D

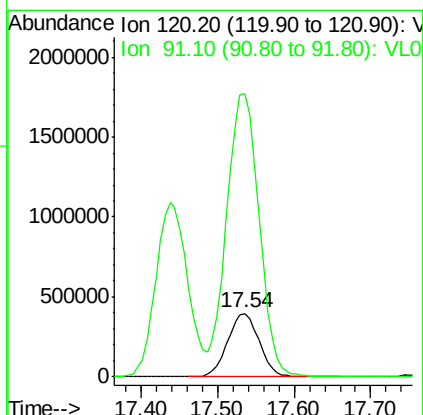
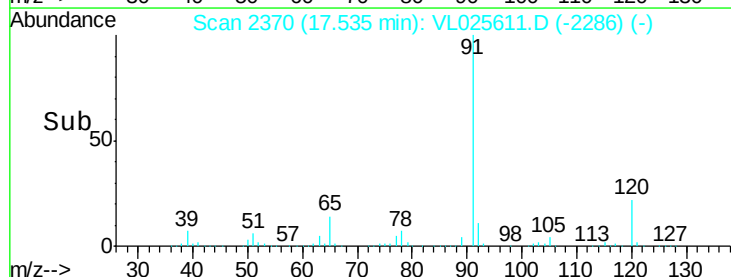
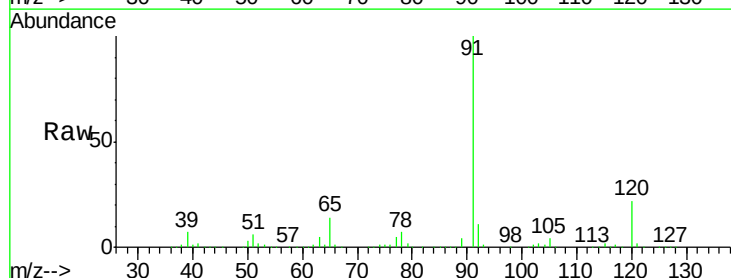
Acq: 7 Jul 2015 15:54

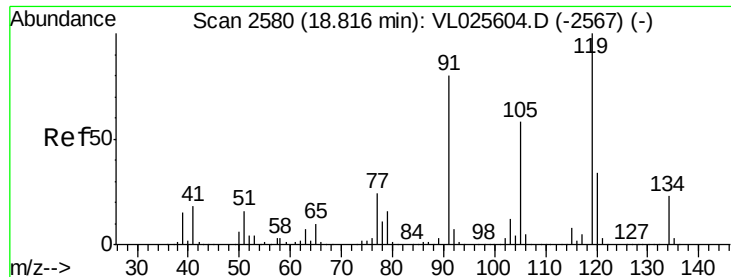
Tgt Ion:120 Resp: 1138723

Ion Ratio Lower Upper

120 100

91 457.3 370.5 555.7





#65

tert-Butylbenzene

Concen: 8.44 ppbv

RT: 18.83 min Scan# 2582

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL070715

Tot Ion:119 Resp: 3953049

Ion Ratio Lower Upper

119 100

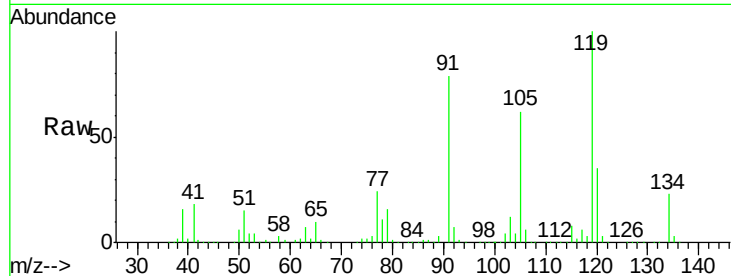
91 80.9 64.5 96.7

134 22.3 17.4 26.0

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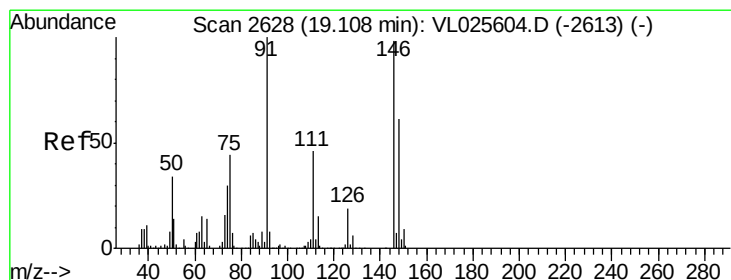
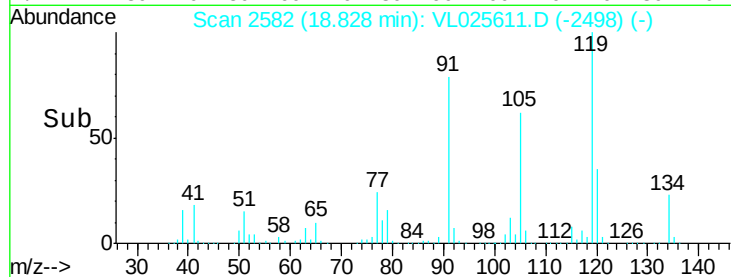
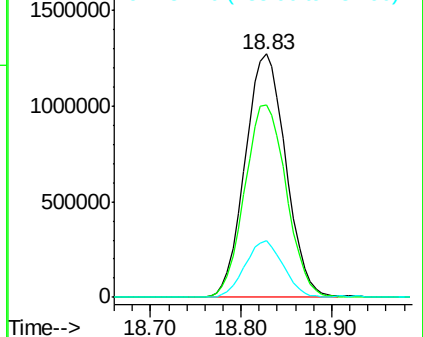
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 7.10 ppbv

RT: 19.11 min Scan# 2629

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

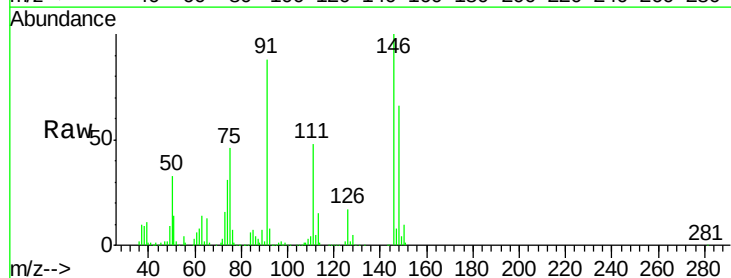
Tgt Ion: 91 Resp: 1220000

Ion Ratio Lower Upper

91 100

126 18.3 14.5 21.7

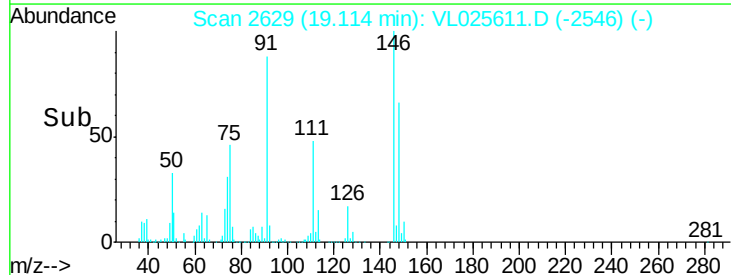
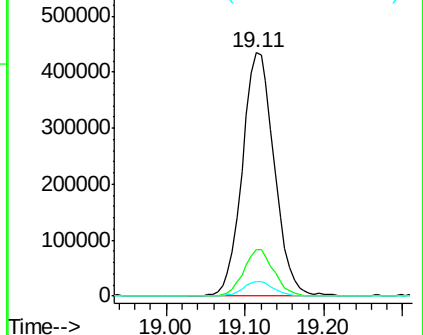
128 5.8 4.6 7.0

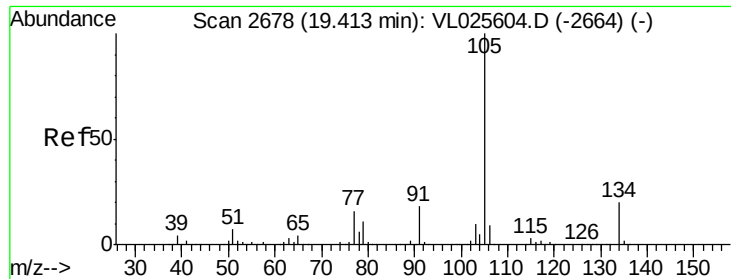


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.60 ppbv

RT: 19.43 min Scan# 2680

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL070715

Tot Ion: 105 Resp: 5642810

Ion Ratio Lower Upper

105 100

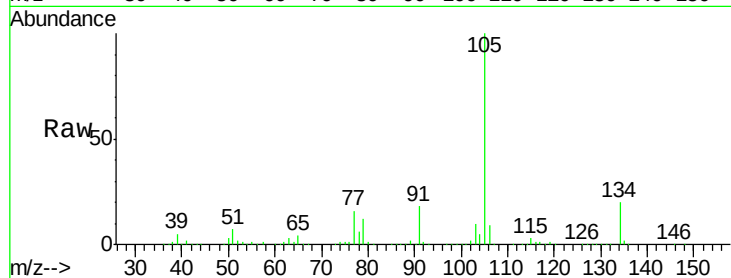
134 19.4 15.4 23.2

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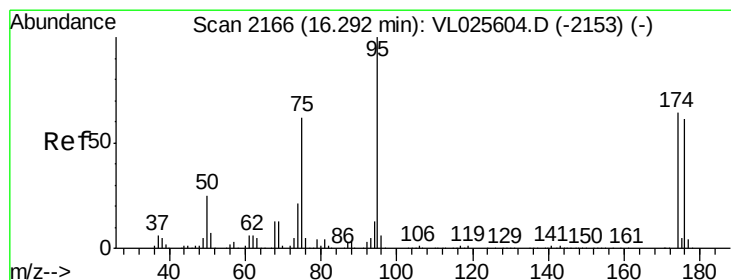
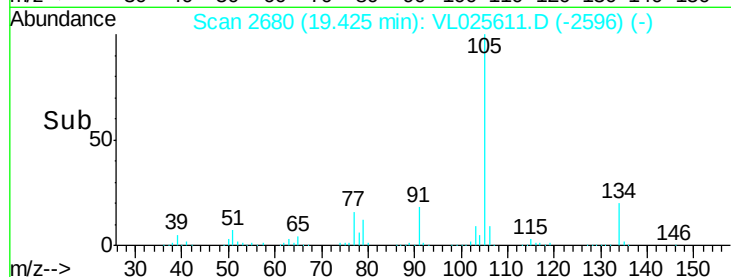
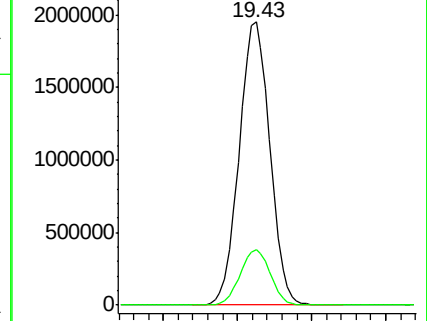
sam

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.79 ppbv

RT: 16.30 min Scan# 2168

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

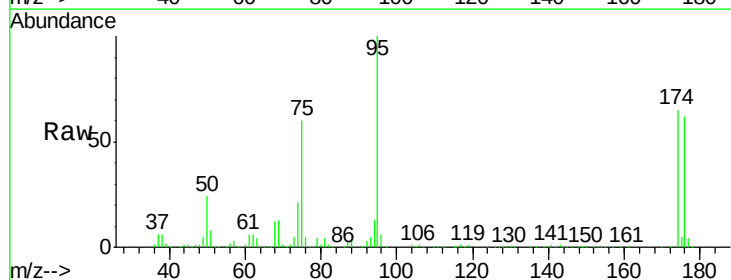
Tgt Ion: 95 Resp: 1926937

Ion Ratio Lower Upper

95 100

174 64.9 52.0 78.0

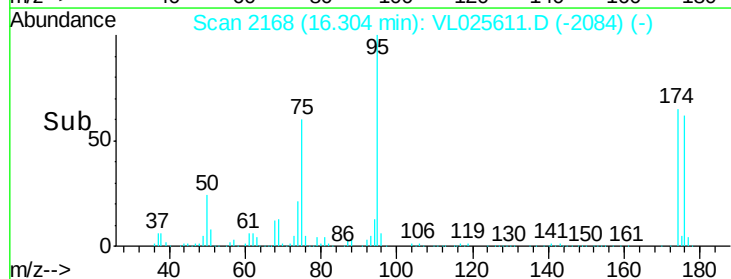
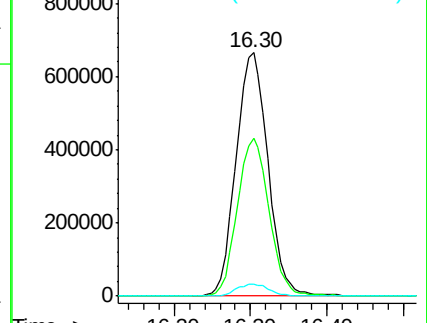
175 5.0 3.9 5.9

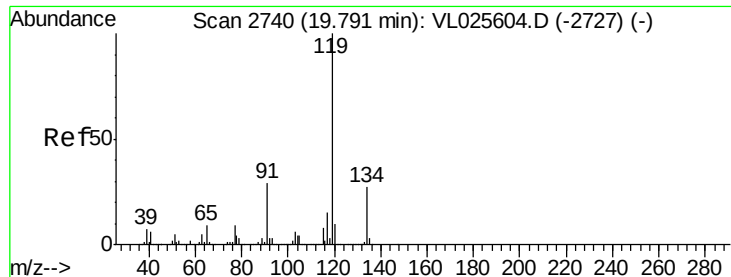


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 9.06 ppbv

RT: 19.80 min Scan# 2742

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL070715

Tot Ion: 119 Resp: 4900119

Ion Ratio Lower Upper

119 100

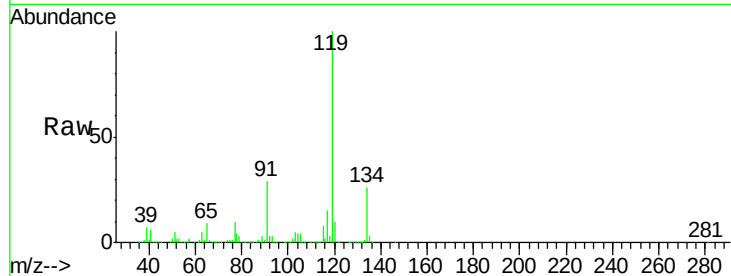
134 25.9 20.7 31.1

91 28.6 22.6 34.0

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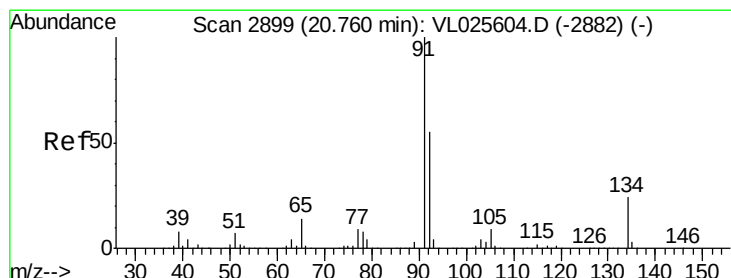
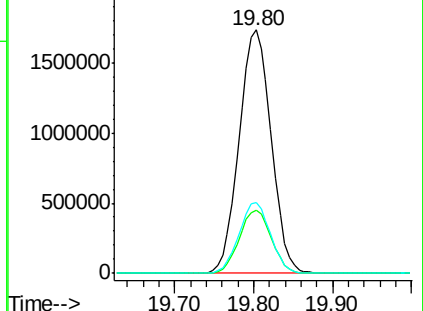
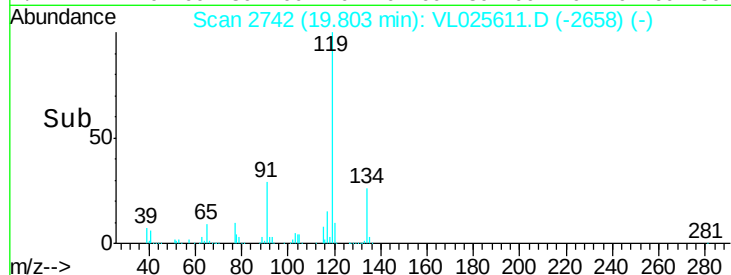
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Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 8.85 ppbv

RT: 20.77 min Scan# 2900

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

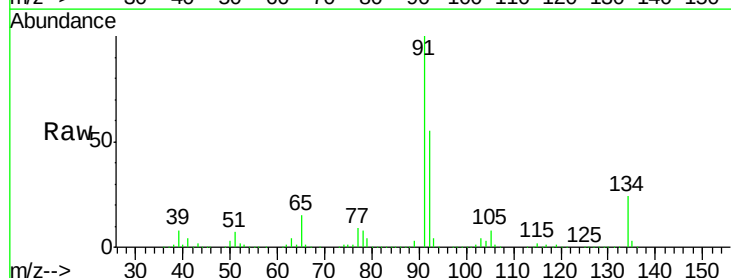
Tgt Ion: 91 Resp: 4852356

Ion Ratio Lower Upper

91 100

92 54.6 44.3 66.5

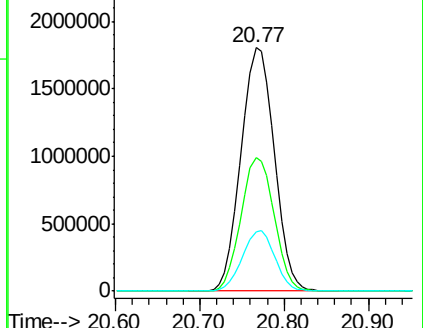
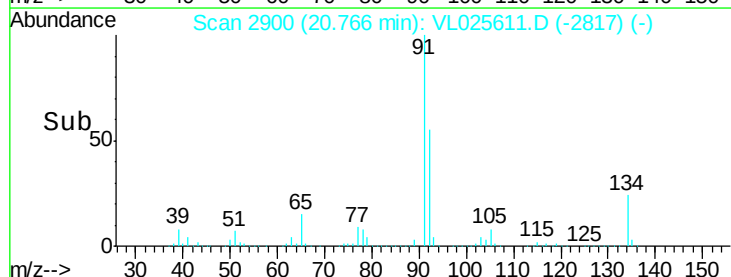
134 24.3 19.4 29.2

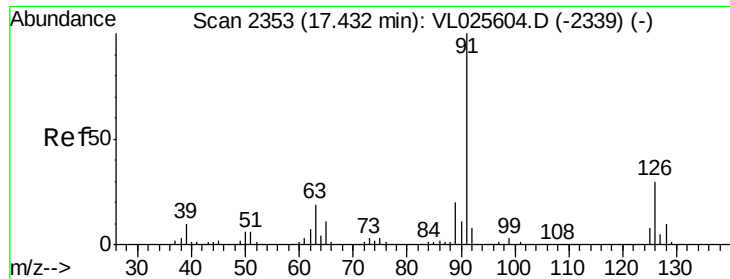


Abundance Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 9.09 ppbv

RT: 17.44 min Scan# 2354

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL070715

Tot Ion: 91 Resp: 3181190

Ion Ratio Lower Upper

91 100

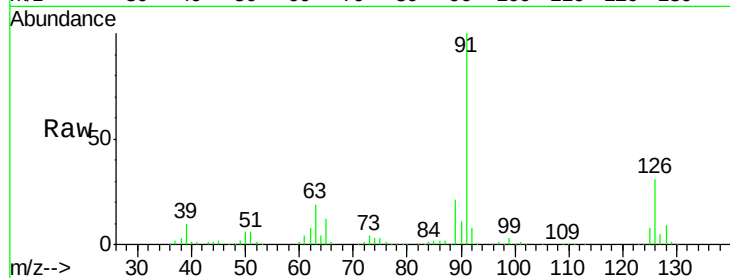
126 31.0 12.2 49.0

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

2000000

1500000

1000000

500000

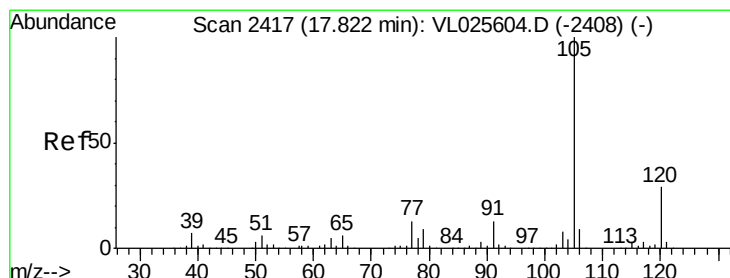
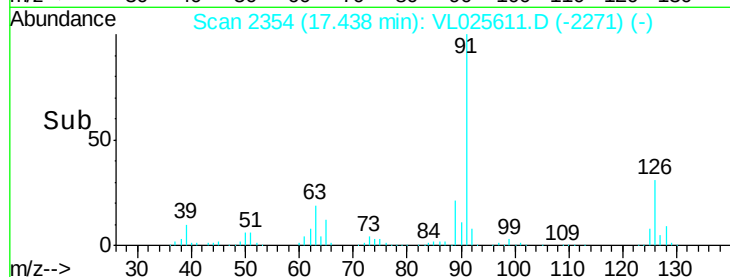
0

17.30

17.40

17.50

Time-->



#72

4-Ethyltoluene

Concen: 9.13 ppbv

RT: 17.83 min Scan# 2419

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Tgt Ion:105 Resp: 3682948

Ion Ratio Lower Upper

105 100

120 29.8 23.9 35.9

91 13.4 10.3 15.5

77 14.0 10.9 16.3

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

2000000

1500000

1000000

500000

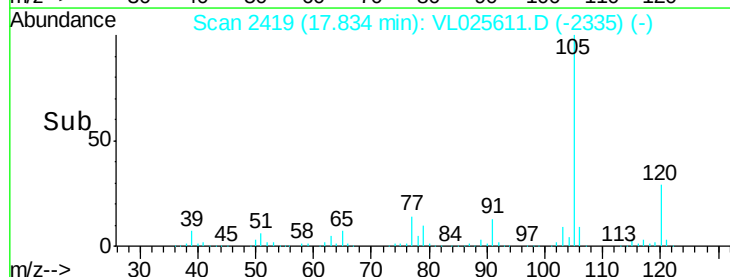
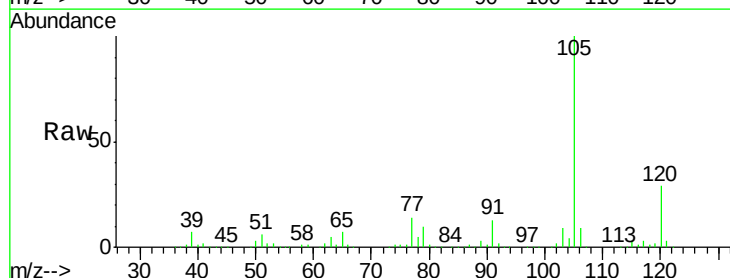
0

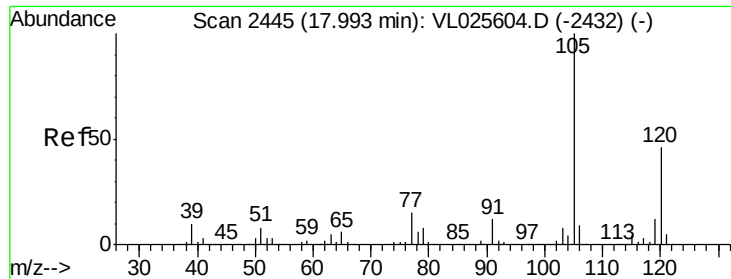
17.70

17.80

17.90

Time-->





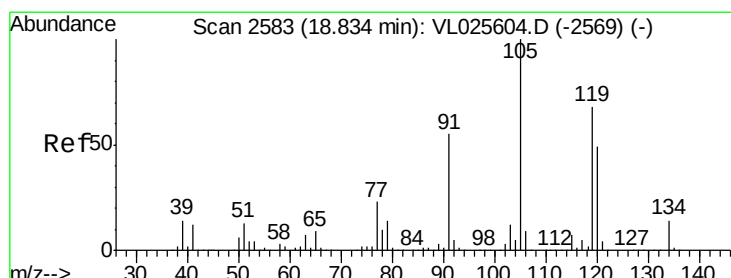
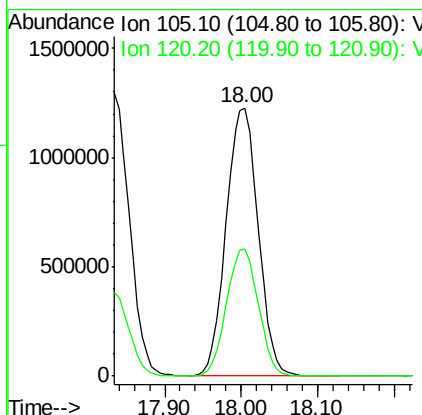
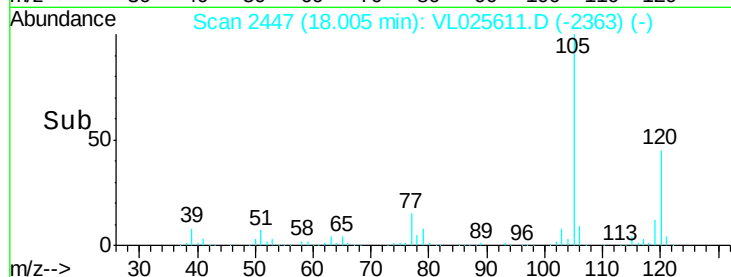
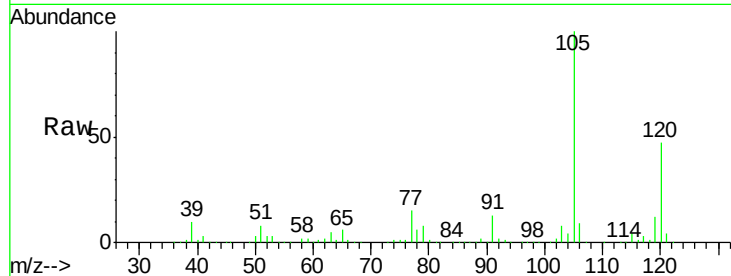
#73
 1,3,5-Trimethylbenzene
 Concen: 8.97 ppbv
 RT: 18.00 min Scan# 2447
 Delta R.T. 0.01 min
 Lab File: VL025611.D
 Acq: 7 Jul 2015 15:54

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL070715

Tot Ion:105 Resp: 3557902
 Ion Ratio Lower Upper
 105 100
 120 47.4 37.0 55.4

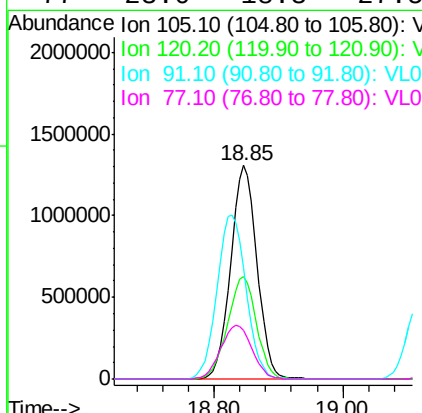
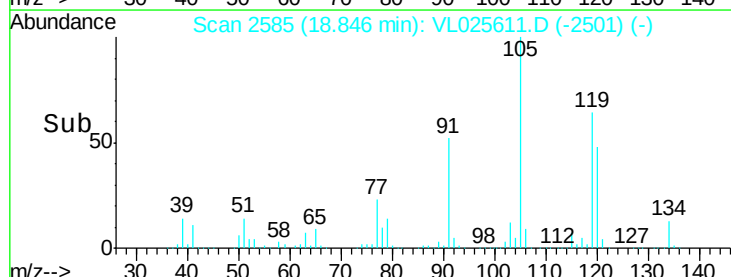
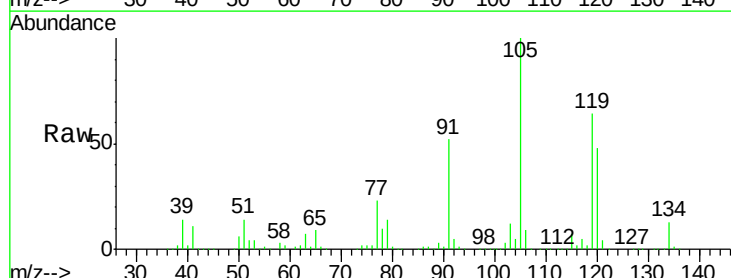
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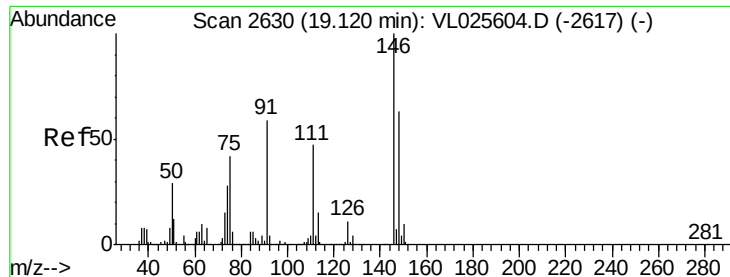
sam
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#74
 1,2,4-Trimethylbenzene
 Concen: 8.39 ppbv
 RT: 18.85 min Scan# 2585
 Delta R.T. 0.01 min
 Lab File: VL025611.D
 Acq: 7 Jul 2015 15:54

Tgt Ion:105 Resp: 3726240
 Ion Ratio Lower Upper
 105 100
 120 47.9 39.3 58.9
 91 52.3 43.8 65.6
 77 23.0 18.3 27.5





#75

1,3-Dichlorobenzene

Concen: 8.19 ppbv

RT: 19.13 min Scan# 2632

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

Instrument :

MSVOA_L

ClientSampleId :

ICVVL070715

Tot Ion:146 Resp: 2368333

Ion Ratio Lower Upper

146 100

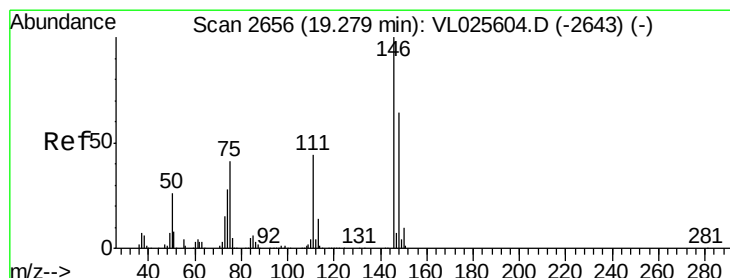
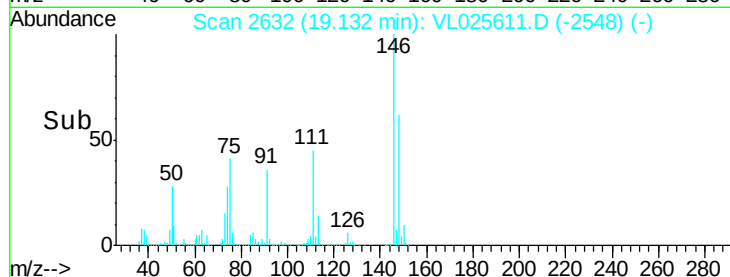
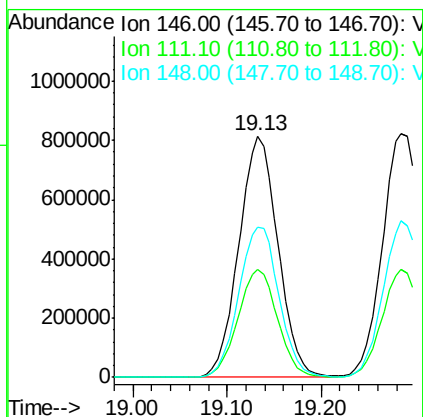
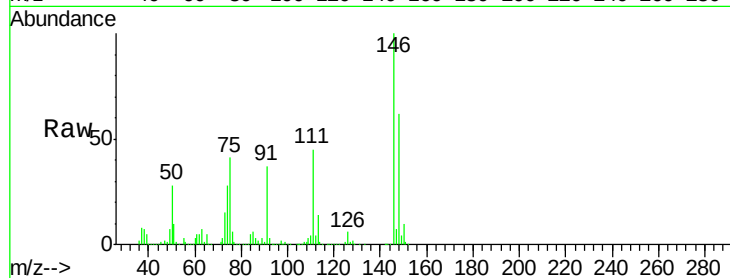
111 45.2 22.7 68.1

148 64.0 31.8 95.3

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#76

1,4-Dichlorobenzene

Concen: 8.39 ppbv

RT: 19.28 min Scan# 2657

Delta R.T. 0.01 min

Lab File: VL025611.D

Acq: 7 Jul 2015 15:54

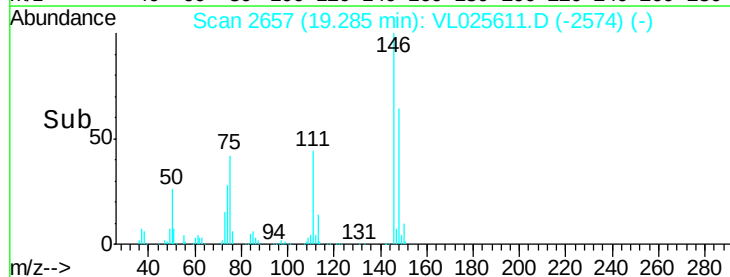
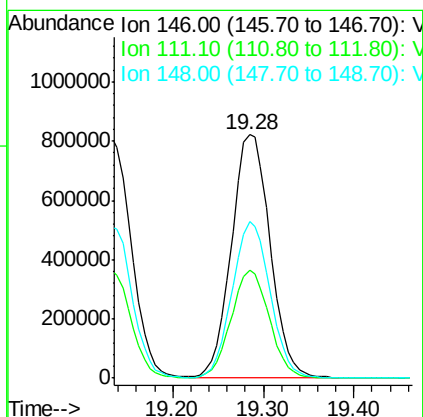
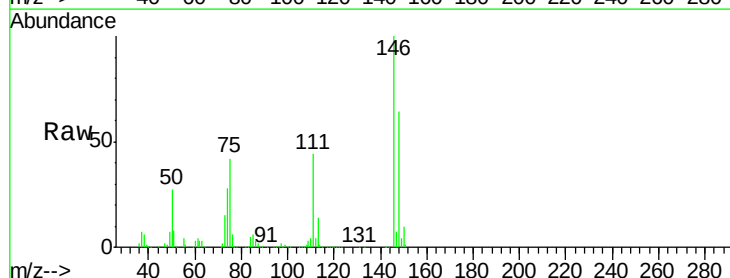
Tgt Ion:146 Resp: 2428923

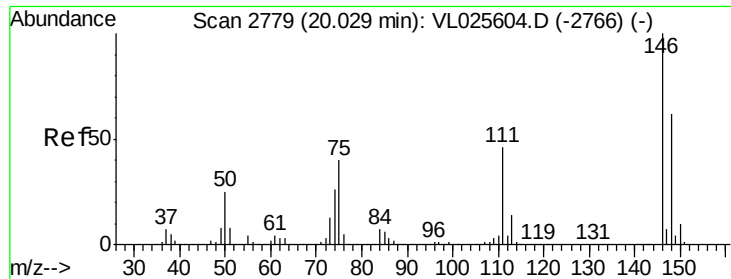
Ion Ratio Lower Upper

146 100

111 44.1 22.1 66.1

148 63.2 31.9 95.9





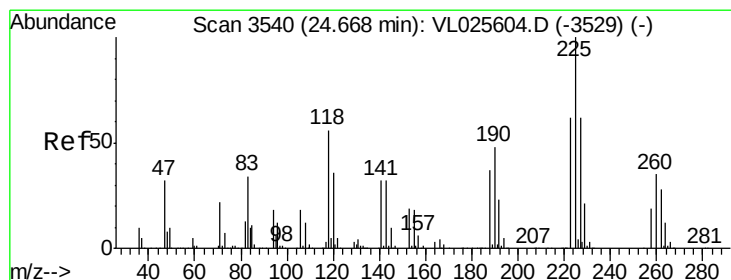
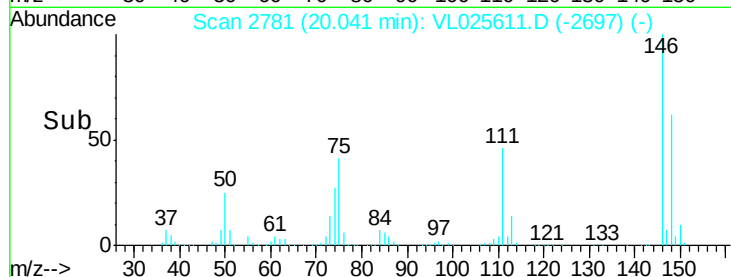
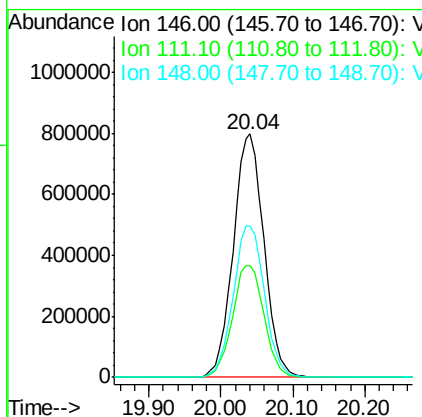
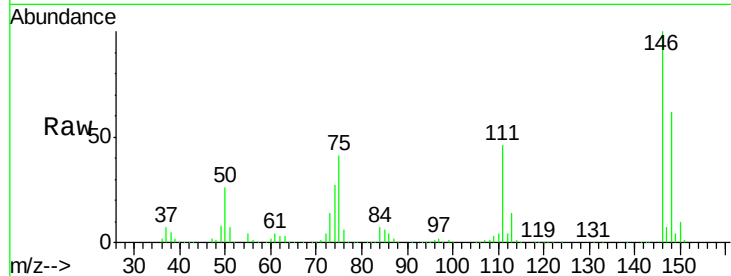
#77
 1,2-Dichlorobenzene
 Concen: 8.23 ppbv
 RT: 20.04 min Scan# 2781
 Delta R.T. 0.01 min
 Lab File: VL025611.D
 Acq: 7 Jul 2015 15:54

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL070715

Tot Ion:146 Resp: 2360009
 Ion Ratio Lower Upper
 146 100
 111 47.4 23.4 70.3
 148 63.5 31.6 94.8

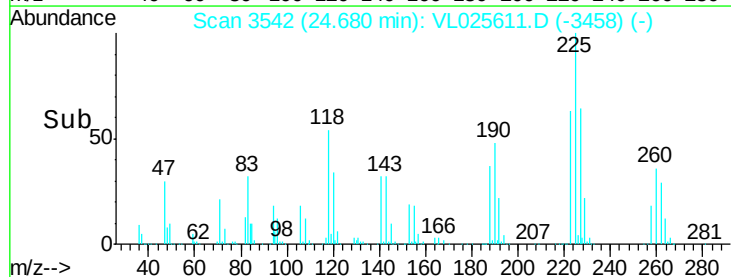
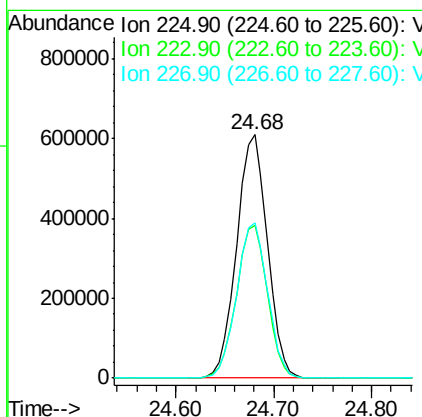
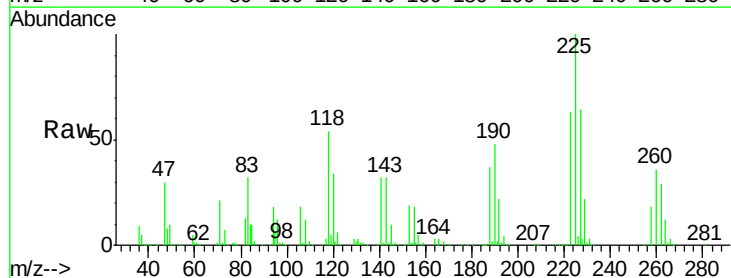
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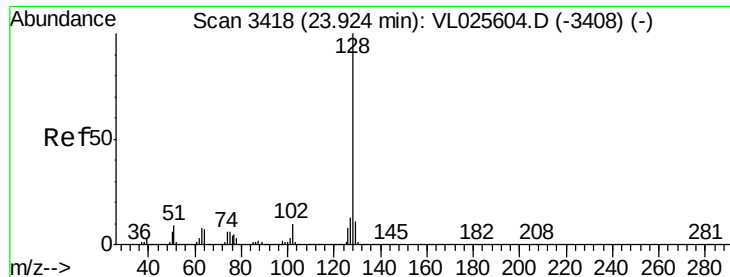
sam
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#78
 Hexachloro-1,3-Butadiene
 Concen: 7.56 ppbv
 RT: 24.68 min Scan# 3542
 Delta R.T. 0.01 min
 Lab File: VL025611.D
 Acq: 7 Jul 2015 15:54

Tgt Ion:225 Resp: 1333930
 Ion Ratio Lower Upper
 225 100
 223 63.3 50.6 76.0
 227 64.1 50.5 75.7





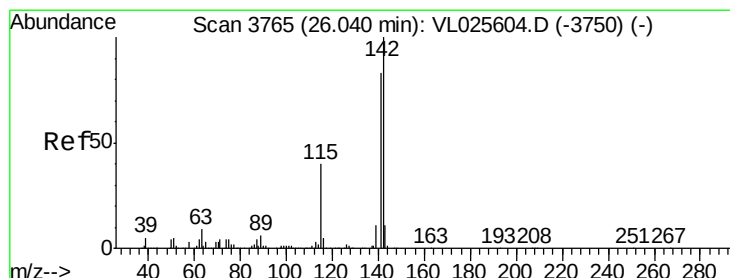
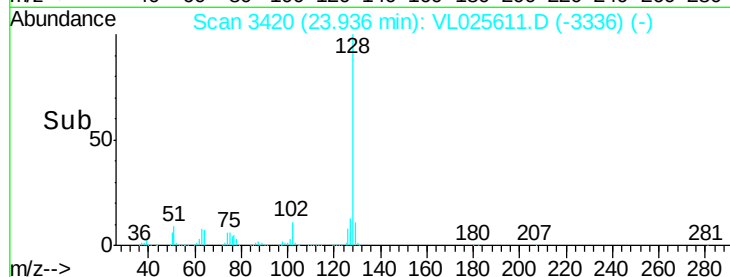
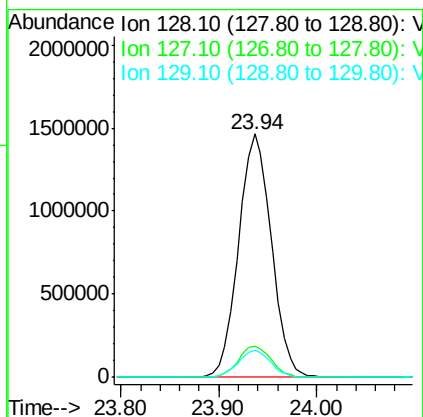
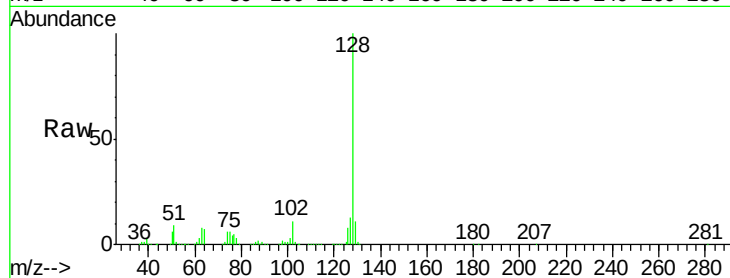
#79
Naphthalene
Concen: 7.94 ppbv
RT: 23.94 min Scan# 3420
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Instrument :
MSVOA_L
ClientSampleId :
ICVVL070715

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.8	16.2
129	11.3	9.0	13.4

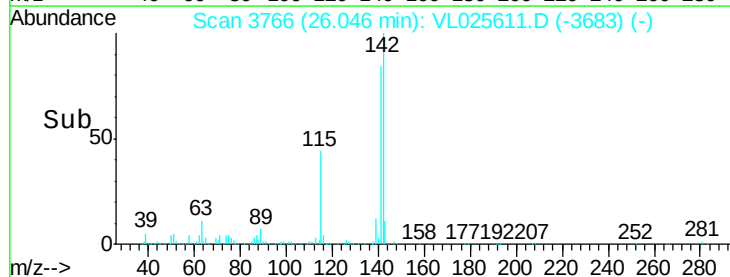
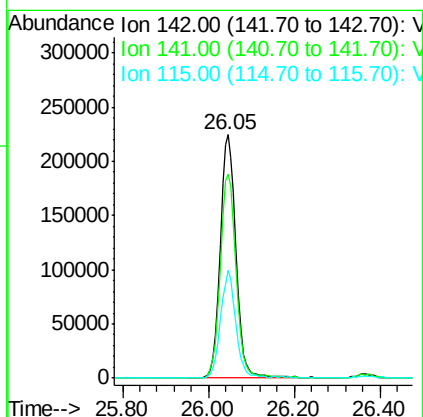
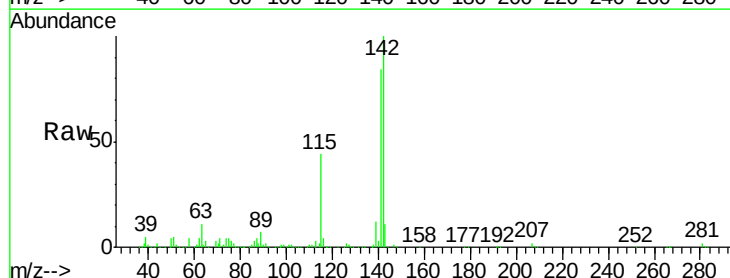
Manual Integrations
APPROVED

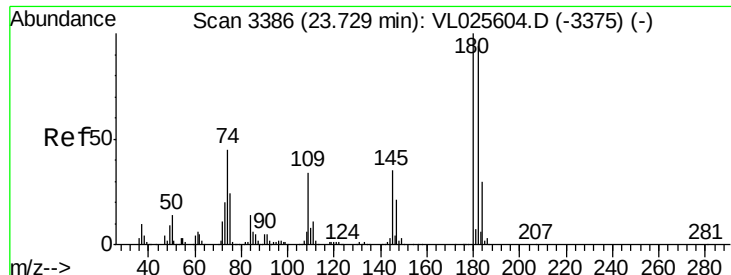
sam
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#80
Naphthalene, 2-methyl-
Concen: 4.69 ppbv
RT: 26.05 min Scan# 3766
Delta R.T. 0.01 min
Lab File: VL025611.D
Acq: 7 Jul 2015 15:54

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.8	67.1	100.7
115	42.4	33.9	50.9





#81
 1,2,4-Trichlorobenzene
 Concen: 8.58 ppbv
 RT: 23.74 min Scan# 3388
 Delta R.T. 0.01 min
 Lab File: VL025611.D
 Acq: 7 Jul 2015 15:54

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL070715

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.1	114.1
184	30.5	24.4	36.6

Manual Integrations
 APPROVED

sam
 7/8/2015 11:06:09 AM

