

Data Path : W:\HPCHEM1\MSVOA L\Data\VL102015\
 Data File : VL026231.D
 Acq On : 21 Oct 2015 7:32
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 10/22/2015 4:33:26 PM

Quant Time: Oct 21 08:24:00 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 21 08:24:00 2015
 QLast Update : Wed Oct 21 01:20:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.63	49	505427	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.31	114	1567591	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.72	117	1927734m	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.26	95	1503076	10.11	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.62	85	1137082	10.86	ppbv	99
3) Chlorodifluoromethane	3.56	51	641518	10.02	ppbv	100
4) Chloromethane	3.73	50	363720	10.53	ppbv	99
5) Vinyl Chloride	3.87	62	383009	10.54	ppbv	99
6) Bromomethane	4.12	94	279900	10.73	ppbv	95
7) Chloroethane	4.22	64	164908	10.81	ppbv	99
8) Dichlorotetrafluoroethane	3.79	85	924706	10.27	ppbv	99
9) Propene	3.58	41	296156	9.89	ppbv	100
10) Heptane	9.33	43	996468	9.94	ppbv	99
11) Trichlorofluoromethane	4.68	101	1100338	10.71	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	5.29	101	732933	10.45	ppbv	99
13) Ethanol	4.32	45	57706	12.84	ppbv	98
14) Bromoethene	4.43	108	317982	10.74	ppbv	99
15) Acetone	4.59	43	667628	8.97	ppbv	100
16) 1,3-Butadiene	3.95	39	338083	10.19	ppbv	99
17) tert-Butyl alcohol	5.12	59	519089	10.21	ppbv	96
18) 1,1-Dichloroethene	5.07	96	340350	10.75	ppbv	98
19) Isopropyl Alcohol	4.74	45	339579	11.67	ppbv	95
20) Methylene Chloride	5.13	84	309934	10.44	ppbv	97
21) Allyl Chloride	5.21	41	515002	10.60	ppbv	99
22) trans-1,2-Dichloroethene	5.74	96	421890	10.33	ppbv	99
23) Vinyl Acetate	5.96	43	1400780	10.21	ppbv	100
24) 1,1-Dichloroethane	5.89	63	877590	10.14	ppbv	100
25) Ethyl Acetate	6.65	43	1390464	9.97	ppbv	100
26) Hexane	6.63	57	685175	9.83	ppbv	100
27) Carbon Disulfide	5.37	76	957433	10.74	ppbv	100
28) Methyl tert-Butyl Ether	5.93	73	1275564	10.07	ppbv	100
29) Chloroform	6.73	83	1035223	10.23	ppbv	100
30) Cyclohexane	8.26	84	693037	9.94	ppbv	100
31) cis-1,2-Dichloroethene	6.49	61	649057	10.26	ppbv	99
32) 1,1,1-Trichloroethane	7.57	97	1097186	9.78	ppbv	99
34) 2-Butanone	6.18	43	867636	9.79	ppbv	99
35) Carbon Tetrachloride	8.13	117	1145262	9.59	ppbv	98
36) Benzene	8.00	78	1541782	9.66	ppbv	99
37) 1,2-Dichloroethane	7.35	62	836994	10.20	ppbv	100
38) Trichloroethene	9.04	130	641673	8.28	ppbv	98
39) 1,2-Dichloropropane	8.81	63	550094	9.80	ppbv	99
40) 1,4-Dioxane	9.10	88	149488	14.17	ppbv	92
41) Tetrahydrofuran	7.10	42	511224	9.97	ppbv	99
42) Bromodichloromethane	9.00	83	1170121	9.91	ppbv	99
43) Methyl Methacrylate	9.24	69	597434	10.28	ppbv	99

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Quant Time: Oct 21 08:24:00 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 21 2015
 QLast Update : Wed Oct 21 01:20:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.06	57	2446003	9.46	ppbv	100
45) t-1,3-Dichloropropene	10.63	75	942384	10.39	ppbv	100
46) cis-1,3-Dichloropropene	9.99	75	1076050	10.14	ppbv	100
47) 1,1,2-Trichloroethane	10.85	97	699965	9.92	ppbv	99
48) Dibromochloromethane	11.77	129	1158237	10.08	ppbv	100
49) Bromoform	14.79	173	966368	9.95	ppbv	100
50) 4-Methyl-2-Pentanone	10.07	43	1227911	10.27	ppbv	99
51) 2-Hexanone	11.60	43	1176300	10.53	ppbv #	100
52) Tetrachloroethene	12.76	164	989287	10.80	ppbv	99
53) Toluene	11.21	91	2101737	9.68	ppbv	99
54) 1,2-Dibromoethane	12.12	107	1077063	9.87	ppbv	99
56) 1,1,1,2-Tetrachloroethane	13.76	131	831999	9.00	ppbv	99
57) Chlorobenzene	13.79	112	1730381	9.38	ppbv	99
58) Ethyl Benzene	14.38	91	3017888	9.66	ppbv	100
59) m/p-Xylene	14.68	91	4651876	19.02	ppbv	99
60) o-Xylene	15.46	91	2382073	9.32	ppbv	99
61) Styrene	15.28	104	1200433	10.38	ppbv	99
62) Isopropylbenzene	16.51	105	3369484	9.47	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.46	83	1551291	9.17	ppbv	100
64) n-propylbenzene	17.49	120	936079	9.57	ppbv	95
65) tert-Butylbenzene	18.78	119	2917705	8.98	ppbv	100
66) Benzyl Chloride	19.07	91	1318611	9.84	ppbv	100
67) sec-Butylbenzene	19.38	105	4228931	9.34	ppbv	100
69) p-Isopropyltoluene	19.75	119	3509415	9.27	ppbv	100
70) n-Butylbenzene	20.72	91	3294503	9.52	ppbv	99
71) 2-Chlorotoluene	17.39	91	2497388	9.53	ppbv	99
72) 4-Ethyltoluene	17.79	105	2876851	9.67	ppbv	100
73) 1,3,5-Trimethylbenzene	17.96	105	2657297	9.58	ppbv	100
74) 1,2,4-Trimethylbenzene	18.80	105	2598253	9.04	ppbv	96
75) 1,3-Dichlorobenzene	19.09	146	1733744	9.23	ppbv	100
76) 1,4-Dichlorobenzene	19.24	146	1824998	9.30	ppbv	100
77) 1,2-Dichlorobenzene	19.99	146	1763553	9.31	ppbv	100
78) Hexachloro-1,3-Butadiene	24.64	225	720946	7.42	ppbv	99
79) Naphthalene	23.90	128	2228062	8.79	ppbv	100
80) Naphthalene, 2-methyl-	26.01	142	592337	13.02	ppbv	100
81) 1,2,4-Trichlorobenzene	23.70	180	1011494	8.29	ppbv	100

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

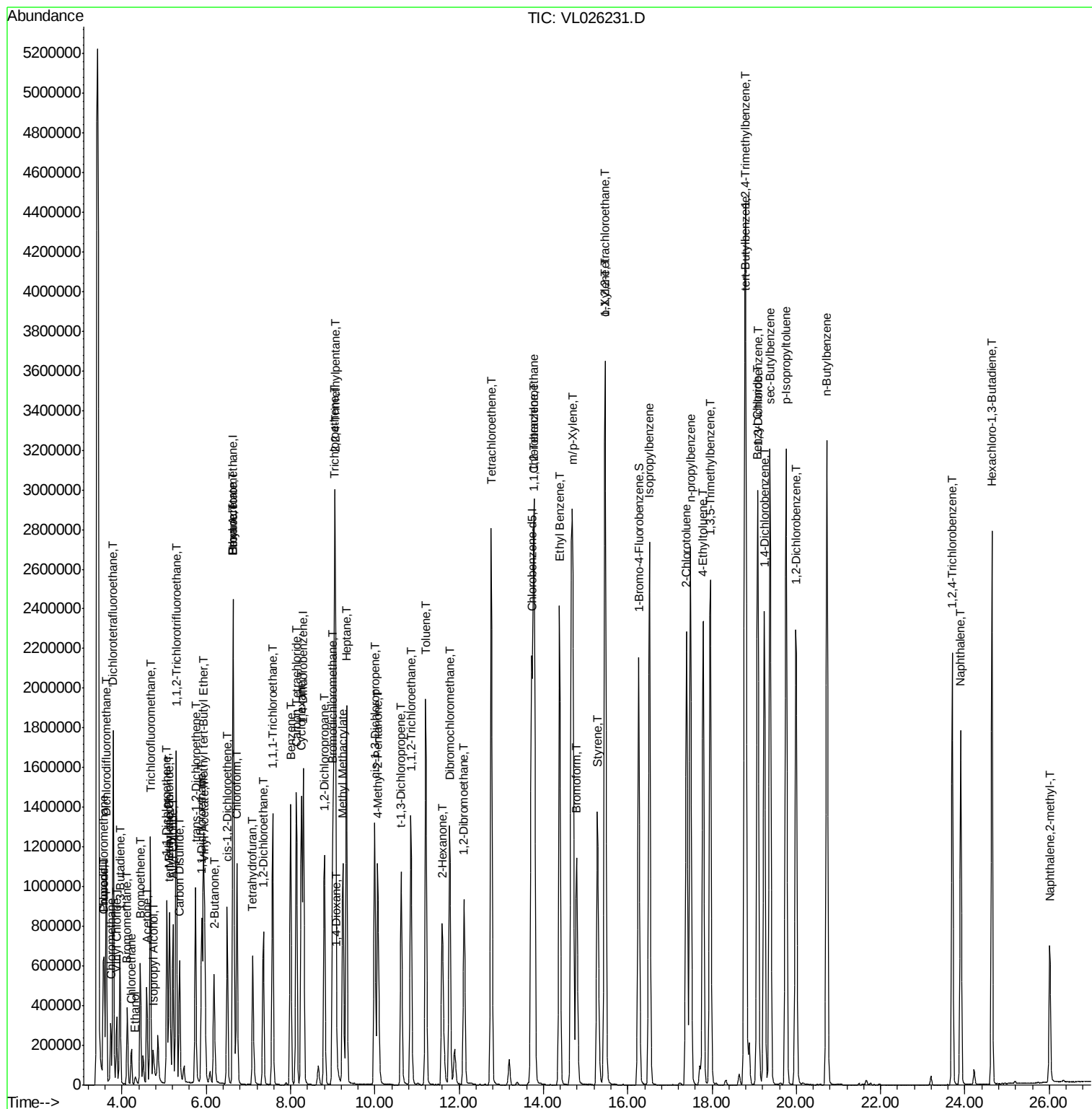
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Data Path : W:\HPCHEM1\MSVOA L\Data\VL102015\  
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Acq On    : 21 Oct 2015    7:32  
Operator  : SY/MD  
Sample    : VSTDCCC010  
Misc      : 400mL/MSVOA L  
ALS Vial  : 1    Sample Multiplier: 1
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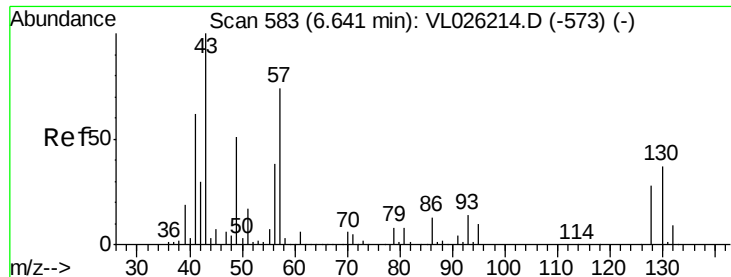
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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Quant Time: Oct 21 08:24:00 2015
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
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QLast Update : Wed Oct 21 01:20:55 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.63 min Scan# 582

Delta R.T. -0.01 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 505427

Ion Ratio Lower Upper

49 100

128 55.4 28.2 84.7

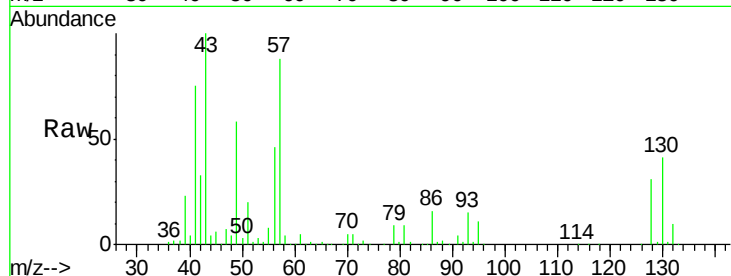
130 71.5 36.0 108.1

Manual Integrations

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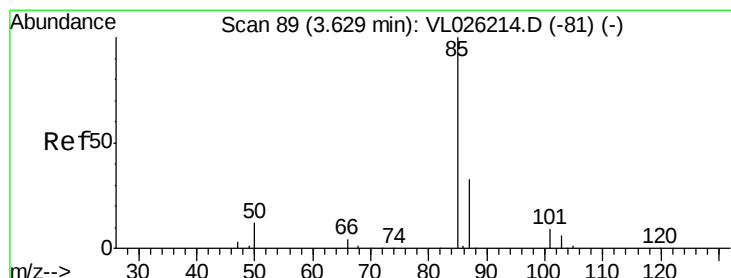
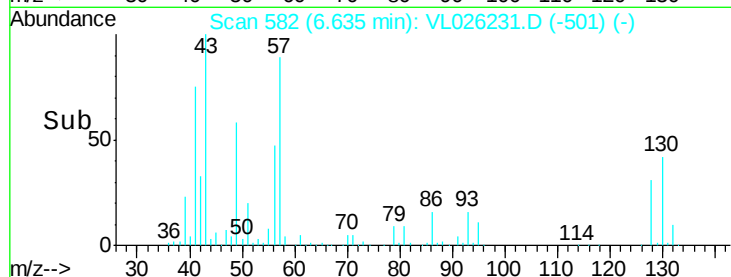
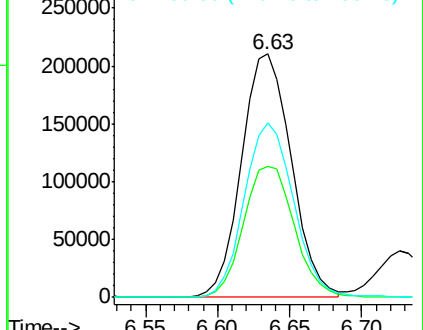
10/22/2015 4:33:26 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 10.86 ppbv

RT: 3.62 min Scan# 88

Delta R.T. -0.01 min

Lab File: VL026231.D

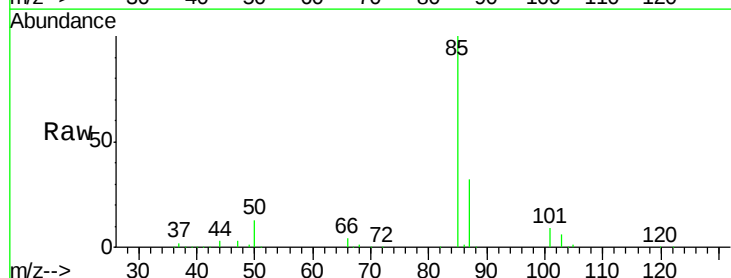
Acq: 21 Oct 2015 7:32

Tgt Ion: 85 Resp: 1137082

Ion Ratio Lower Upper

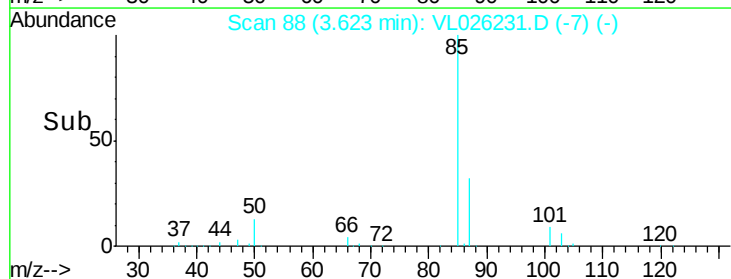
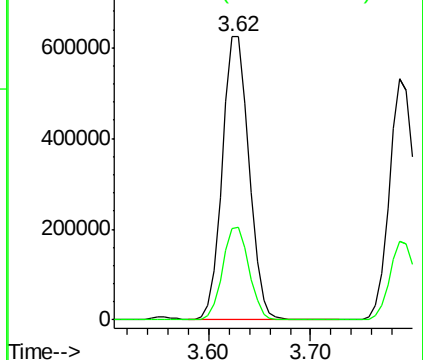
85 100

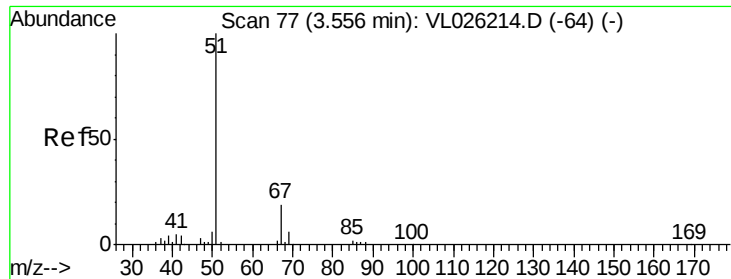
87 32.2 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.02 ppbv

RT: 3.56 min Scan# 77

Delta R.T. -0.00 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 51 Resp: 641518

Ion Ratio Lower Upper

51 100

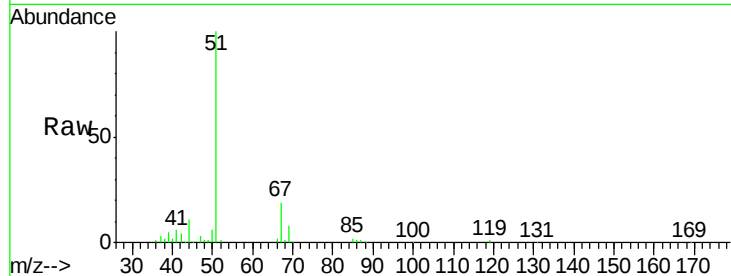
67 18.9 15.3 22.9

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.56

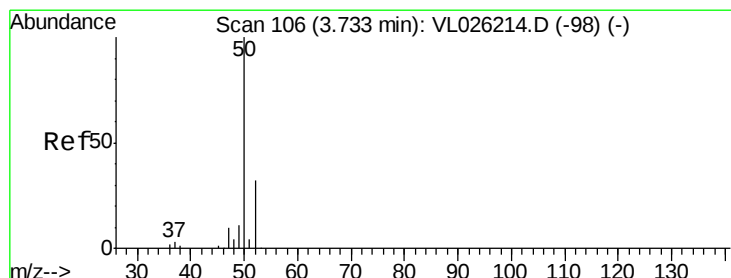
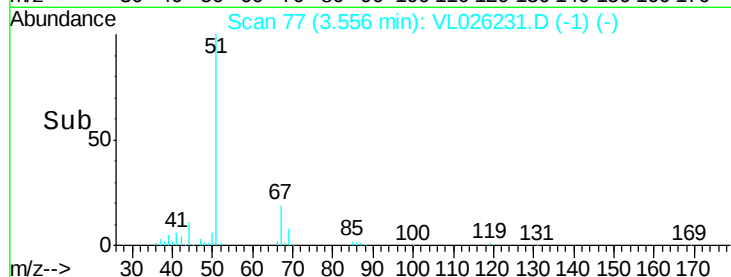
300000

200000

100000

0

Time-->



#4

Chloromethane

Concen: 10.53 ppbv

RT: 3.73 min Scan# 106

Delta R.T. -0.00 min

Lab File: VL026231.D

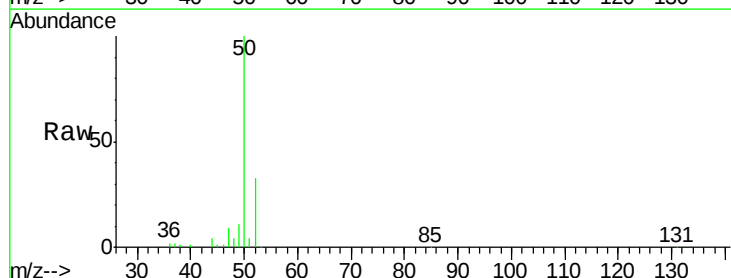
Acq: 21 Oct 2015 7:32

Tgt Ion: 50 Resp: 363720

Ion Ratio Lower Upper

50 100

52 32.9 25.8 38.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.73

200000

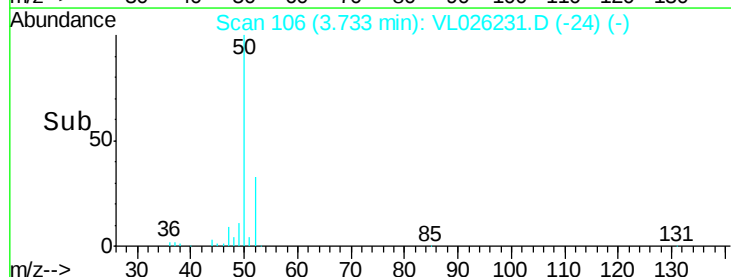
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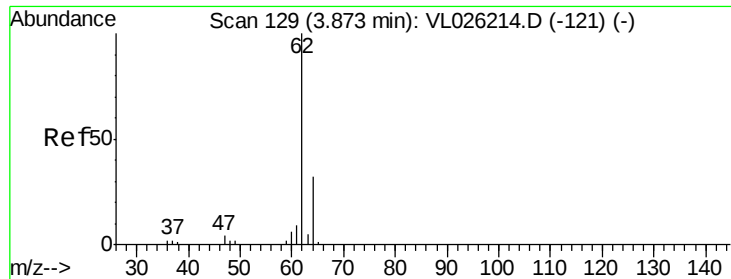
100000

50000

0

Time-->





#5

Vinyl Chloride

Concen: 10.54 ppbv

RT: 3.87 min Scan# 129

Delta R.T. -0.00 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 383009

Ion Ratio Lower Upper

62 100

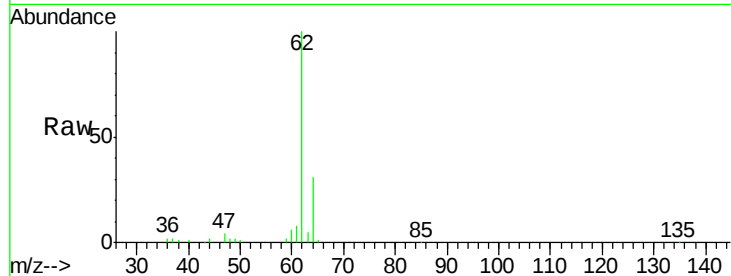
64 31.4 25.6 38.4

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.87

200000

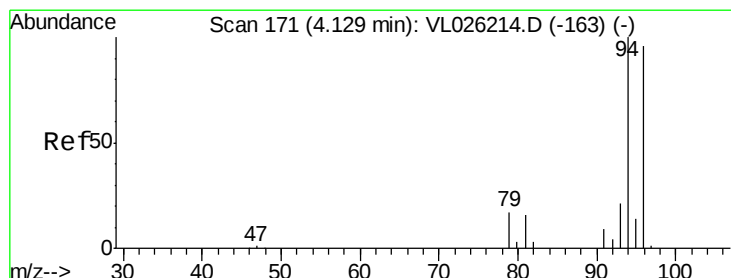
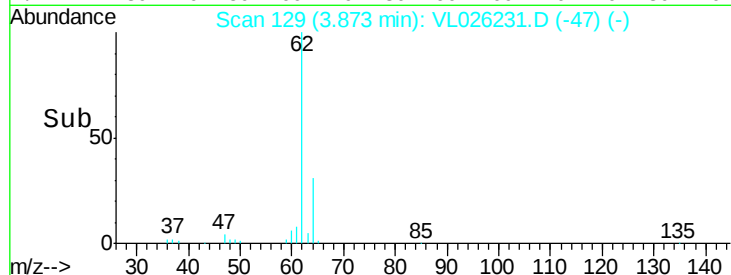
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 10.73 ppbv

RT: 4.12 min Scan# 170

Delta R.T. -0.01 min

Lab File: VL026231.D

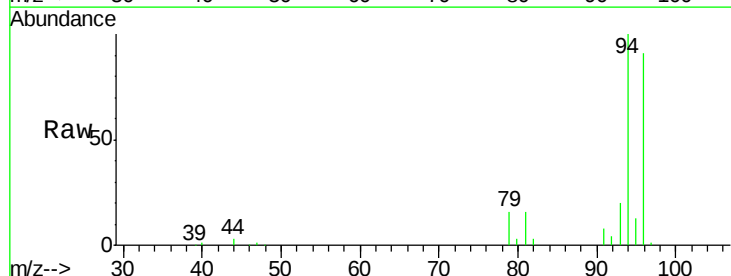
Acq: 21 Oct 2015 7:32

Tgt Ion: 94 Resp: 279900

Ion Ratio Lower Upper

94 100

96 91.2 76.5 114.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

4.12

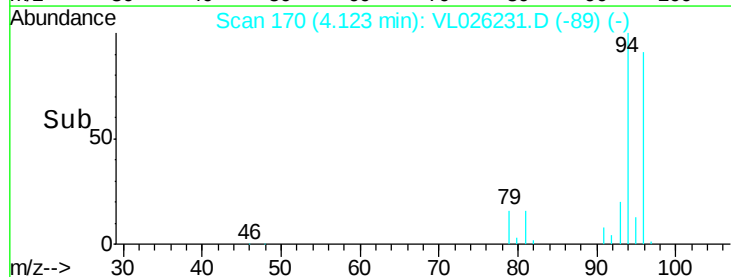
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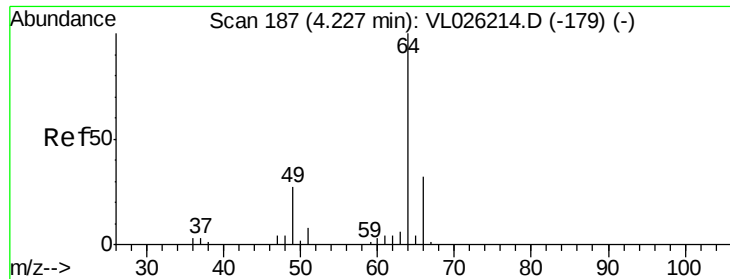
100000

50000

0

Time-->





#7

Chloroethane

Concen: 10.81 ppbv

RT: 4.22 min Scan# 186

Delta R.T. -0.01 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 164908

Ion Ratio Lower Upper

64 100

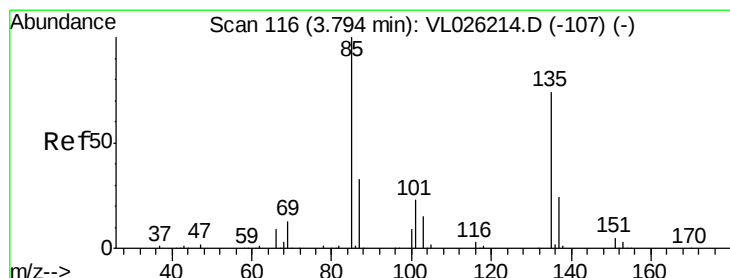
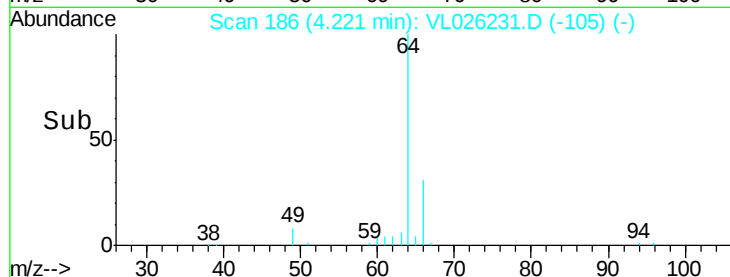
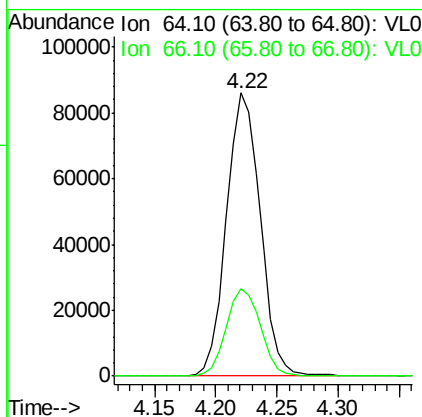
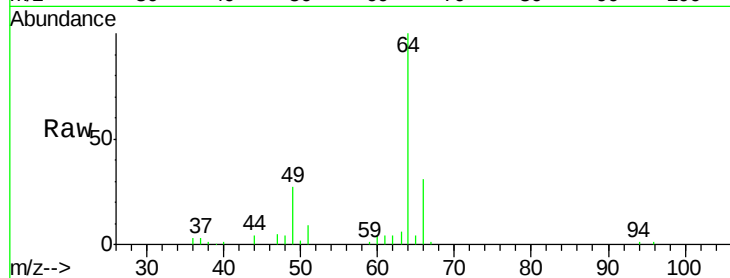
66 30.9 25.4 38.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 10.27 ppbv

RT: 3.79 min Scan# 115

Delta R.T. -0.01 min

Lab File: VL026231.D

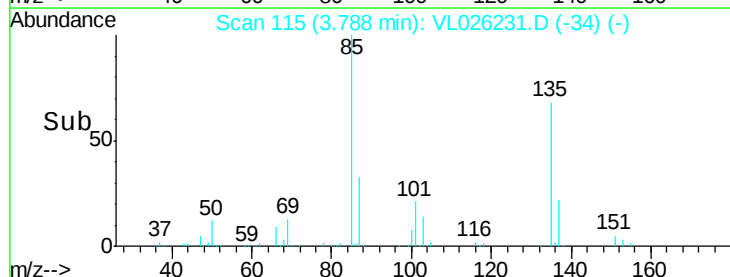
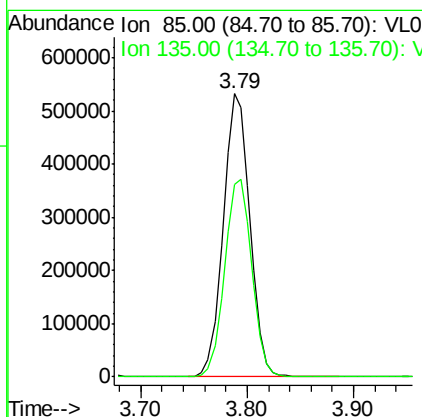
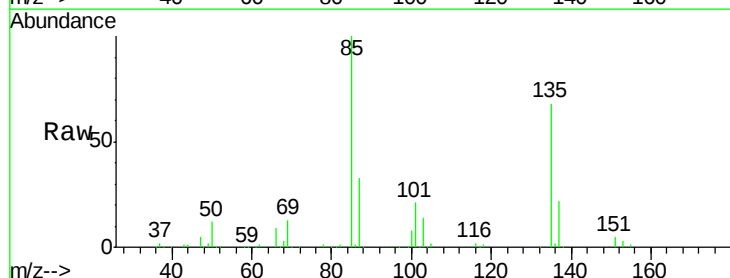
Acq: 21 Oct 2015 7:32

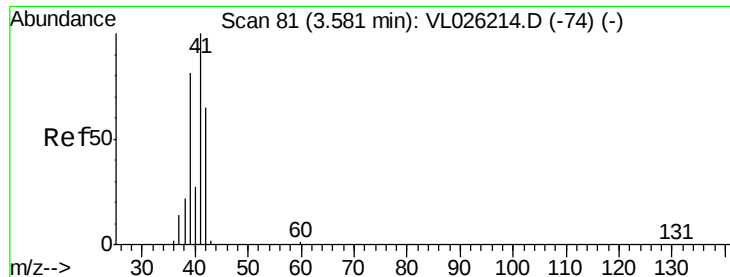
Tgt Ion: 85 Resp: 924706

Ion Ratio Lower Upper

85 100

135 71.8 57.8 86.8





#9

Propene

Concen: 9.89 ppbv

RT: 3.58 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 296156

Ion Ratio Lower Upper

41 100

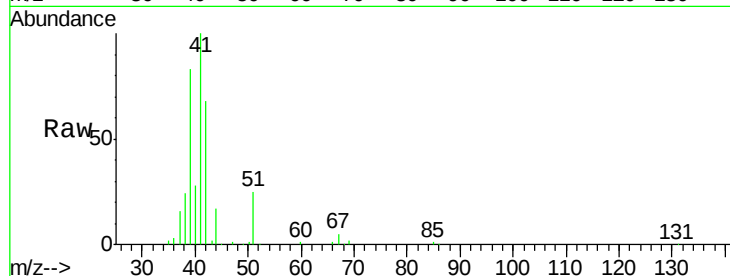
42 67.5 53.8 80.8

Manual Integrations

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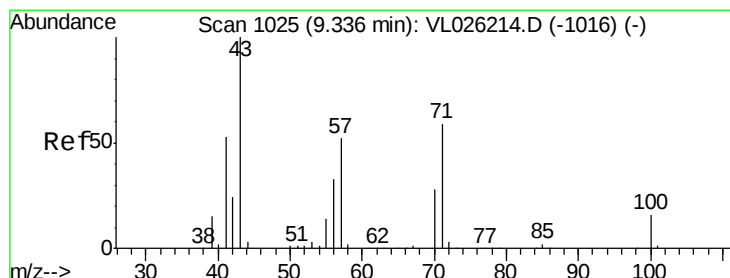
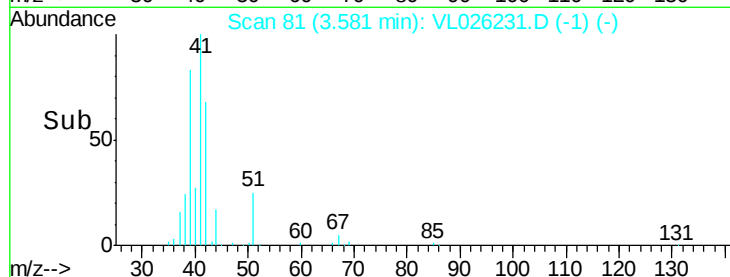
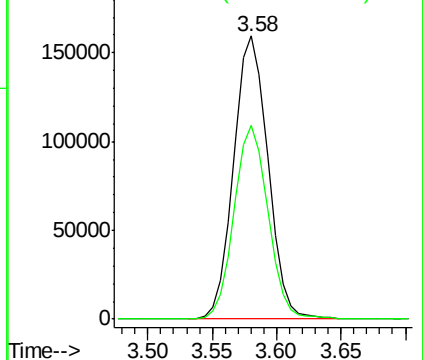
MMDadoda

10/22/2015 4:33:26 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.94 ppbv

RT: 9.33 min Scan# 1024

Delta R.T. -0.01 min

Lab File: VL026231.D

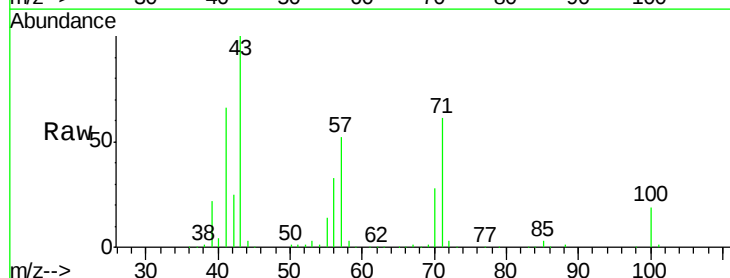
Acq: 21 Oct 2015 7:32

Tgt Ion: 43 Resp: 996468

Ion Ratio Lower Upper

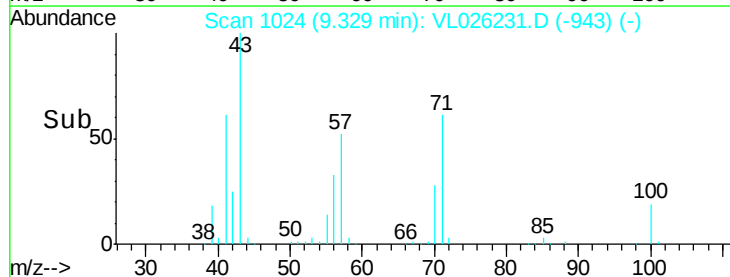
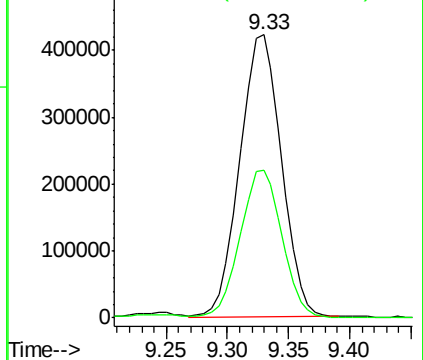
43 100

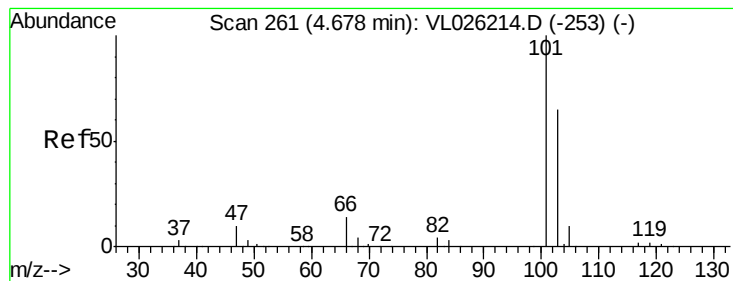
57 53.8 43.7 65.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 10.71 ppbv

RT: 4.68 min Scan# 261

Delta R.T. -0.00 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:101 Resp: 1100338

Ion Ratio Lower Upper

101 100

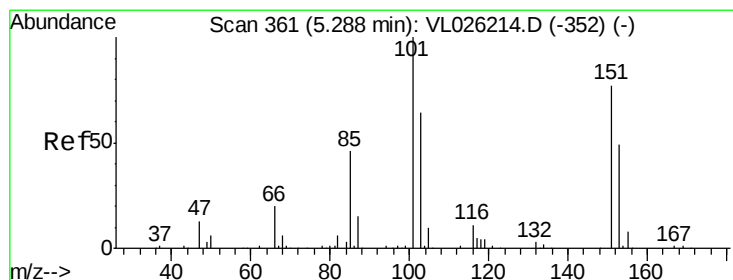
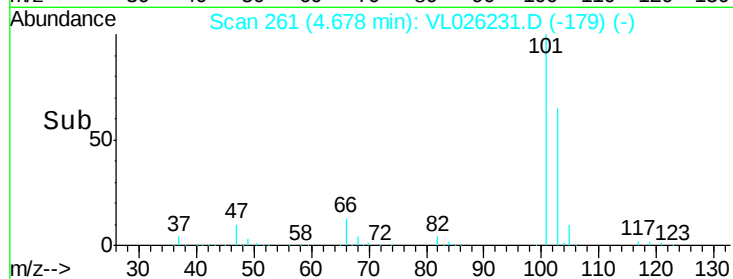
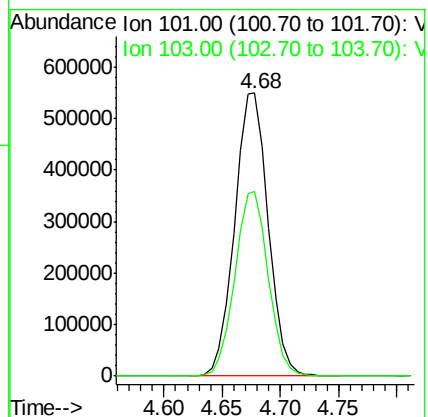
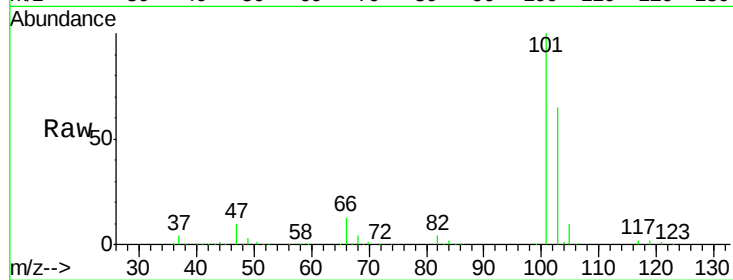
103 65.1 52.2 78.2

Manual Integrations

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.45 ppbv

RT: 5.29 min Scan# 361

Delta R.T. -0.00 min

Lab File: VL026231.D

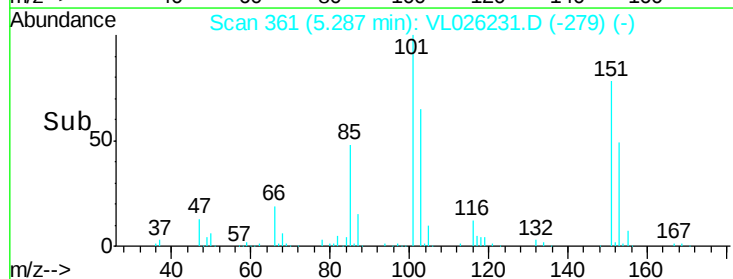
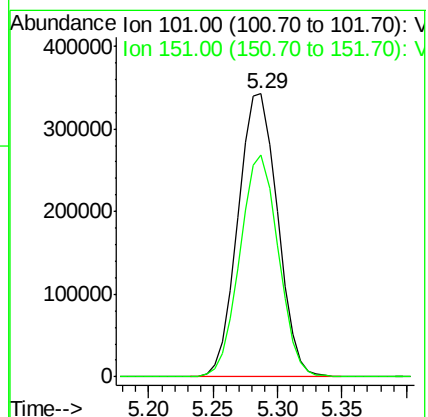
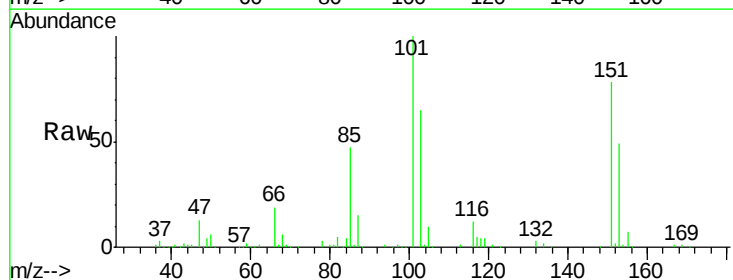
Acq: 21 Oct 2015 7:32

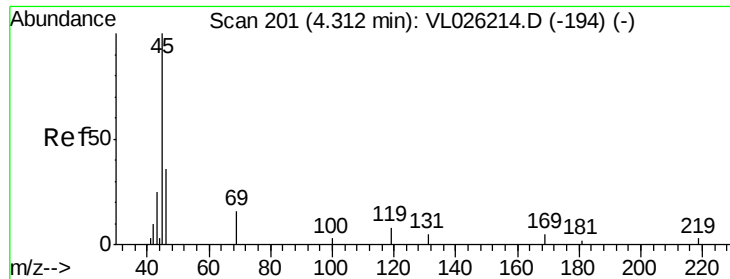
Tgt Ion:101 Resp: 732933

Ion Ratio Lower Upper

101 100

151 76.4 61.7 92.5





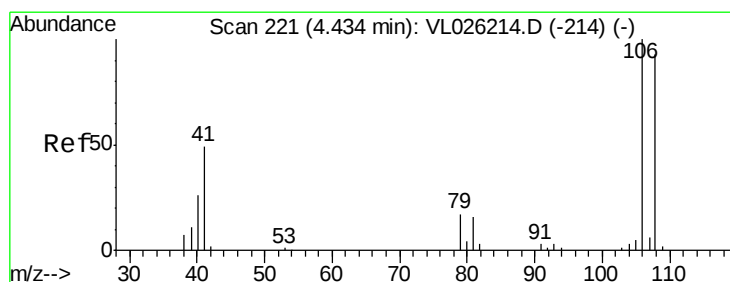
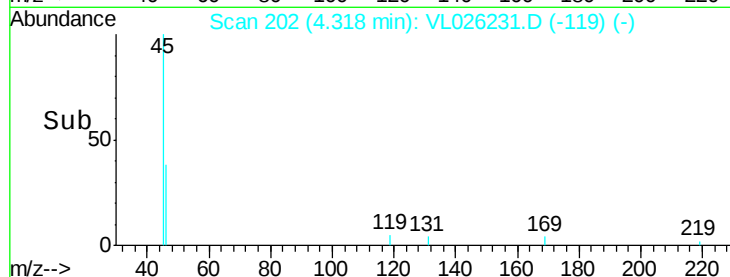
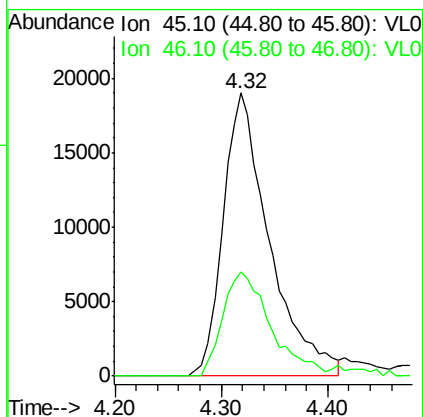
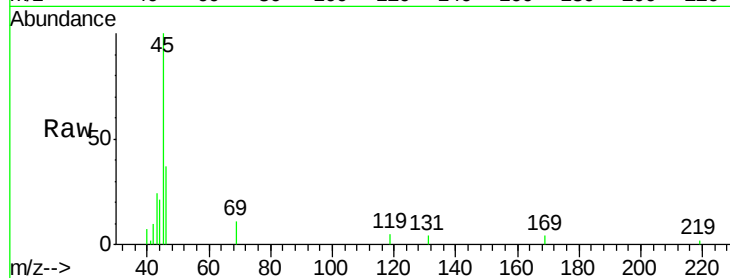
#13
Ethanol
Concen: 12.84 ppbv
RT: 4.32 min Scan# 202
Delta R.T. 0.01 min
Lab File: VL026231.D
Acq: 21 Oct 2015 7:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 45 Resp: 57706
Ion Ratio Lower Upper
45 100
46 40.6 15.8 63.0

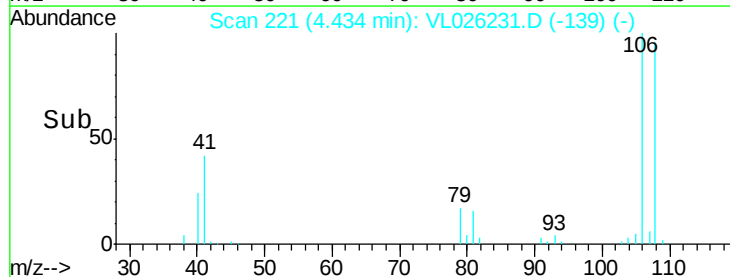
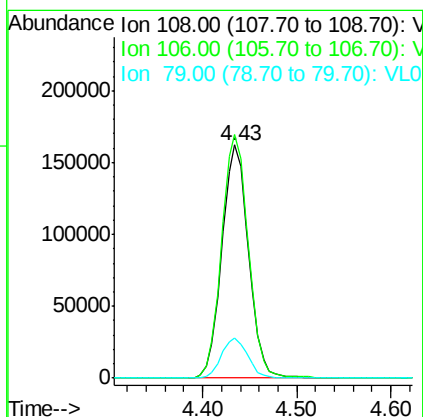
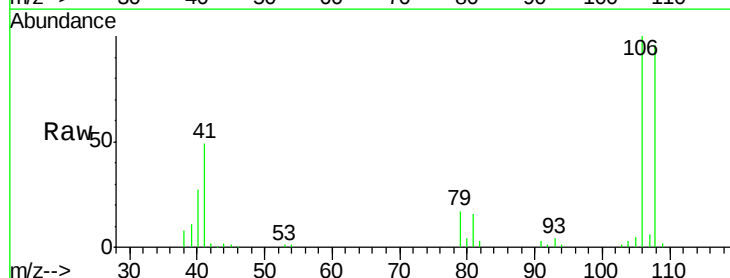
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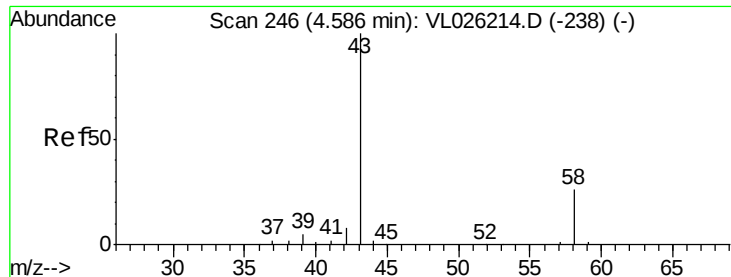
MMDadoda
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#14
Bromoethene
Concen: 10.74 ppbv
RT: 4.43 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL026231.D
Acq: 21 Oct 2015 7:32

Tgt Ion: 108 Resp: 317982
Ion Ratio Lower Upper
108 100
106 104.9 84.7 127.1
79 17.1 14.0 21.0





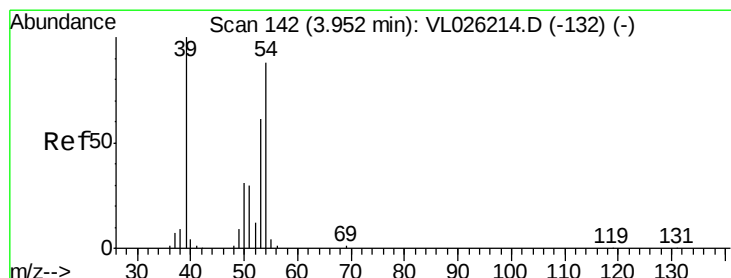
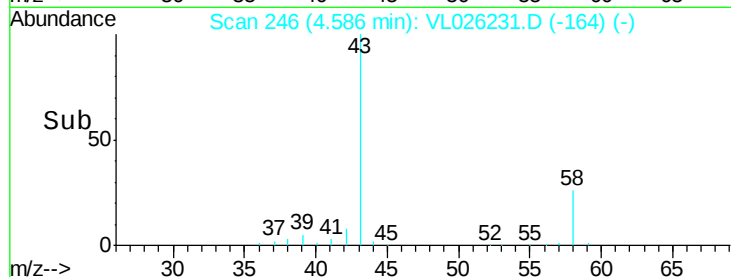
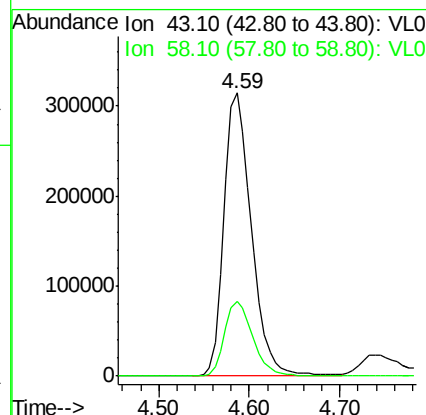
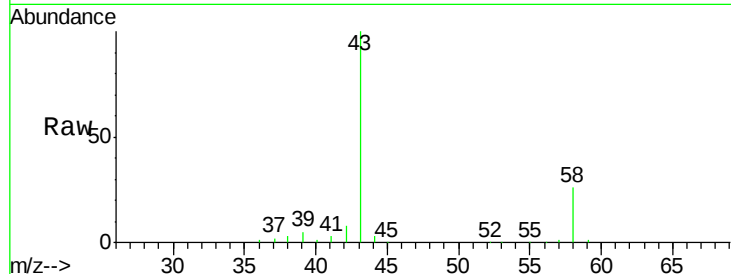
#15
Acetone
Concen: 8.97 ppbv
RT: 4.59 min Scan# 246
Delta R.T. -0.00 min
Lab File: VL026231.D
Acq: 21 Oct 2015 7:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 667628
Ion Ratio Lower Upper
43 100
58 27.2 21.8 32.6

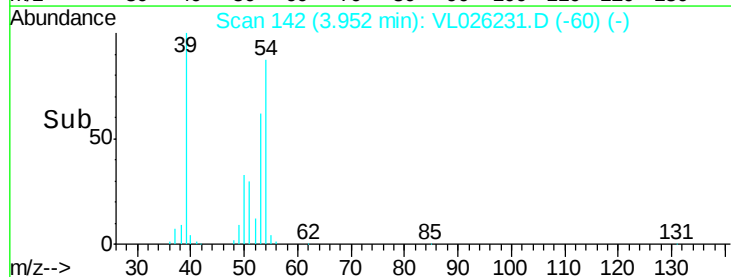
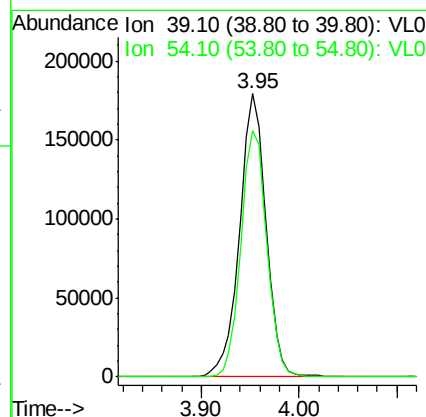
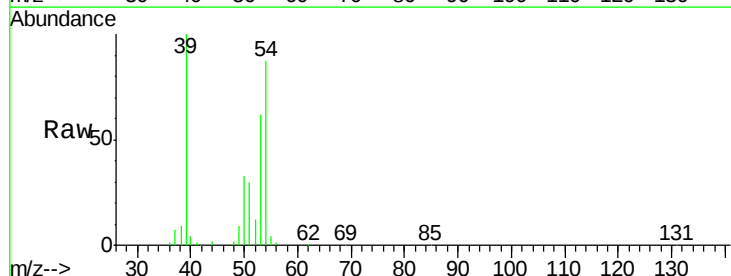
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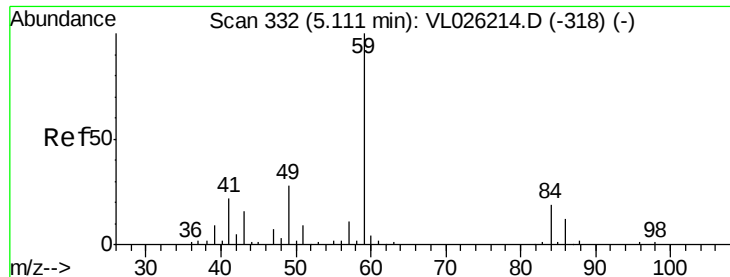
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#16
1,3-Butadiene
Concen: 10.19 ppbv
RT: 3.95 min Scan# 142
Delta R.T. -0.00 min
Lab File: VL026231.D
Acq: 21 Oct 2015 7:32

Tgt Ion: 39 Resp: 338083
Ion Ratio Lower Upper
39 100
54 85.2 67.3 100.9





#17

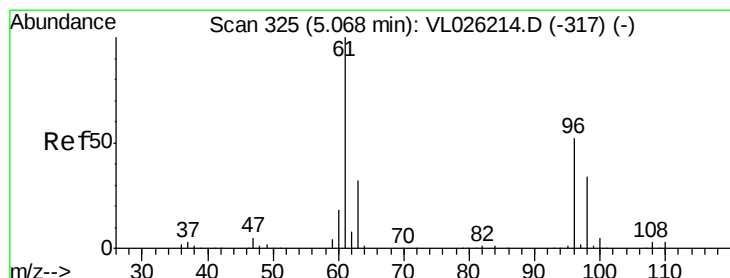
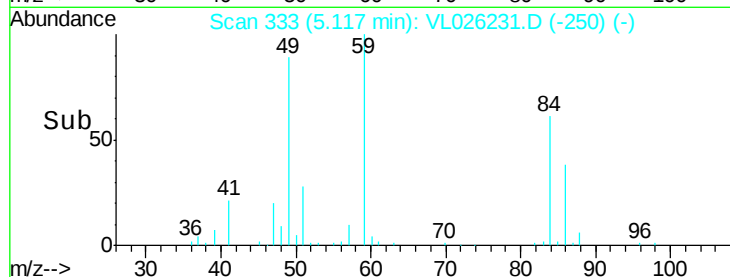
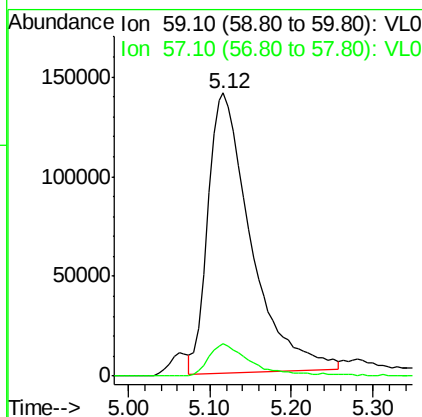
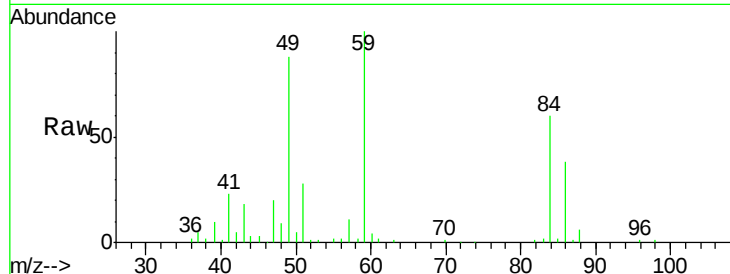
tert-Butyl alcohol
 Concen: 10.21 ppbv
 RT: 5.12 min Scan# 333
 Delta R.T. 0.01 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Resp	Lower	Upper
59	59	100	519089		
57	57	12.1		8.5	12.7

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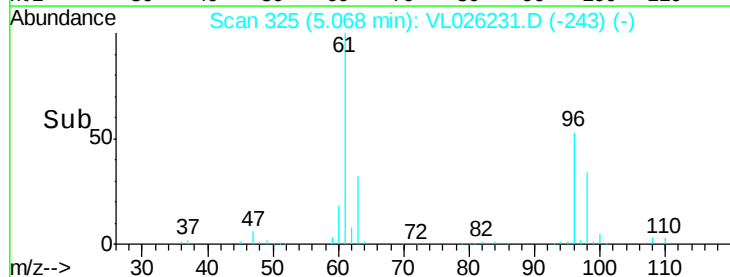
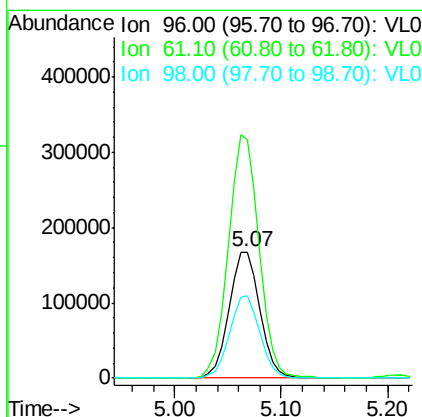
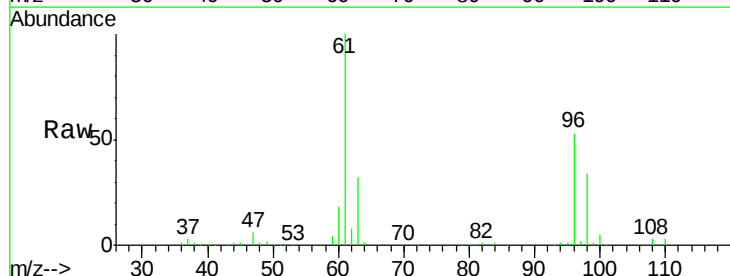
MMDadoda
 10/22/2015 4:33:26 PM

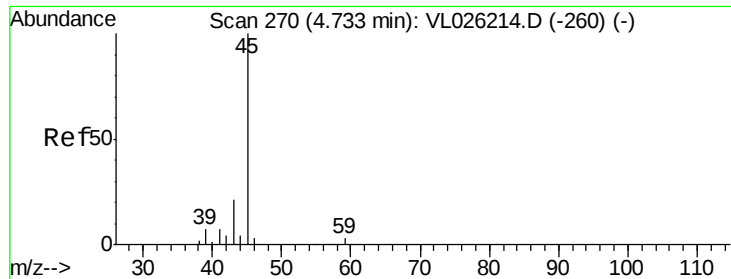


#18

1,1-Dichloroethene
 Concen: 10.75 ppbv
 RT: 5.07 min Scan# 325
 Delta R.T. -0.00 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
96	96	100	340350		
61	61	189.3		153.7	230.5
98	98	65.1		51.6	77.4





#19

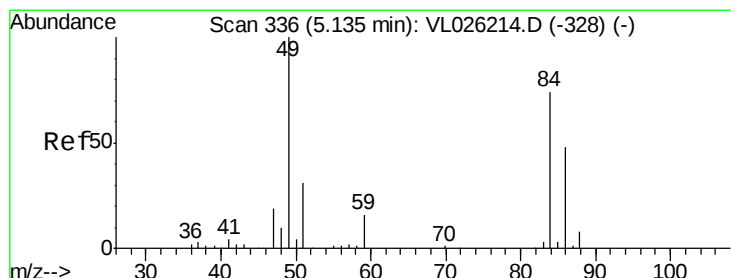
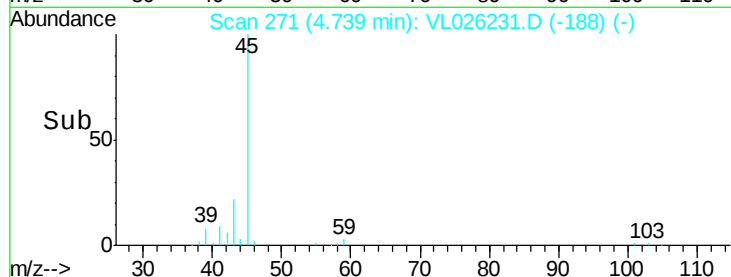
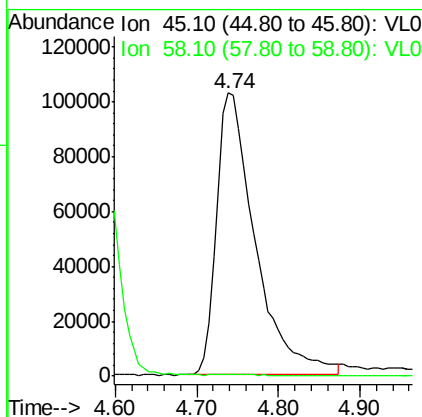
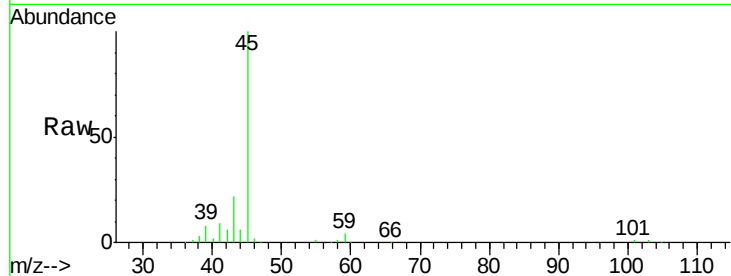
Isopropyl Alcohol
 Concen: 11.67 ppbv
 RT: 4.74 min Scan# 271
 Delta R.T. 0.01 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010

Tot Ion: 45 Resp: 339579
 Ion Ratio Lower Upper
 45 100
 58 53.5 40.3 60.5

Manual Integrations
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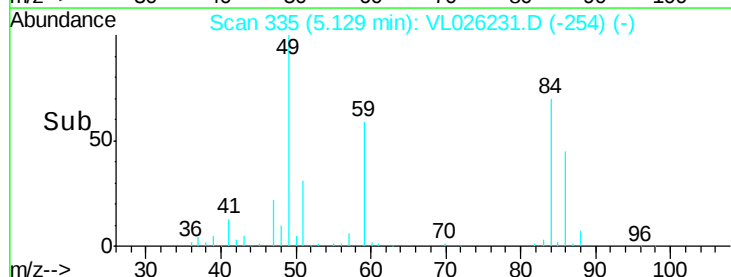
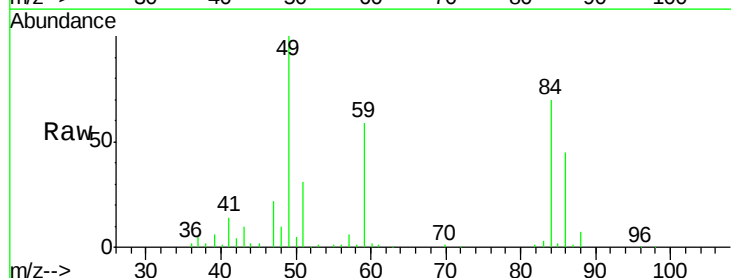
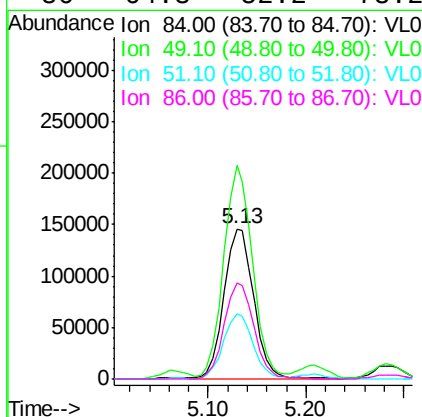
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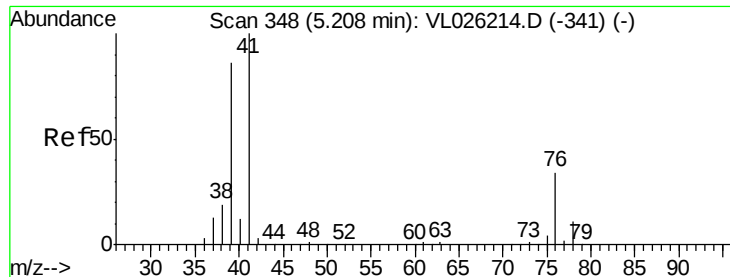


#20

Methylene Chloride
 Concen: 10.44 ppbv
 RT: 5.13 min Scan# 335
 Delta R.T. -0.01 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Tgt Ion: 84 Resp: 309934
 Ion Ratio Lower Upper
 84 100
 49 141.2 108.7 163.1
 51 43.5 33.7 50.5
 86 64.3 52.2 78.2





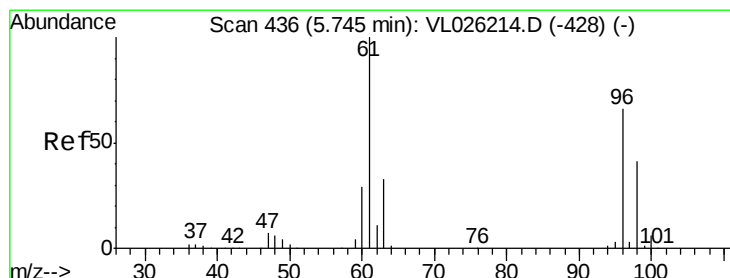
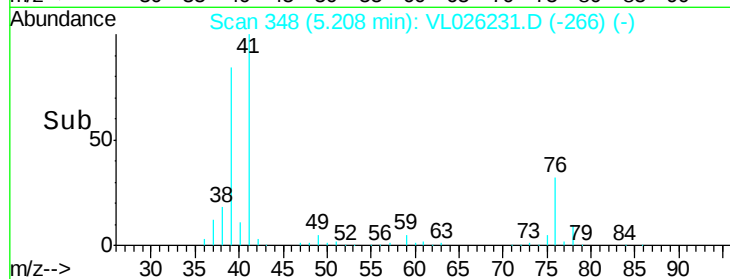
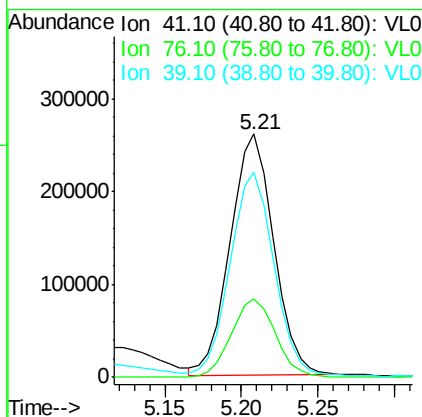
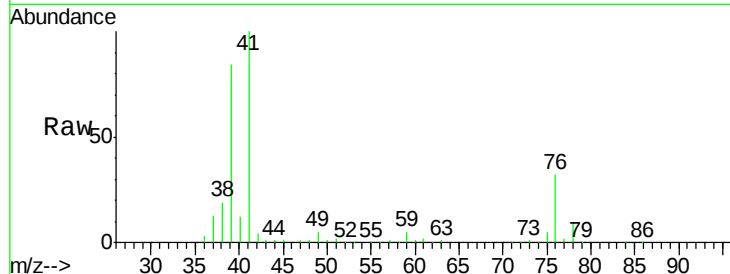
#21
Allvl Chloride
Concen: 10.60 ppbv
RT: 5.21 min Scan# 348
Delta R.T. -0.00 min
Lab File: VL026231.D
Acq: 21 Oct 2015 7:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	32.7	26.6	39.8
39	85.7	67.4	101.2

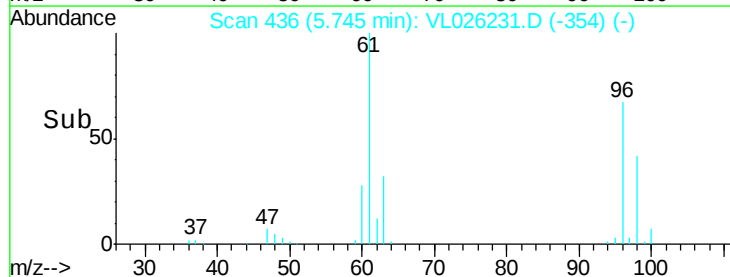
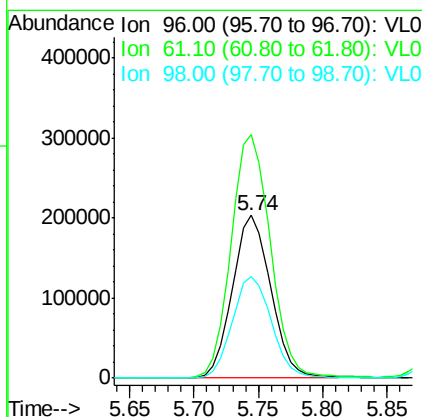
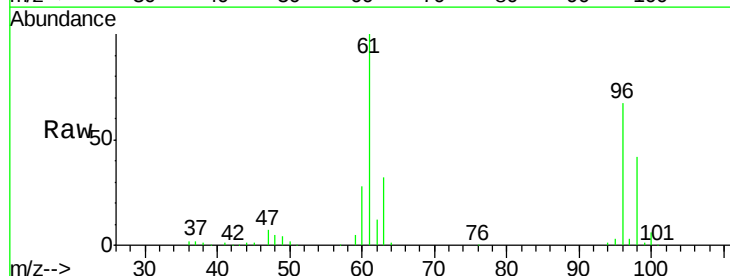
Manual Integrations
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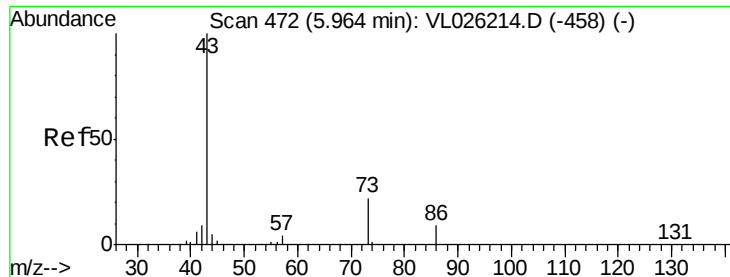
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#22
trans-1,2-Dichloroethene
Concen: 10.33 ppbv
RT: 5.74 min Scan# 436
Delta R.T. -0.00 min
Lab File: VL026231.D
Acq: 21 Oct 2015 7:32

Tgt Ion	Ratio	Lower	Upper
96	100		
61	149.7	121.5	182.3
98	62.5	49.7	74.5





#23

Vinyl Acetate

Concen: 10.21 ppbv

RT: 5.96 min Scan# 472

Delta R.T. -0.00 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1400780

Ion	Ratio	Lower	Upper
43	100		
86	9.1	7.0	10.6
42	9.5	7.5	11.3
44	4.5	3.6	5.4

43 100

86 9.1 7.0 10.6

42 9.5 7.5 11.3

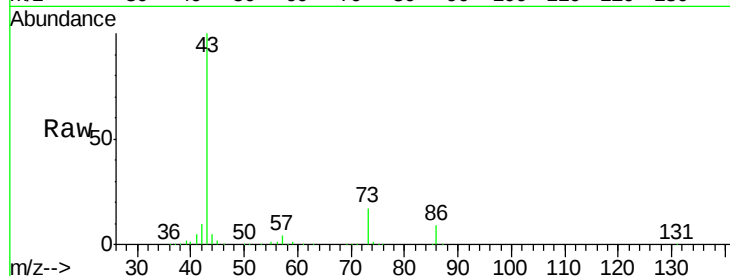
44 4.5 3.6 5.4

Manual Integrations

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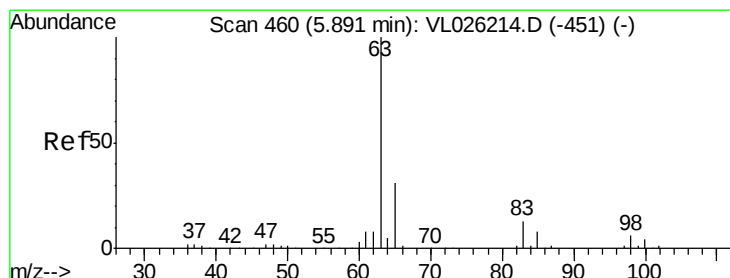
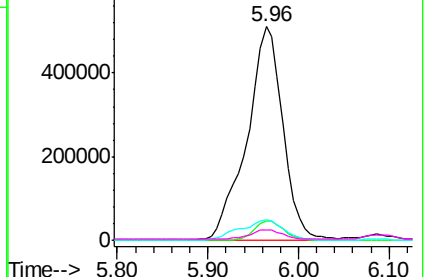
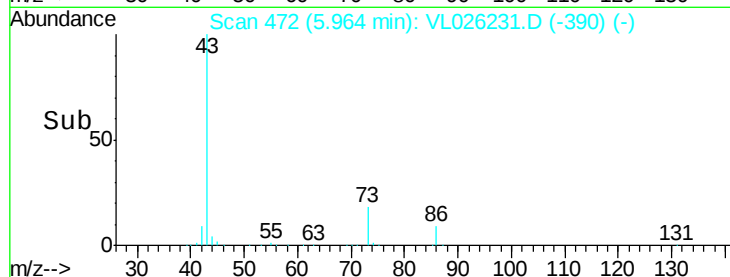
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

Time-->



#24

1,1-Dichloroethane

Concen: 10.14 ppbv

RT: 5.89 min Scan# 460

Delta R.T. -0.00 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

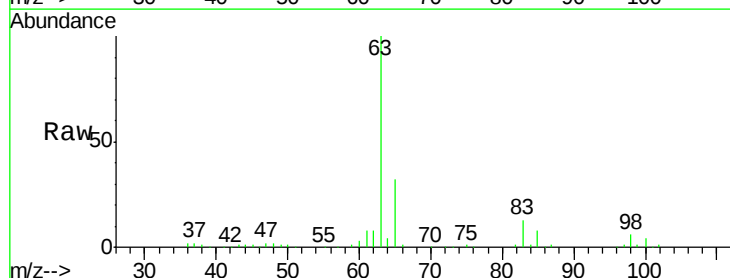
Tgt Ion: 63 Resp: 877590

Ion	Ratio	Lower	Upper
63	100		
98	6.0	2.9	8.8
100	3.8	1.8	5.5

63 100

98 6.0 2.9 8.8

100 3.8 1.8 5.5

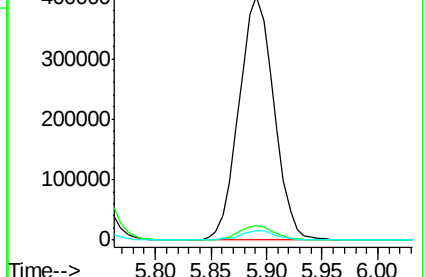
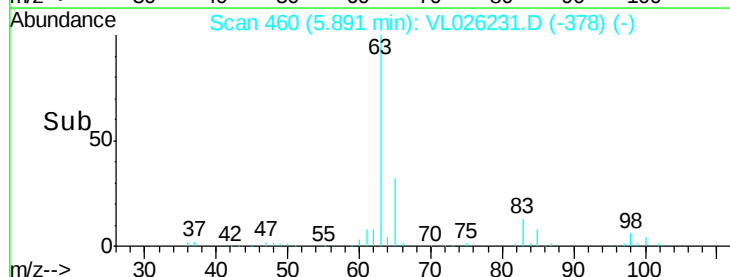


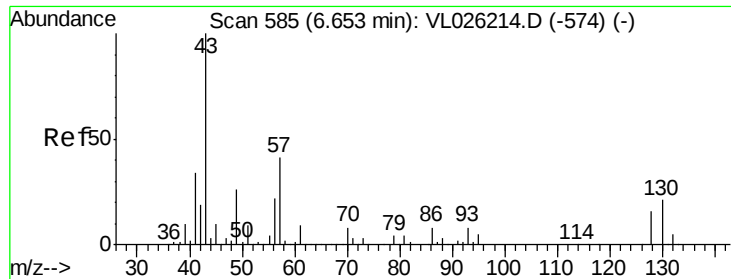
Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

Time-->





#25

Ethyl Acetate

Concen: 9.97 ppbv

RT: 6.65 min Scan# 584

Delta R.T. -0.01 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1390464

Ion Ratio Lower Upper

43 100

45 9.5 7.7 11.5

61 9.4 7.5 11.3

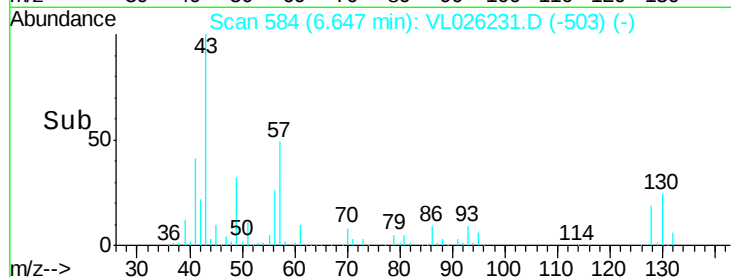
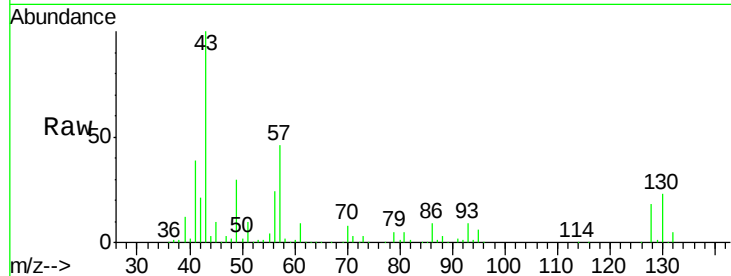
70 8.5 6.9 10.3

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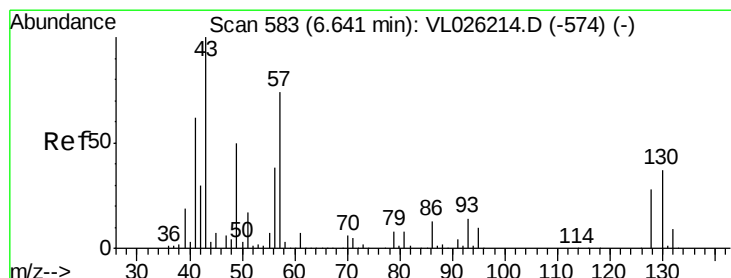
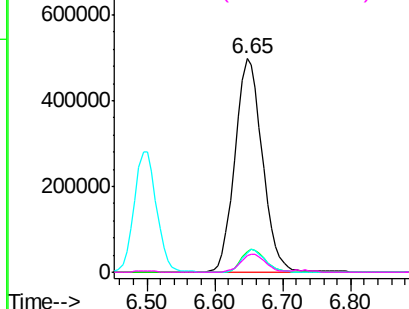
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.83 ppbv

RT: 6.63 min Scan# 582

Delta R.T. -0.01 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Tgt Ion: 57 Resp: 685175

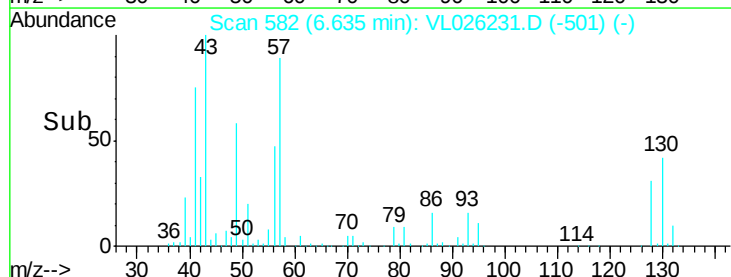
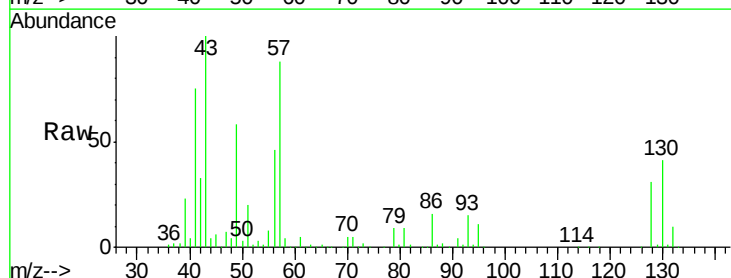
Ion Ratio Lower Upper

57 100

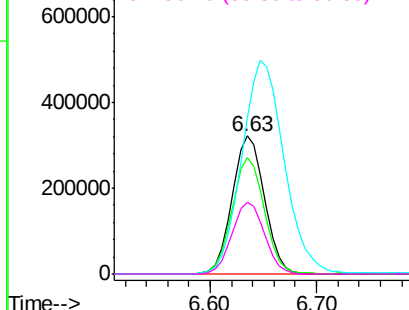
41 85.8 68.1 102.1

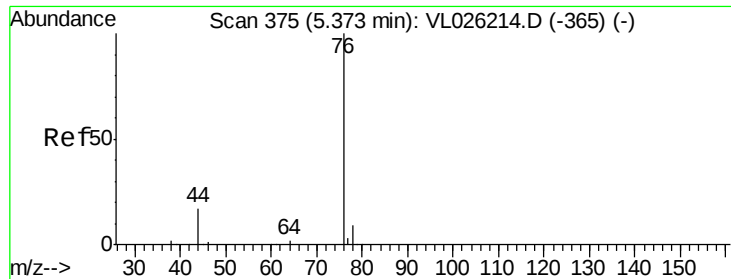
43 204.3 163.4 245.2

56 52.5 42.2 63.4



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





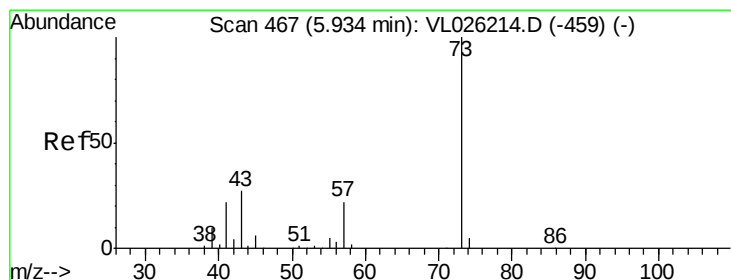
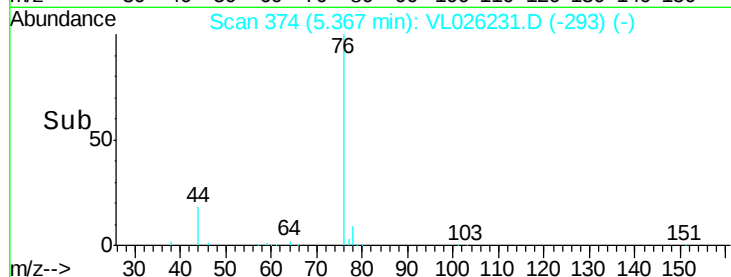
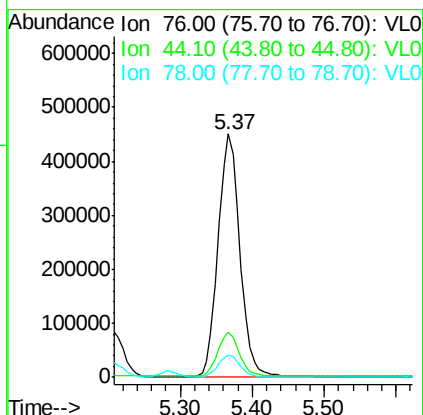
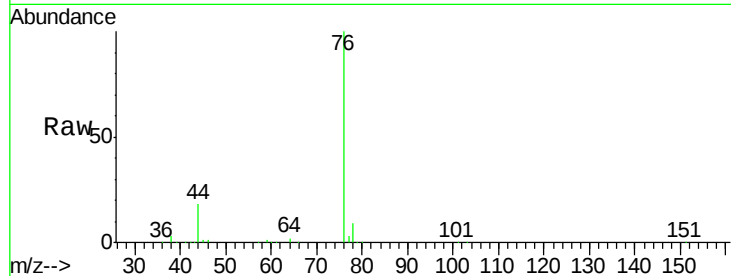
#27
Carbon Disulfide
Concen: 10.74 ppbv
RT: 5.37 min Scan# 374
Delta R.T. -0.01 min
Lab File: VL026231.D
Acq: 21 Oct 2015 7:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
76	100		
44	17.5	14.0	21.0
78	9.4	7.4	11.2

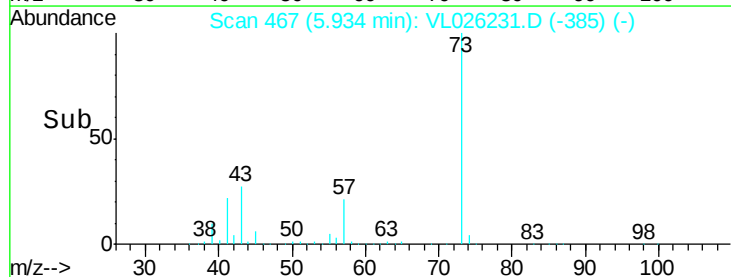
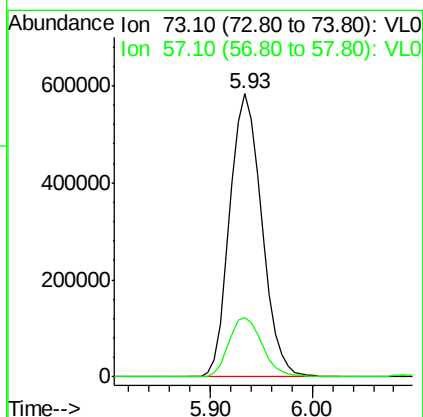
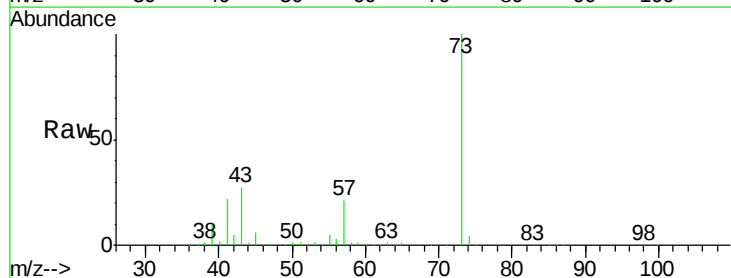
Manual Integrations
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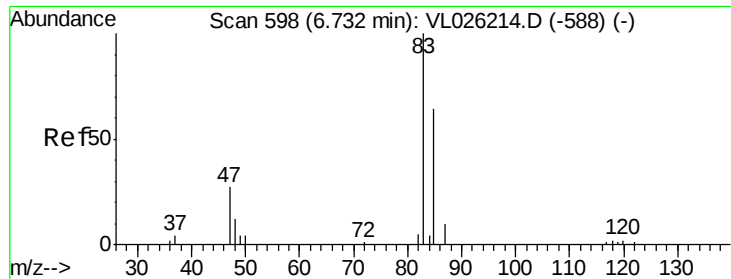
MMDadoda
10/22/2015 4:33:26 PM



#28
Methyl tert-Butyl Ether
Concen: 10.07 ppbv
RT: 5.93 min Scan# 467
Delta R.T. -0.00 min
Lab File: VL026231.D
Acq: 21 Oct 2015 7:32

Tgt Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.4	26.0





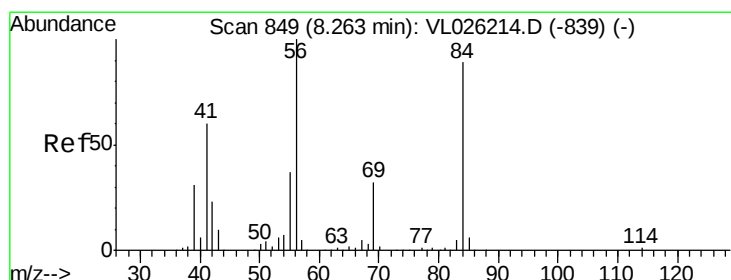
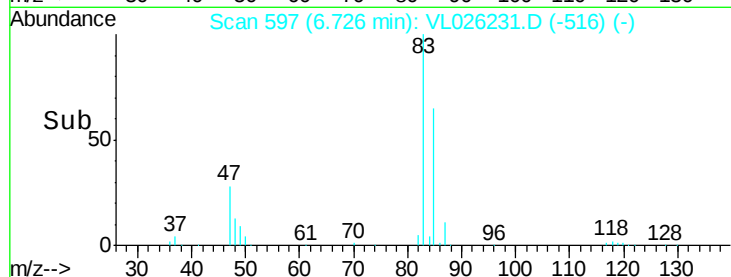
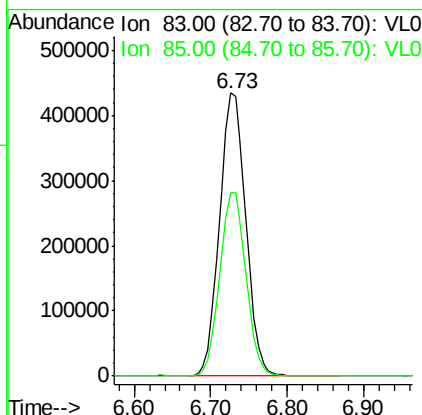
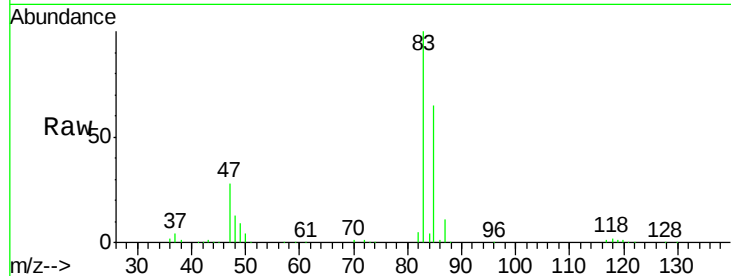
#29
Chloroform
Concen: 10.23 ppbv
RT: 6.73 min Scan# 597
Delta R.T. -0.01 min
Lab File: VL026231.D
Acq: 21 Oct 2015 7:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1035223
Ion Ratio Lower Upper
83 100
85 64.6 51.5 77.3

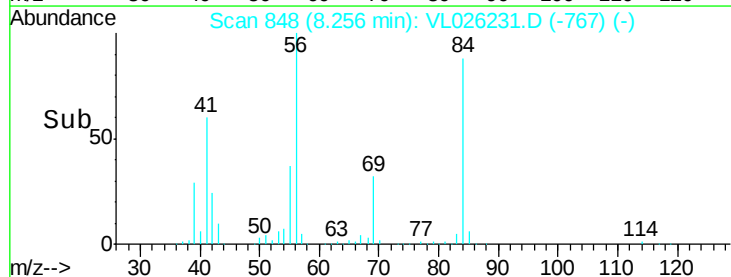
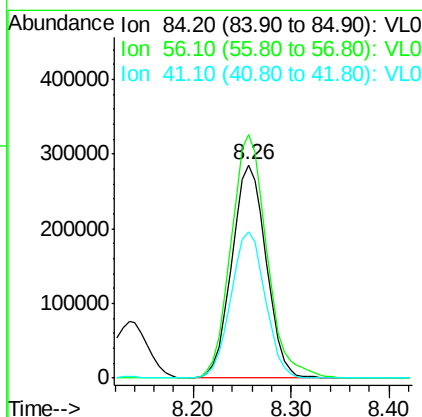
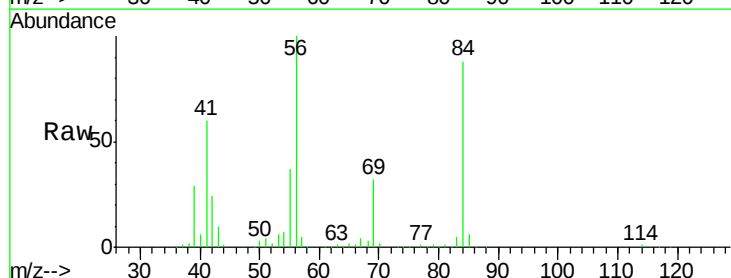
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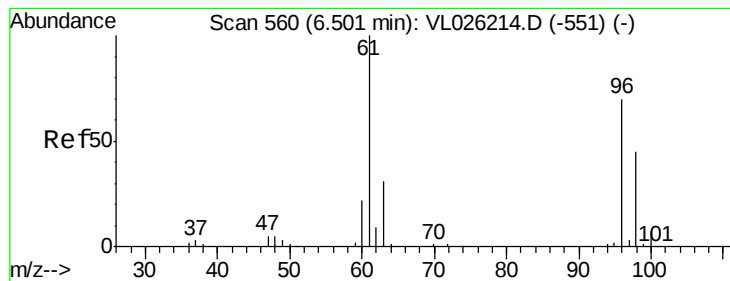
MMDadoda
10/22/2015 4:33:26 PM



#30
Cyclohexane
Concen: 9.94 ppbv
RT: 8.26 min Scan# 848
Delta R.T. -0.01 min
Lab File: VL026231.D
Acq: 21 Oct 2015 7:32

Tgt Ion: 84 Resp: 693037
Ion Ratio Lower Upper
84 100
56 120.1 95.9 143.9
41 69.3 54.8 82.2





#31

cis-1,2-Dichloroethene

Concen: 10.26 ppbv

RT: 6.49 min Scan# 559

Delta R.T. -0.01 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Instrument :

MSVOA_L

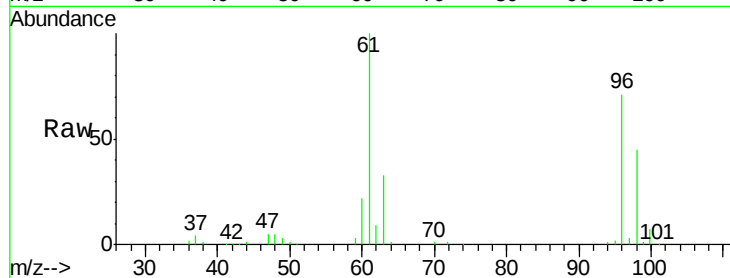
ClientSampleId :

VSTDCCC010

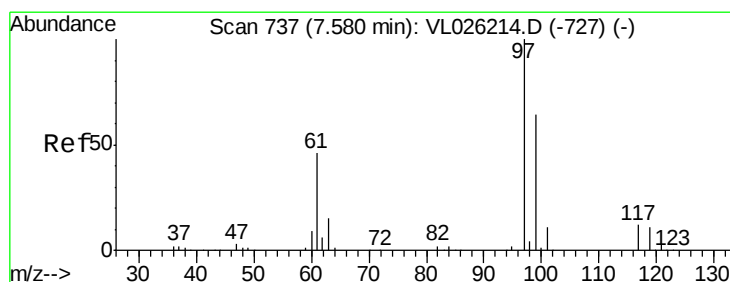
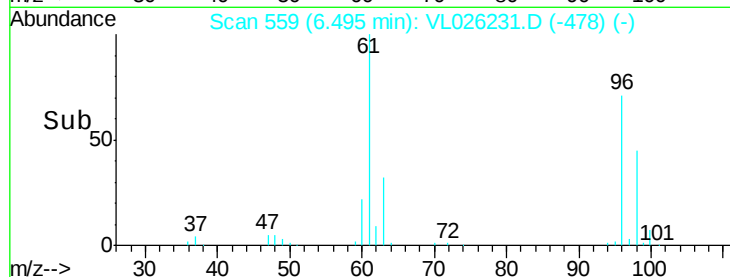
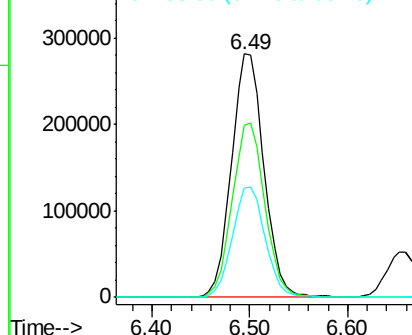
Tot Ion	61	Resp	649057
Ion	Ratio	Lower	Upper
61	100		
96	70.8	56.0	84.0
98	44.8	36.1	54.1

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



#32

1,1,1-Trichloroethane

Concen: 9.78 ppbv

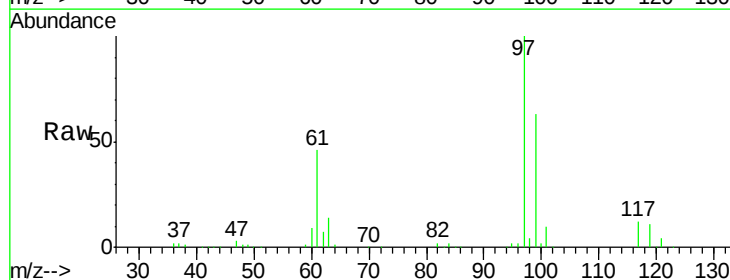
RT: 7.57 min Scan# 736

Delta R.T. -0.01 min

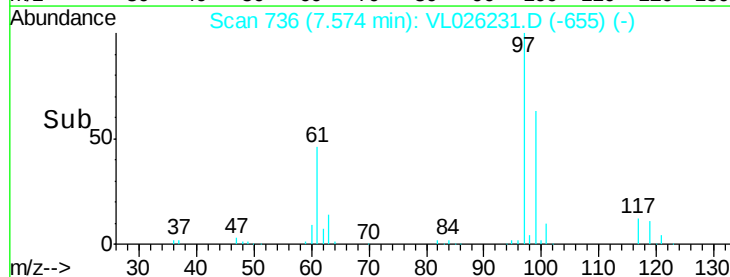
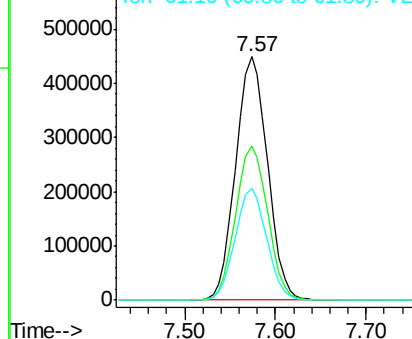
Lab File: VL026231.D

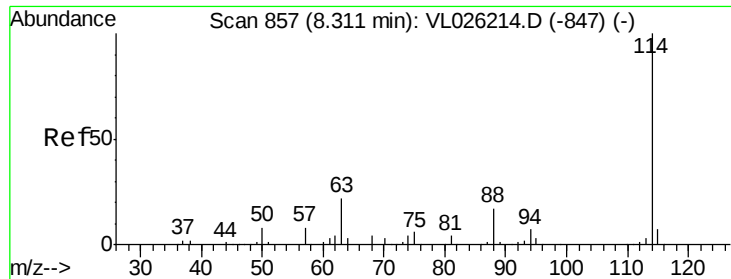
Acq: 21 Oct 2015 7:32

Tgt Ion	97	Resp	1097186
Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.4	77.0
61	45.5	36.2	54.4



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





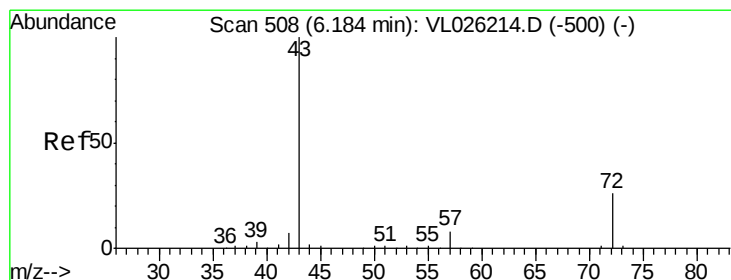
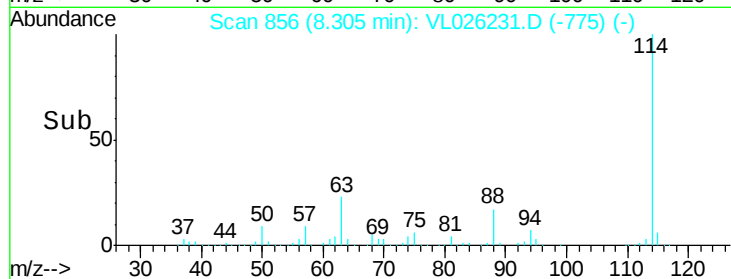
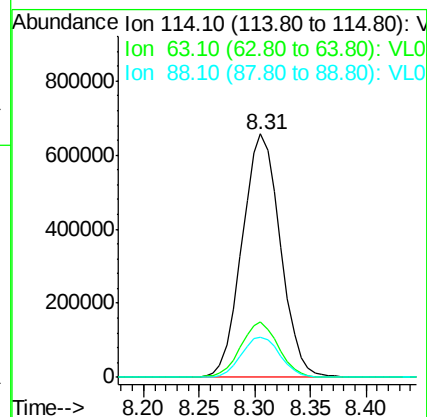
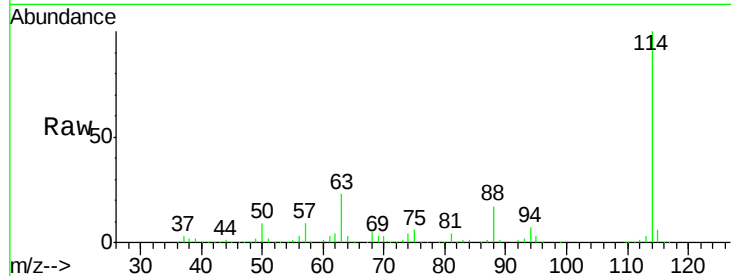
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.31 min Scan# 856
 Delta R.T. -0.01 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:114 Resp: 1567591
 Ion Ratio Lower Upper
 114 100
 63 22.8 18.2 27.4
 88 16.8 13.5 20.3

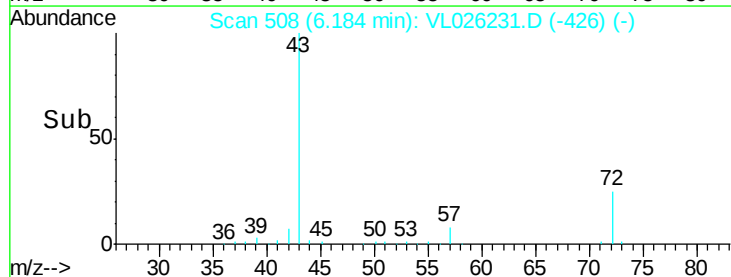
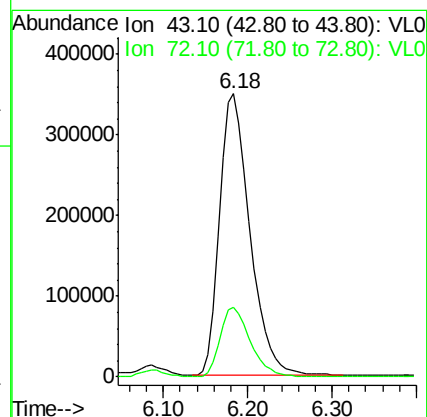
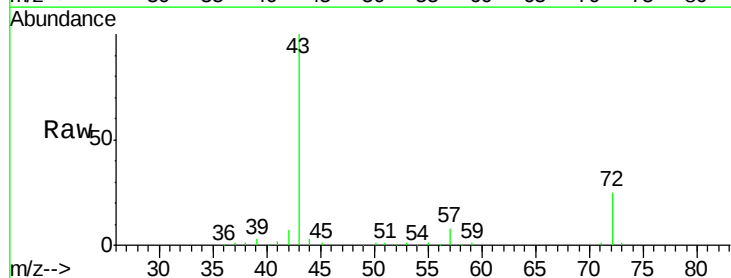
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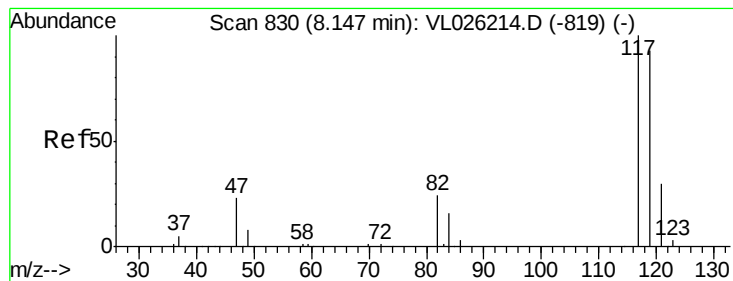
MMDadoda
 10/22/2015 4:33:26 PM



#34
 2-Butanone
 Concen: 9.79 ppbv
 RT: 6.18 min Scan# 508
 Delta R.T. -0.00 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Tgt Ion: 43 Resp: 867636
 Ion Ratio Lower Upper
 43 100
 72 24.7 20.1 30.1





#35

Carbon Tetrachloride

Concen: 9.59 ppbv

RT: 8.13 min Scan# 828

Delta R.T. -0.01 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 1145262

Ion Ratio Lower Upper

117 100

119 95.6 74.6 111.8

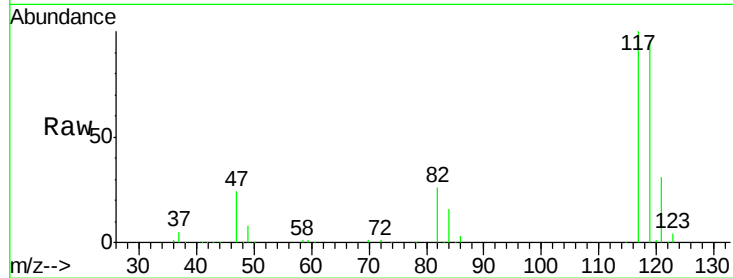
121 31.0 24.2 36.2

Manual Integrations

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MMDadoda

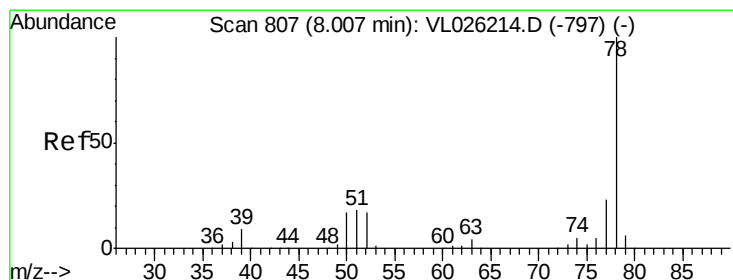
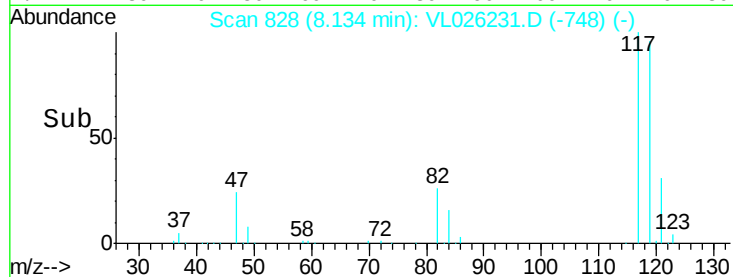
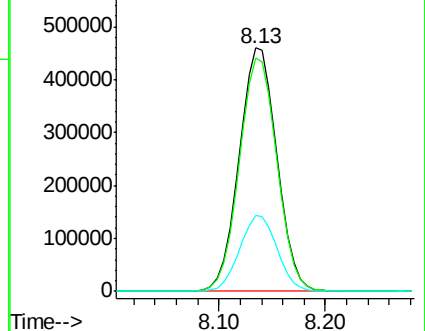
10/22/2015 4:33:26 PM



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: 9.66 ppbv

RT: 8.00 min Scan# 806

Delta R.T. -0.01 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

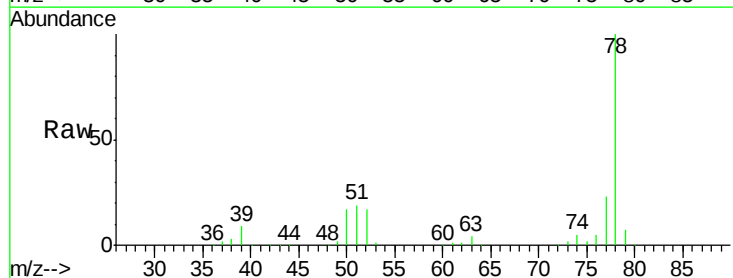
Tgt Ion: 78 Resp: 1541782

Ion Ratio Lower Upper

78 100

77 23.0 18.1 27.1

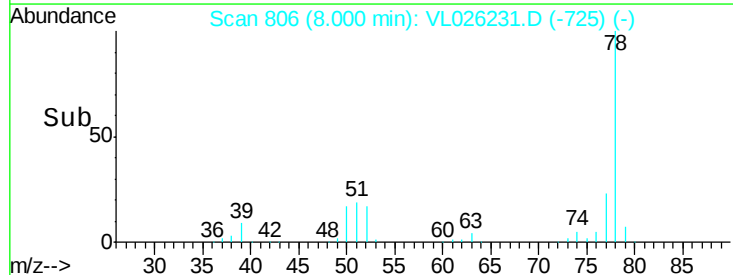
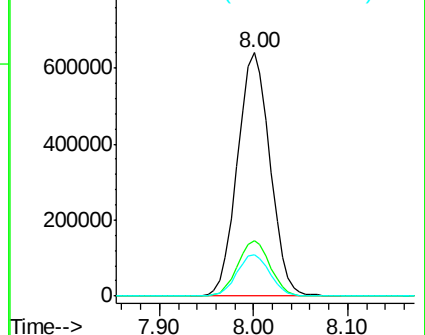
50 17.1 13.8 20.8

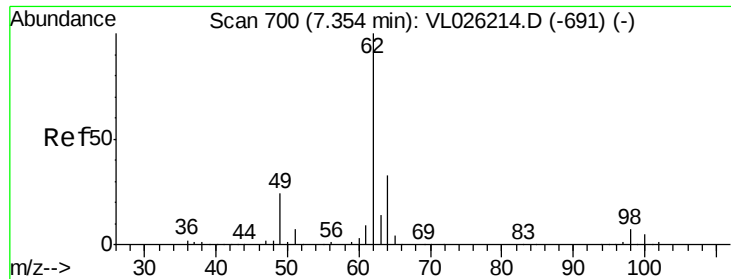


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





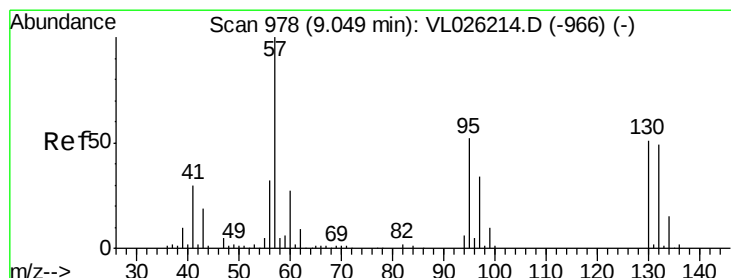
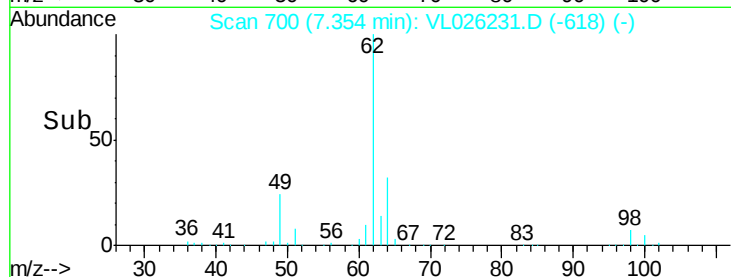
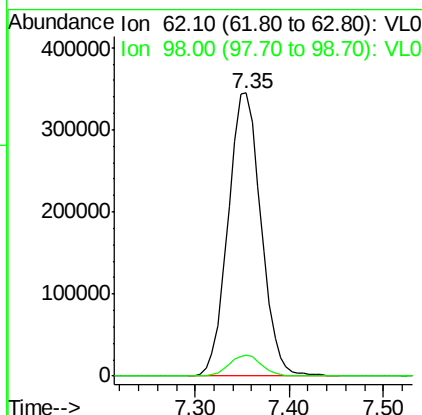
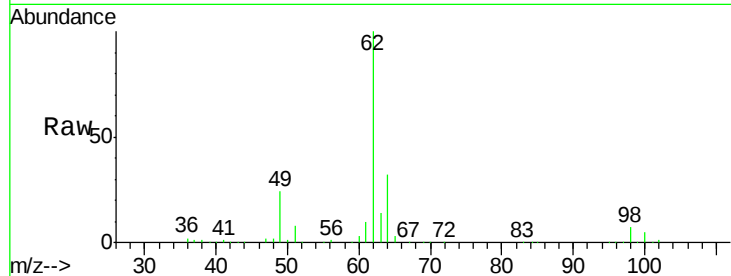
#37
 1,2-Dichloroethane
 Concen: 10.20 ppbv
 RT: 7.35 min Scan# 700
 Delta R.T. -0.00 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Resp	Lower	Upper
62	100	836994		
98	7.4		6.1	9.1

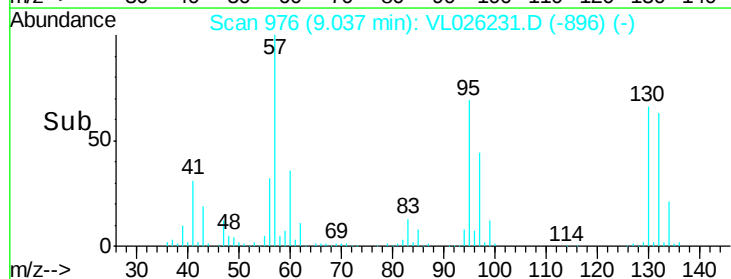
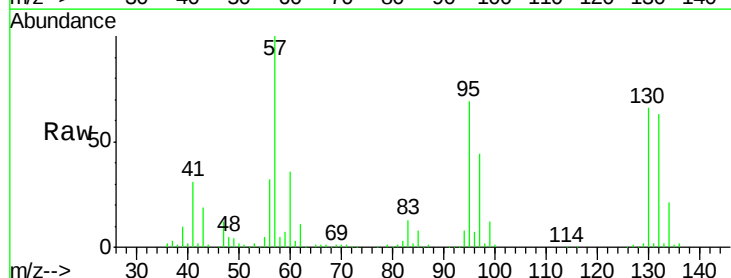
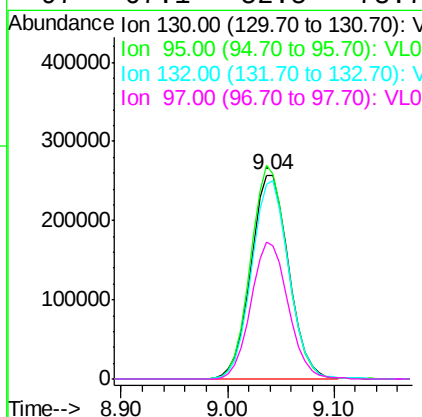
Manual Integrations
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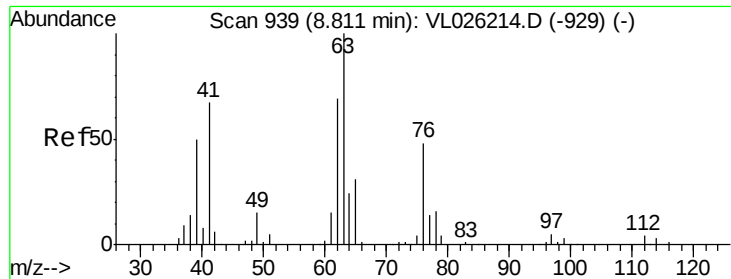
MMDadoda
 10/22/2015 4:33:26 PM



#38
 Trichloroethene
 Concen: 8.28 ppbv
 RT: 9.04 min Scan# 976
 Delta R.T. -0.01 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	641673		
95	104.8		81.0	121.4
132	95.3		76.5	114.7
97	67.1		52.5	78.7





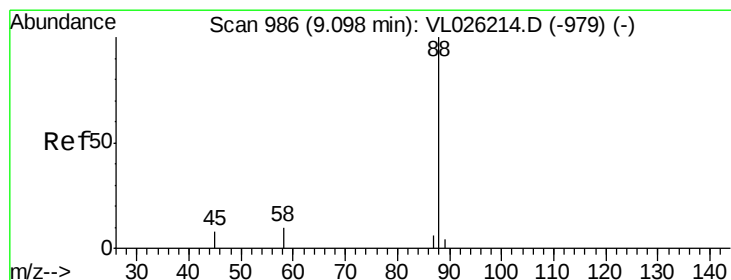
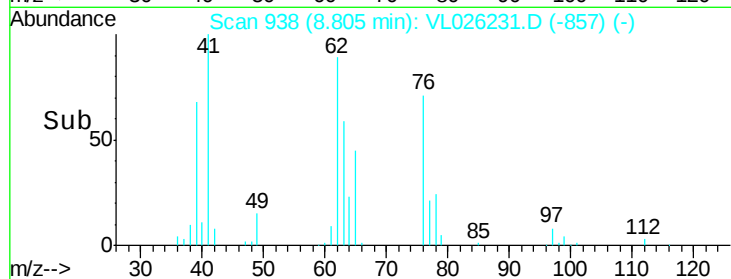
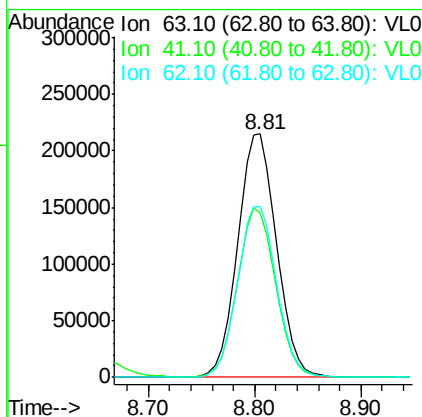
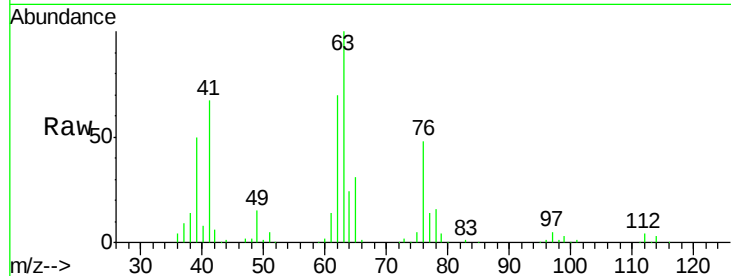
#39
 1,2-Dichloropropane
 Concen: 9.80 ppbv
 RT: 8.81 min Scan# 938
 Delta R.T. -0.01 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	67.2	53.2	79.8
62	70.1	55.4	83.2

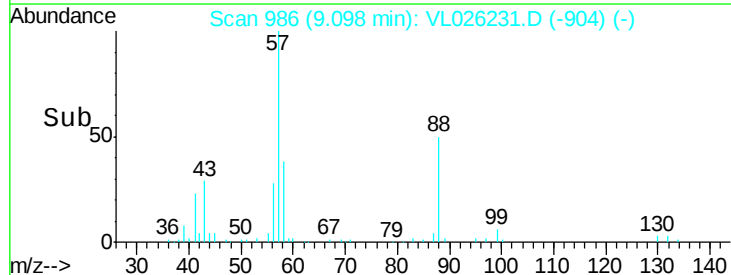
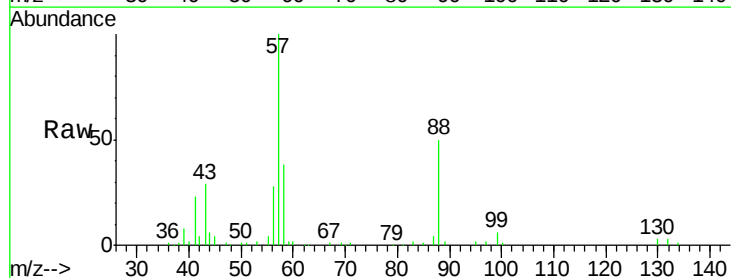
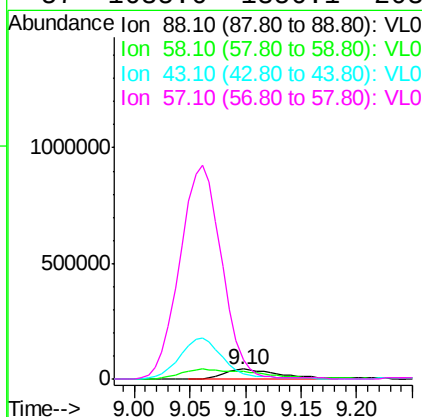
Manual Integrations
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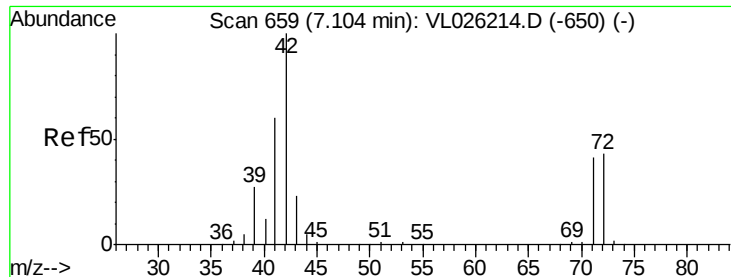
MMDadoda
 10/22/2015 4:33:26 PM



#40
 1,4-Dioxane
 Concen: 14.17 ppbv
 RT: 9.10 min Scan# 986
 Delta R.T. -0.00 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Tgt Ion	Ratio	Lower	Upper
88	100		
58	143.8	115.4	173.2
43	333.0	272.6	409.0
57	1635.6	1356.1	2034.1





#41

Tetrahydrofuran

Concen: 9.97 ppbv

RT: 7.10 min Scan# 658

Delta R.T. -0.01 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Instrument :

MSVOA_L

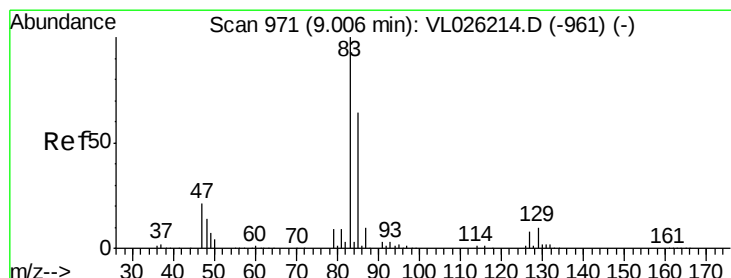
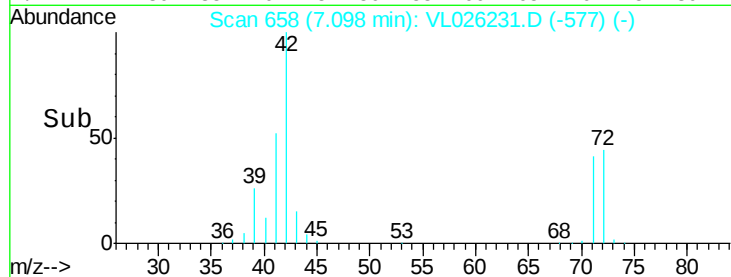
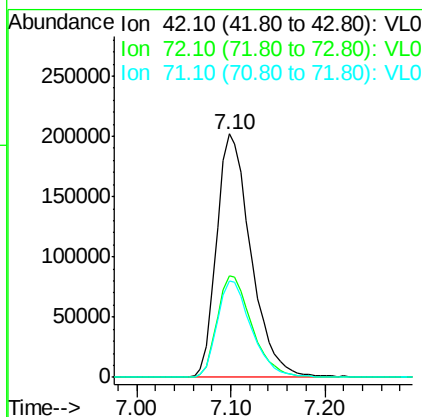
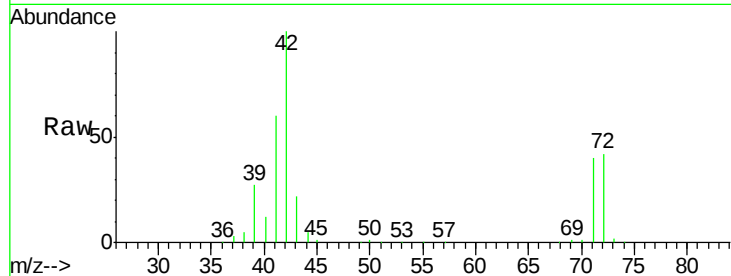
ClientSampleId :

VSTDCCC010

Tot Ion:	42	Resp:	511224
Ion	Ratio	Lower	Upper
42	100		
72	42.4	34.3	51.5
71	39.7	32.1	48.1

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.91 ppbv

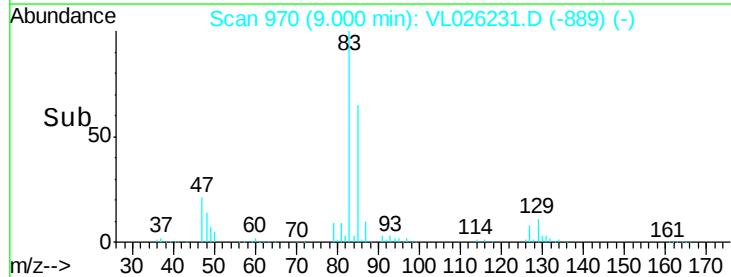
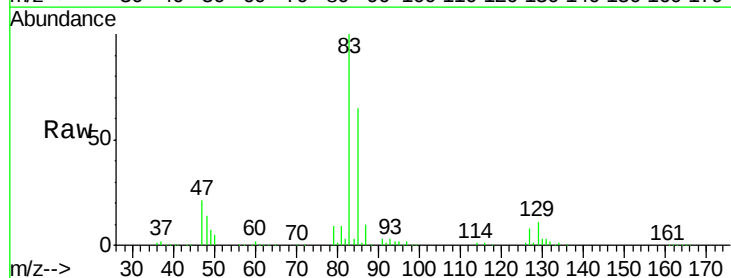
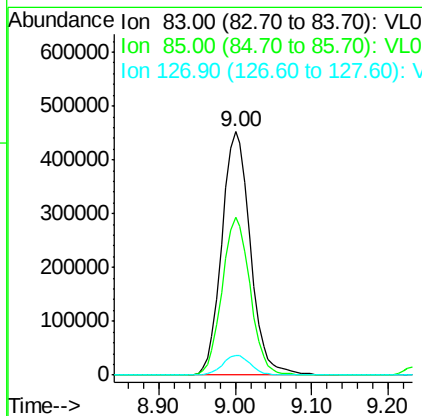
RT: 9.00 min Scan# 970

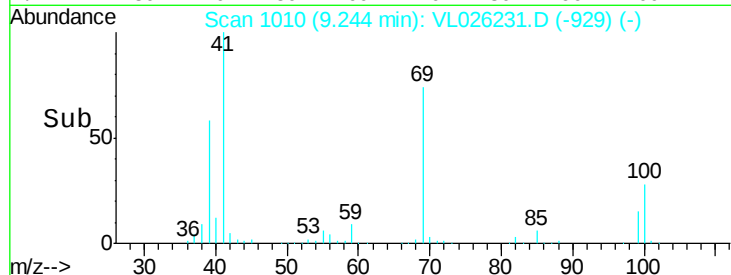
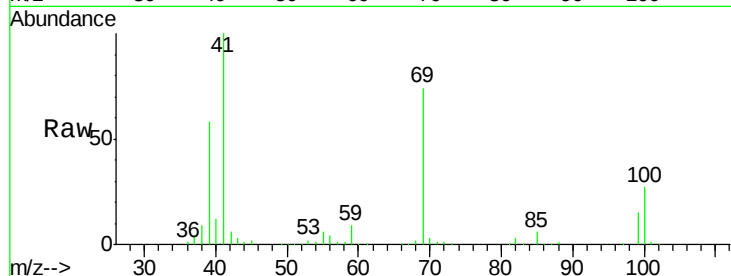
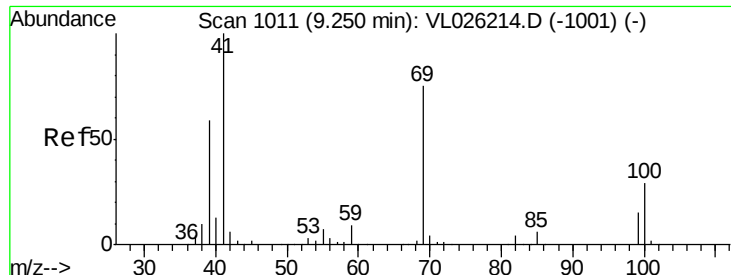
Delta R.T. -0.01 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Tgt Ion:	83	Resp:	1170121
Ion	Ratio	Lower	Upper
83	100		
85	64.7	50.9	76.3
127	8.0	6.2	9.4





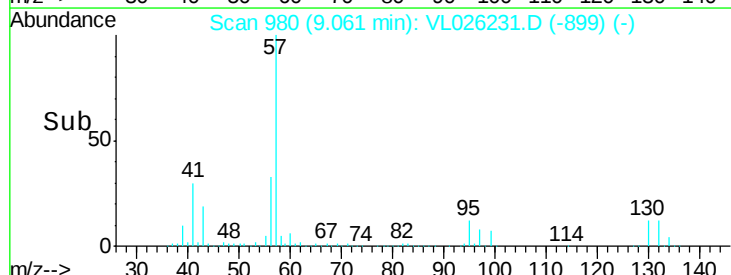
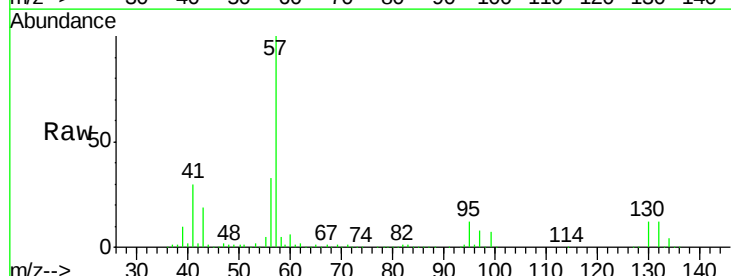
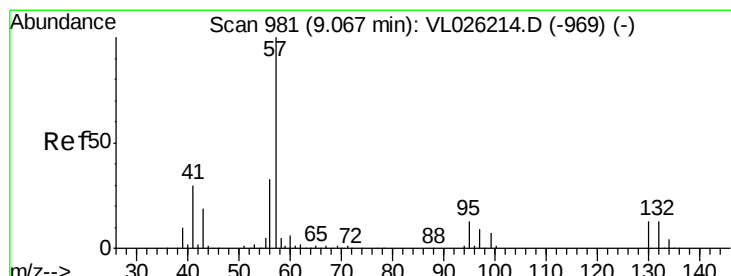
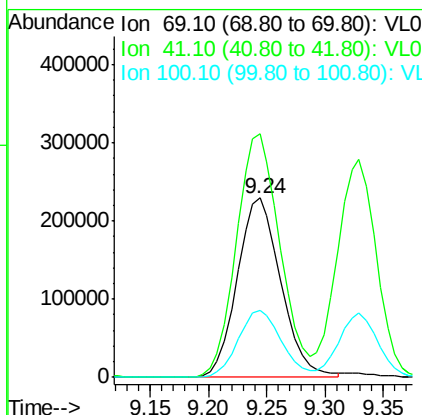
#43
Methvl Methacrvlate
Concen: 10.28 ppbv
RT: 9.24 min Scan# 1010
Delta R.T. -0.01 min
Lab File: VL026231.D
Acq: 21 Oct 2015 7:32

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100		597434		
41	137.0	108.4	162.6		
100	37.5	30.6	45.8		

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

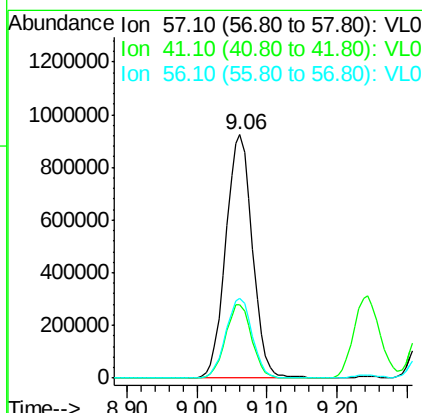
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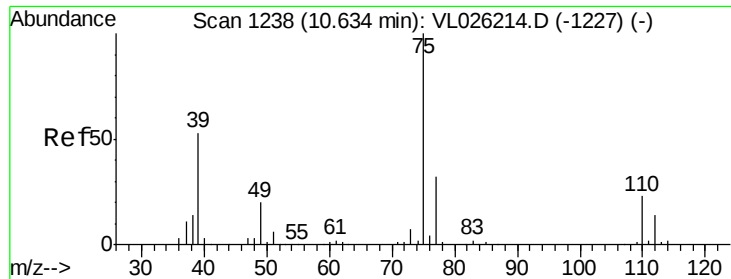
MMDadoda
10/22/2015 4:33:26 PM



#44
2,2,4-Trimethylpentane
Concen: 9.46 ppbv
RT: 9.06 min Scan# 980
Delta R.T. -0.01 min
Lab File: VL026231.D
Acq: 21 Oct 2015 7:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		2446003		
41	29.7	23.7	35.5		
56	32.5	25.9	38.9		





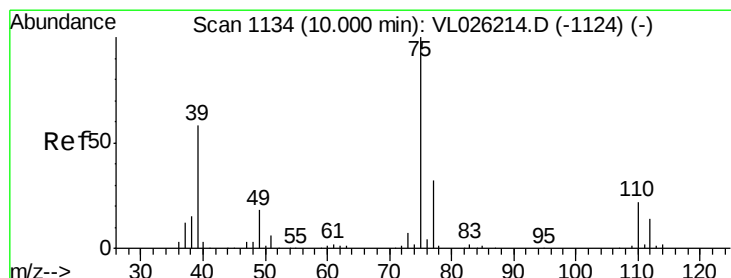
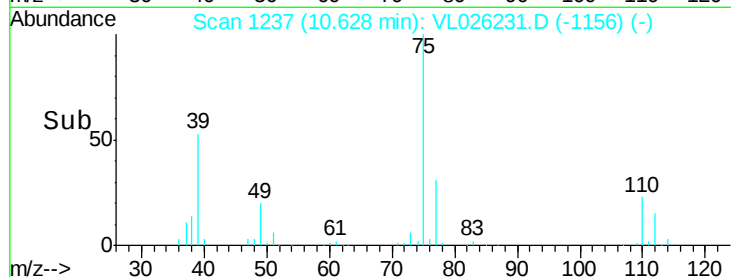
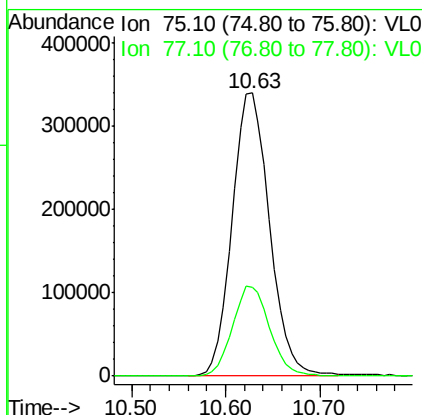
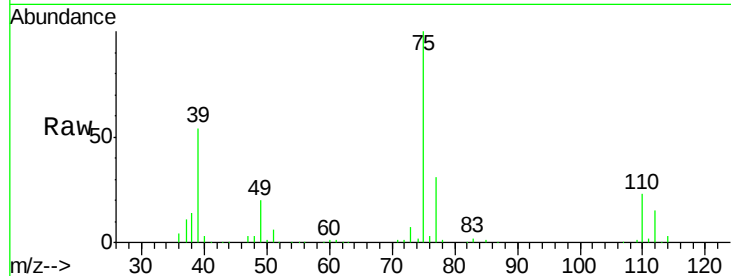
#45
t-1,3-Dichloropropene
Concen: 10.39 ppbv
RT: 10.63 min Scan# 1237
Delta R.T. -0.01 min
Lab File: VL026231.D
Acq: 21 Oct 2015 7:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 75 Resp: 942384
Ion Ratio Lower Upper
75 100
77 31.3 25.2 37.8

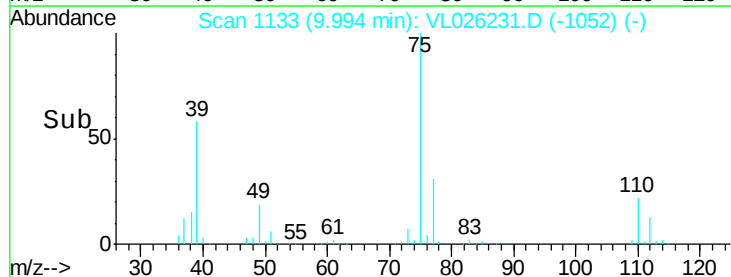
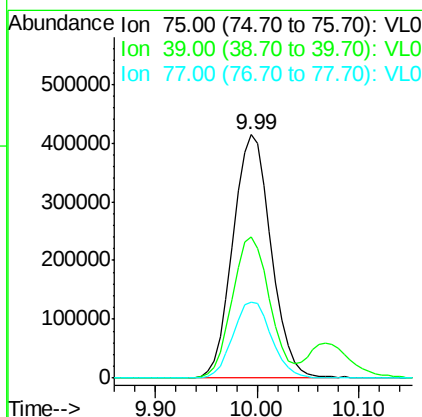
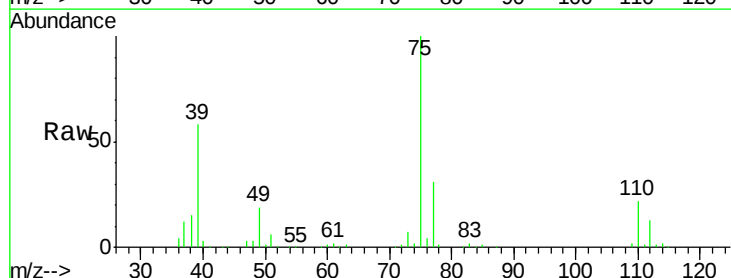
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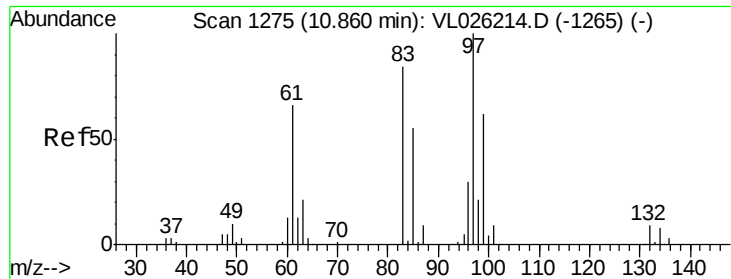
MMDadoda
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#46
cis-1,3-Dichloropropene
Concen: 10.14 ppbv
RT: 9.99 min Scan# 1133
Delta R.T. -0.01 min
Lab File: VL026231.D
Acq: 21 Oct 2015 7:32

Tgt Ion: 75 Resp: 1076050
Ion Ratio Lower Upper
75 100
39 57.9 46.2 69.4
77 31.3 25.4 38.0





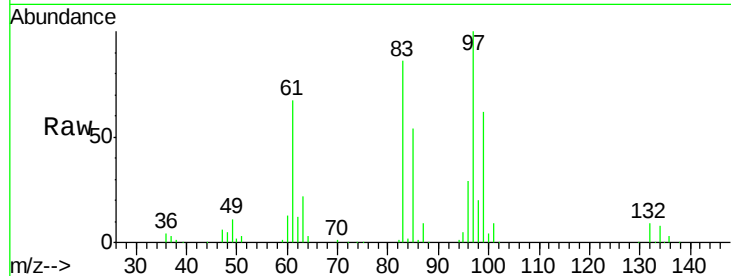
#47
 1,1,2-Trichloroethane
 Concen: 9.92 ppbv
 RT: 10.85 min Scan# 1274
 Delta R.T. -0.01 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

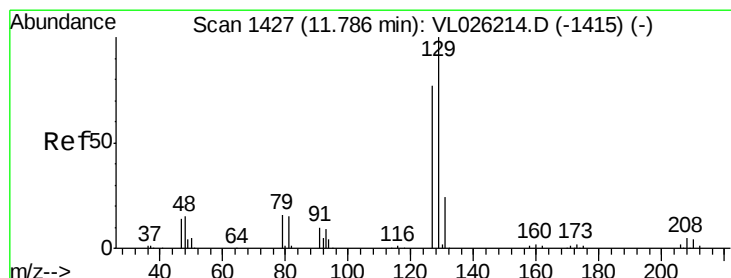
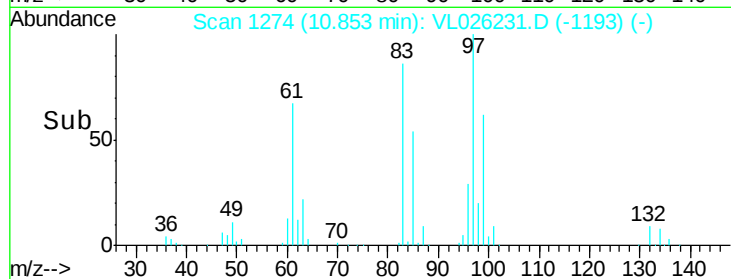
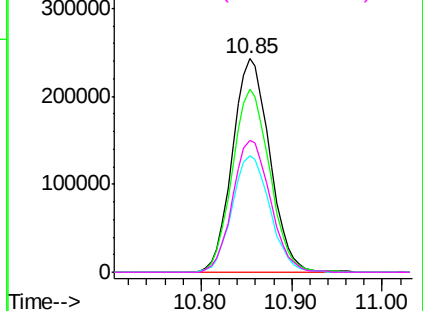
Tot Ion	Ratio	Lower	Upper
97	100		
83	86.0	67.4	101.2
85	54.3	43.8	65.6
99	62.0	49.8	74.6

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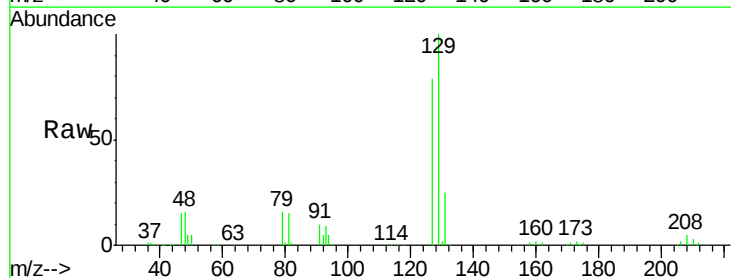


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

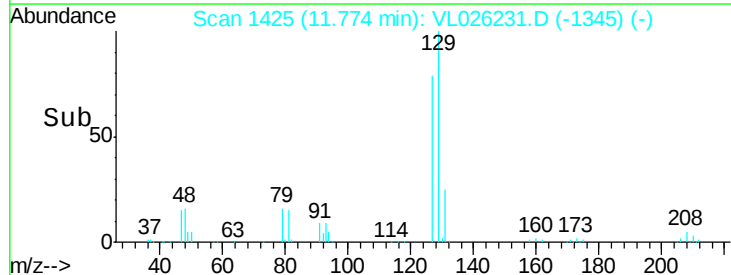
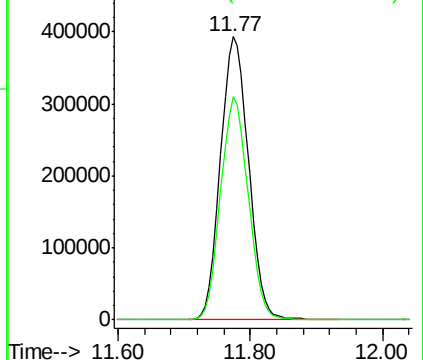


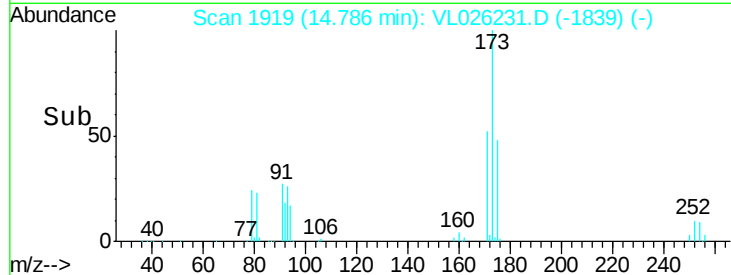
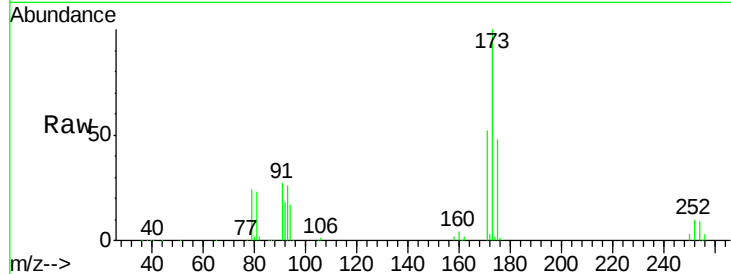
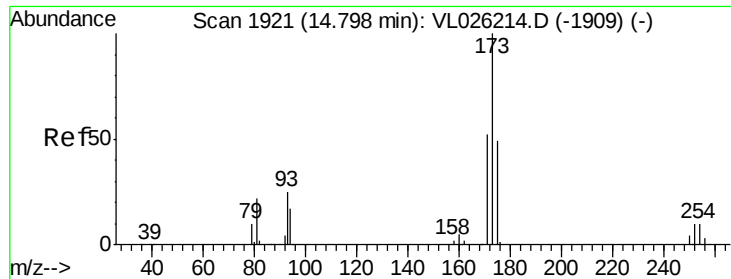
#48
 Dibromochloromethane
 Concen: 10.08 ppbv
 RT: 11.77 min Scan# 1425
 Delta R.T. -0.01 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.1	117.5



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.95 ppbv

RT: 14.79 min Scan# 1919

Delta R.T. -0.01 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Tot Ion:	173	Resp:	966368
Ion Ratio	Lower	Upper	
173	100		
175	48.5	38.7	58.1
171	51.9	41.6	62.4

Instrument :

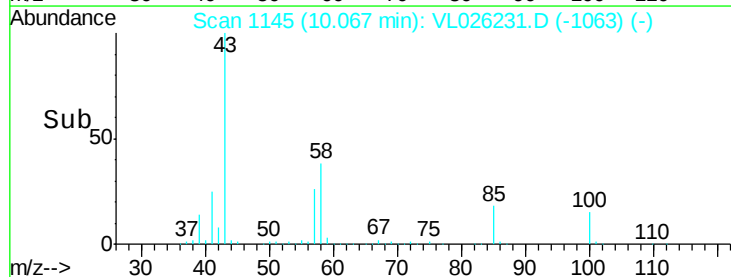
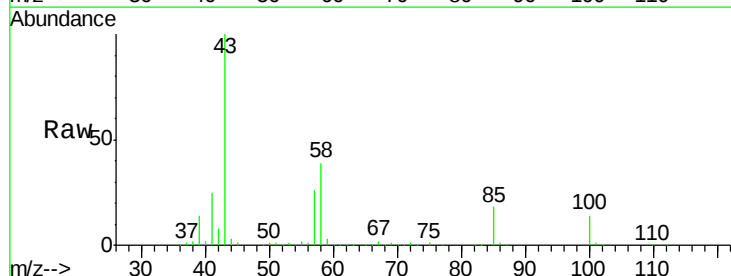
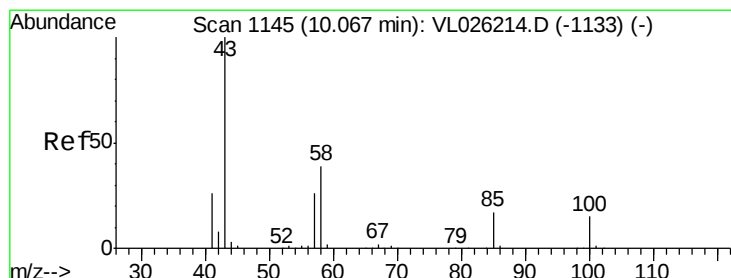
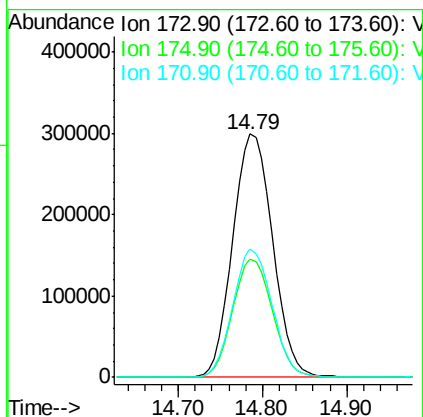
MSVOA_L

ClientSampleId :

VSTDCCC010

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#50

4-Methyl-2-Pentanone

Concen: 10.27 ppbv

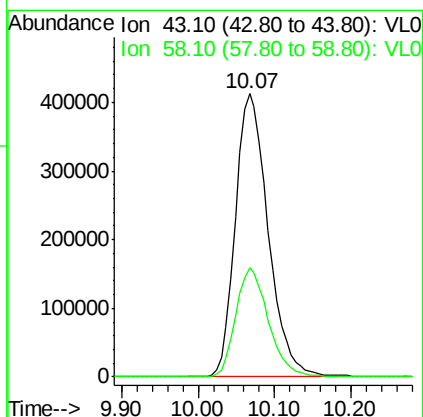
RT: 10.07 min Scan# 1145

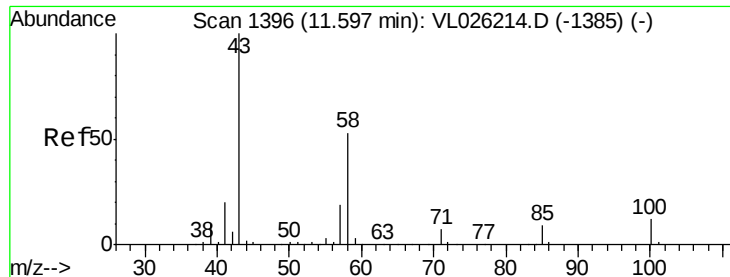
Delta R.T. -0.00 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Tgt Ion:	43	Resp:	1227911
Ion Ratio	Lower	Upper	
43	100		
58	38.5	31.1	46.7





#51

2-Hexanone

Concen: 10.53 ppbv

RT: 11.60 min Scan# 1396

Delta R.T. -0.00 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1176300

Ion Ratio Lower Upper

43 100

58 53.8 43.2 64.8

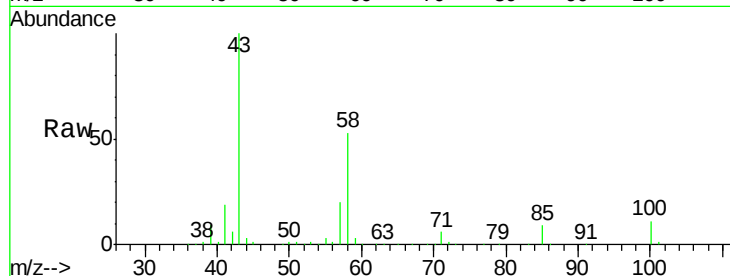
98 0.0 0.0 0.0

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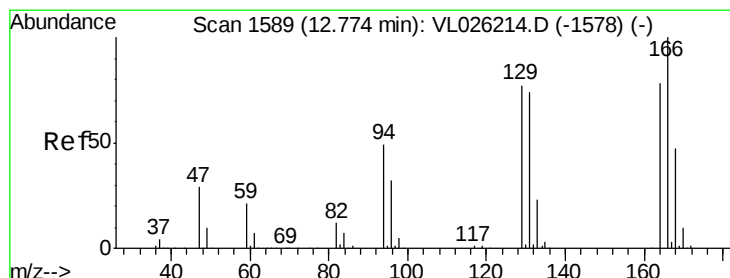
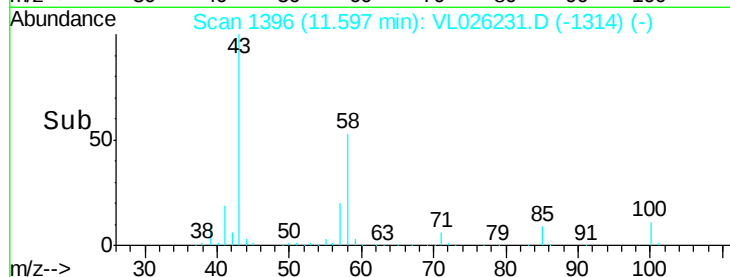
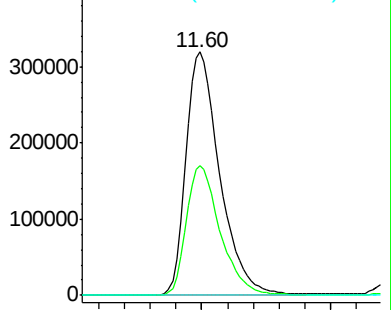
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 10.80 ppbv

RT: 12.76 min Scan# 1587

Delta R.T. -0.01 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Tgt Ion:164 Resp: 989287

Ion Ratio Lower Upper

164 100

166 125.4 102.3 153.5

129 99.1 78.2 117.4

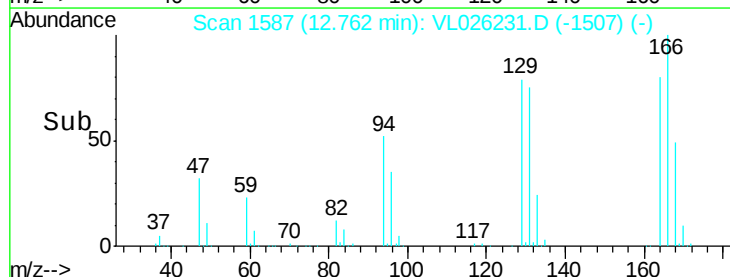
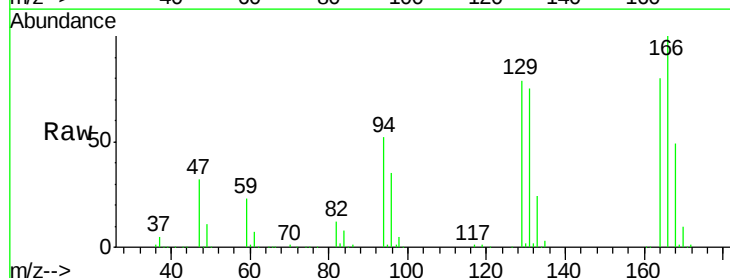
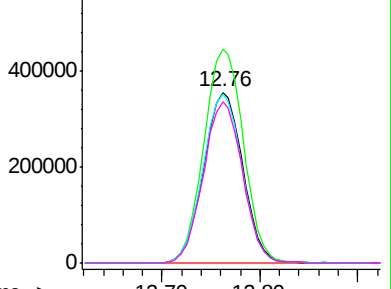
131 94.2 75.7 113.5

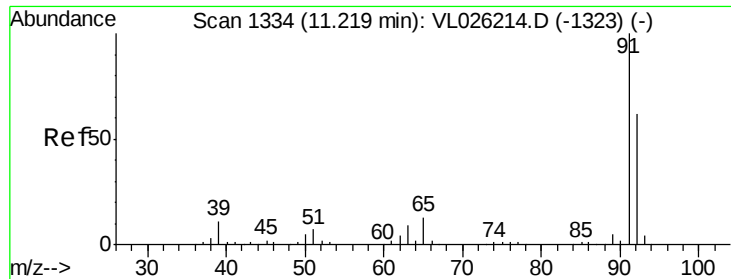
Abundance Ion 163.90 (163.60 to 164.60): V

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: 9.68 ppbv

RT: 11.21 min Scan# 1332

Delta R.T. -0.01 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2101737

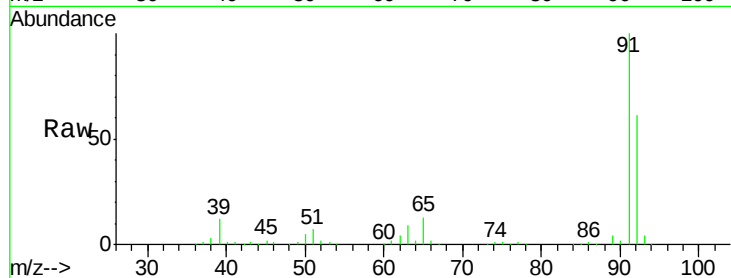
Ion Ratio Lower Upper

91 100

92 60.9 49.2 73.8

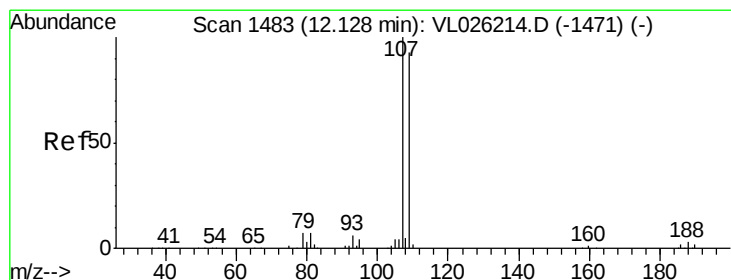
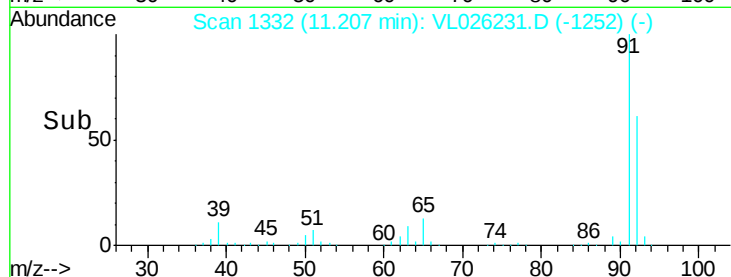
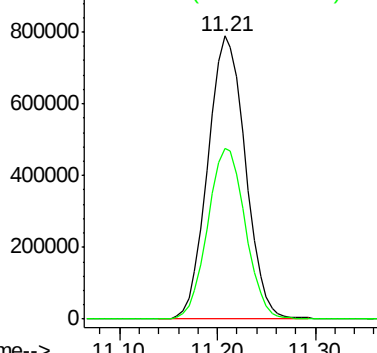
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 9.87 ppbv

RT: 12.12 min Scan# 1481

Delta R.T. -0.01 min

Lab File: VL026231.D

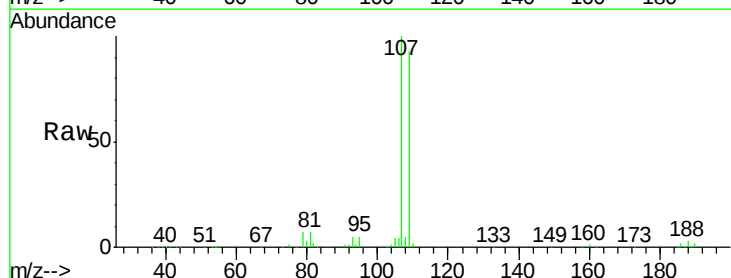
Acq: 21 Oct 2015 7:32

Tgt Ion: 107 Resp: 1077063

Ion Ratio Lower Upper

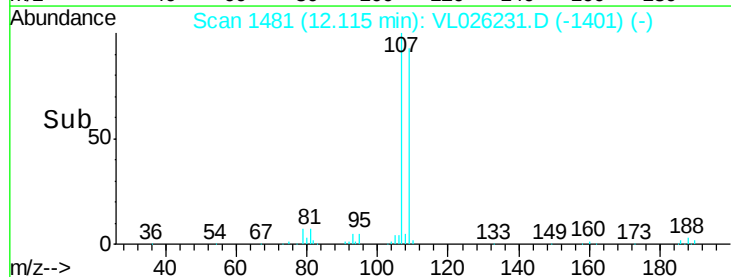
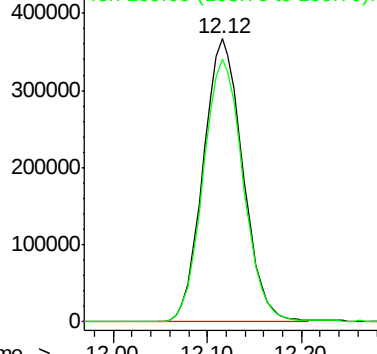
107 100

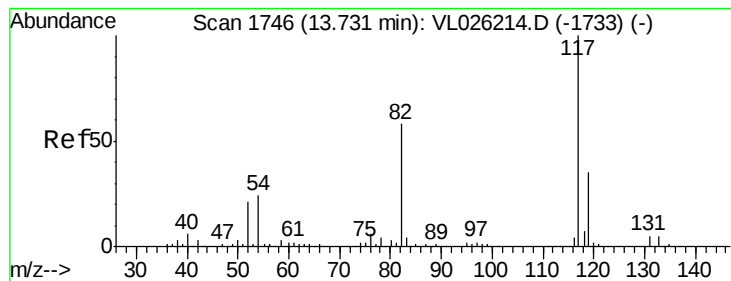
109 92.7 74.7 112.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

Chlorobenzene-d5

Concen: 10.00 ppbv m

RT: 13.72 min Scan# 1744

Delta R.T. -0.01 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 1927734

Ion Ratio Lower Upper

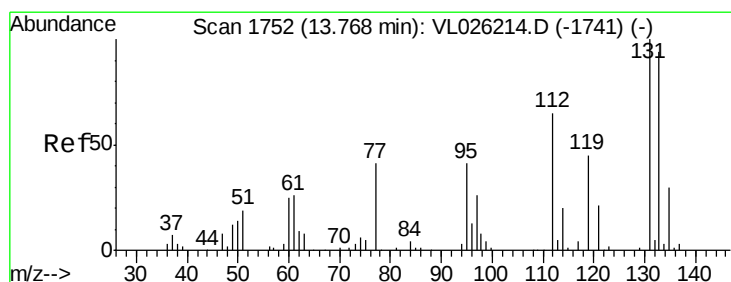
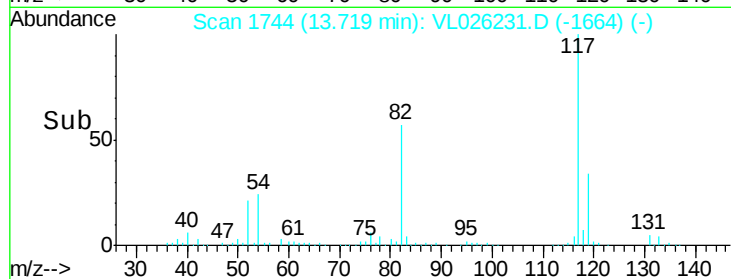
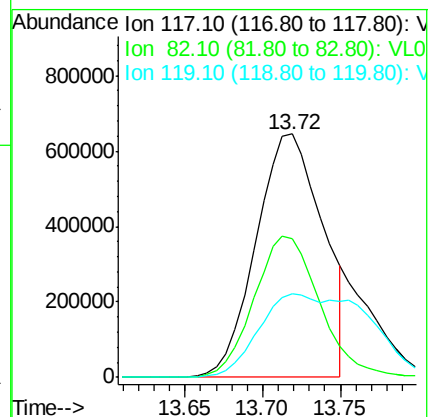
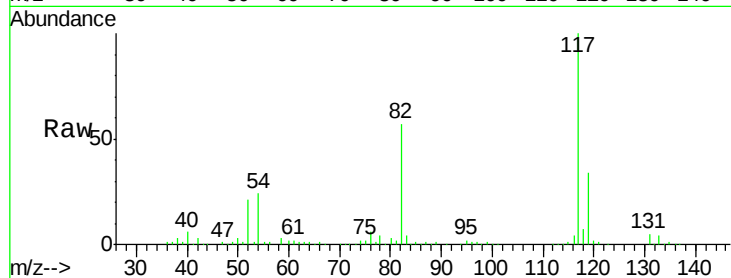
117 100

82 58.2 45.8 68.8

119 57.6 45.0 67.4

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#56

1,1,1,2-Tetrachloroethane

Concen: 9.00 ppbv

RT: 13.76 min Scan# 1750

Delta R.T. -0.01 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

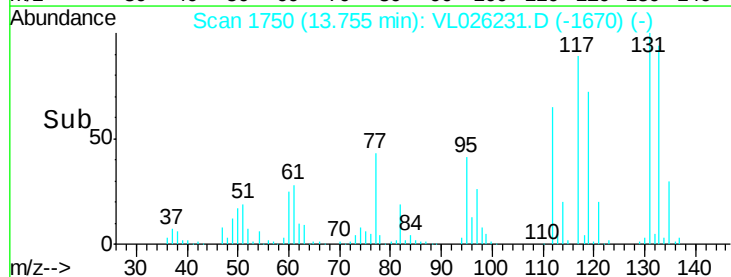
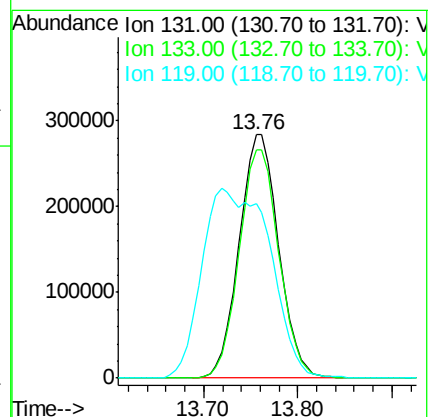
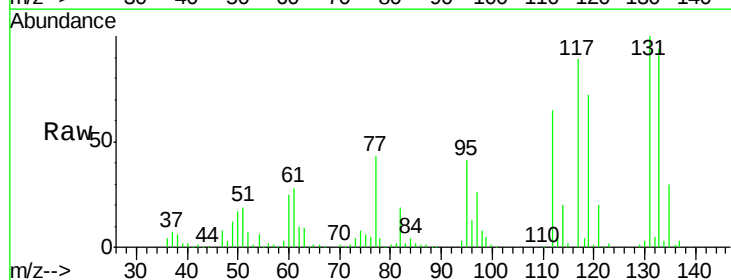
Tgt Ion:131 Resp: 831999

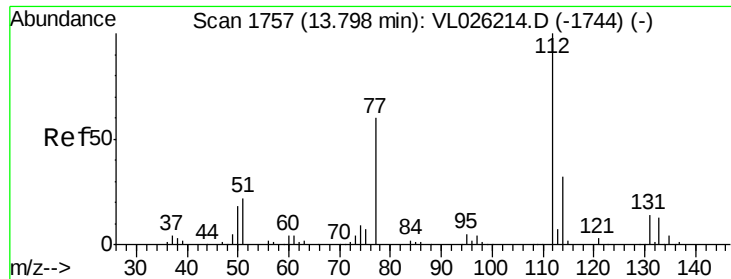
Ion Ratio Lower Upper

131 100

133 94.8 75.9 113.9

119 133.4 108.0 162.0





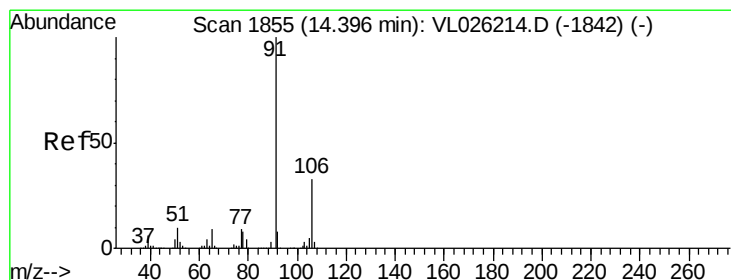
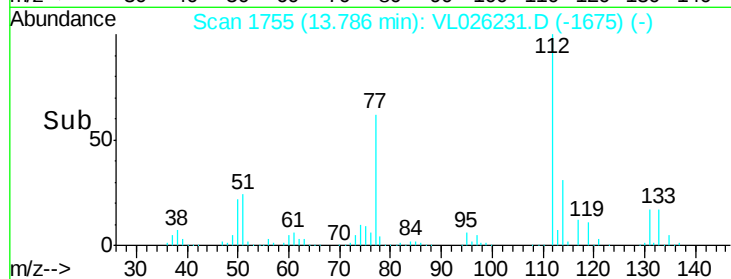
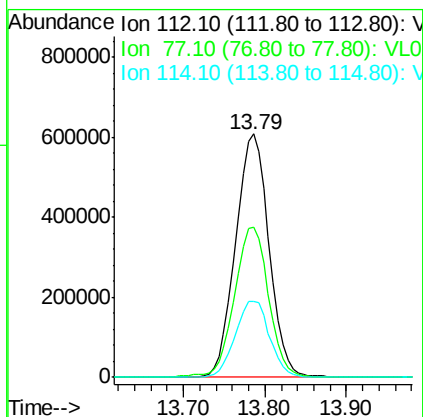
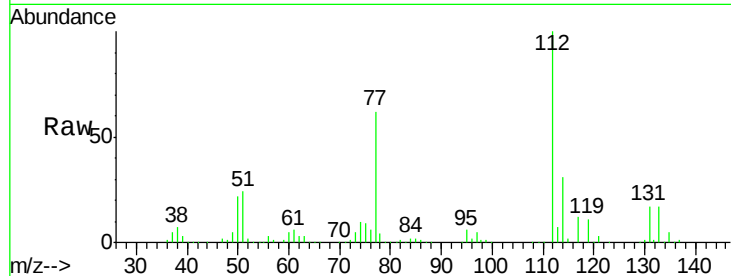
#57
Chlorobenzene
Concen: 9.38 ppbv
RT: 13.79 min Scan# 1755
Delta R.T. -0.01 min
Lab File: VL026231.D
Acq: 21 Oct 2015 7:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
112	100		
77	61.4	48.4	72.6
114	31.4	29.0	35.4

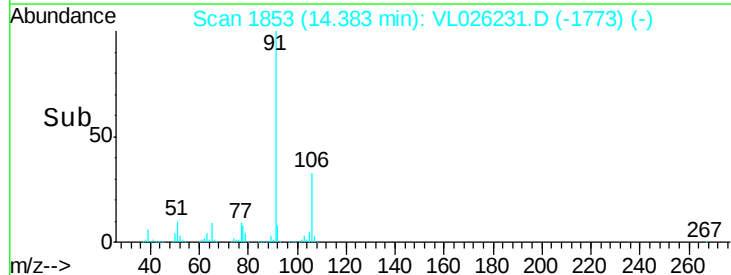
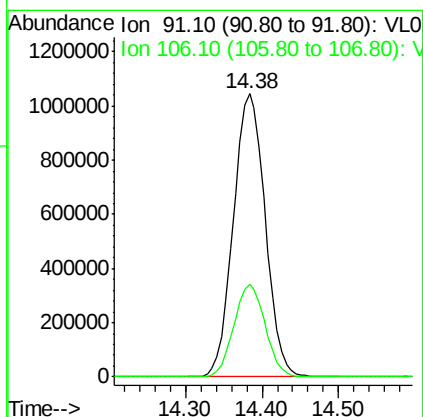
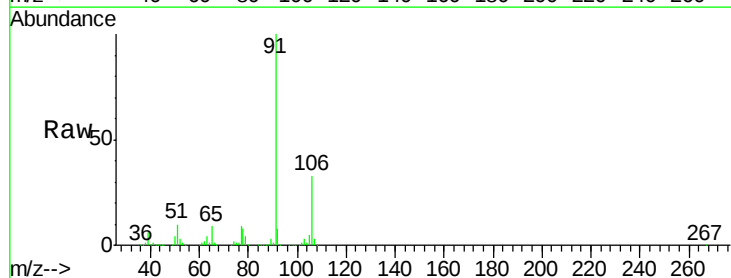
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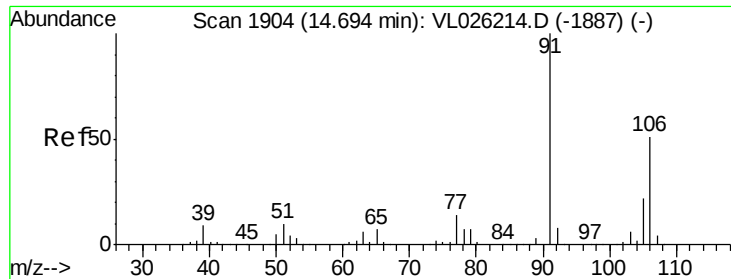
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#58
Ethyl Benzene
Concen: 9.66 ppbv
RT: 14.38 min Scan# 1853
Delta R.T. -0.01 min
Lab File: VL026231.D
Acq: 21 Oct 2015 7:32

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.6	26.1	39.1





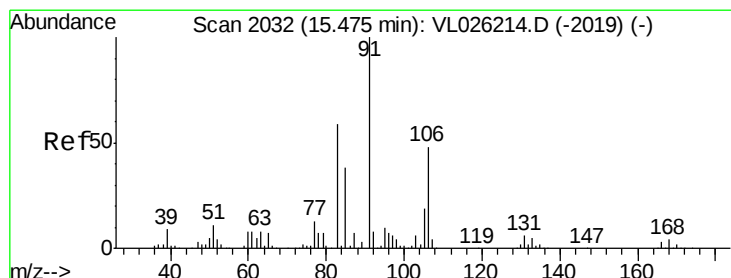
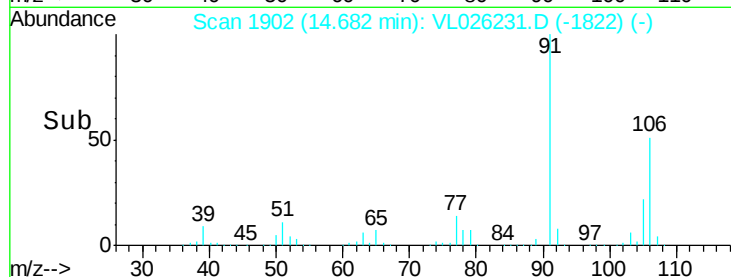
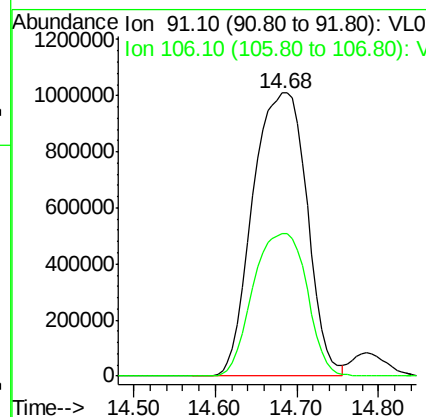
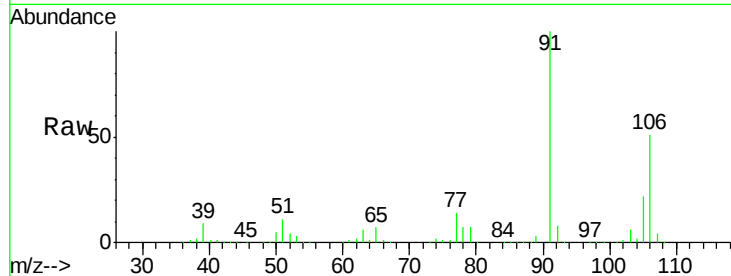
#59
m/p-Xylene
Concen: 19.02 ppbv
RT: 14.68 min Scan# 1902
Delta R.T. -0.01 min
Lab File: VL026231.D
Acq: 21 Oct 2015 7:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 4651876
Ion Ratio Lower Upper
91 100
106 50.4 40.6 61.0

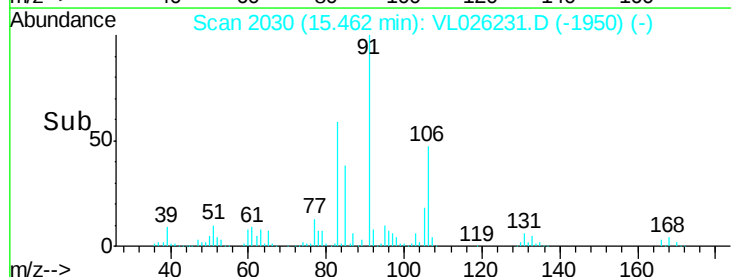
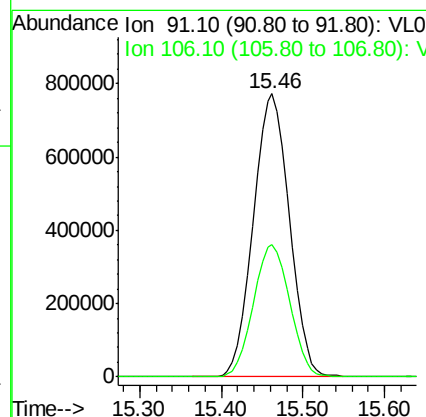
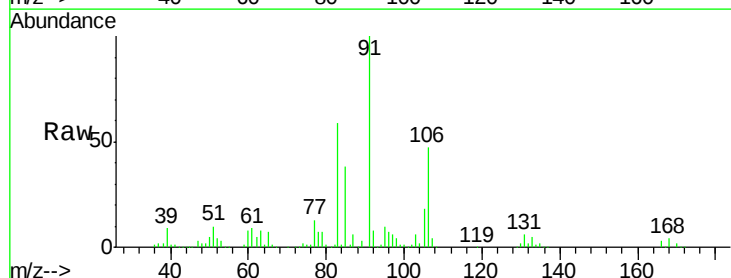
Manual Integrations
APPROVED

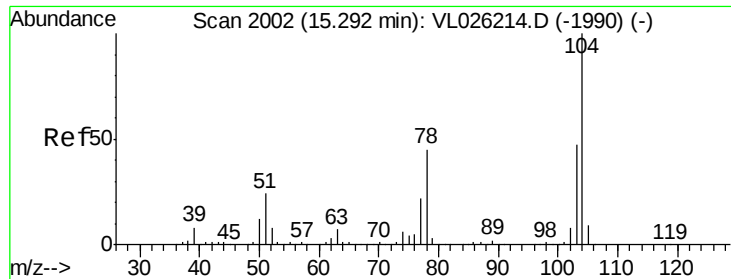
MMDadoda
10/22/2015 4:33:26 PM



#60
o-Xylene
Concen: 9.32 ppbv
RT: 15.46 min Scan# 2030
Delta R.T. -0.01 min
Lab File: VL026231.D
Acq: 21 Oct 2015 7:32

Tgt Ion: 91 Resp: 2382073
Ion Ratio Lower Upper
91 100
106 47.3 23.8 71.5





#61

Stvrene

Concen: 10.38 ppbv

RT: 15.28 min Scan# 2000

Delta R.T. -0.01 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 1200433

Ion Ratio Lower Upper

104 100

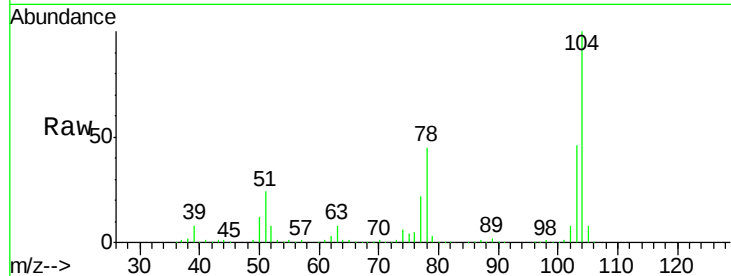
78 44.3 35.3 52.9

103 45.7 37.0 55.4

Manual Integrations
APPROVED

MMDadoda

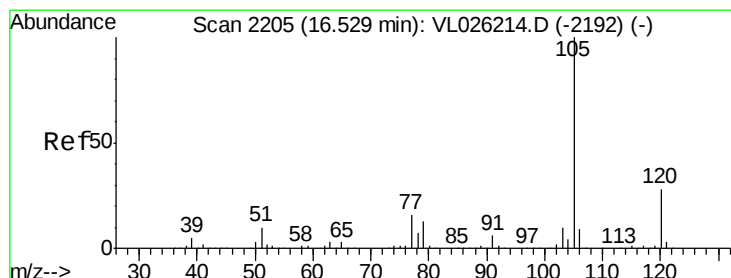
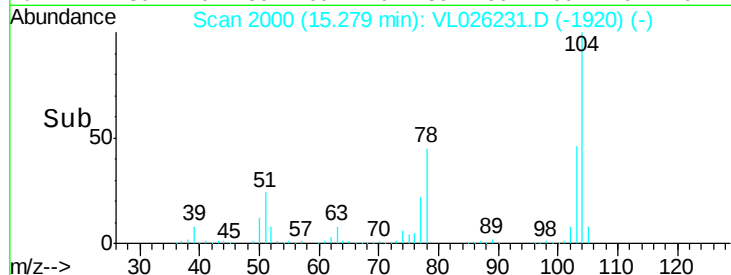
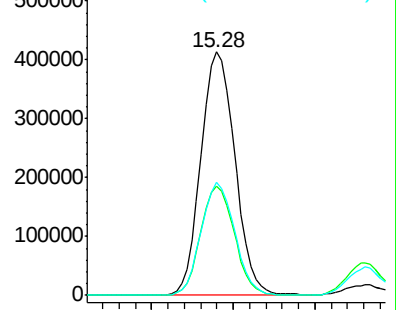
10/22/2015 4:33:26 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.47 ppbv

RT: 16.51 min Scan# 2202

Delta R.T. -0.02 min

Lab File: VL026231.D

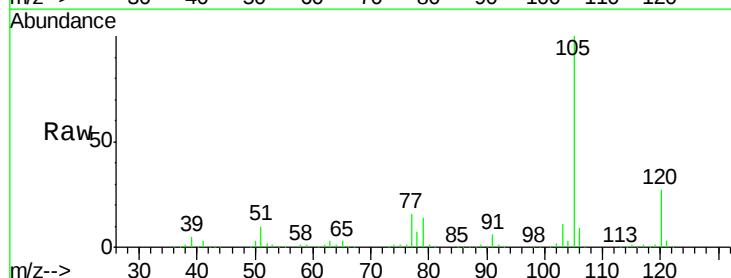
Acq: 21 Oct 2015 7:32

Tgt Ion:105 Resp: 3369484

Ion Ratio Lower Upper

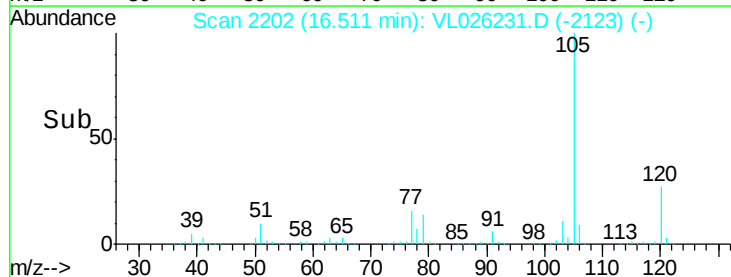
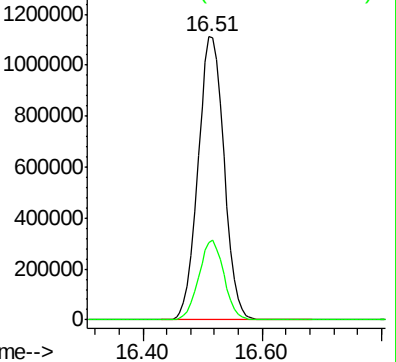
105 100

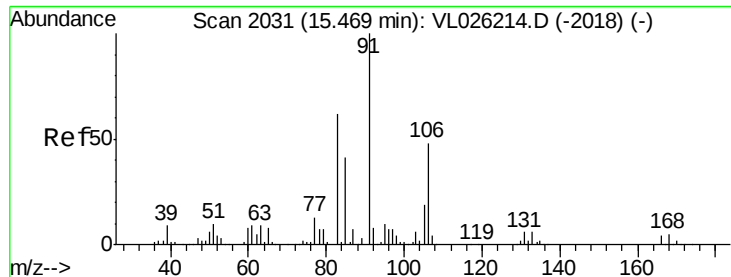
120 27.2 21.8 32.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





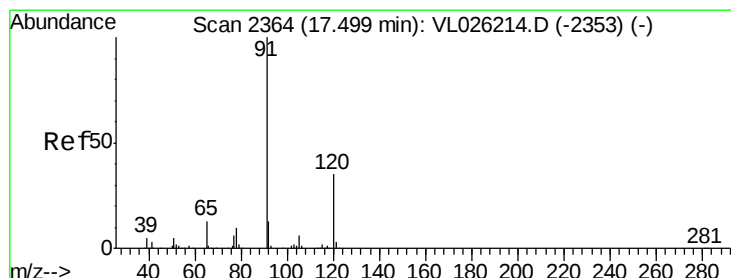
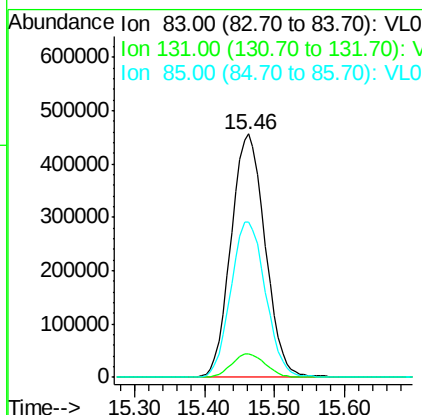
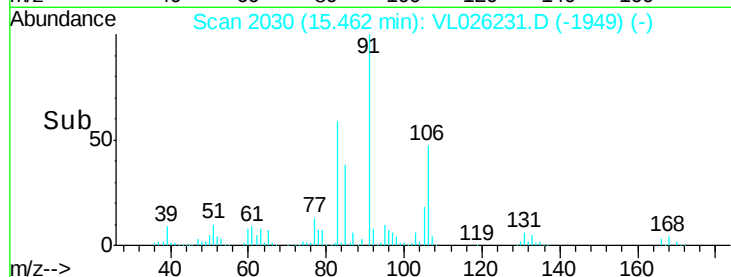
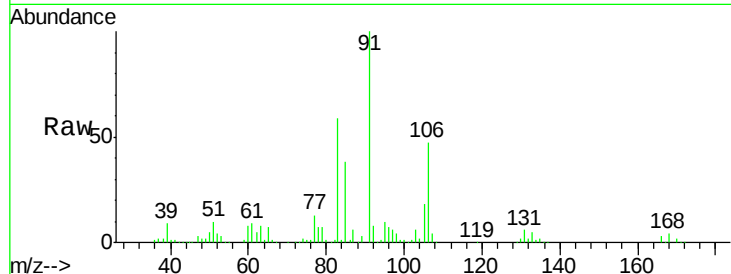
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.17 ppbv
 RT: 15.46 min Scan# 2030
 Delta R.T. -0.01 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	83	Resp	1551291
Ion Ratio	100	Lower	Upper
83	100		
131	9.5	5.0	14.9
85	64.9	32.3	96.9

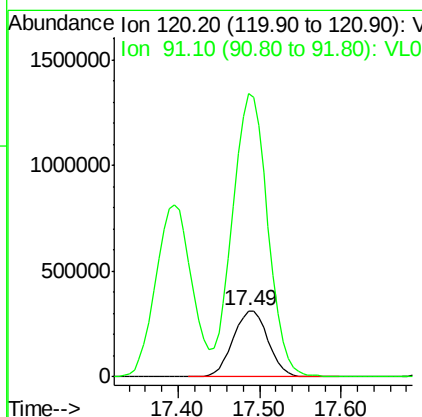
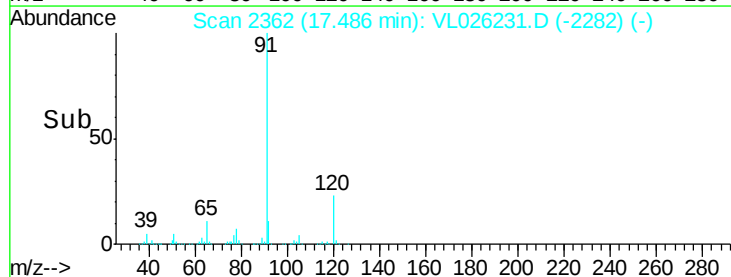
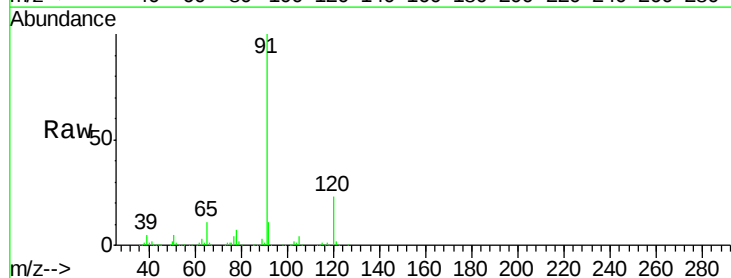
Manual Integrations
 APPROVED

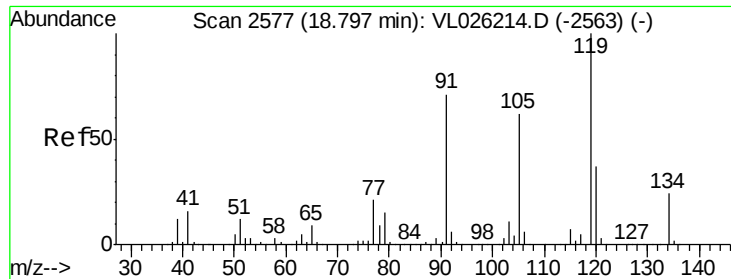
MMDadoda
 10/22/2015 4:33:26 PM



#64
 n-propylbenzene
 Concen: 9.57 ppbv
 RT: 17.49 min Scan# 2362
 Delta R.T. -0.01 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Tgt Ion	120	Resp	936079
Ion Ratio	100	Lower	Upper
120	100		
91	425.8	331.7	497.5





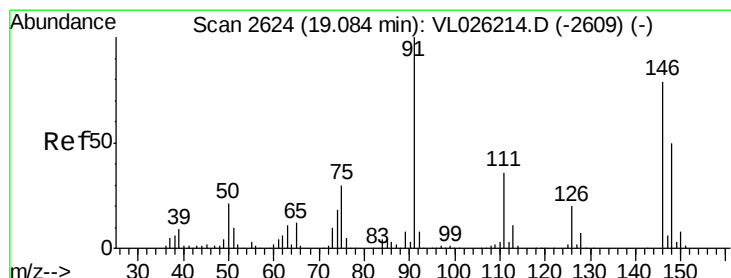
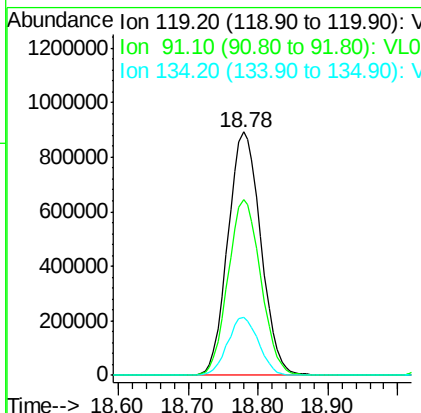
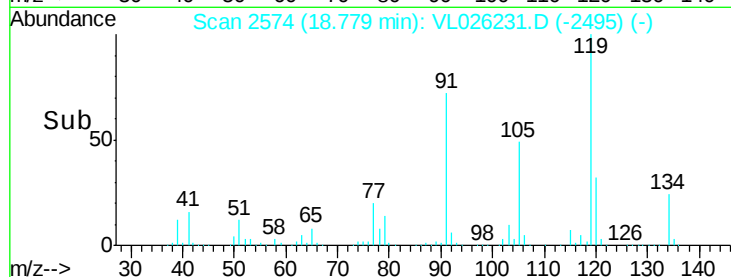
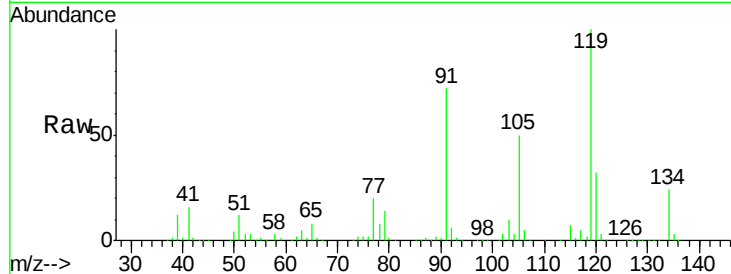
#65
 tert-Butylbenzene
 Concen: 8.98 ppbv
 RT: 18.78 min Scan# 2574
 Delta R.T. -0.02 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 119 Resp: 2917705
 Ion Ratio Lower Upper
 119 100
 91 72.1 57.5 86.3
 134 22.6 18.1 27.1

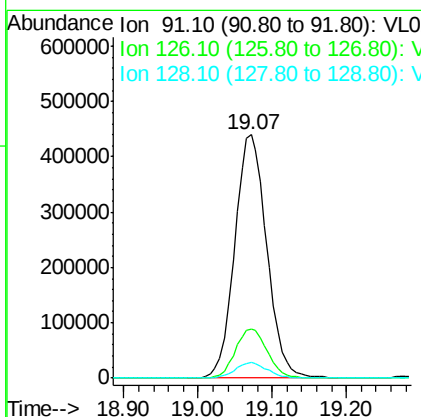
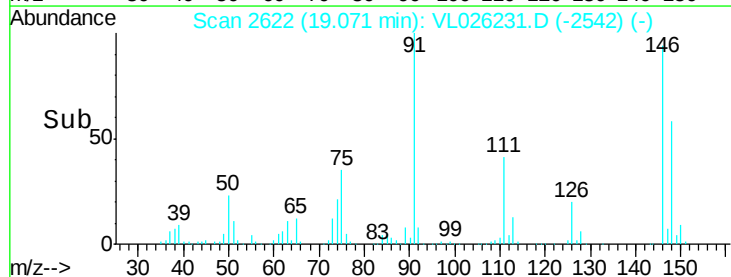
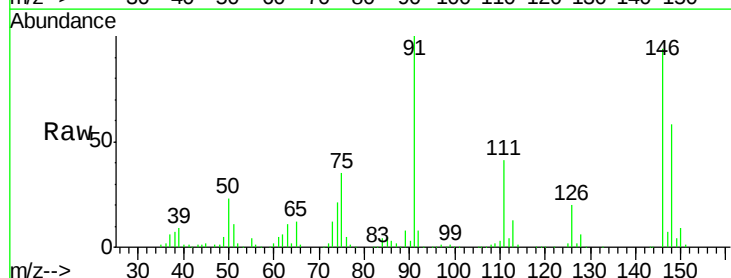
Manual Integrations
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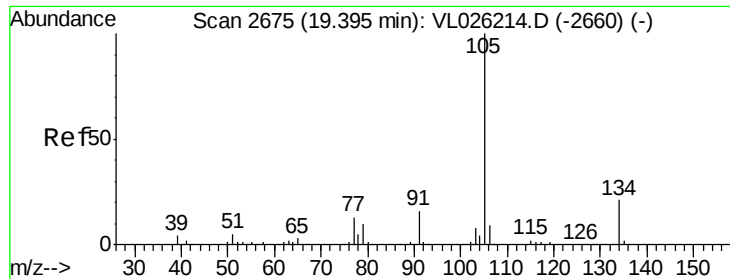
MMDadoda
 10/22/2015 4:33:26 PM



#66
 Benzyl Chloride
 Concen: 9.84 ppbv
 RT: 19.07 min Scan# 2622
 Delta R.T. -0.01 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Tgt Ion: 91 Resp: 1318611
 Ion Ratio Lower Upper
 91 100
 126 20.2 16.2 24.2
 128 6.4 5.1 7.7





#67

sec-Butylbenzene

Concen: 9.34 ppbv

RT: 19.38 min Scan# 2672

Delta R.T. -0.02 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 4228931

Ion Ratio Lower Upper

105 100

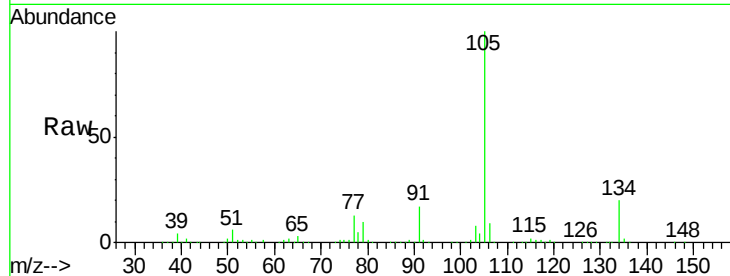
134 20.2 16.2 24.4

Manual Integrations

APPROVED

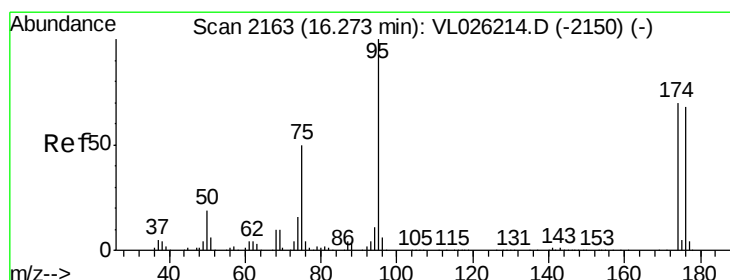
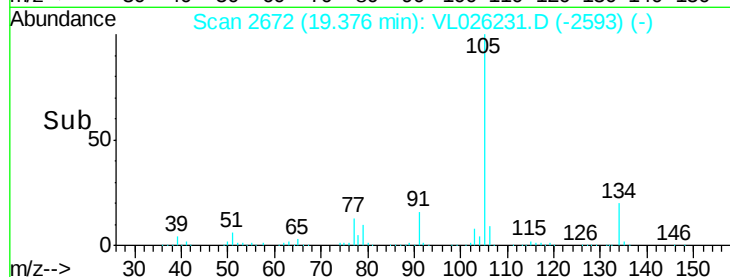
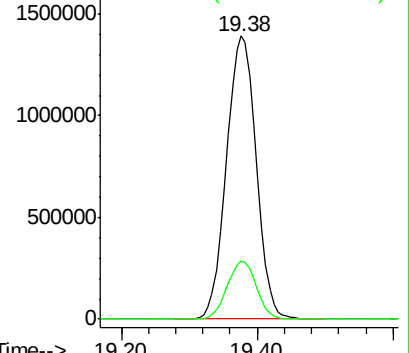
MMDadoda

10/22/2015 4:33:26 PM



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: 10.11 ppbv

RT: 16.26 min Scan# 2161

Delta R.T. -0.01 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

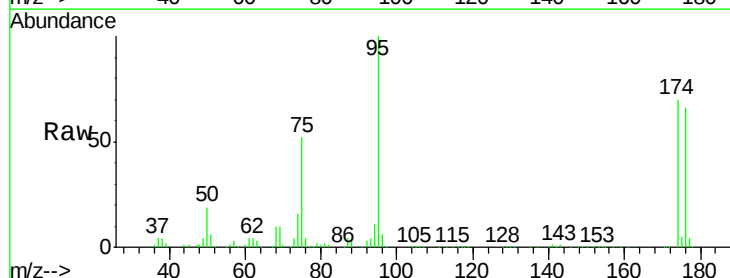
Tgt Ion: 95 Resp: 1503076

Ion Ratio Lower Upper

95 100

174 68.2 55.8 83.8

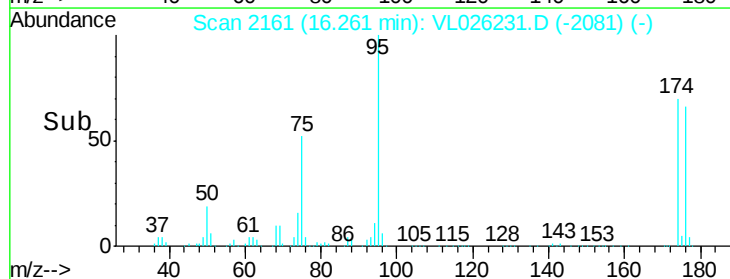
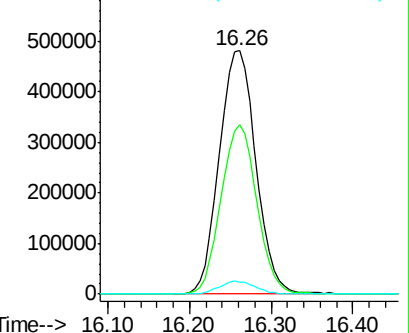
175 5.2 4.3 6.5

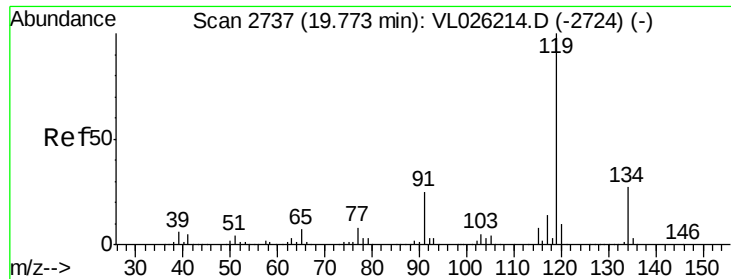


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





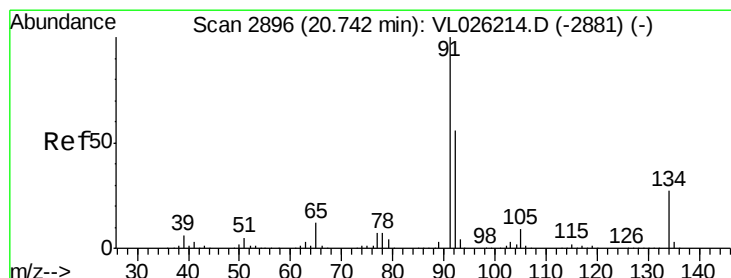
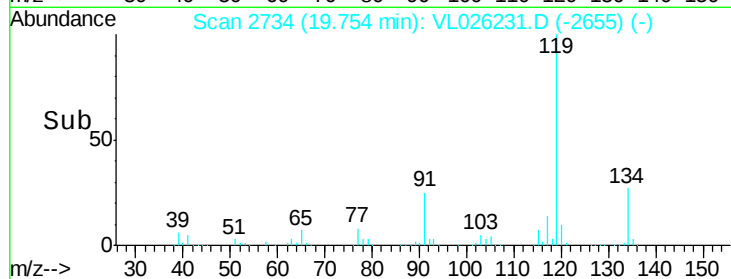
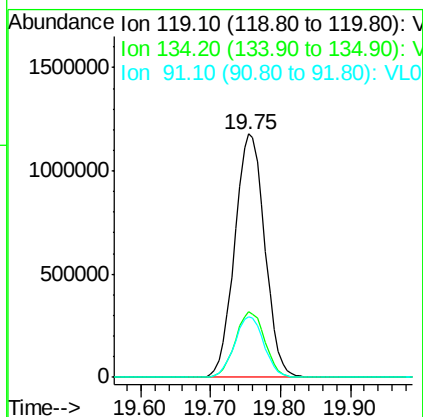
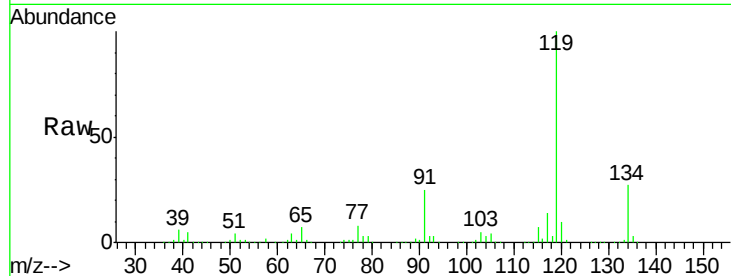
#69
 p-Isopropyltoluene
 Concen: 9.27 ppbv
 RT: 19.75 min Scan# 2734
 Delta R.T. -0.02 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.7	21.4	32.0
91	24.5	19.5	29.3

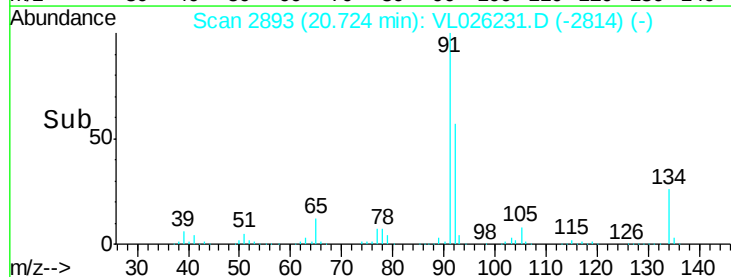
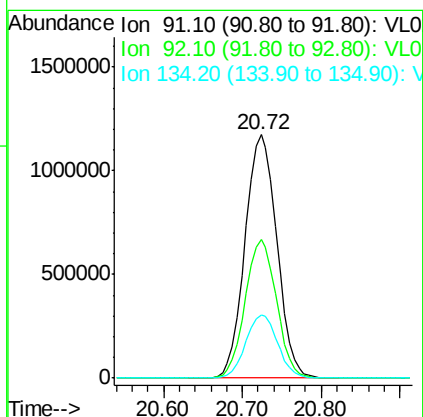
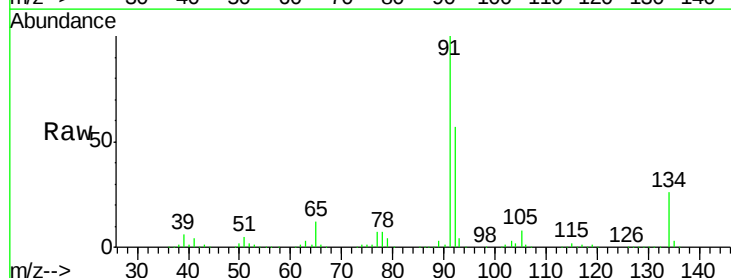
Manual Integrations
 APPROVED

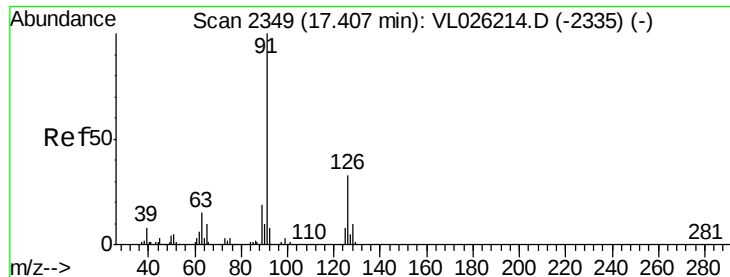
MMDadoda
 10/22/2015 4:33:26 PM



#70
 n-Butylbenzene
 Concen: 9.52 ppbv
 RT: 20.72 min Scan# 2893
 Delta R.T. -0.02 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.1	45.0	67.6
134	26.0	21.4	32.0





#71

2-Chlorotoluene

Concen: 9.53 ppbv

RT: 17.39 min Scan# 2347

Delta R.T. -0.01 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2497388

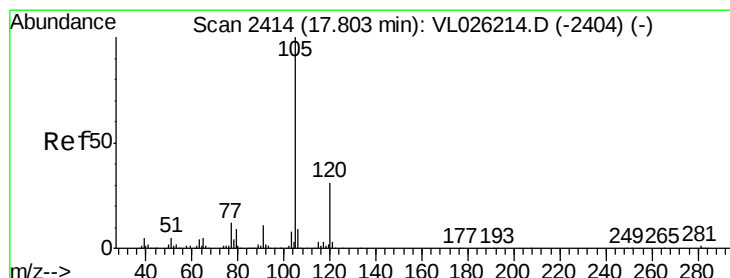
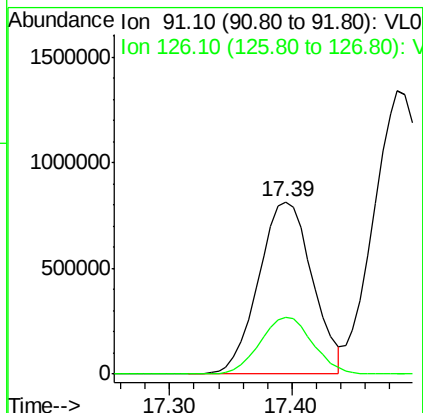
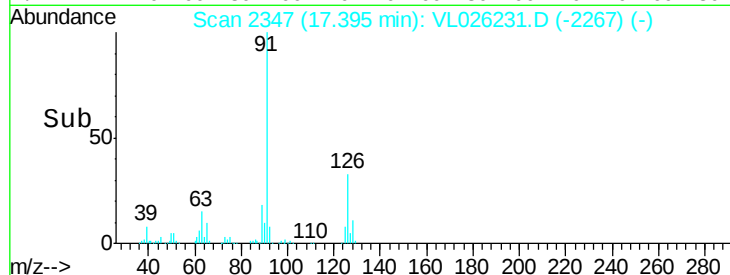
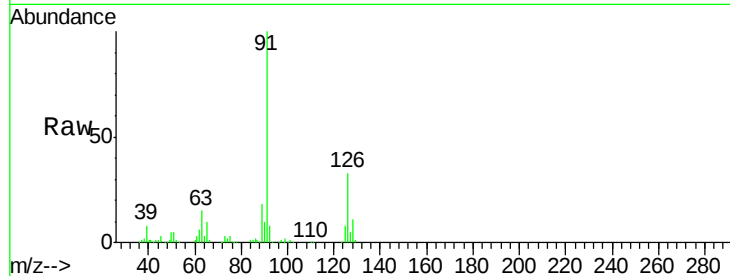
Ion Ratio Lower Upper

91 100

126 32.6 12.9 51.7

Manual Integrations
APPROVED

MMDadoda
10/22/2015 4:33:26 PM



#72

4-Ethyltoluene

Concen: 9.67 ppbv

RT: 17.79 min Scan# 2412

Delta R.T. -0.01 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Tgt Ion: 105 Resp: 2876851

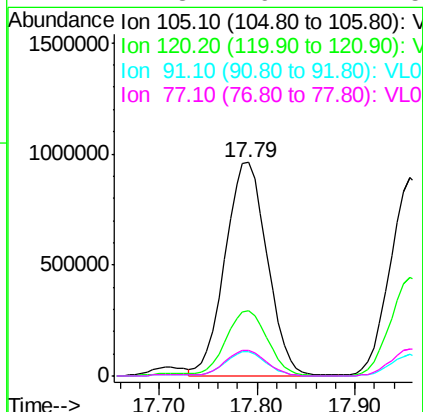
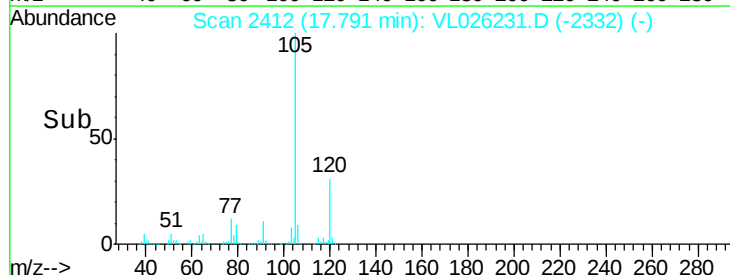
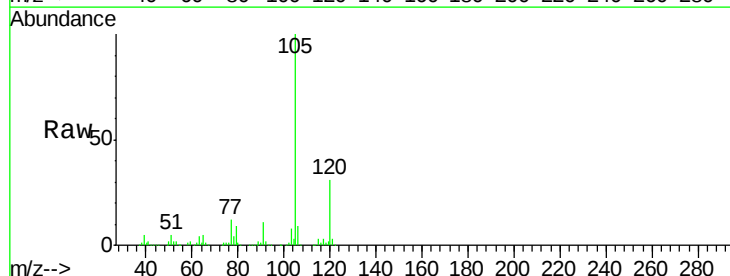
Ion Ratio Lower Upper

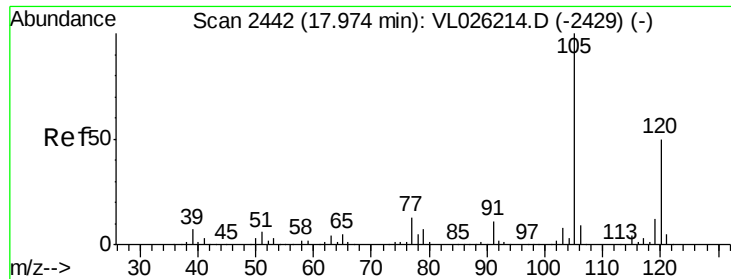
105 100

120 31.6 25.2 37.8

91 11.5 9.0 13.6

77 12.3 9.7 14.5





#73

1,3,5-Trimethylbenzene

Concen: 9.58 ppbv

RT: 17.96 min Scan# 2439

Delta R.T. -0.02 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 2657297

Ion Ratio Lower Upper

105 100

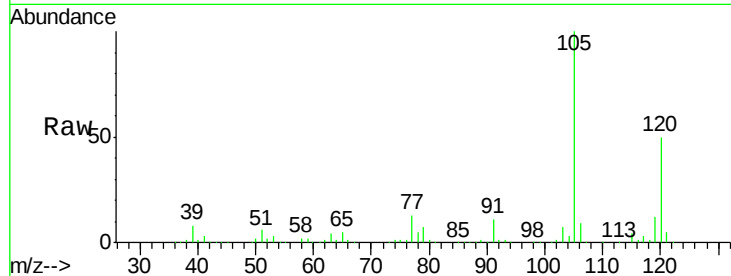
120 49.5 39.8 59.6

Manual Integrations

APPROVED

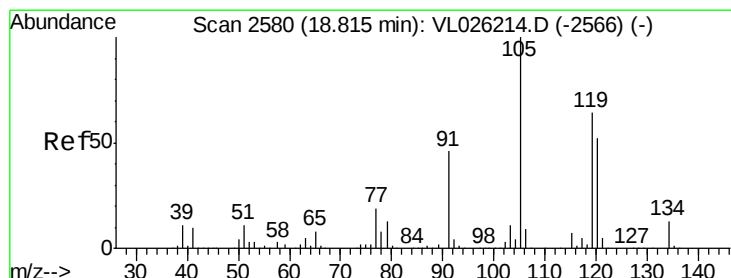
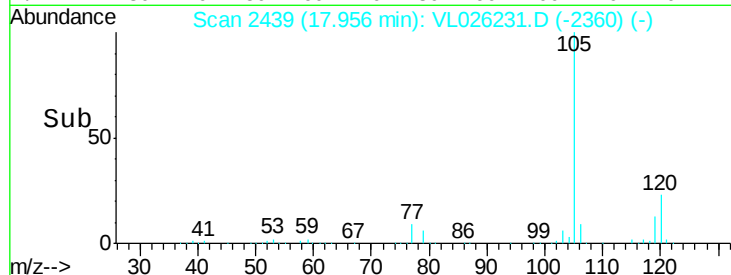
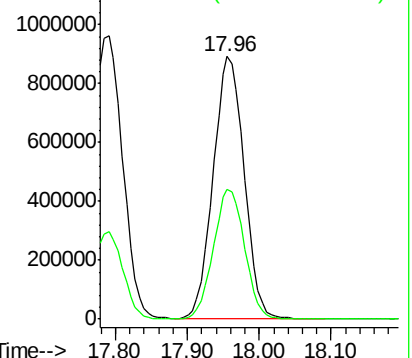
MMDadoda

10/22/2015 4:33:26 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.04 ppbv

RT: 18.80 min Scan# 2578

Delta R.T. -0.01 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Tgt Ion:105 Resp: 2598253

Ion Ratio Lower Upper

105 100

120 50.4 41.2 61.8

91 42.0 37.2 55.8

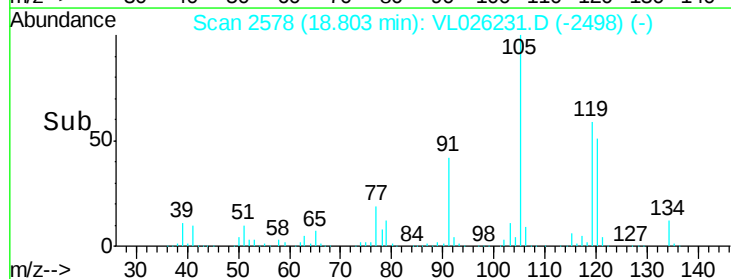
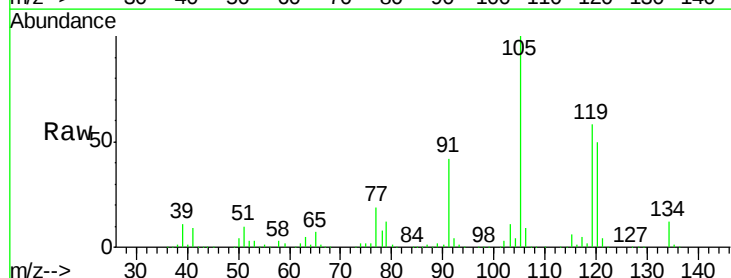
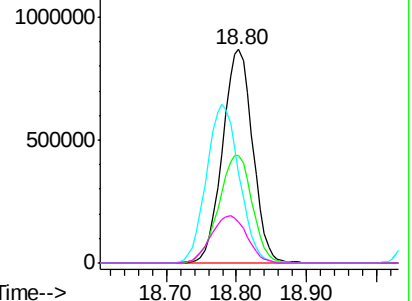
77 19.0 15.6 23.4

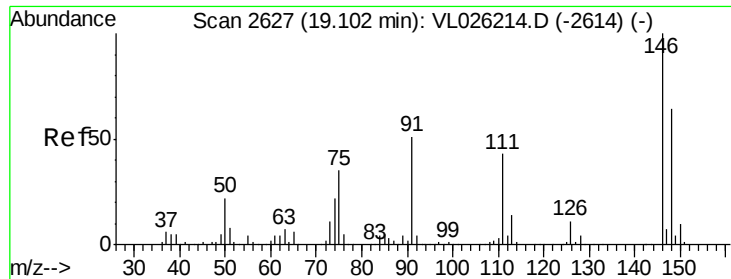
Abundance Ion 105.10 (104.80 to 105.80): V

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





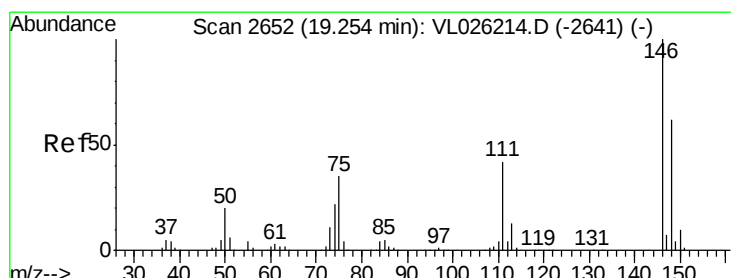
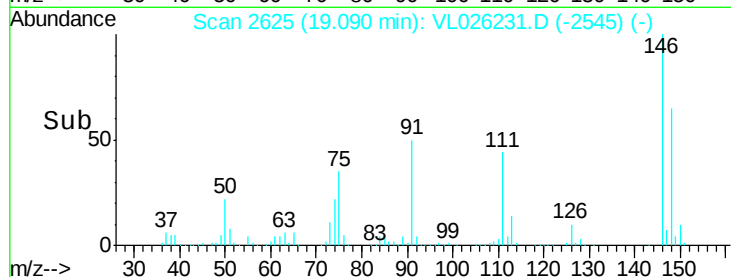
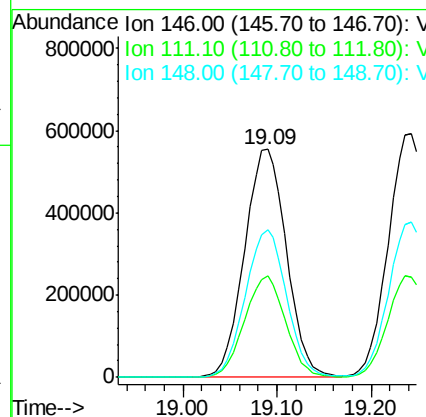
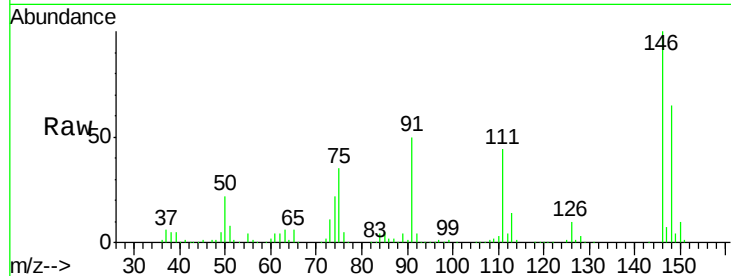
#75
 1,3-Dichlorobenzene
 Concen: 9.23 ppbv
 RT: 19.09 min Scan# 2625
 Delta R.T. -0.01 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 1733744
 Ion Ratio Lower Upper
 146 100
 111 43.4 21.6 64.8
 148 63.6 31.8 95.4

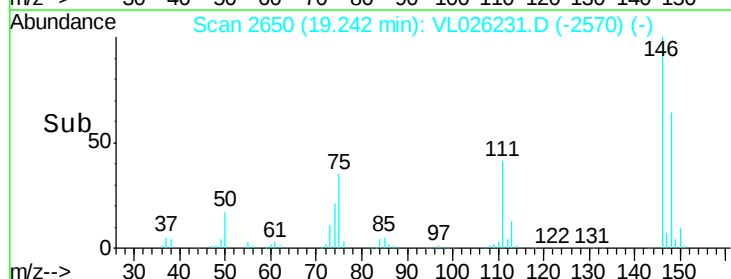
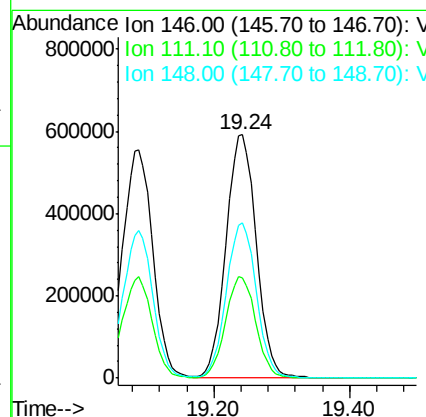
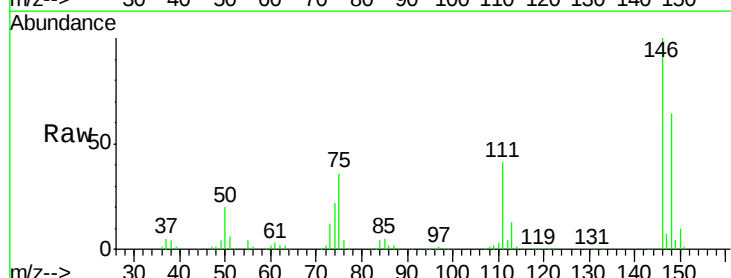
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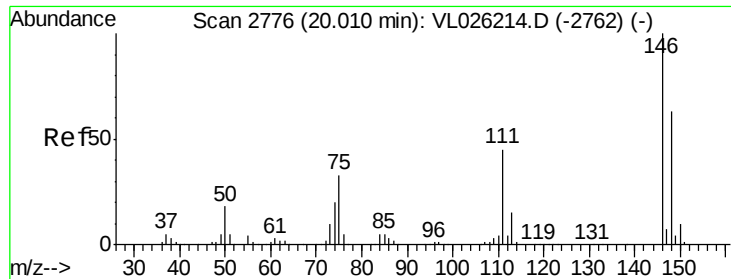
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#76
 1,4-Dichlorobenzene
 Concen: 9.30 ppbv
 RT: 19.24 min Scan# 2650
 Delta R.T. -0.01 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Tgt Ion:146 Resp: 1824998
 Ion Ratio Lower Upper
 146 100
 111 42.0 20.8 62.2
 148 63.8 31.9 95.9





#77

1,2-Dichlorobenzene

Concen: 9.31 ppbv

RT: 19.99 min Scan# 2773

Delta R.T. -0.02 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 1763553

Ion Ratio Lower Upper

146 100

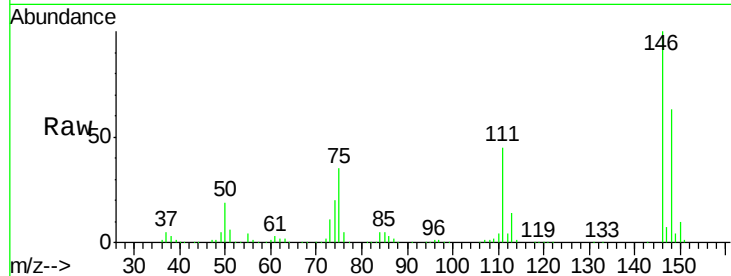
111 45.3 22.6 67.7

148 63.6 31.6 95.0

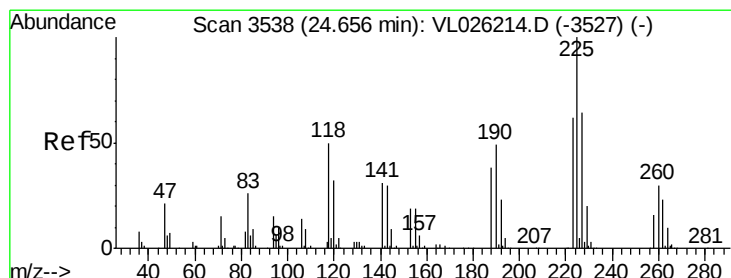
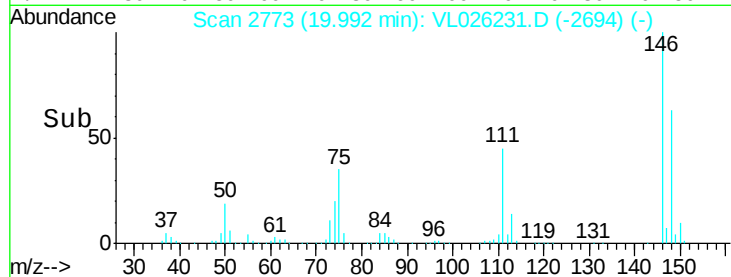
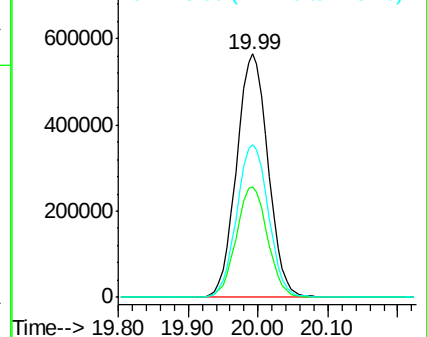
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 7.42 ppbv

RT: 24.64 min Scan# 3536

Delta R.T. -0.01 min

Lab File: VL026231.D

Acq: 21 Oct 2015 7:32

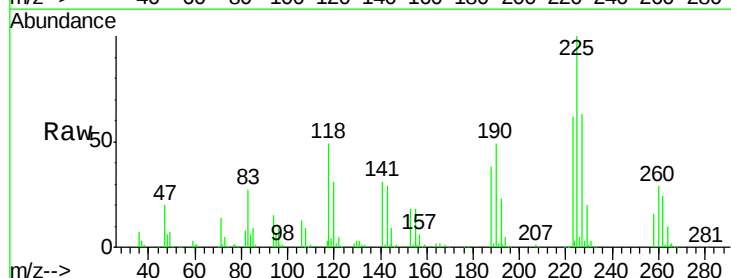
Tgt Ion:225 Resp: 720946

Ion Ratio Lower Upper

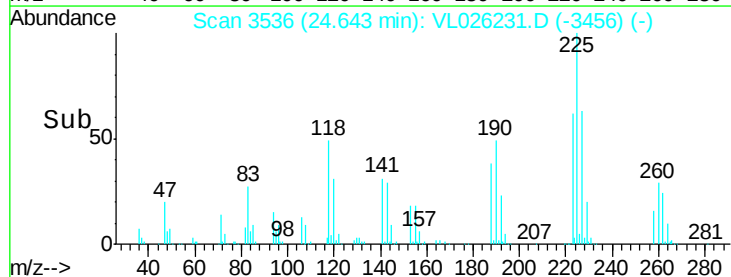
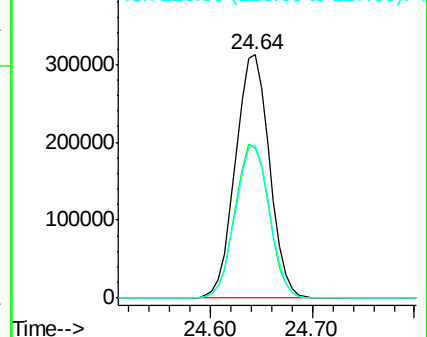
225 100

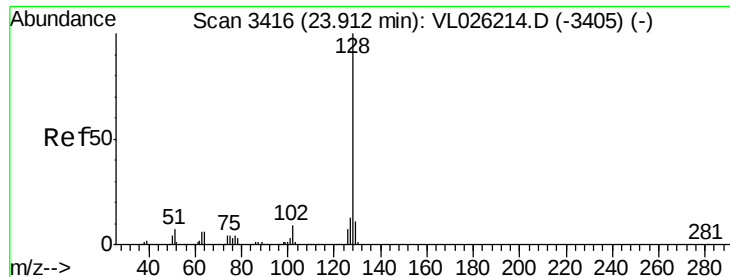
223 63.5 50.2 75.2

227 63.4 50.8 76.2



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





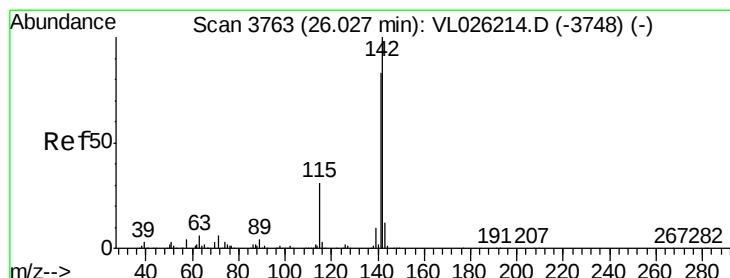
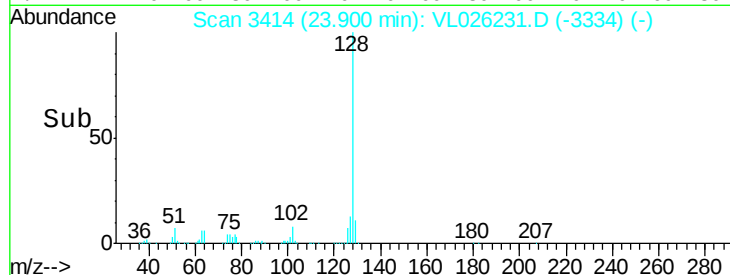
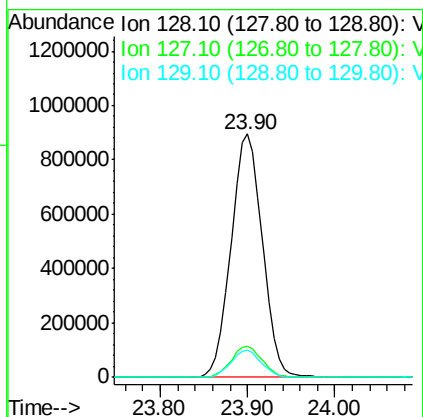
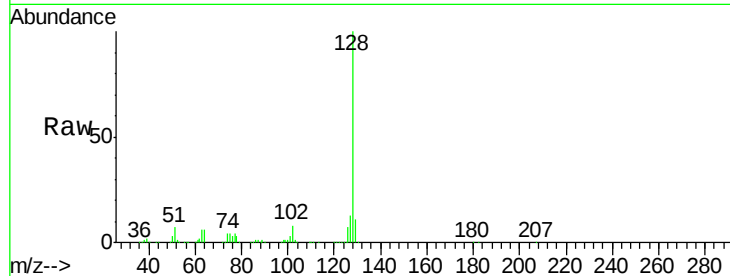
#79
Naphthalene
Concen: 8.79 ppbv
RT: 23.90 min Scan# 3414
Delta R.T. -0.01 min
Lab File: VL026231.D
Acq: 21 Oct 2015 7:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.3	8.8	13.2

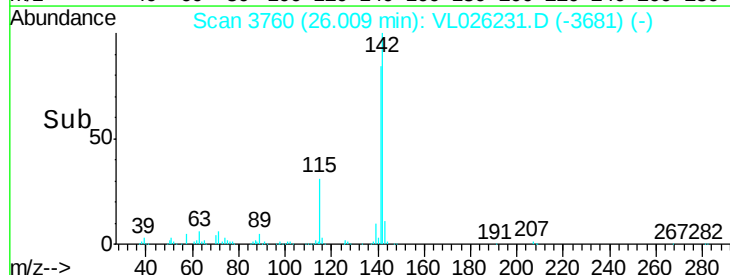
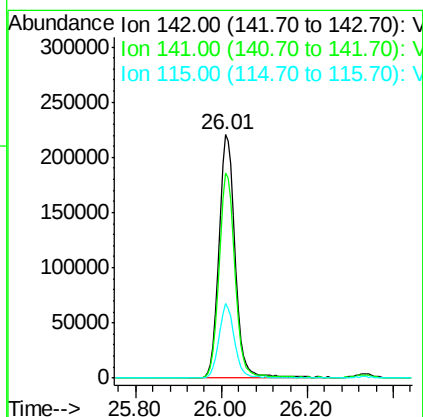
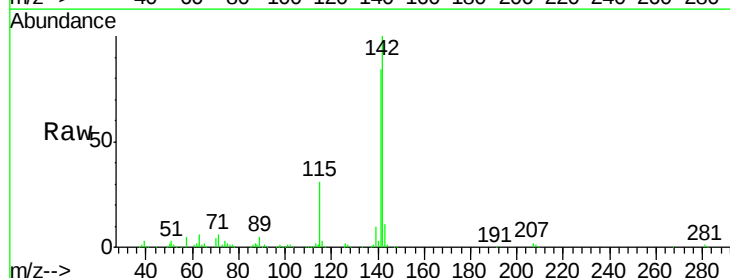
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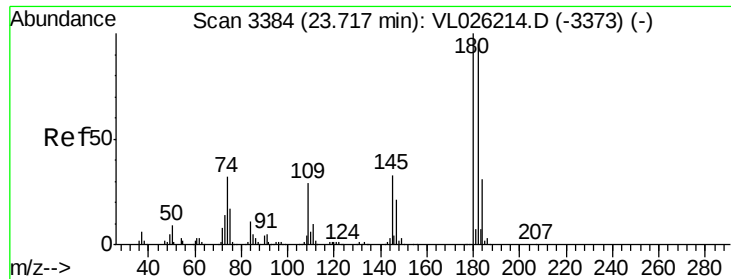
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#80
Naphthalene, 2-methyl-
Concen: 13.02 ppbv
RT: 26.01 min Scan# 3760
Delta R.T. -0.02 min
Lab File: VL026231.D
Acq: 21 Oct 2015 7:32

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.4	66.5	99.7
115	30.0	24.2	36.4





#81
 1,2,4-Trichlorobenzene
 Concen: 8.29 ppbv
 RT: 23.70 min Scan# 3381
 Delta R.T. -0.02 min
 Lab File: VL026231.D
 Acq: 21 Oct 2015 7:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.7	115.1
184	30.3	24.2	36.2

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