

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102915\
 Data File : VL026261.D
 Acq On : 29 Oct 2015 10:02
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

Mmdadoda
 10/30/2015 12:06:31 PM

Quant Time: Oct 29 11:53:15 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 29 11:53:15 2015
 QLast Update : Thu Oct 29 10:15:11 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.68	49	596220	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.37	114	1679949	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.79	117	2027249	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.33	95	1506792	9.63	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.67	85	257111	2.10	ppbv	100
3) Chlorodifluoromethane	3.59	51	158290	2.11	ppbv	99
4) Chloromethane	3.78	50	87985	2.14	ppbv	95
5) Vinyl Chloride	3.91	62	88663	2.06	ppbv	97
6) Bromomethane	4.17	94	63465	2.06	ppbv	97
7) Chloroethane	4.26	64	37827	2.09	ppbv	95
8) Dichlorotetrafluoroethane	3.83	85	226203	2.14	ppbv	100
9) Propene	3.62	41	75476	2.12	ppbv	98
10) Heptane	9.39	43	258374	2.17	ppbv	98
11) Trichlorofluoromethane	4.72	101	247509	2.07	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	5.34	101	165356	2.03	ppbv	99
13) Ethanol	4.37	45	13549	2.65	ppbv	94
14) Bromoethene	4.48	108	69873	2.01	ppbv	99
15) Acetone	4.64	43	166143	1.91	ppbv #	87
16) 1,3-Butadiene	4.00	39	81249	2.07	ppbv	98
17) tert-Butyl alcohol	5.16	59	117858	2.02	ppbv	100
18) 1,1-Dichloroethene	5.11	96	74513	2.01	ppbv	93
19) Isopropyl Alcohol	4.78	45	72777	2.17	ppbv #	67
20) Methylene Chloride	5.18	84	69568	2.01	ppbv	98
21) Allyl Chloride	5.26	41	110478	1.94	ppbv	99
22) trans-1,2-Dichloroethene	5.79	96	104377	2.17	ppbv	97
23) Vinyl Acetate	6.01	43	318667	1.98	ppbv	99
24) 1,1-Dichloroethane	5.94	63	219102	2.15	ppbv	99
25) Ethyl Acetate	6.70	43	347218	2.12	ppbv	100
26) Hexane	6.69	57	171450	2.09	ppbv	99
27) Carbon Disulfide	5.42	76	196877	1.90	ppbv	99
28) Methyl tert-Butyl Ether	5.99	73	299181	2.02	ppbv	100
29) Chloroform	6.78	83	247443	2.09	ppbv	98
30) Cyclohexane	8.32	84	168406	2.06	ppbv	92
31) cis-1,2-Dichloroethene	6.55	61	155405	2.09	ppbv	98
32) 1,1,1-Trichloroethane	7.63	97	245512	1.88	ppbv	99
34) 2-Butanone	6.23	43	217482	2.26	ppbv	99
35) Carbon Tetrachloride	8.20	117	250319	1.97	ppbv	99
36) Benzene	8.06	78	381817	2.22	ppbv	99
37) 1,2-Dichloroethane	7.41	62	192661	2.19	ppbv	99
38) Trichloroethene	9.10	130	157785	1.91	ppbv	97
39) 1,2-Dichloropropane	8.87	63	139047	2.29	ppbv	97
40) 1,4-Dioxane	9.18	88	23974	2.17	ppbv #	1
41) Tetrahydrofuran	7.17	42	127672	2.28	ppbv	99
42) Bromodichloromethane	9.06	83	269679	2.14	ppbv	100
43) Methyl Methacrylate	9.31	69	137293	2.20	ppbv	98

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 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

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 10/30/2015 12:06:31 PM

Quant Time: Oct 29 11:53:15 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 29 11:53:15 2015
 QLast Update : Thu Oct 29 10:15:11 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.12	57	652557	2.34	ppbv	98
45) t-1,3-Dichloropropene	10.69	75	194225	2.01	ppbv	97
46) cis-1,3-Dichloropropene	10.06	75	237594	2.09	ppbv	96
47) 1,1,2-Trichloroethane	10.92	97	167491	2.22	ppbv	98
48) Dibromochloromethane	11.84	129	246099	2.03	ppbv	100
49) Bromoform	14.86	173	197298	1.94	ppbv	99
50) 4-Methyl-2-Pentanone	10.13	43	297721	2.30	ppbv	99
51) 2-Hexanone	11.66	43	269837	2.23	ppbv #	98
52) Tetrachloroethene	12.83	164	166961	1.71	ppbv	98
53) Toluene	11.28	91	506633	2.18	ppbv	99
54) 1,2-Dibromoethane	12.18	107	257159	2.21	ppbv	97
56) 1,1,1,2-Tetrachloroethane	13.83	131	193074	1.99	ppbv #	1
57) Chlorobenzene	13.86	112	433167	2.22	ppbv	98
58) Ethyl Benzene	14.46	91	728946	2.20	ppbv	100
59) m/p-Xylene	14.74	91	1158960m	4.48	ppbv	
60) o-Xylene	15.54	91	602679	2.23	ppbv	100
61) Styrene	15.35	104	260529	2.14	ppbv	100
62) Isopropylbenzene	16.59	105	821158	2.19	ppbv	99
63) 1,1,2,2-Tetrachloroethane	15.53	83	415885	2.32	ppbv	100
64) n-propylbenzene	17.57	120	223570	2.17	ppbv	88
65) tert-Butylbenzene	18.86	119	761421	2.23	ppbv	100
66) Benzyl Chloride	19.15	91	244034	1.77	ppbv	98
67) sec-Butylbenzene	19.46	105	1074464	2.25	ppbv	99
69) p-Isopropyltoluene	19.84	119	887666	2.23	ppbv	99
70) n-Butylbenzene	20.80	91	851616	2.33	ppbv	98
71) 2-Chlorotoluene	17.47	91	614875	2.22	ppbv	100
72) 4-Ethyltoluene	17.86	105	690736	2.20	ppbv	100
73) 1,3,5-Trimethylbenzene	18.04	105	652339	2.23	ppbv	98
74) 1,2,4-Trimethylbenzene	18.88	105	694680	2.29	ppbv	99
75) 1,3-Dichlorobenzene	19.17	146	438428	2.22	ppbv	99
76) 1,4-Dichlorobenzene	19.32	146	443640	2.16	ppbv	99
77) 1,2-Dichlorobenzene	20.07	146	441241	2.22	ppbv	99
78) Hexachloro-1,3-Butadiene	24.71	225	183980	1.85	ppbv	99
79) Naphthalene	23.97	128	506193	1.95	ppbv	100
80) Naphthalene, 2-methyl-	26.09	142	87804	2.22	ppbv	99
81) 1,2,4-Trichlorobenzene	23.77	180	254516	2.02	ppbv	99

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

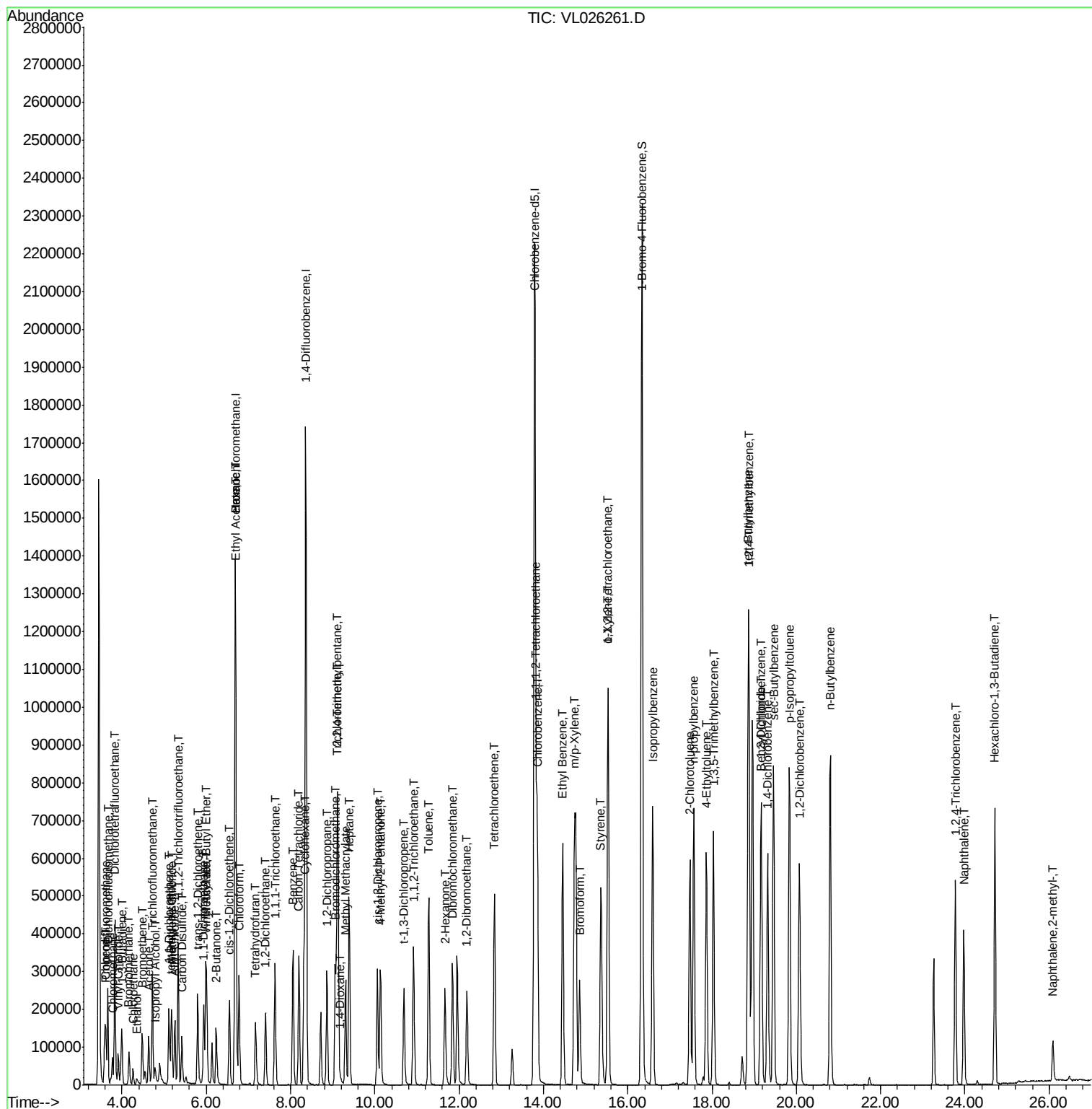
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Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102915\  
Data File : VL026261.D  
Acq On    : 29 Oct 2015  10:02  
Operator  : SY/AP  
Sample    : VSTDICC002  
Misc      : 400mL/MSVOA L  
ALS Vial  : 1      Sample Multiplier: 1
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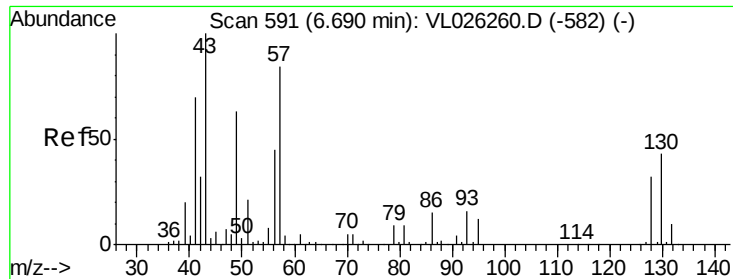
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

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Quant Time: Oct 29 11:53:15 2015
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102915AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Oct
QLast Update : Thu Oct 29 10:15:11 2015
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.68 min Scan# 590

Delta R.T. -0.01 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 596220

Ion Ratio Lower Upper

49 100

128 53.7 26.7 80.1

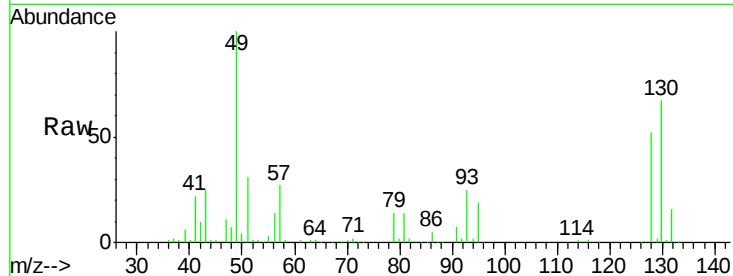
130 69.4 34.4 103.2

Manual Integrations

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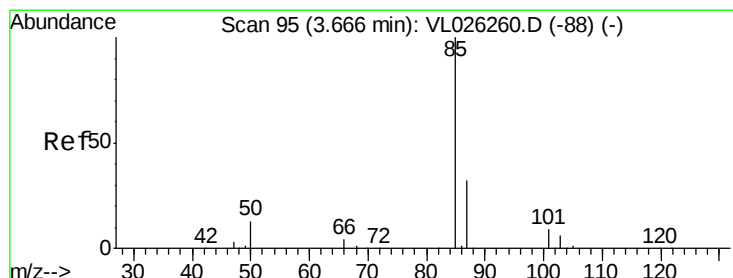
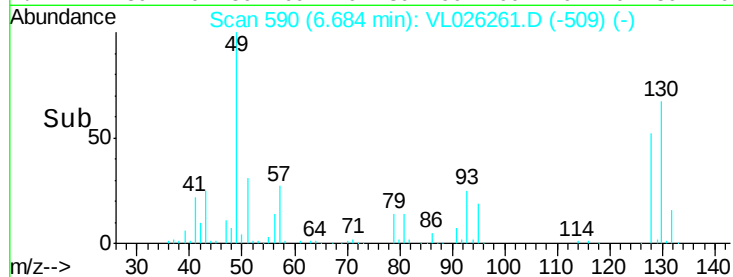
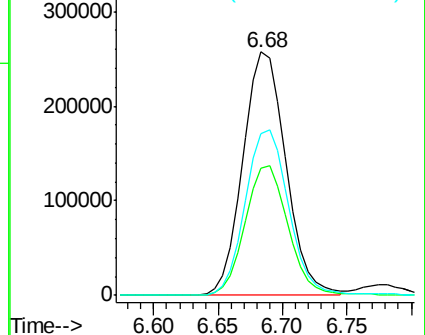
10/30/2015 12:06:31 PM



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: 2.10 ppbv

RT: 3.67 min Scan# 95

Delta R.T. 0.00 min

Lab File: VL026261.D

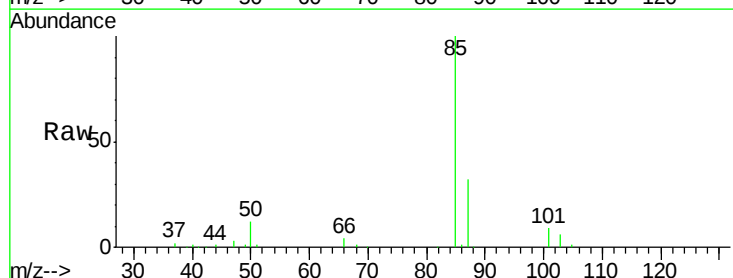
Acq: 29 Oct 2015 10:02

Tgt Ion: 85 Resp: 257111

Ion Ratio Lower Upper

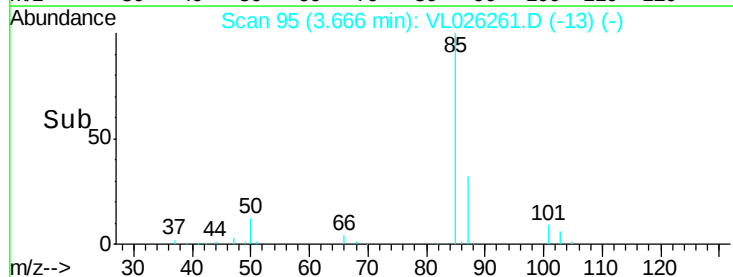
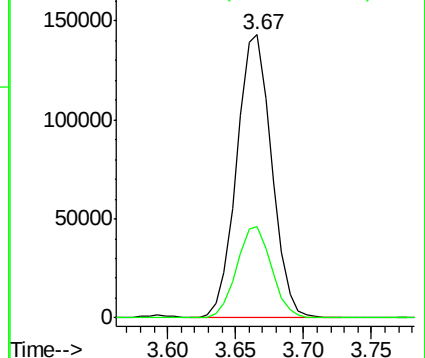
85 100

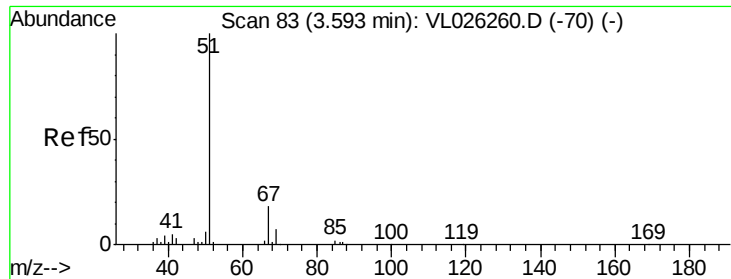
87 32.4 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





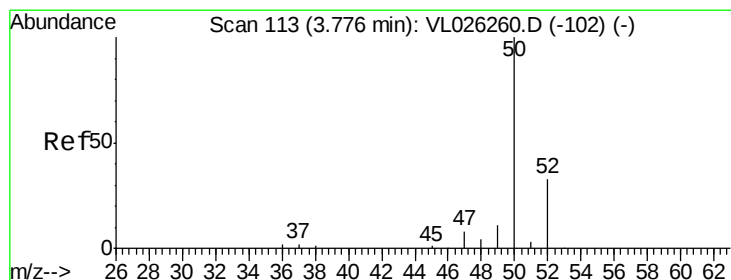
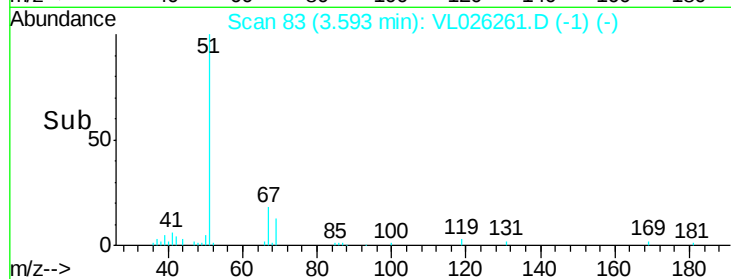
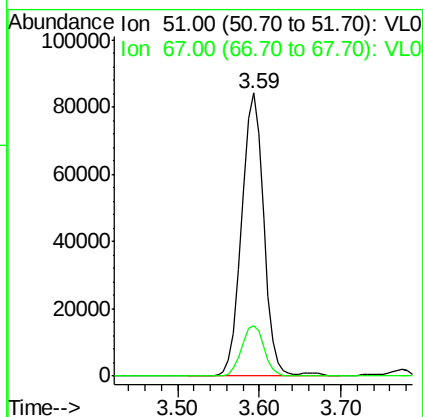
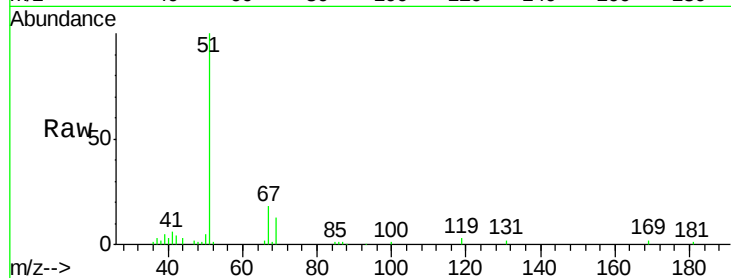
#3
Chlorodifluoromethane
Concen: 2.11 ppbv
RT: 3.59 min Scan# 83
Delta R.T. 0.00 min
Lab File: VL026261.D
Acq: 29 Oct 2015 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
51	100		
67	17.8	14.5	21.7

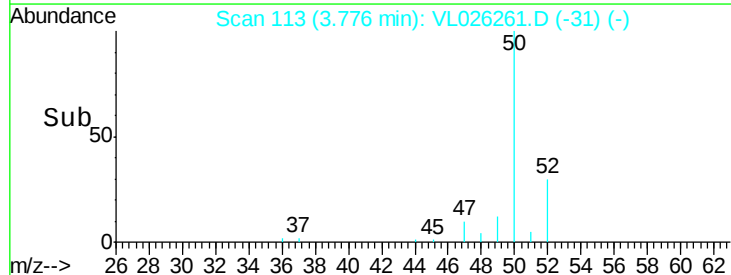
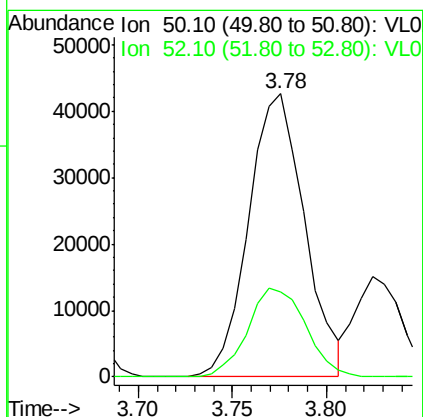
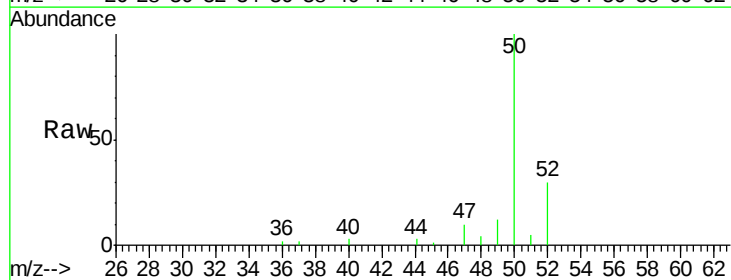
Manual Integrations
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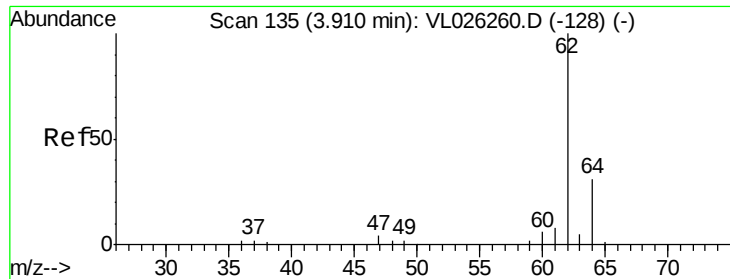
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#4
Chloromethane
Concen: 2.14 ppbv
RT: 3.78 min Scan# 113
Delta R.T. 0.00 min
Lab File: VL026261.D
Acq: 29 Oct 2015 10:02

Tgt Ion	Ratio	Lower	Upper
50	100		
52	30.0	26.1	39.1





#5

Vinyl Chloride

Concen: 2.06 ppbv

RT: 3.91 min Scan# 135

Delta R.T. 0.00 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 88663

Ion Ratio Lower Upper

62 100

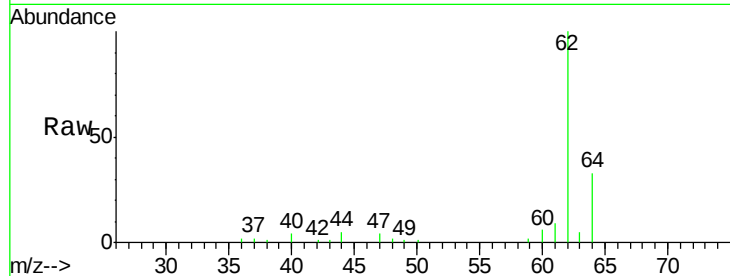
64 33.0 24.9 37.3

Manual Integrations

APPROVED

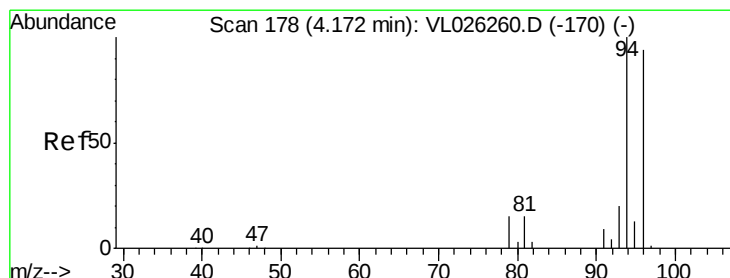
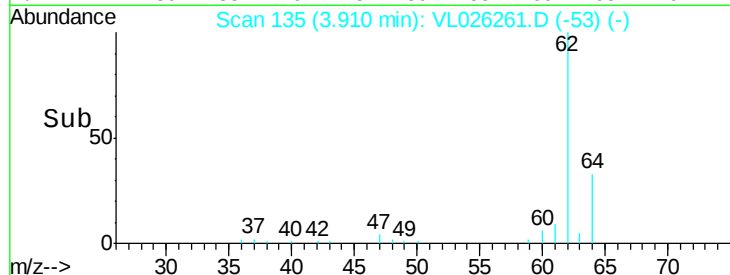
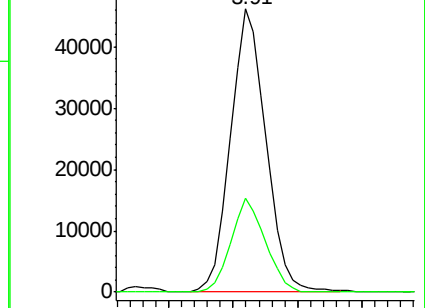
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 2.06 ppbv

RT: 4.17 min Scan# 177

Delta R.T. -0.01 min

Lab File: VL026261.D

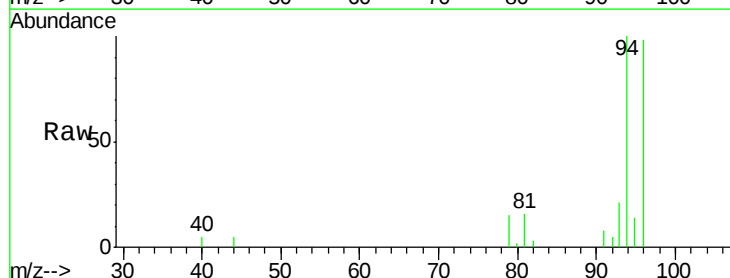
Acq: 29 Oct 2015 10:02

Tgt Ion: 94 Resp: 63465

Ion Ratio Lower Upper

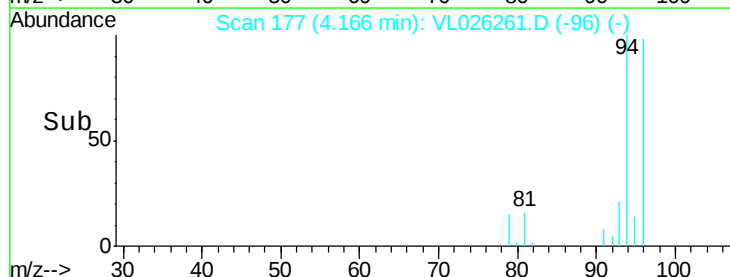
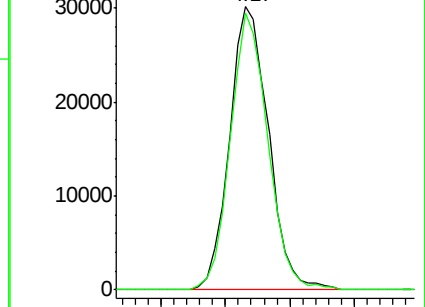
94 100

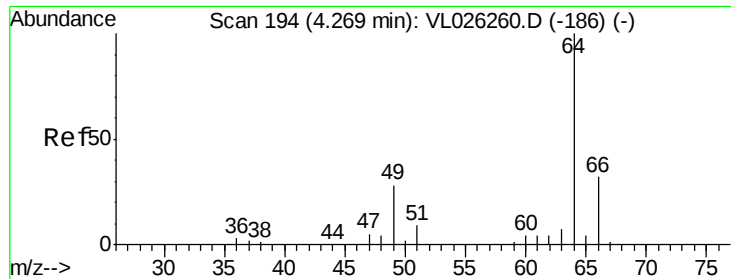
96 97.7 75.5 113.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 2.09 ppbv

RT: 4.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Tot Ion: 64 Resp: 37827

Ion Ratio Lower Upper

64 100

66 34.3 25.2 37.8

Instrument :

MSVOA_L

ClientSampleId :

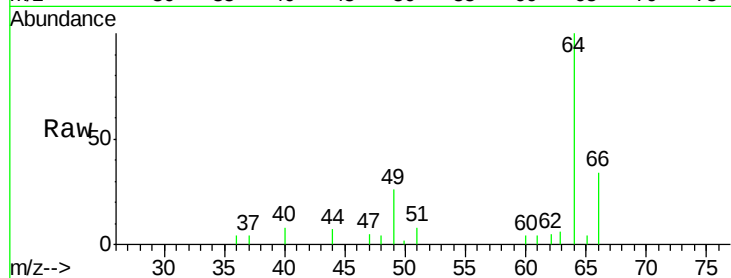
VSTDIC002

Manual Integrations

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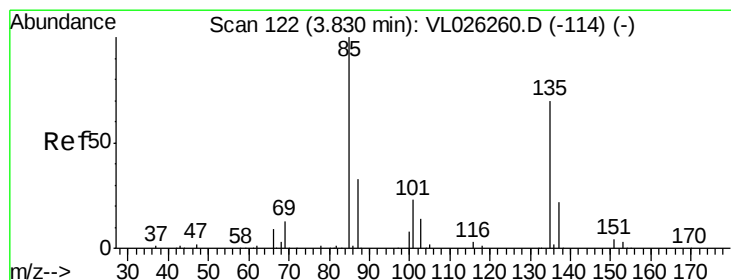
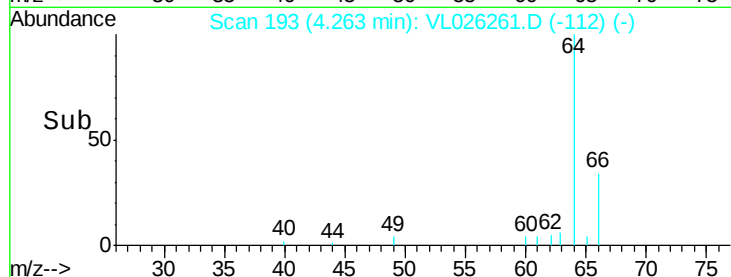
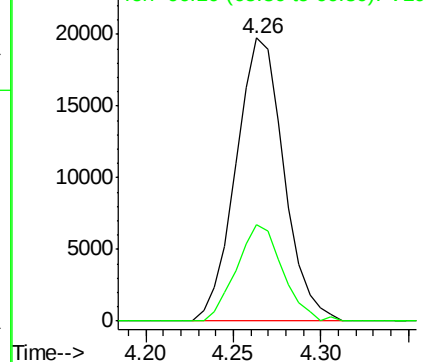
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 2.14 ppbv

RT: 3.83 min Scan# 122

Delta R.T. 0.00 min

Lab File: VL026261.D

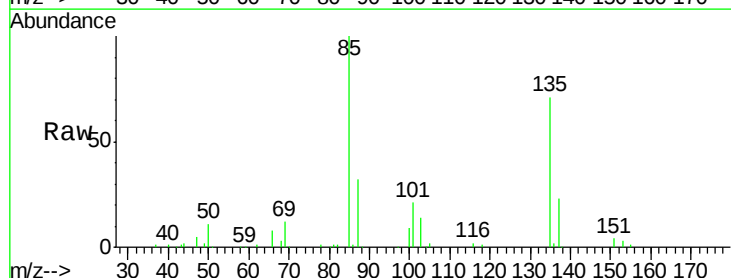
Acq: 29 Oct 2015 10:02

Tgt Ion: 85 Resp: 226203

Ion Ratio Lower Upper

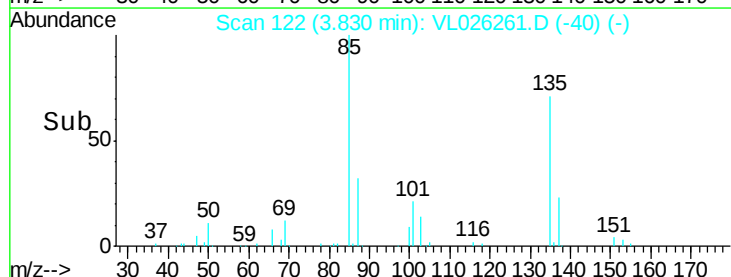
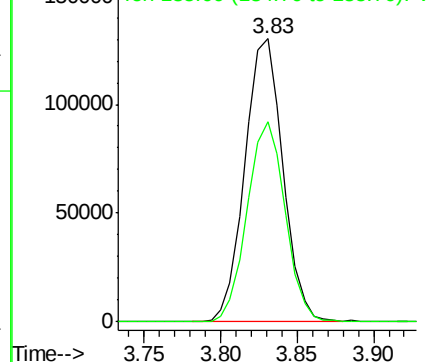
85 100

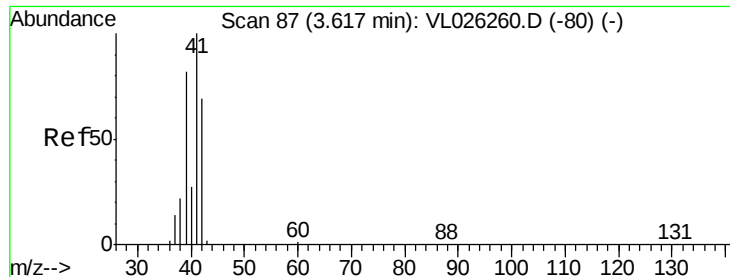
135 70.4 56.6 84.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 2.12 ppbv

RT: 3.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 41 Resp: 75476

Ion Ratio Lower Upper

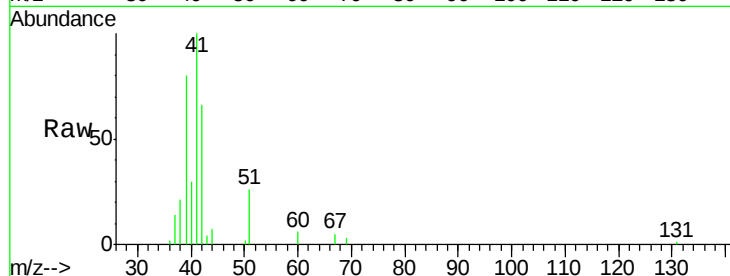
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42 66.2 54.5 81.7

Manual Integrations
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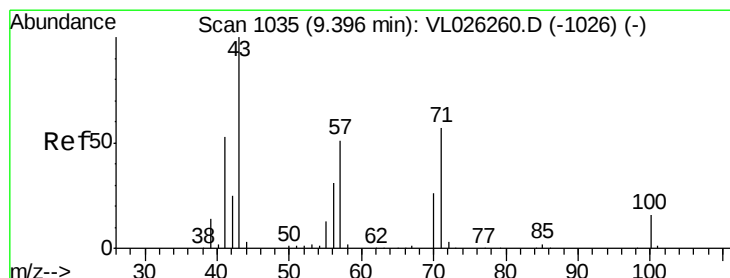
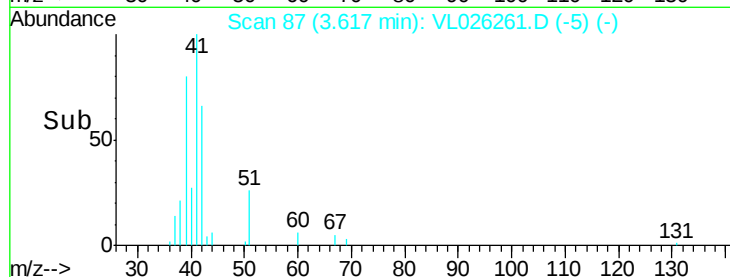
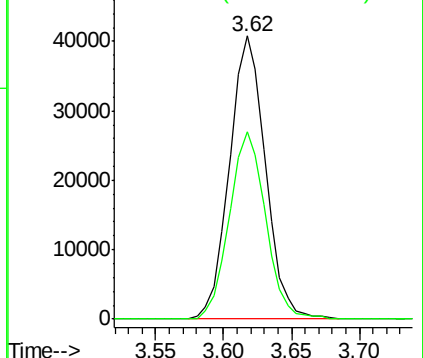
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 2.17 ppbv

RT: 9.39 min Scan# 1034

Delta R.T. -0.01 min

Lab File: VL026261.D

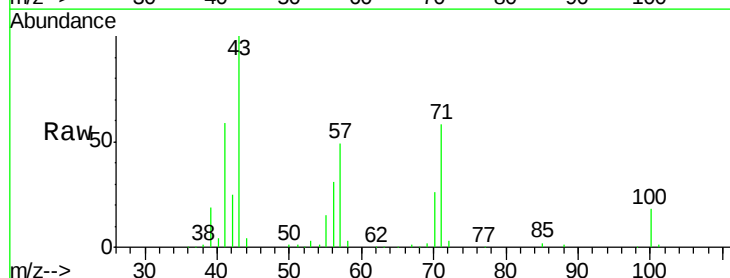
Acq: 29 Oct 2015 10:02

Tgt Ion: 43 Resp: 258374

Ion Ratio Lower Upper

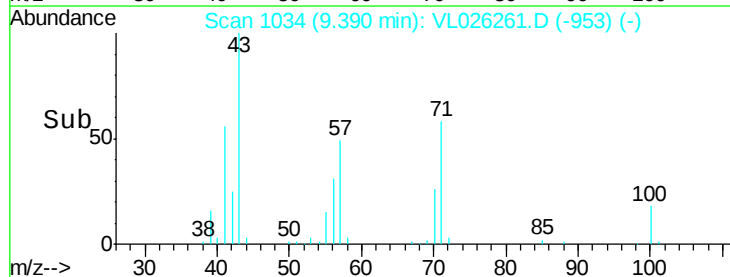
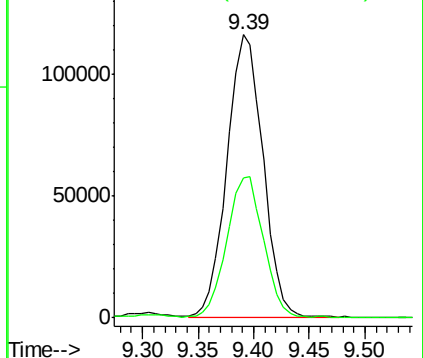
43 100

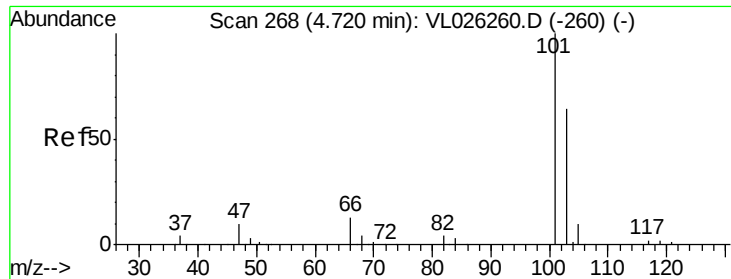
57 53.1 41.1 61.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 2.07 ppbv

RT: 4.72 min Scan# 268

Delta R.T. 0.00 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:101 Resp: 247509

Ion Ratio Lower Upper

101 100

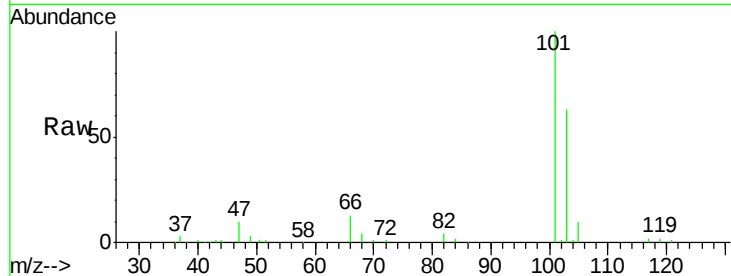
103 62.7 51.4 77.0

Manual Integrations

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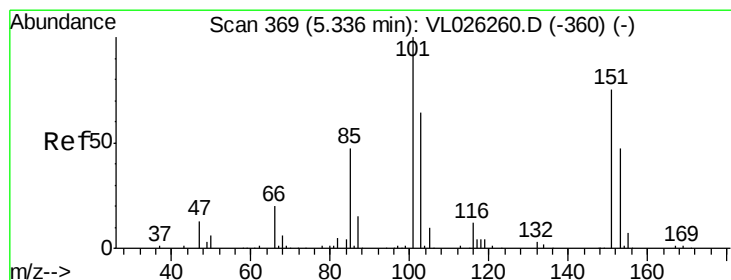
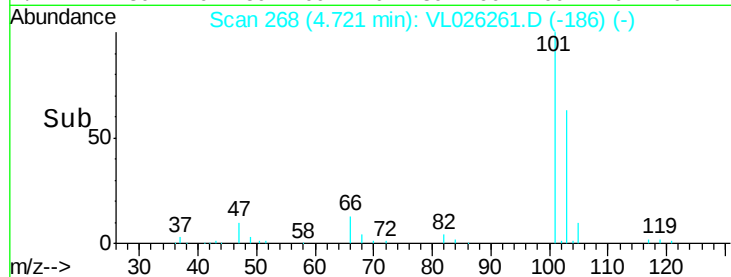
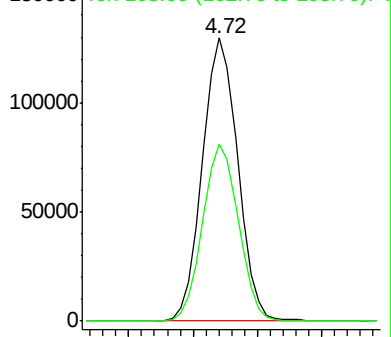
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 2.03 ppbv

RT: 5.34 min Scan# 369

Delta R.T. 0.00 min

Lab File: VL026261.D

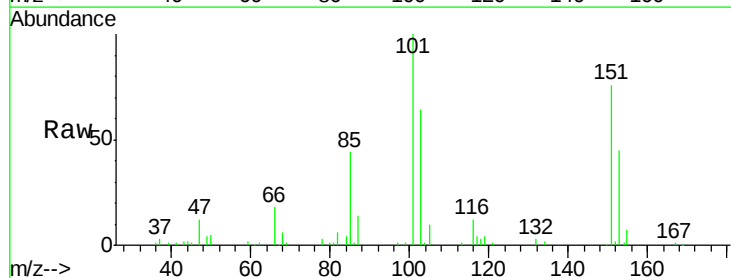
Acq: 29 Oct 2015 10:02

Tgt Ion:101 Resp: 165356

Ion Ratio Lower Upper

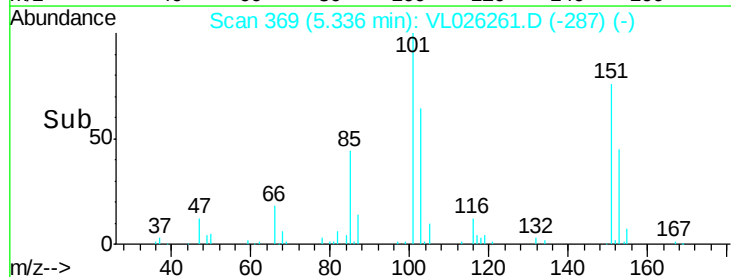
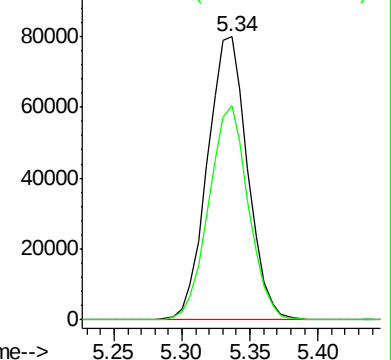
101 100

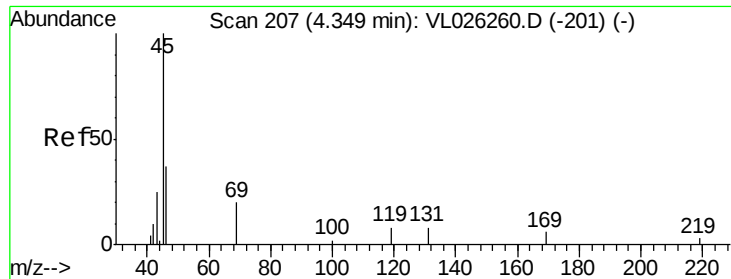
151 74.4 60.3 90.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





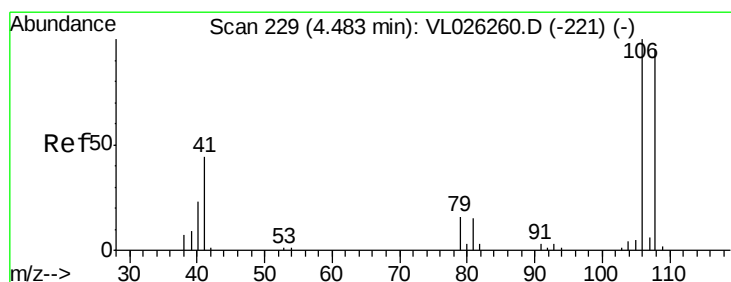
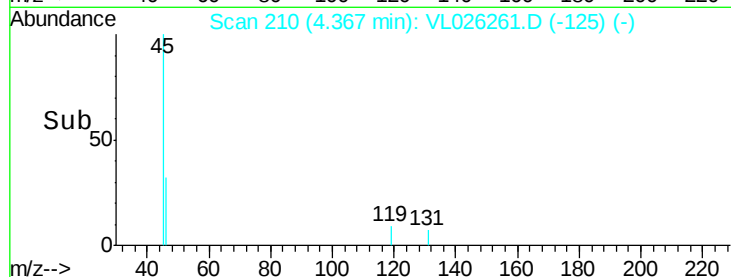
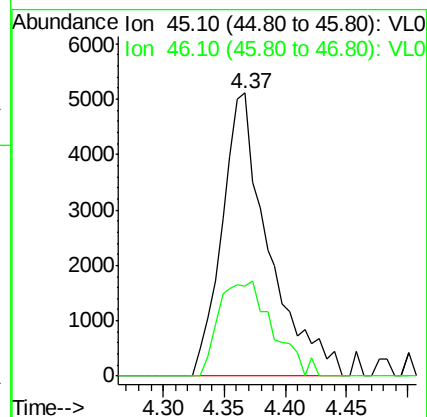
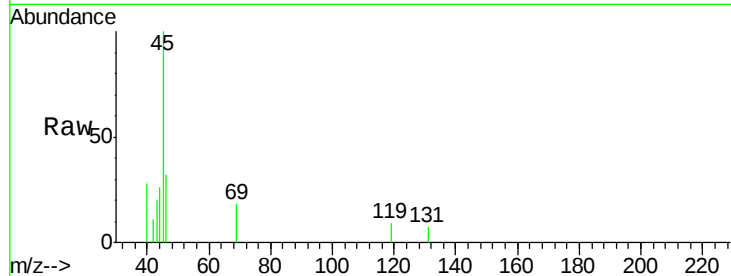
#13
Ethanol
Concen: 2.65 ppbv
RT: 4.37 min Scan# 210
Delta R.T. 0.02 min
Lab File: VL026261.D
Acq: 29 Oct 2015 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 45 Resp: 13549
Ion Ratio Lower Upper
45 100
46 38.7 17.0 68.0

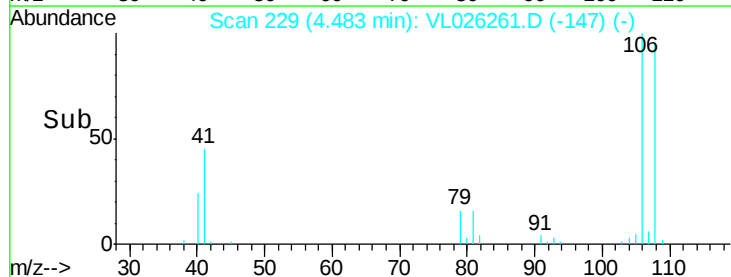
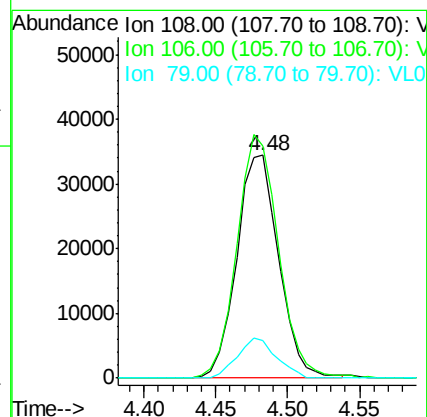
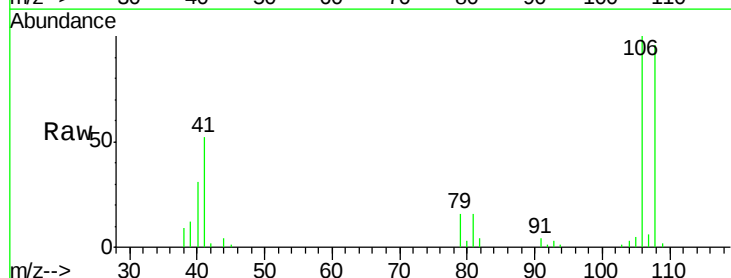
Manual Integrations
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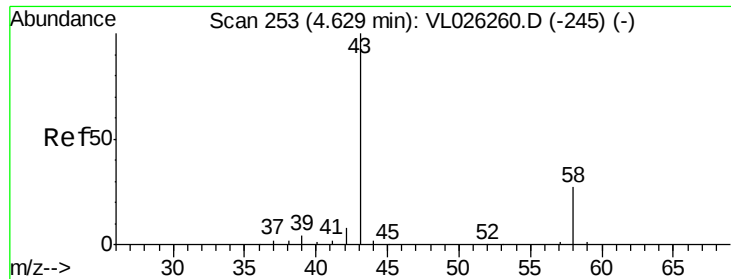
Mmdadoda
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#14
Bromoethene
Concen: 2.01 ppbv
RT: 4.48 min Scan# 229
Delta R.T. 0.00 min
Lab File: VL026261.D
Acq: 29 Oct 2015 10:02

Tgt Ion: 108 Resp: 69873
Ion Ratio Lower Upper
108 100
106 108.2 85.4 128.0
79 16.5 13.5 20.3





#15

Acetone

Concen: 1.91 ppbv

RT: 4.64 min Scan# 254

Delta R.T. 0.01 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 166143

Ion Ratio Lower Upper

43 100

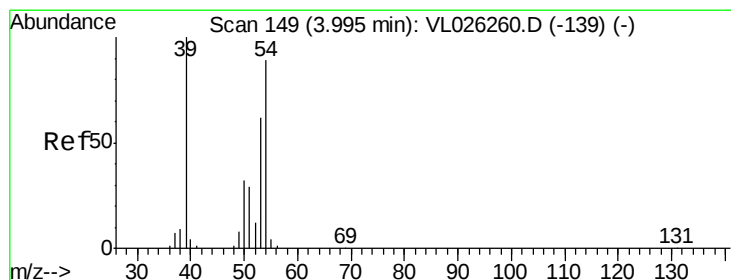
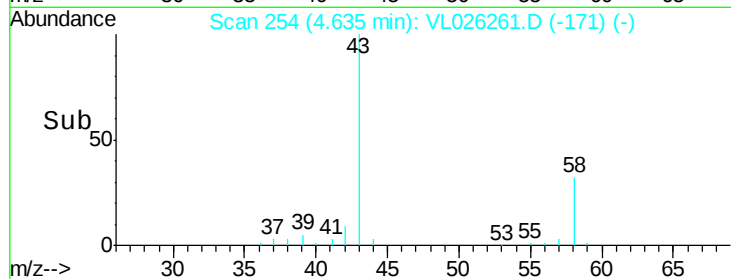
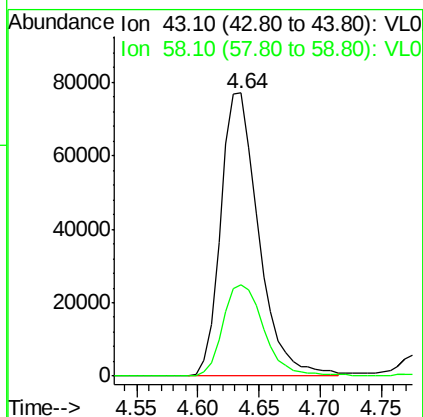
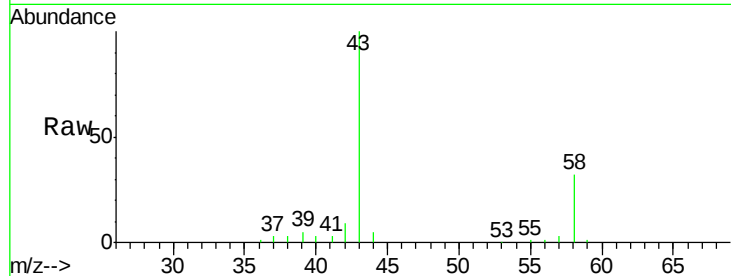
58 34.6 22.3 33.5#

Manual Integrations

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#16

1,3-Butadiene

Concen: 2.07 ppbv

RT: 4.00 min Scan# 149

Delta R.T. 0.00 min

Lab File: VL026261.D

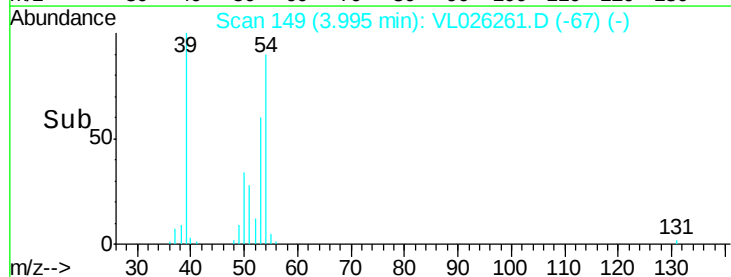
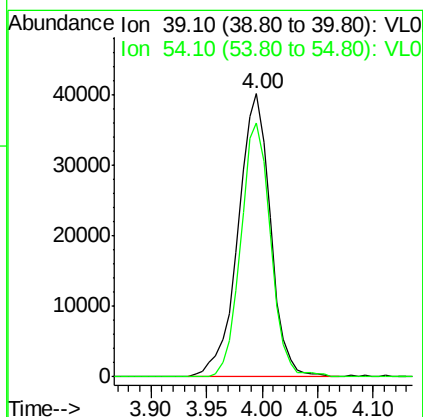
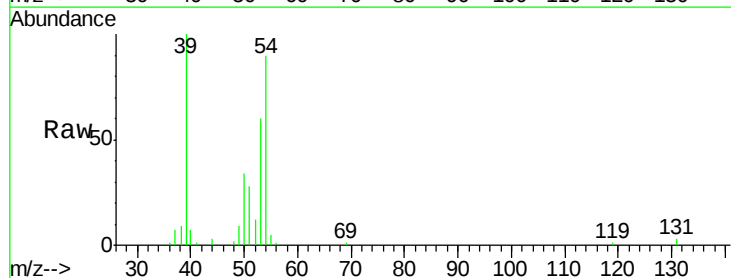
Acq: 29 Oct 2015 10:02

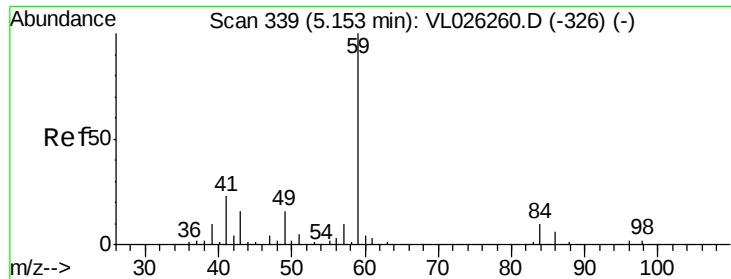
Tgt Ion: 39 Resp: 81249

Ion Ratio Lower Upper

39 100

54 82.6 67.3 100.9





#17

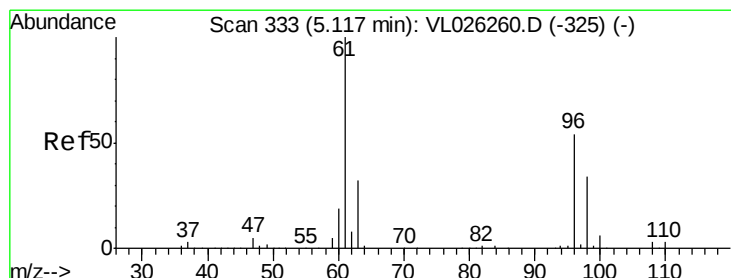
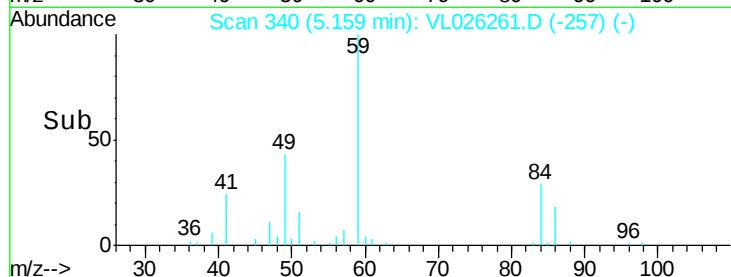
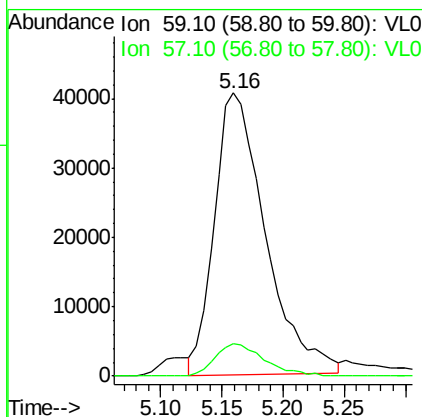
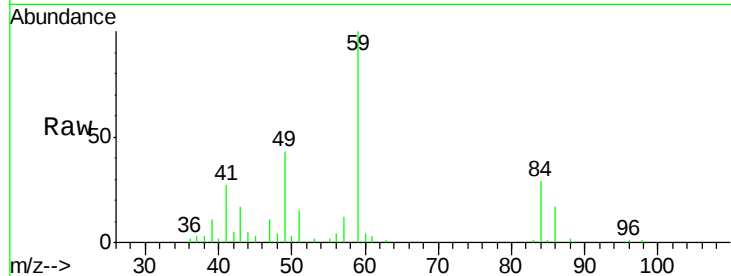
tert-Butyl alcohol
Concen: 2.02 ppbv
RT: 5.16 min Scan# 340
Delta R.T. 0.01 min
Lab File: VL026261.D
Acq: 29 Oct 2015 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.7	13.1

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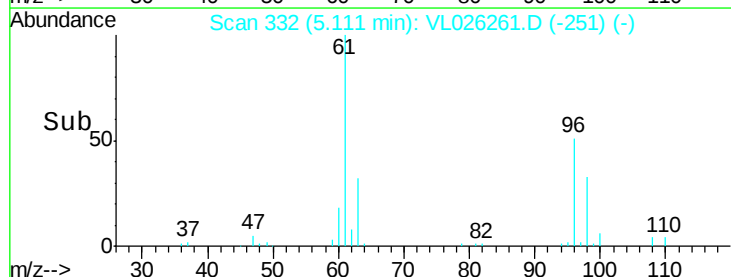
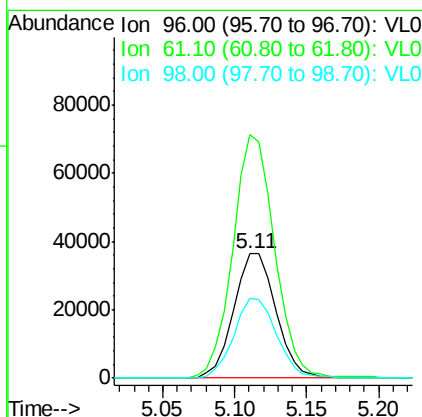
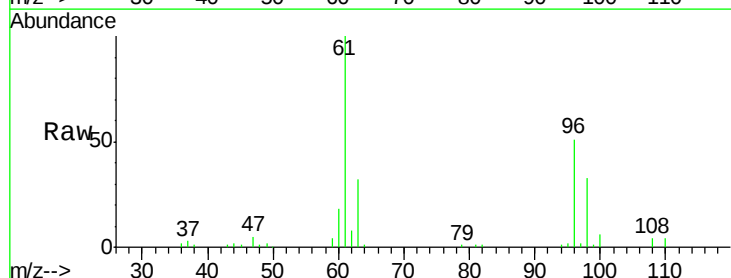
Mmdadoda
10/30/2015 12:06:31 PM

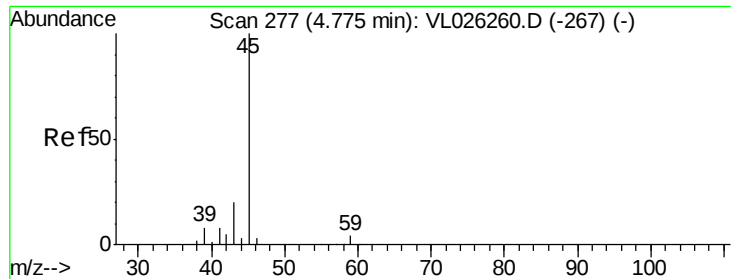


#18

1,1-Dichloroethene
Concen: 2.01 ppbv
RT: 5.11 min Scan# 332
Delta R.T. -0.01 min
Lab File: VL026261.D
Acq: 29 Oct 2015 10:02

Tgt Ion	Ratio	Lower	Upper
96	100		
61	195.5	147.0	220.4
98	64.1	50.1	75.1





#19

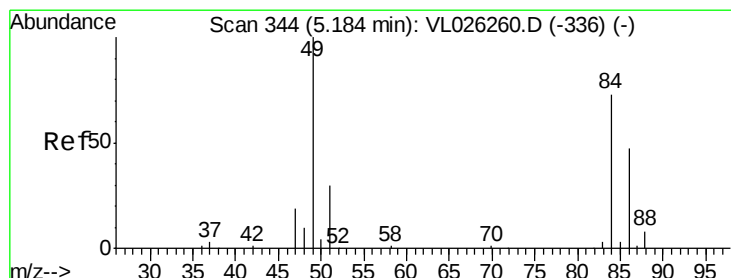
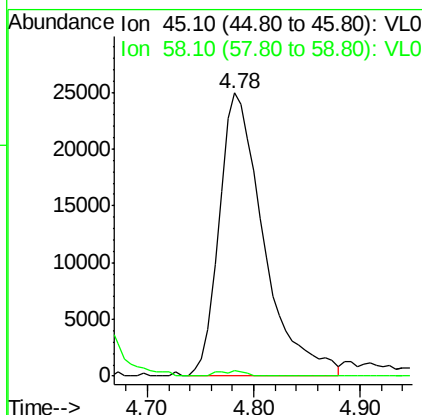
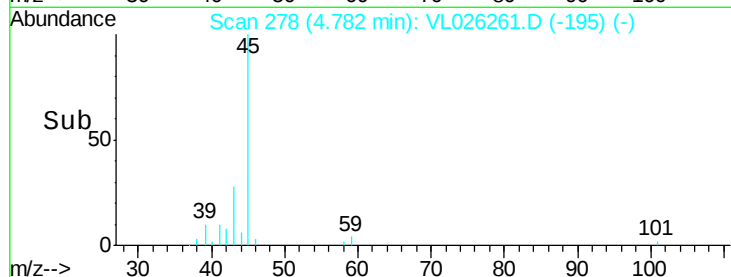
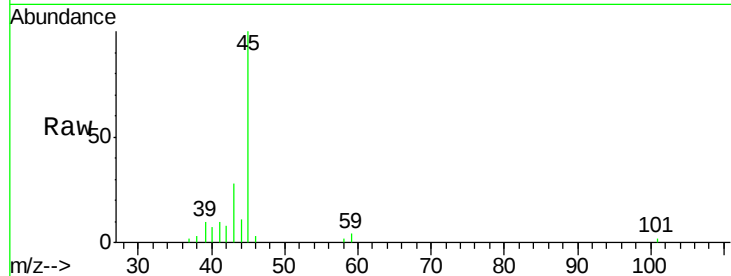
Isopropyl Alcohol
 Concen: 2.17 ppbv
 RT: 4.78 min Scan# 278
 Delta R.T. 0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	45	Resp	72777
Ion Ratio	100	Lower	Upper
45	100		
58	79.0	43.8	65.8#

Manual Integrations
 APPROVED

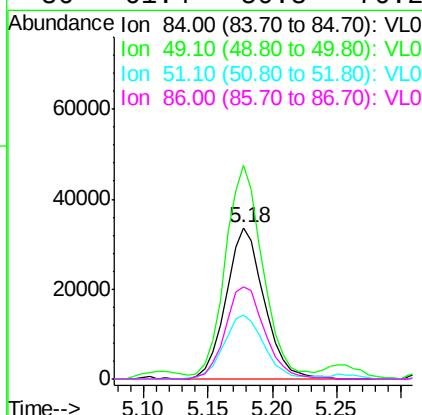
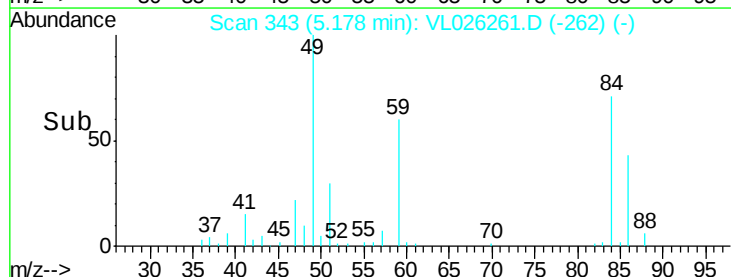
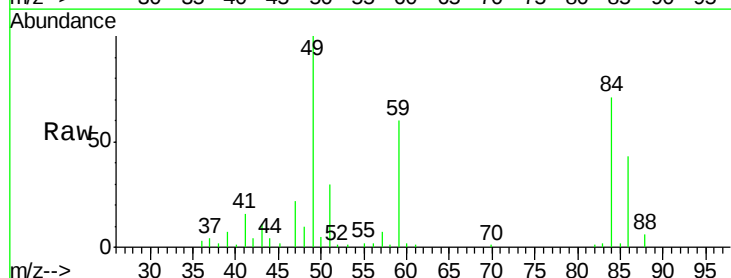
Mmdadoda
 10/30/2015 12:06:31 PM

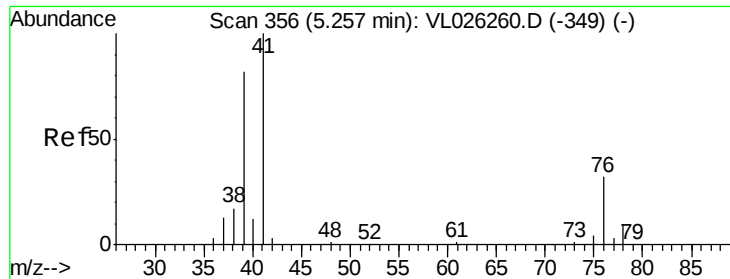


#20

Methylene Chloride
 Concen: 2.01 ppbv
 RT: 5.18 min Scan# 343
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Tgt Ion	84	Resp	69568
Ion Ratio	100	Lower	Upper
84	100		
49	138.8	109.0	163.4
51	41.8	32.8	49.2
86	61.4	50.8	76.2





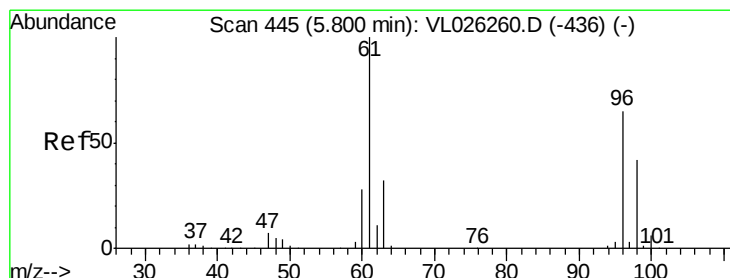
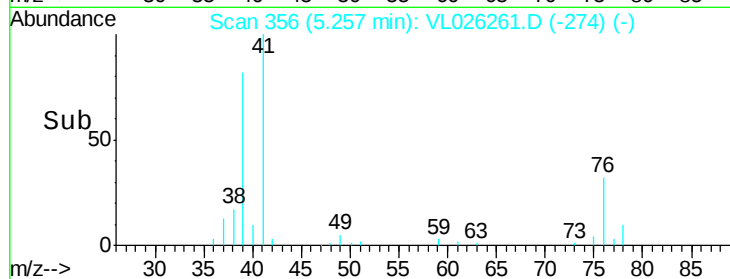
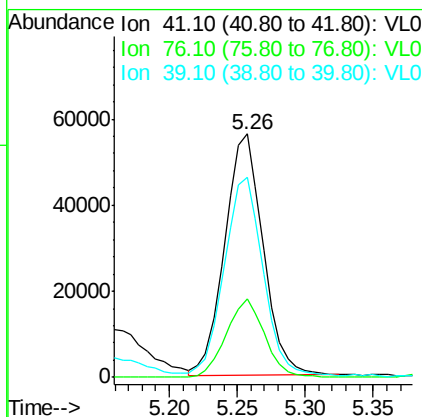
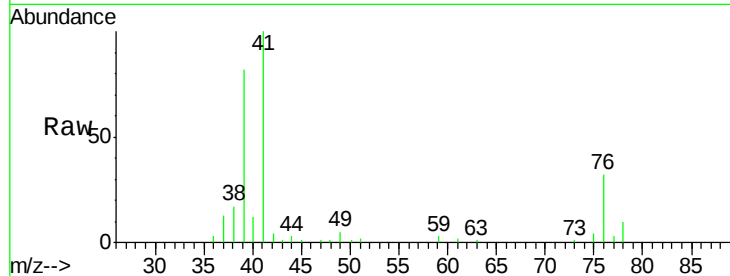
#21
Allvl Chloride
Concen: 1.94 ppbv
RT: 5.26 min Scan# 356
Delta R.T. 0.00 min
Lab File: VL026261.D
Acq: 29 Oct 2015 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
41	100		
76	32.2	25.9	38.9
39	83.6	65.8	98.6

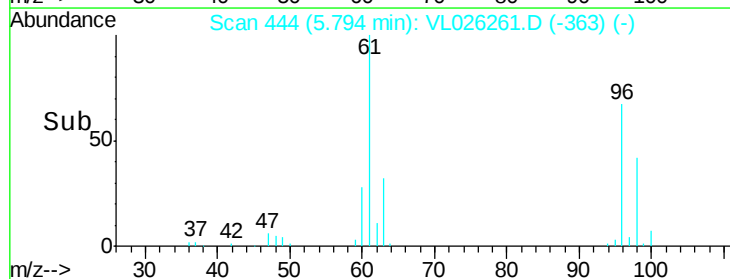
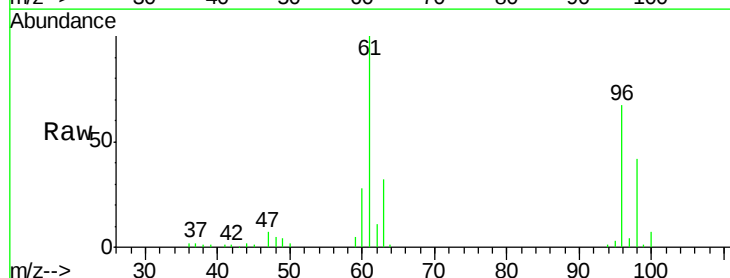
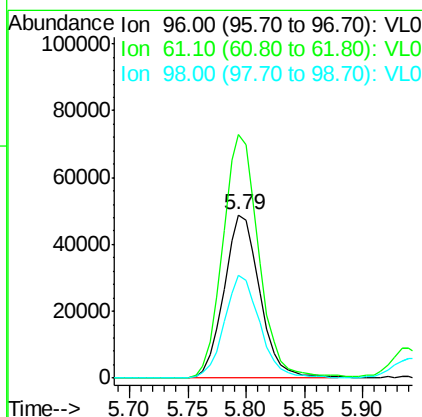
Manual Integrations
APPROVED

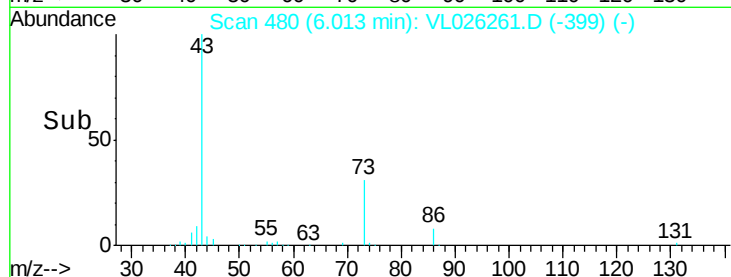
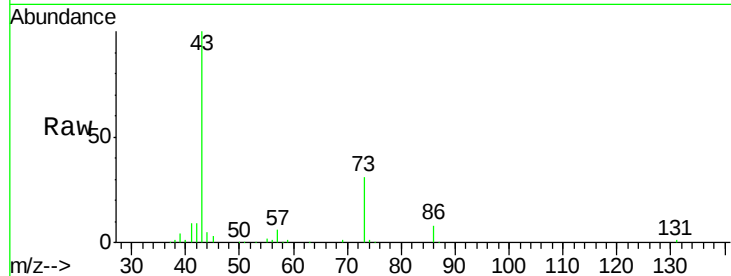
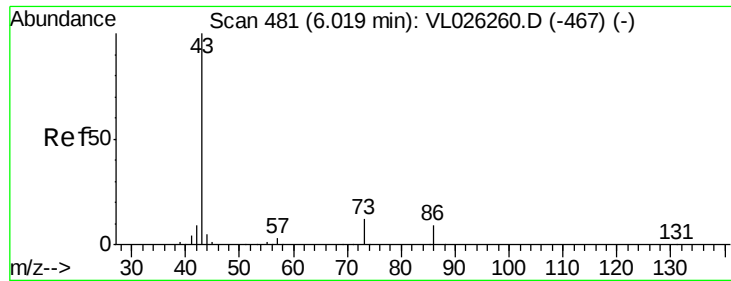
Mmdadoda
10/30/2015 12:06:31 PM



#22
trans-1,2-Dichloroethene
Concen: 2.17 ppbv
RT: 5.79 min Scan# 444
Delta R.T. -0.01 min
Lab File: VL026261.D
Acq: 29 Oct 2015 10:02

Tgt Ion	Ratio	Lower	Upper
96	100		
61	148.9	123.2	184.8
98	63.1	51.4	77.0





#23

Vinyl Acetate

Concen: 1.98 ppbv

RT: 6.01 min Scan# 480

Delta R.T. -0.01 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Tot Ion:	43	Resp:	318667
Ion Ratio	Lower	Upper	
43	100		
86	8.4	7.3	10.9
42	9.4	7.2	10.8
44	4.7	3.8	5.8

Instrument :

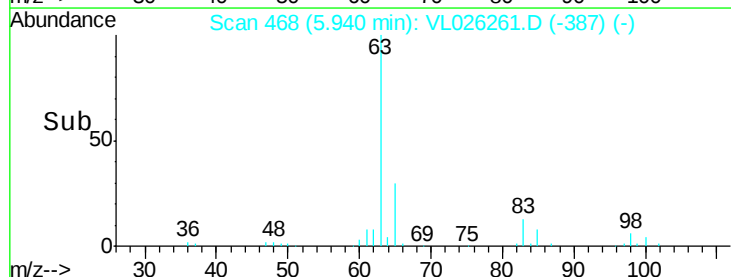
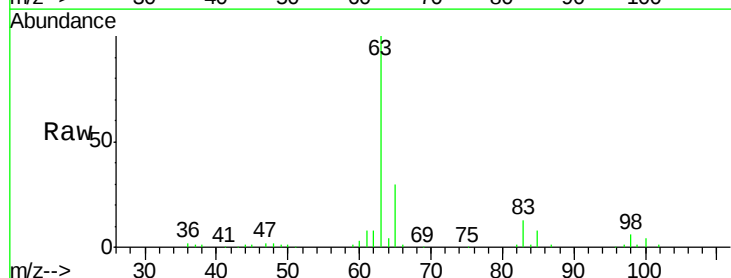
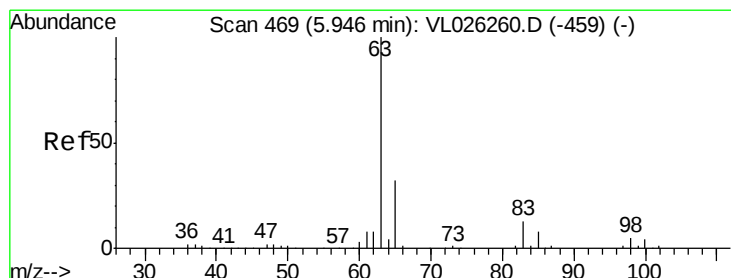
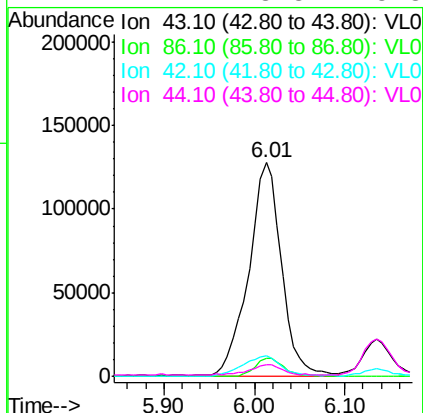
MSVOA_L

ClientSampleId :

VSTDIC002

Manual Integrations
APPROVED

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10/30/2015 12:06:31 PM



#24

1,1-Dichloroethane

Concen: 2.15 ppbv

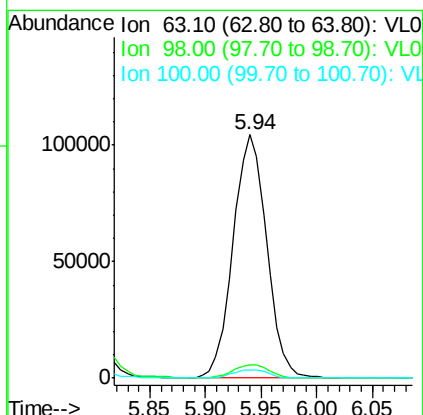
RT: 5.94 min Scan# 468

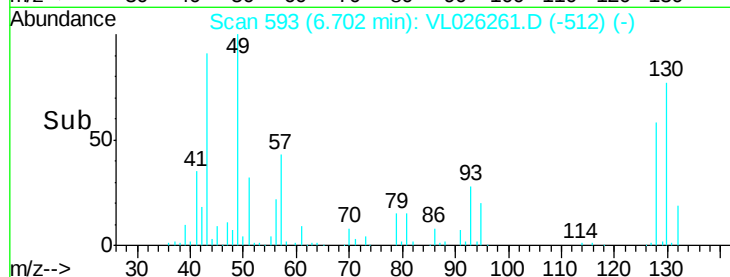
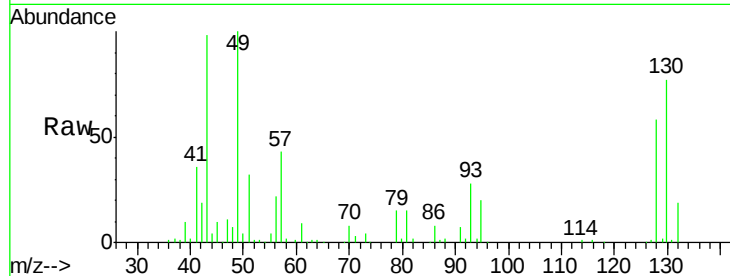
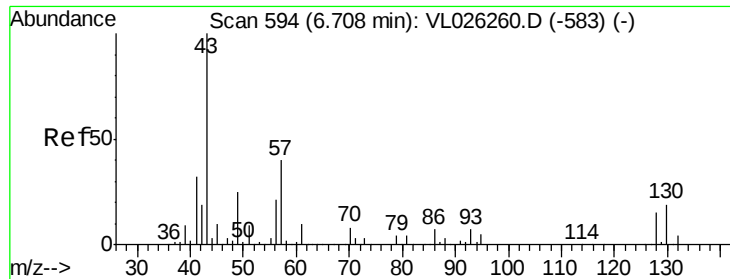
Delta R.T. -0.01 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Tgt Ion:	63	Resp:	219102
Ion Ratio	Lower	Upper	
63	100		
98	5.7	2.7	8.1
100	3.6	1.9	5.7





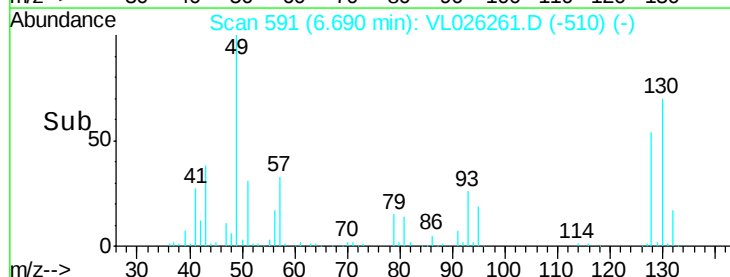
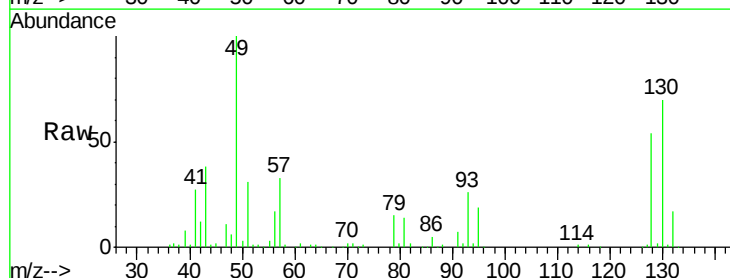
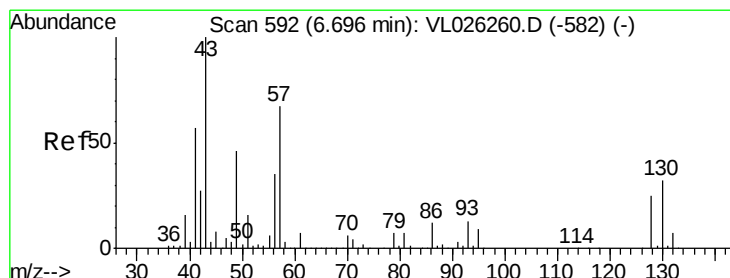
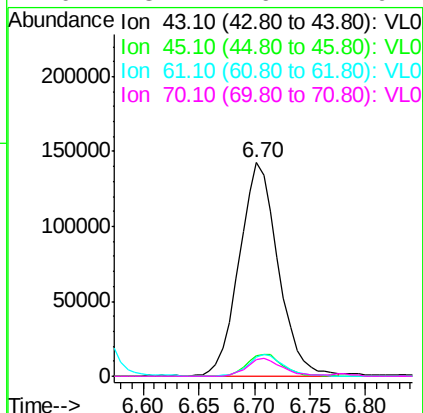
#25
Ethyl Acetate
Concen: 2.12 ppbv
RT: 6.70 min Scan# 593
Delta R.T. -0.01 min
Lab File: VL026261.D
Acq: 29 Oct 2015 10:02

Tot Ion	43	Resp	347218
Ion Ratio	Lower	Upper	
43	100		
45	9.5	7.6	11.4
61	9.5	7.4	11.2
70	8.4	6.7	10.1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

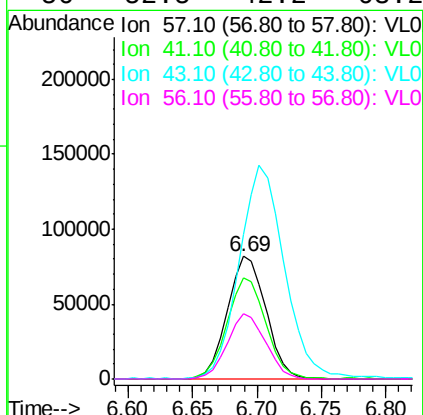
Manual Integrations
APPROVED

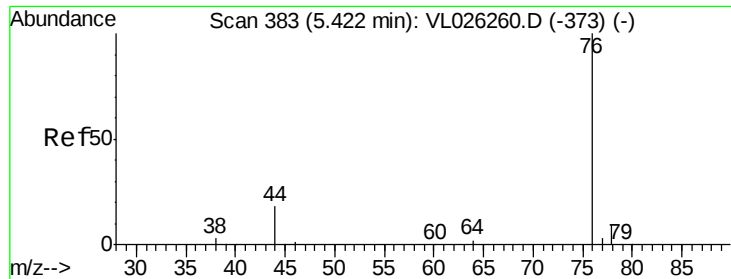
Mmdadoda
10/30/2015 12:06:31 PM



#26
Hexane
Concen: 2.09 ppbv
RT: 6.69 min Scan# 591
Delta R.T. -0.01 min
Lab File: VL026261.D
Acq: 29 Oct 2015 10:02

Tgt Ion	57	Resp	171450
Ion Ratio	Lower	Upper	
57	100		
41	83.9	67.4	101.2
43	207.9	163.9	245.9
56	52.5	42.2	63.2





#27

Carbon Disulfide

Concen: 1.90 ppbv

RT: 5.42 min Scan# 383

Delta R.T. 0.00 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Instrument :

MSVOA_L

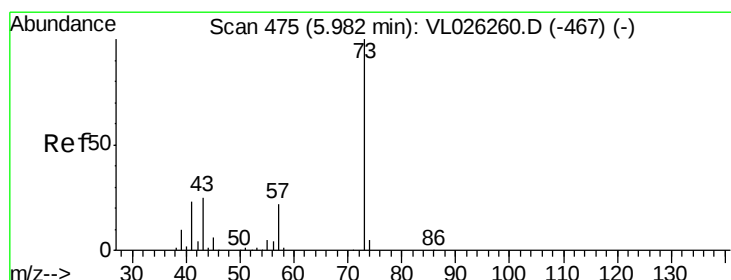
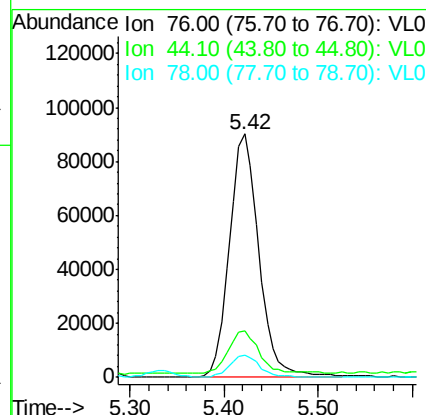
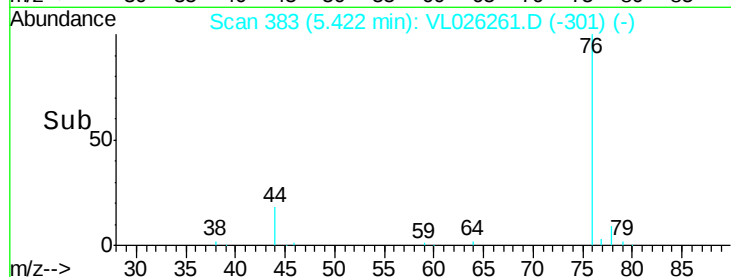
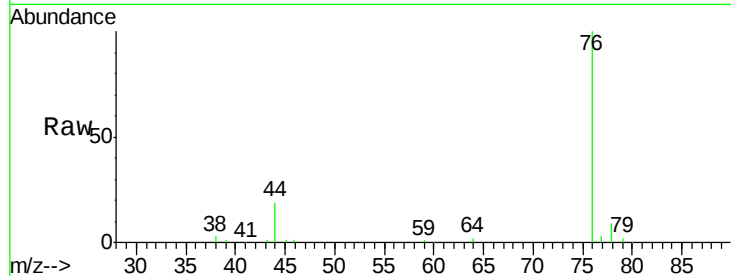
ClientSampleId :

VSTDIC002

Tot Ion:	76	Resp:	196877
Ion Ratio	Lower	Upper	
76	100		
44	18.1	14.1	21.1
78	9.2	7.4	11.0

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#28

Methyl tert-Butyl Ether

Concen: 2.02 ppbv

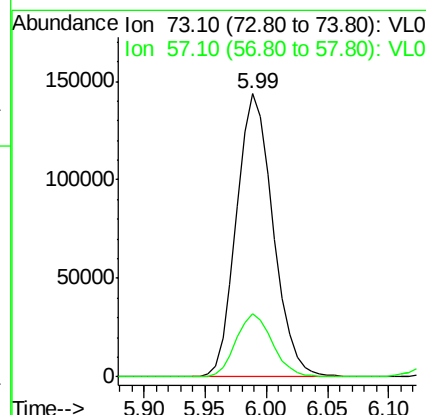
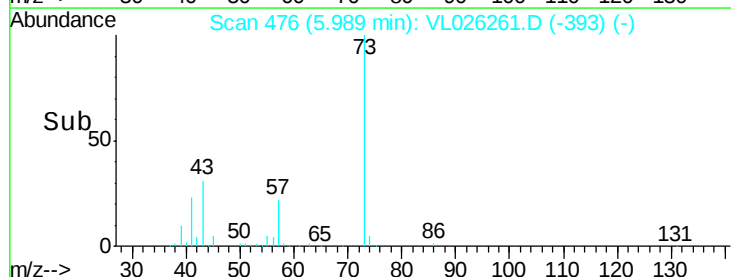
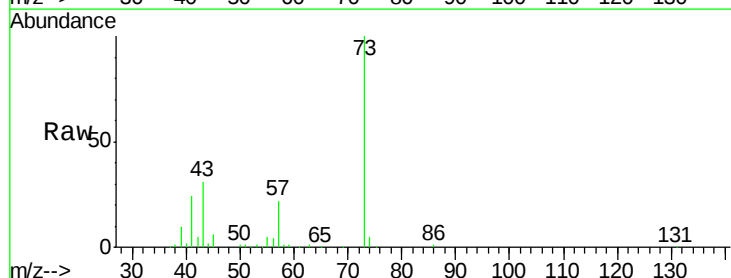
RT: 5.99 min Scan# 476

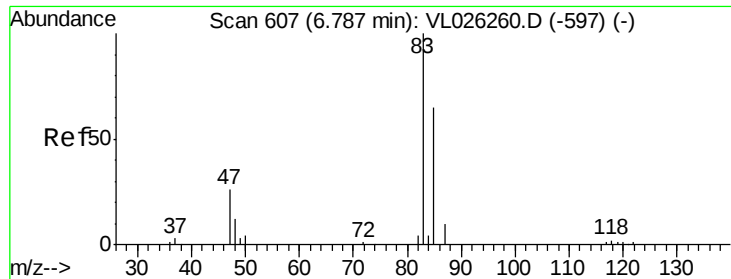
Delta R.T. 0.01 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Tgt Ion:	73	Resp:	299181
Ion Ratio	Lower	Upper	
73	100		
57	22.3	17.8	26.6





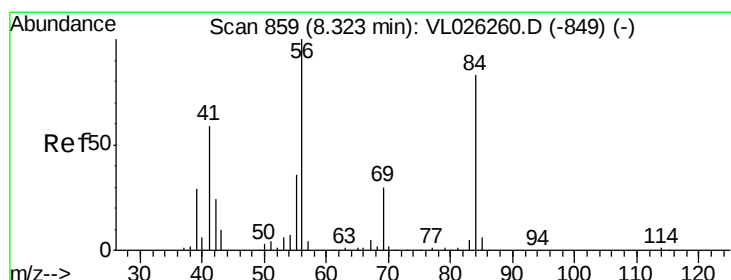
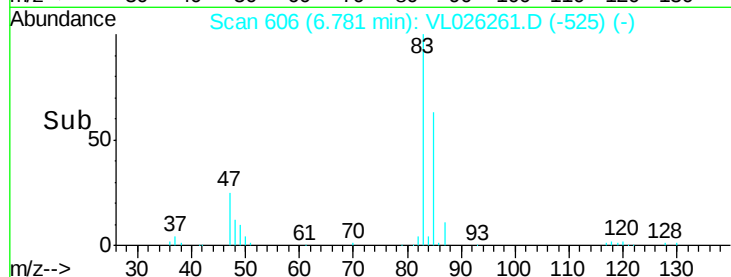
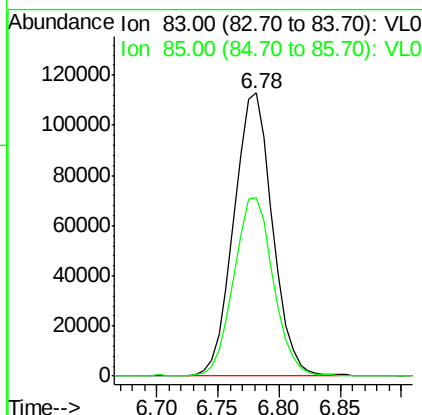
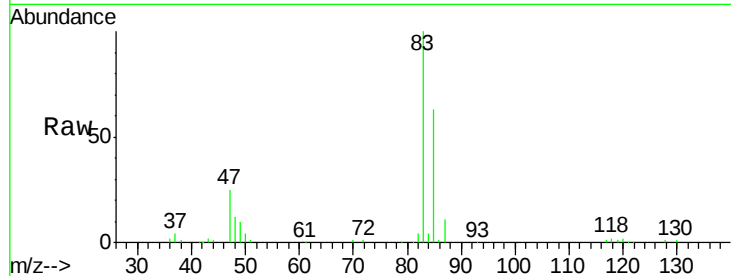
#29
Chloroform
Concen: 2.09 ppbv
RT: 6.78 min Scan# 606
Delta R.T. -0.01 min
Lab File: VL026261.D
Acq: 29 Oct 2015 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 83 Resp: 247443
Ion Ratio Lower Upper
83 100
85 63.2 52.0 78.0

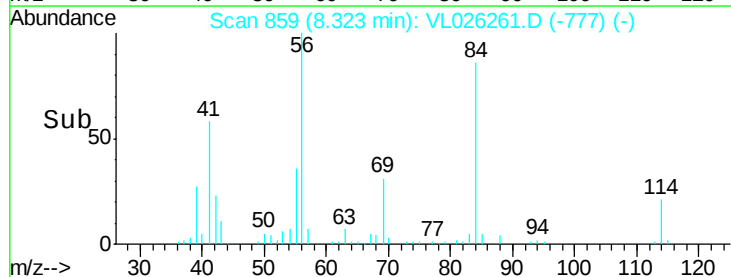
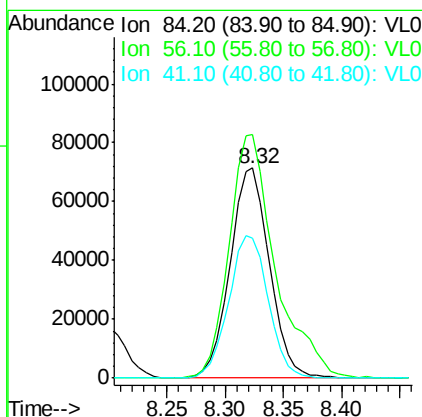
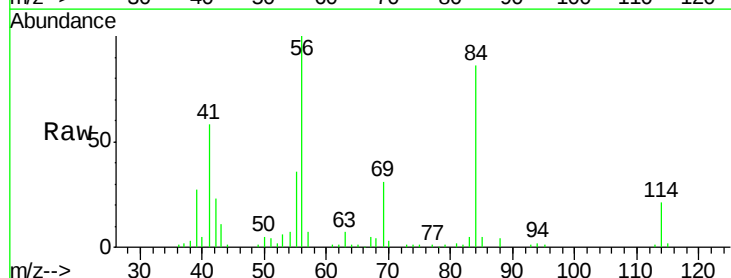
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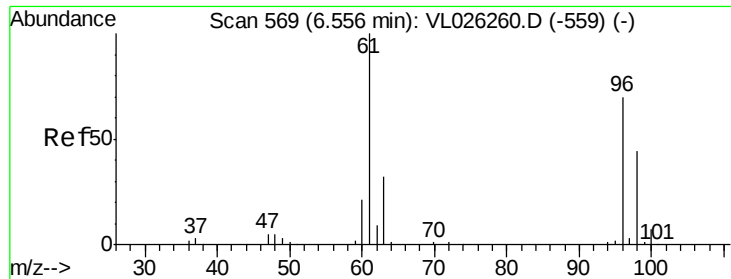
Mmdadoda
10/30/2015 12:06:31 PM



#30
Cyclohexane
Concen: 2.06 ppbv
RT: 8.32 min Scan# 859
Delta R.T. 0.00 min
Lab File: VL026261.D
Acq: 29 Oct 2015 10:02

Tgt Ion: 84 Resp: 168406
Ion Ratio Lower Upper
84 100
56 136.4 99.6 149.4
41 68.1 56.7 85.1





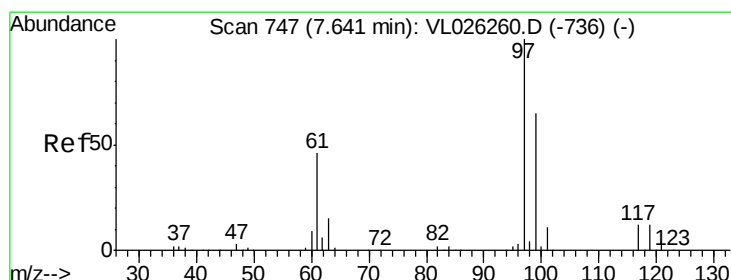
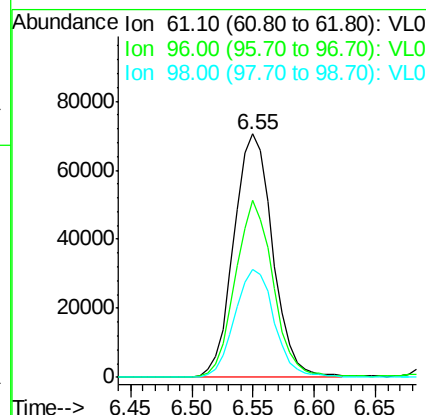
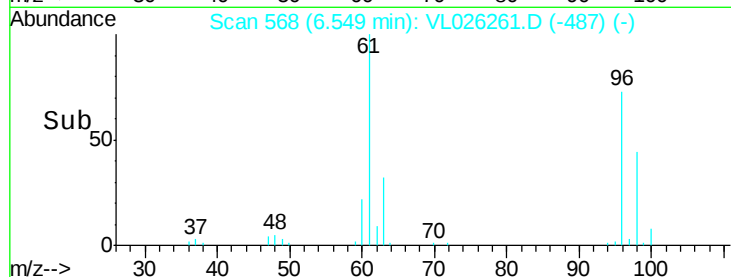
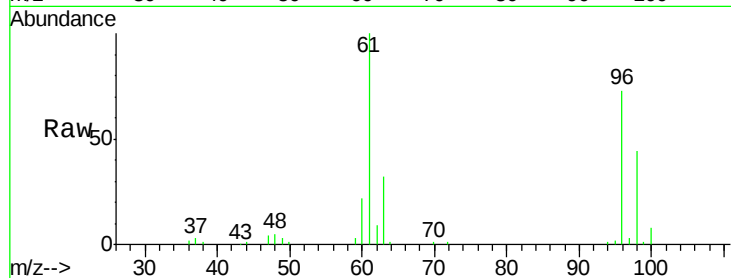
#31
 cis-1,2-Dichloroethene
 Concen: 2.09 ppbv
 RT: 6.55 min Scan# 568
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
61	100			
96	72.5	56.2	84.4	
98	44.2	35.4	53.2	

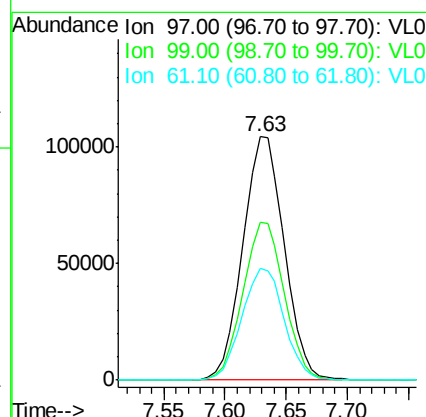
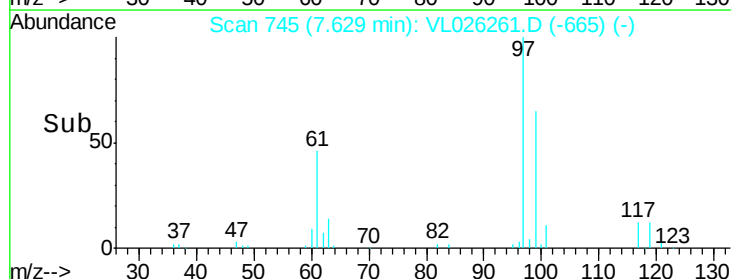
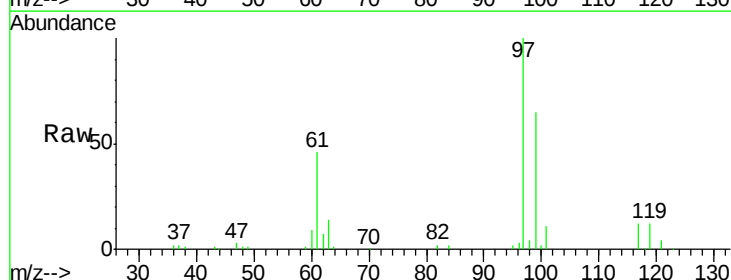
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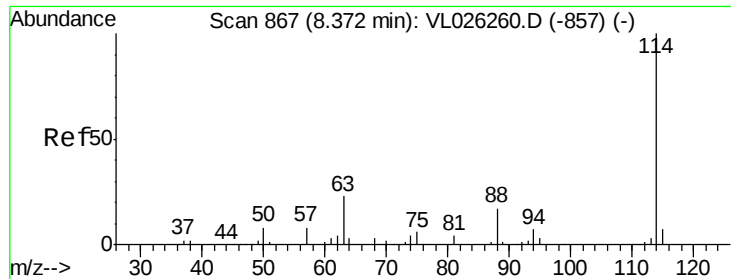
Mmdadoda
 10/30/2015 12:06:31 PM



#32
 1,1,1-Trichloroethane
 Concen: 1.88 ppbv
 RT: 7.63 min Scan# 745
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Tgt Ion	Ratio	Resp	Lower	Upper
97	100			
99	64.8	51.0	76.6	
61	46.7	37.1	55.7	





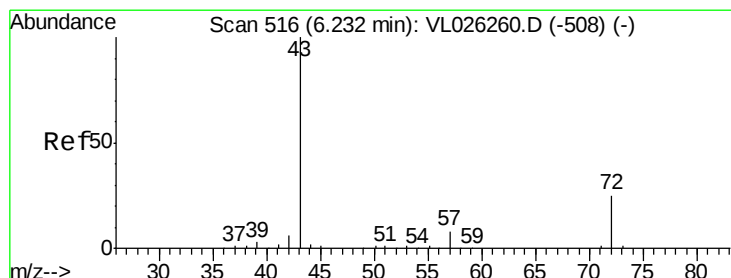
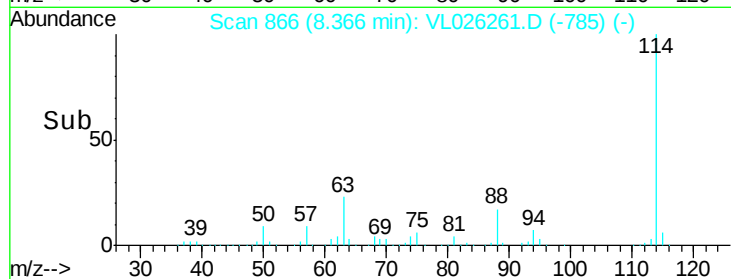
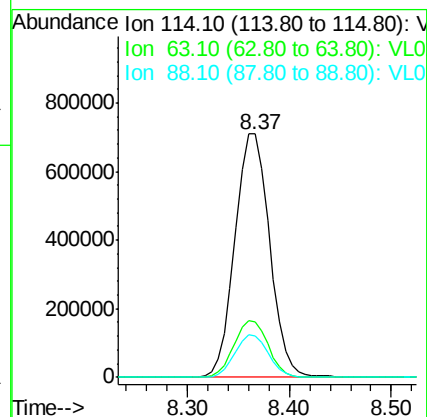
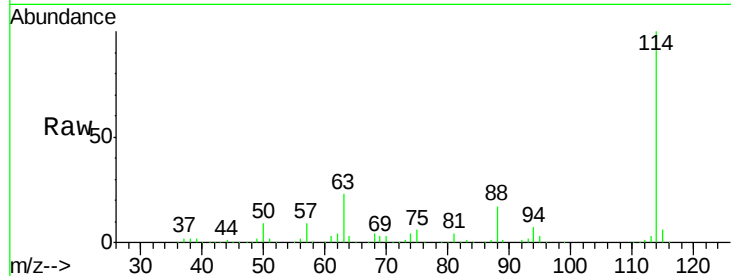
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.37 min Scan# 866
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:114 Resp: 1679949
 Ion Ratio Lower Upper
 114 100
 63 23.1 18.6 28.0
 88 17.0 13.4 20.2

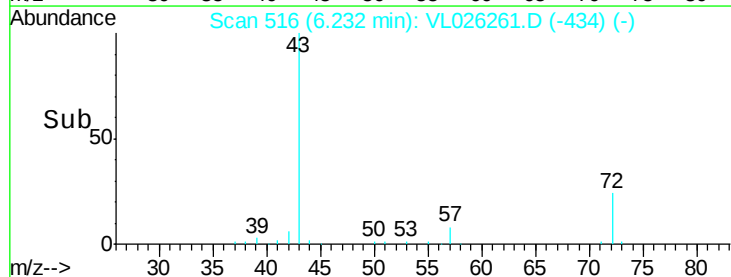
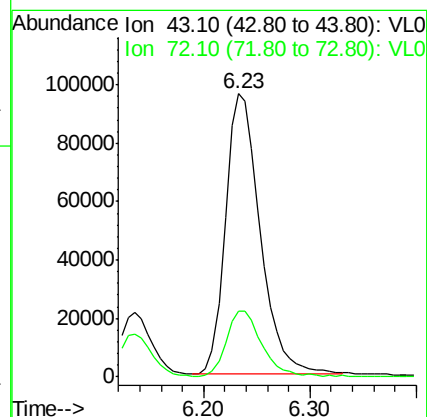
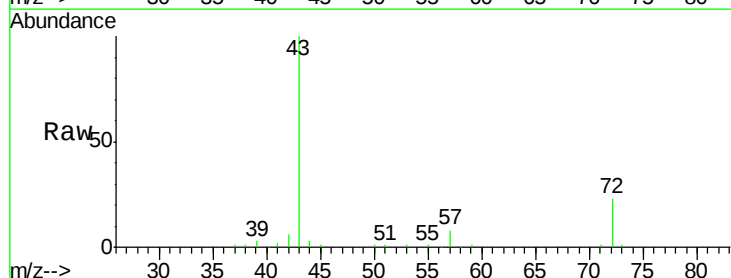
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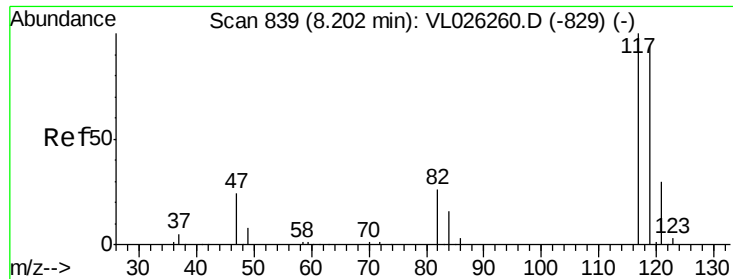
Mmdadoda
 10/30/2015 12:06:31 PM



#34
 2-Butanone
 Concen: 2.26 ppbv
 RT: 6.23 min Scan# 516
 Delta R.T. 0.00 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Tgt Ion: 43 Resp: 217482
 Ion Ratio Lower Upper
 43 100
 72 24.5 19.9 29.9





#35

Carbon Tetrachloride

Concen: 1.97 ppbv

RT: 8.20 min Scan# 839

Delta R.T. 0.00 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Instrument :

MSVOA_L

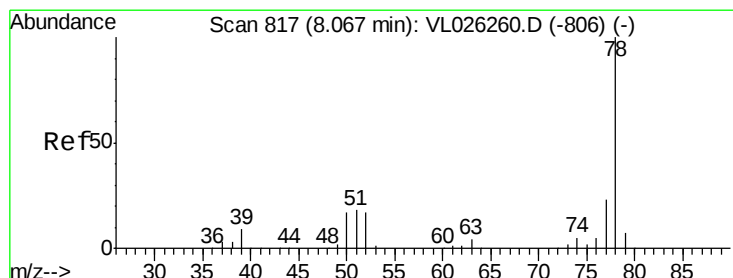
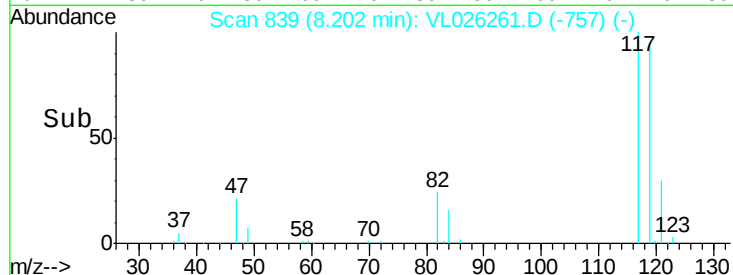
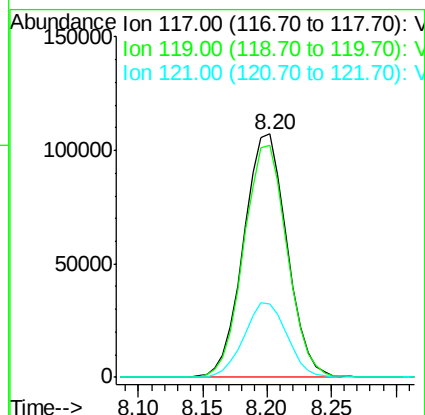
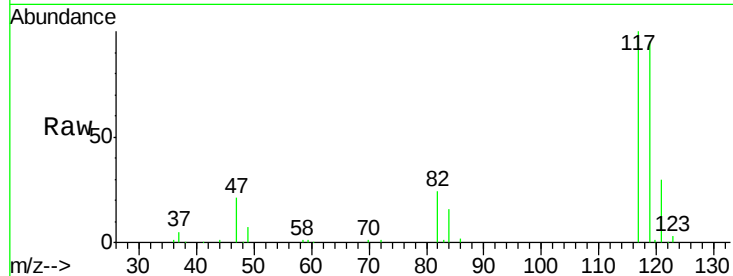
ClientSampleId :

VSTDIC002

Tot Ion:	117	Resp:	250319
Ion Ratio	Lower	Upper	
117	100		
119	95.1	75.2	112.8
121	30.0	24.2	36.2

Manual Integrations
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Mmdadoda
10/30/2015 12:06:31 PM



#36

Benzene

Concen: 2.22 ppbv

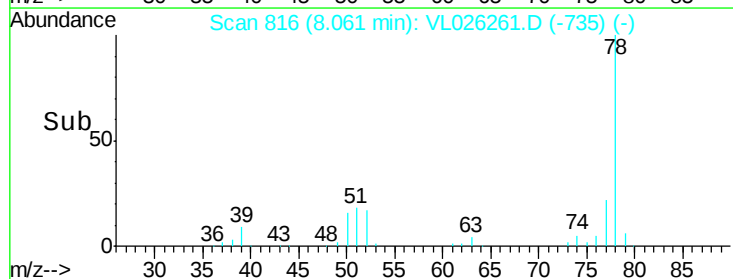
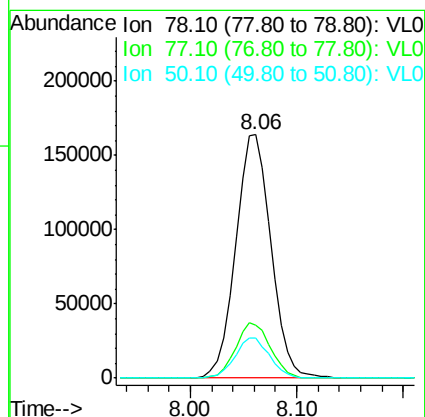
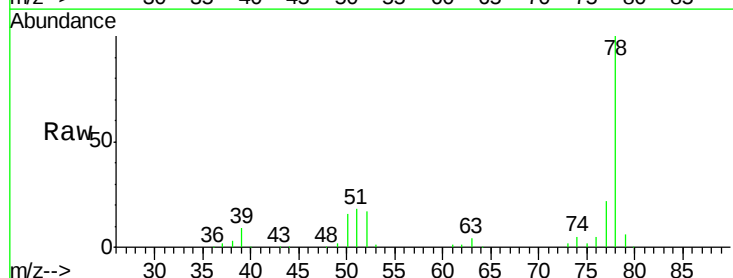
RT: 8.06 min Scan# 816

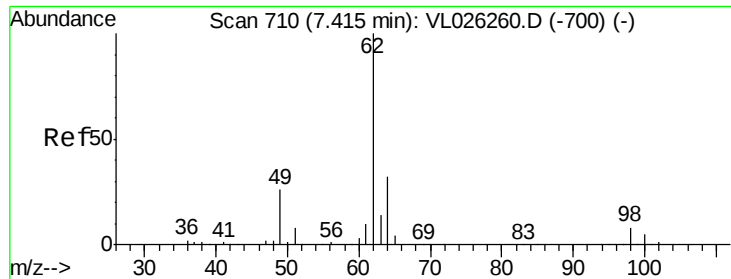
Delta R.T. -0.01 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Tgt Ion:	78	Resp:	381817
Ion Ratio	Lower	Upper	
78	100		
77	21.8	18.0	27.0
50	16.2	13.3	19.9





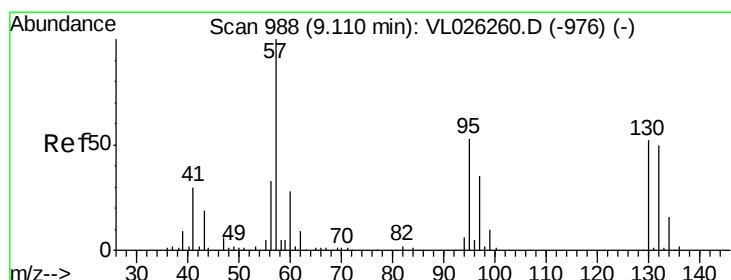
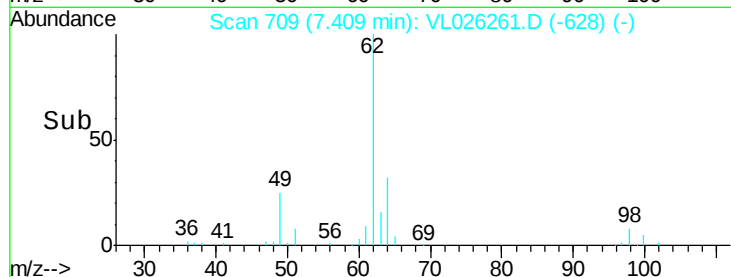
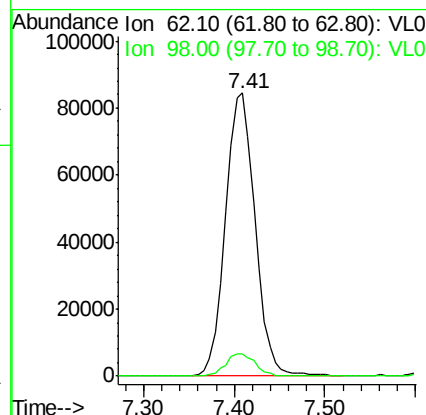
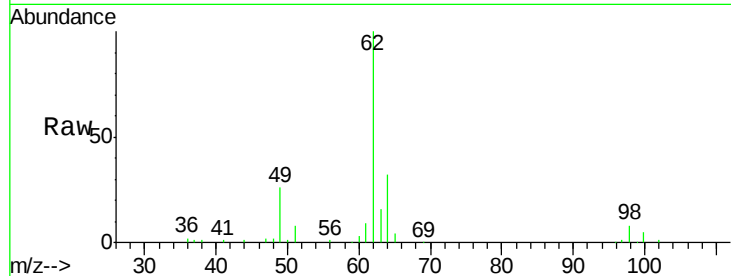
#37
 1,2-Dichloroethane
 Concen: 2.19 ppbv
 RT: 7.41 min Scan# 709
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
62	100	192661		
98	7.7	6.3	9.5	

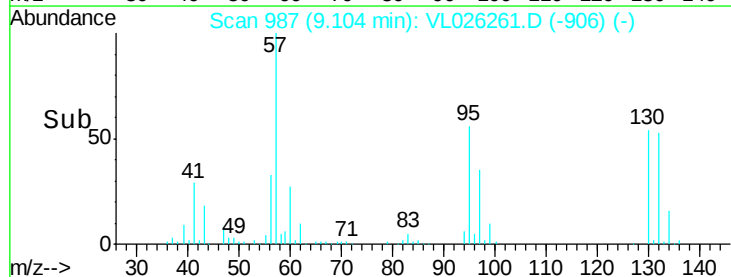
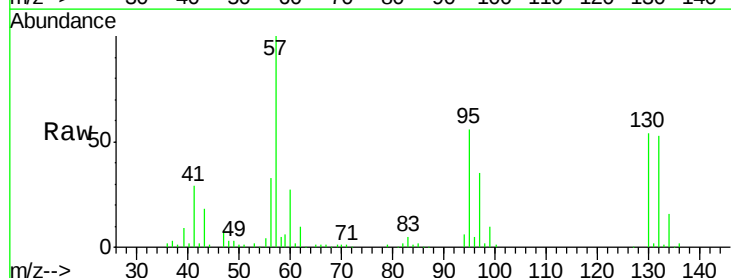
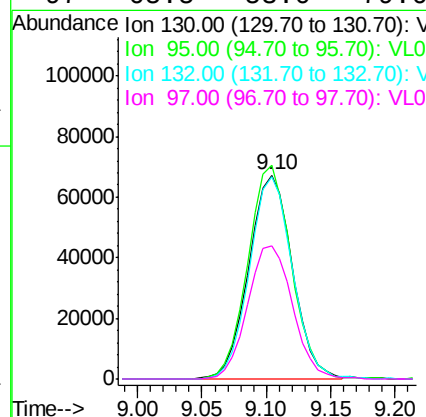
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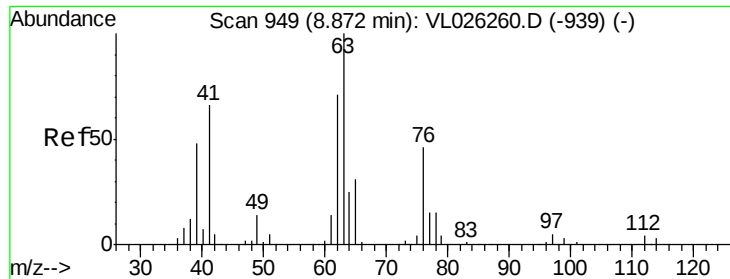
Mmdadoda
 10/30/2015 12:06:31 PM



#38
 Trichloroethene
 Concen: 1.91 ppbv
 RT: 9.10 min Scan# 987
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	157785		
95	104.9	80.8	121.2	
132	99.1	76.2	114.2	
97	65.5	53.0	79.6	





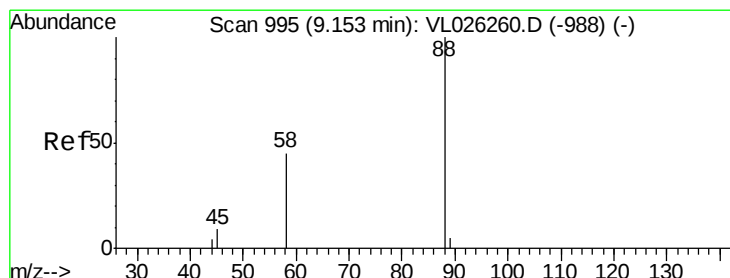
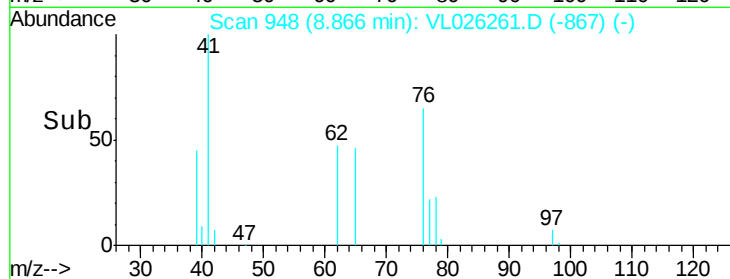
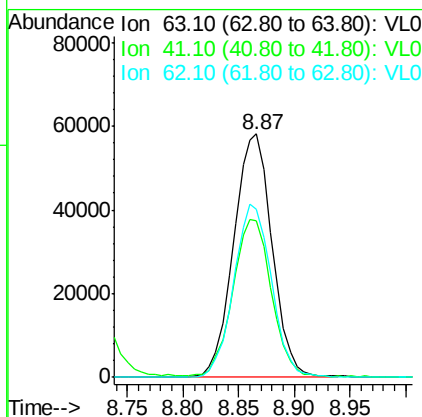
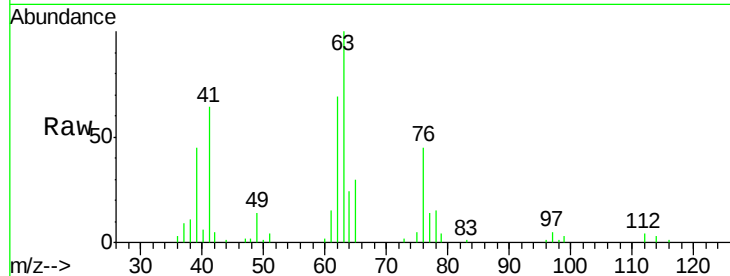
#39
 1,2-Dichloropropane
 Concen: 2.29 ppbv
 RT: 8.87 min Scan# 948
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
63	100		
41	63.8	53.2	79.8
62	69.1	57.1	85.7

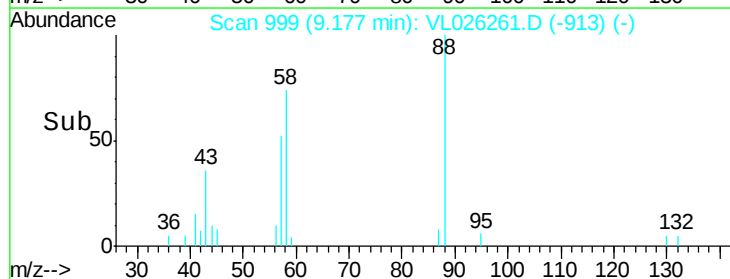
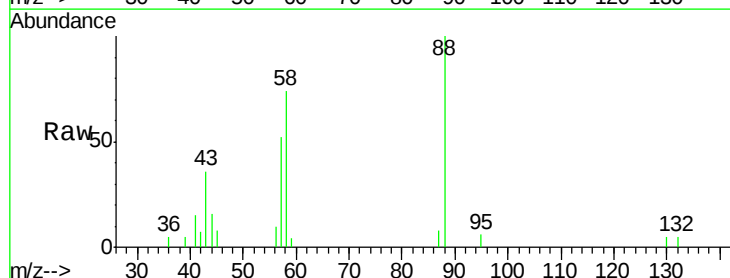
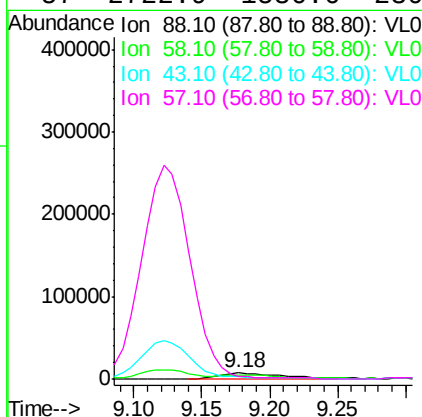
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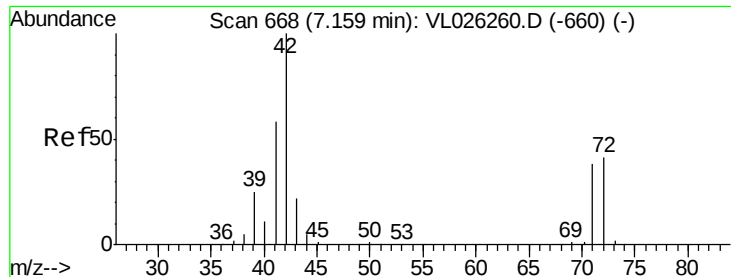
Mmdadoda
 10/30/2015 12:06:31 PM



#40
 1,4-Dioxane
 Concen: 2.17 ppbv
 RT: 9.18 min Scan# 999
 Delta R.T. 0.02 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Tgt Ion	Ratio	Lower	Upper
88	100		
58	198.5	126.2	189.2#
43	520.0	307.3	460.9#
57	2722.9	1536.6	2304.8#





#41

Tetrahydrofuran

Concen: 2.28 ppbv

RT: 7.17 min Scan# 669

Delta R.T. 0.01 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Instrument :

MSVOA_L

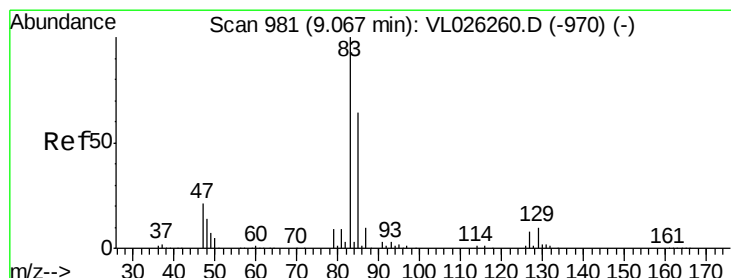
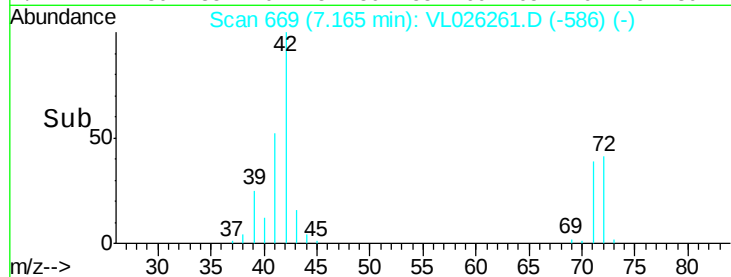
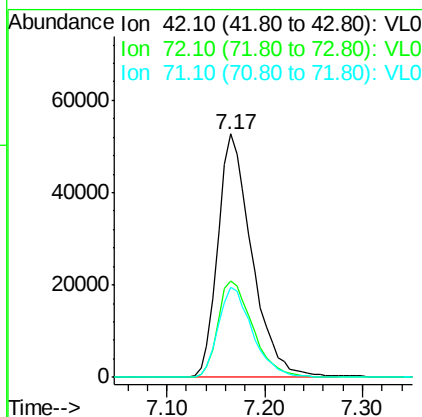
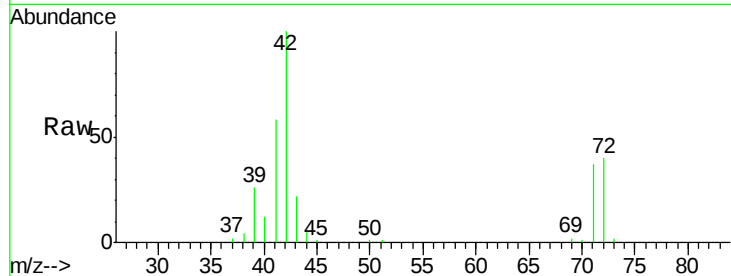
ClientSampleId :

VSTDIC002

Tot Ion:	42	Resp:	127672
Ion	Ratio	Lower	Upper
42	100		
72	40.4	32.2	48.4
71	37.0	30.4	45.6

Manual Integrations
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Mmdadoda
10/30/2015 12:06:31 PM



#42

Bromodichloromethane

Concen: 2.14 ppbv

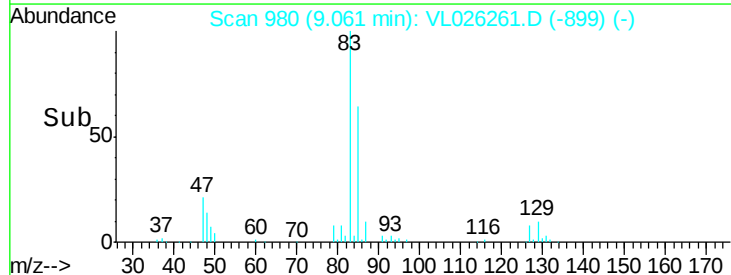
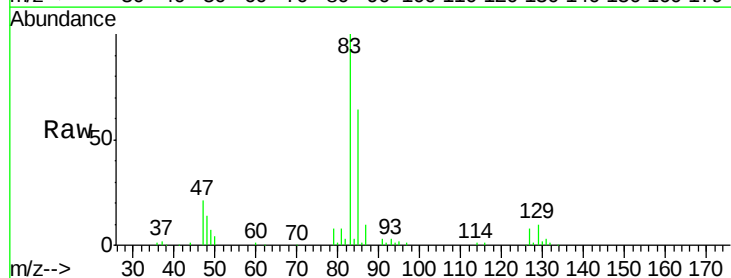
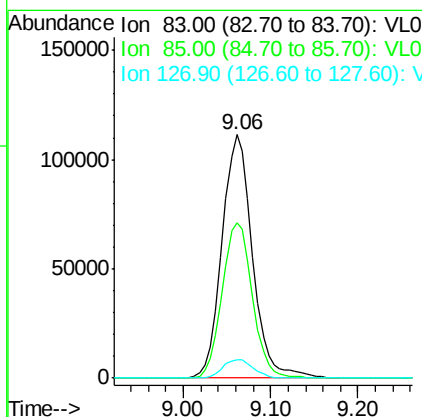
RT: 9.06 min Scan# 980

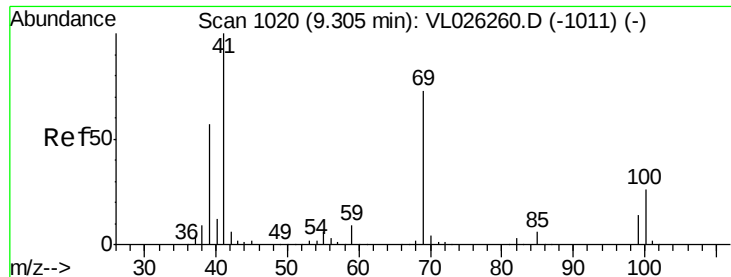
Delta R.T. -0.01 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Tgt Ion:	83	Resp:	269679
Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.2	76.8
127	7.7	6.2	9.4





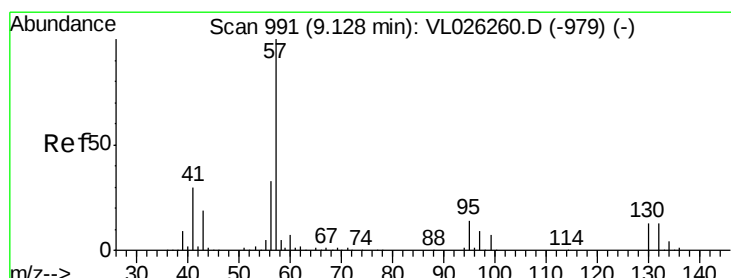
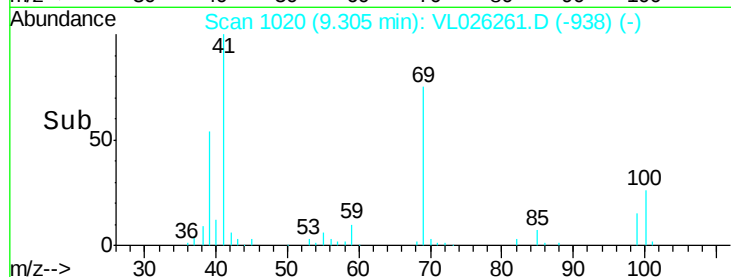
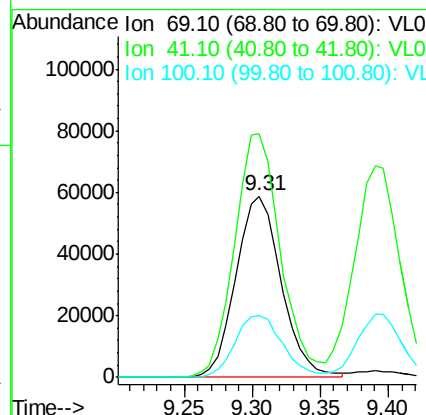
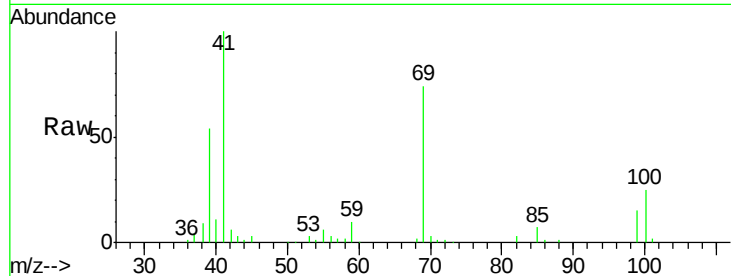
#43
Methvl Methacrvlate
Concen: 2.20 ppbv
RT: 9.31 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VL026261.D
Acq: 29 Oct 2015 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100		137293		
41	135.4	110.0	165.0		
100	35.4	28.6	43.0		

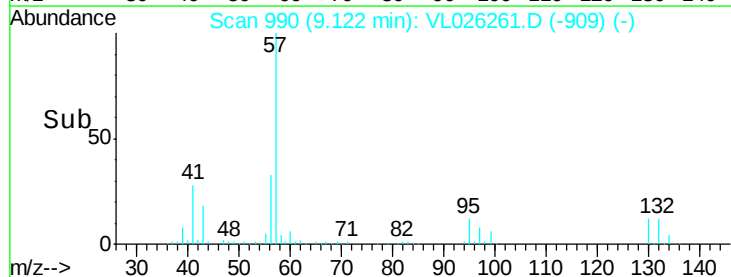
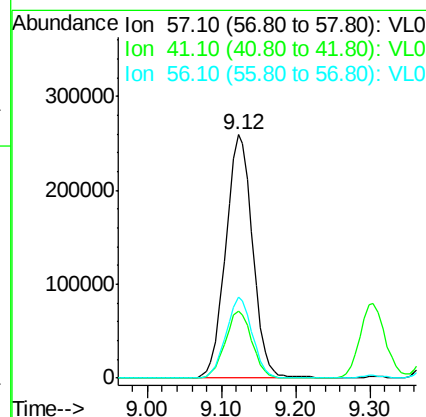
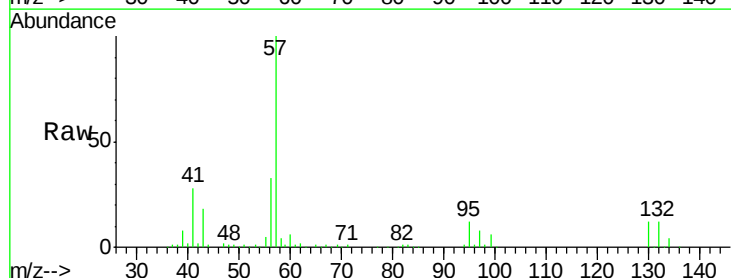
Manual Integrations
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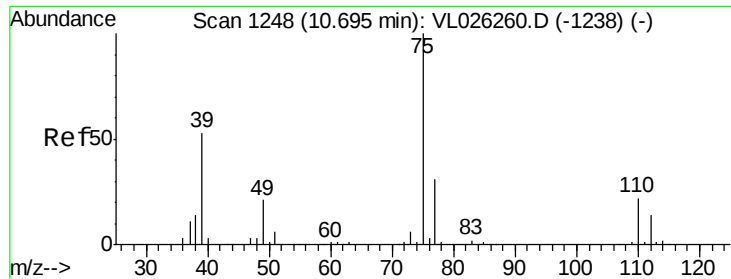
Mmdadoda
10/30/2015 12:06:31 PM



#44
2,2,4-Trimethylpentane
Concen: 2.34 ppbv
RT: 9.12 min Scan# 990
Delta R.T. -0.01 min
Lab File: VL026261.D
Acq: 29 Oct 2015 10:02

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		652557		
41	27.7	23.1	34.7		
56	32.2	26.3	39.5		





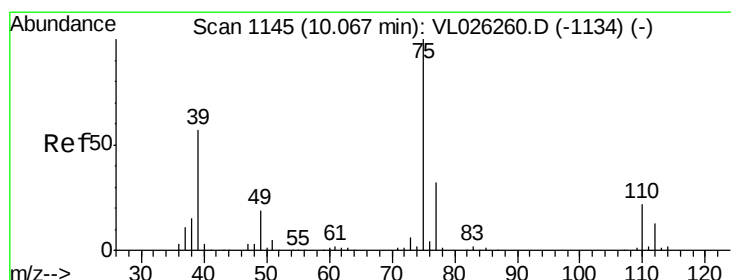
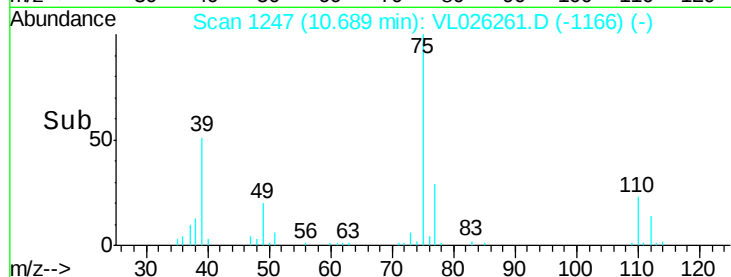
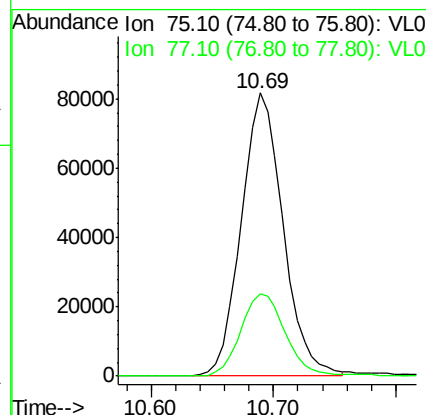
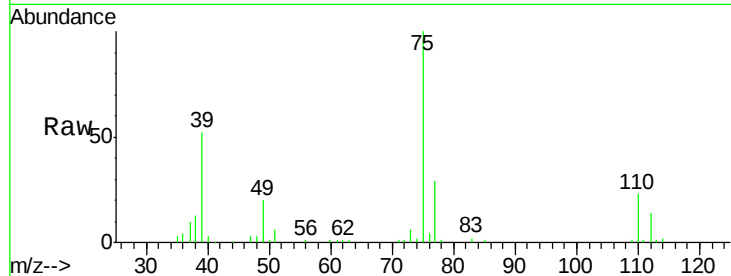
#45
 t-1,3-Dichloropropene
 Concen: 2.01 ppbv
 RT: 10.69 min Scan# 1247
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
75	100	194225		
77	29.3	24.7	37.1	

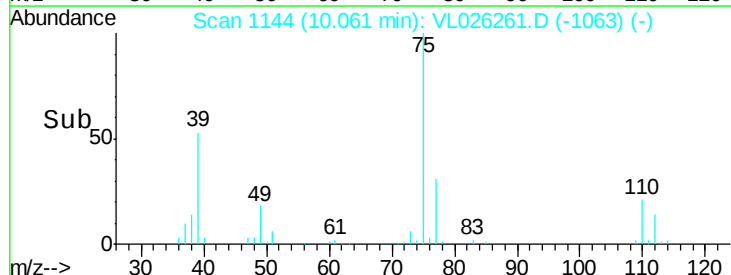
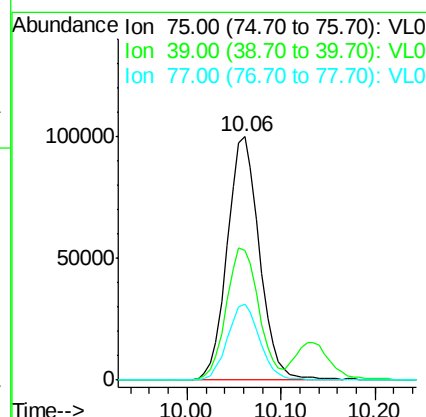
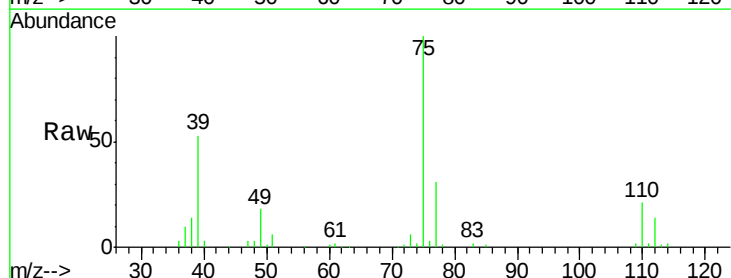
Manual Integrations
 APPROVED

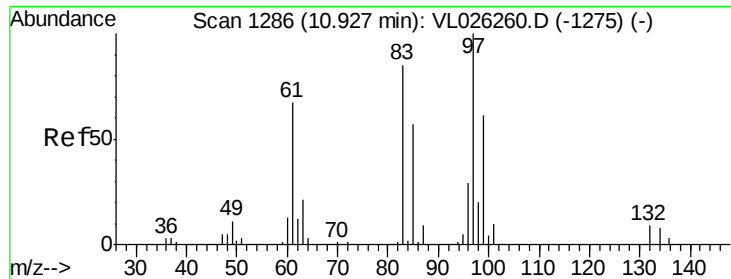
Mmdadoda
 10/30/2015 12:06:31 PM



#46
 cis-1,3-Dichloropropene
 Concen: 2.09 ppbv
 RT: 10.06 min Scan# 1144
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	237594		
39	53.4	45.8	68.8	
77	31.1	25.3	37.9	





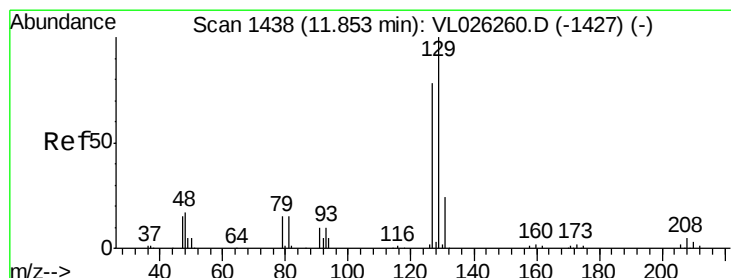
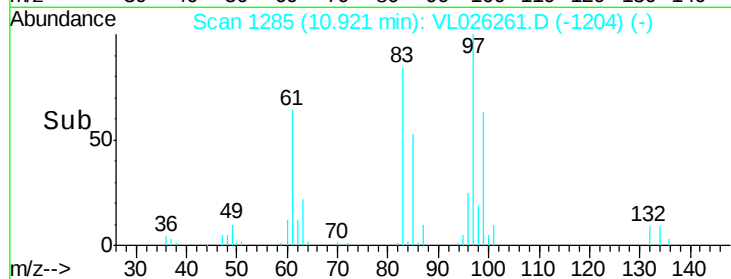
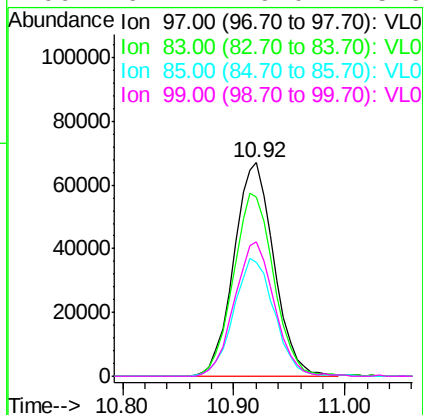
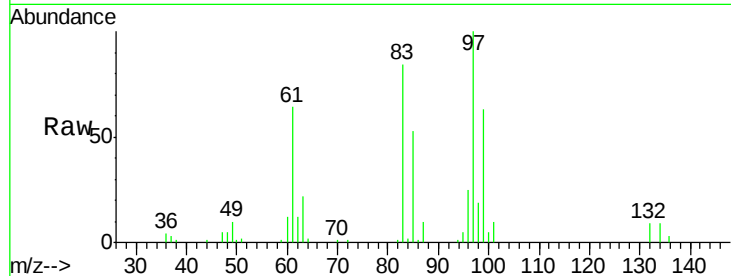
#47
 1,1,2-Trichloroethane
 Concen: 2.22 ppbv
 RT: 10.92 min Scan# 1285
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:	97	Resp:	167491
Ion Ratio	Lower	Upper	
97	100		
83	84.1	67.9	101.9
85	53.3	45.2	67.8
99	62.7	49.0	73.6

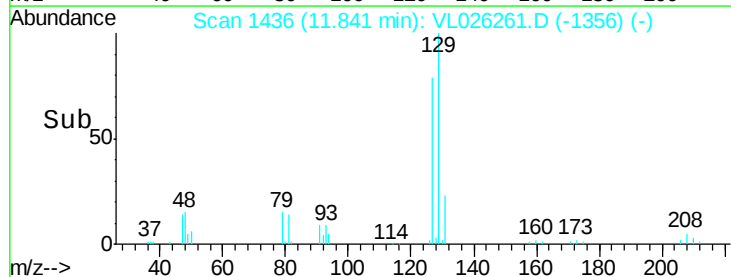
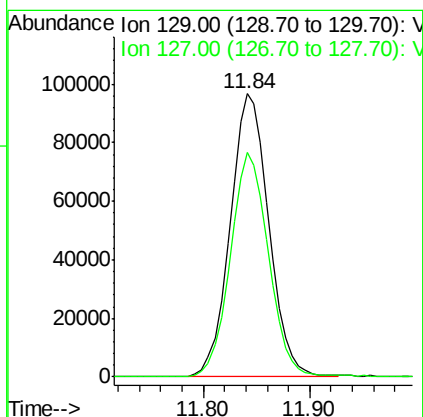
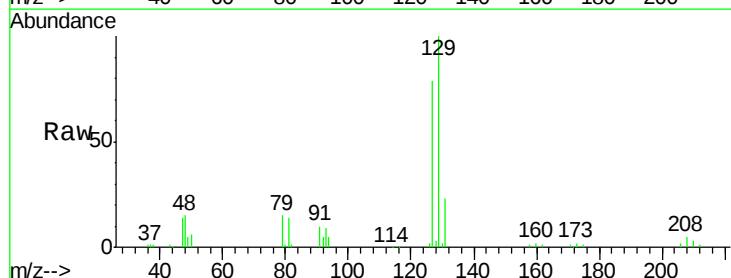
Manual Integrations
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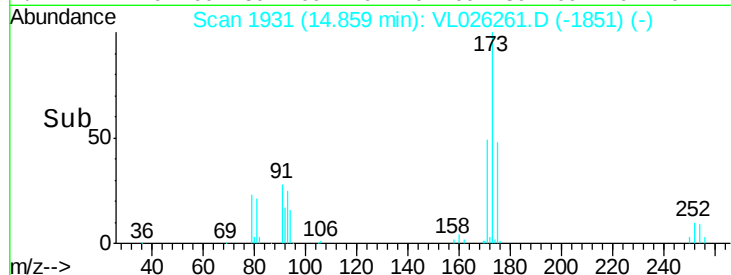
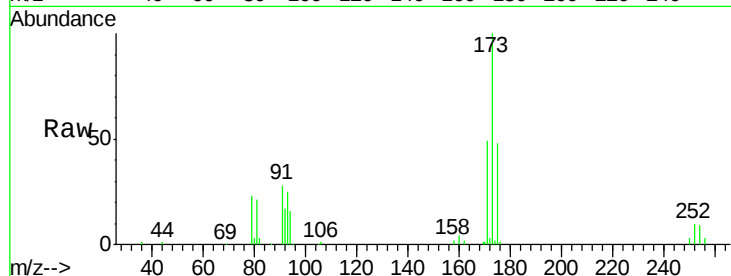
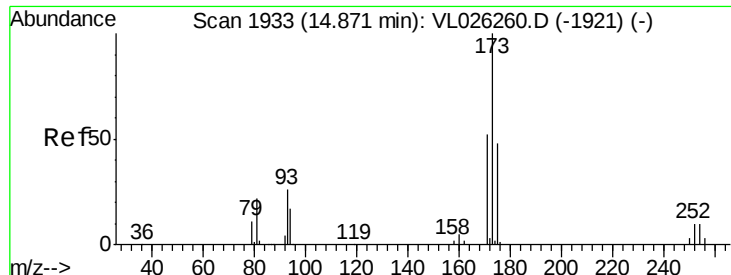
Mmdadoda
 10/30/2015 12:06:31 PM



#48
 Dibromochloromethane
 Concen: 2.03 ppbv
 RT: 11.84 min Scan# 1436
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Tgt Ion:	129	Resp:	246099
Ion Ratio	Lower	Upper	
129	100		
127	78.4	39.1	117.2





#49

Bromoform

Concen: 1.94 ppbv

RT: 14.86 min Scan# 1931

Delta R.T. -0.01 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Tot Ion:	173	Resp:	197298
Ion Ratio	Lower	Upper	
173	100		
175	47.7	38.8	58.2
171	51.5	41.7	62.5

Instrument :

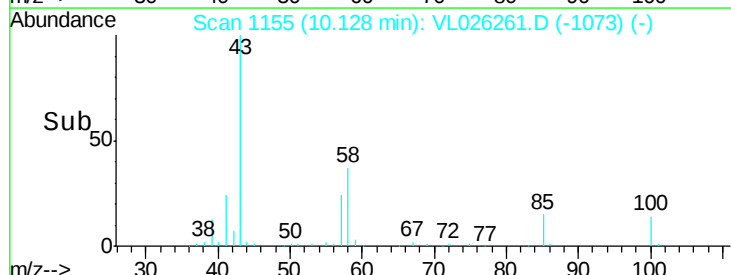
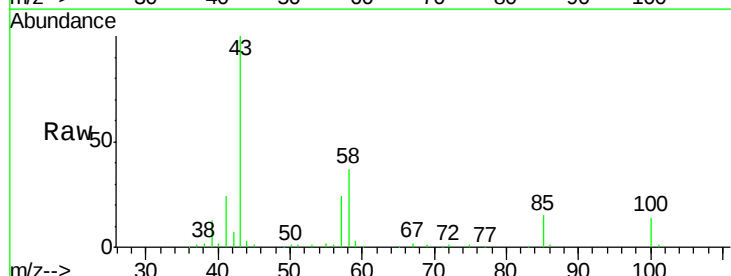
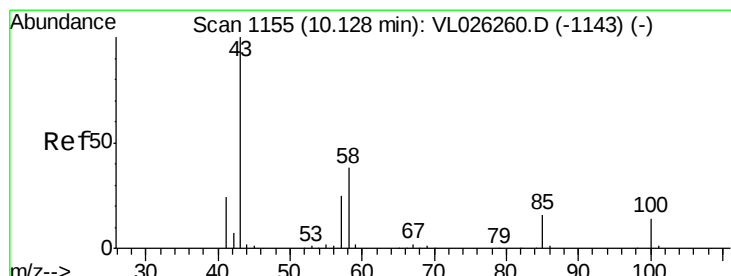
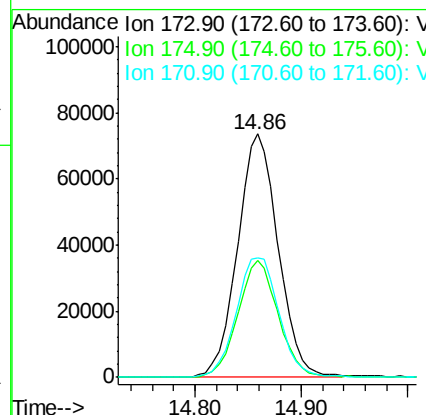
MSVOA_L

ClientSampleId :

VSTDIC002

Manual Integrations
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Mmdadoda
10/30/2015 12:06:31 PM



#50

4-Methyl-2-Pentanone

Concen: 2.30 ppbv

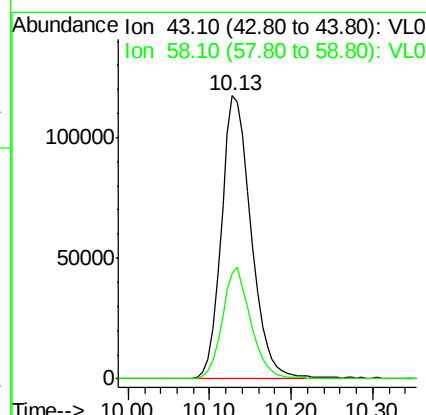
RT: 10.13 min Scan# 1155

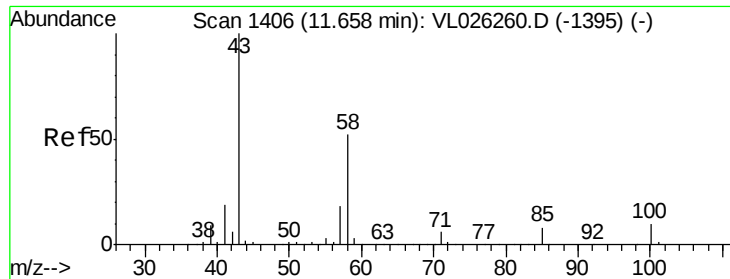
Delta R.T. 0.00 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Tgt Ion:	43	Resp:	297721
Ion Ratio	Lower	Upper	
43	100		
58	37.6	30.5	45.7





#51

2-Hexanone

Concen: 2.23 ppbv

RT: 11.66 min Scan# 1406

Delta R.T. 0.00 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Instrument :

MSVOA_L

ClientSampled :

VSTDIC002

Tot Ion: 43 Resp: 269837

Ion Ratio Lower Upper

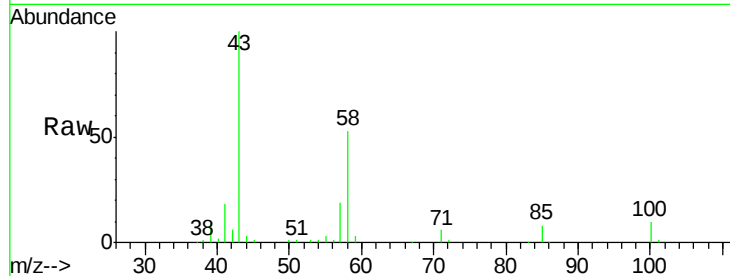
43 100

58 54.8 42.7 64.1

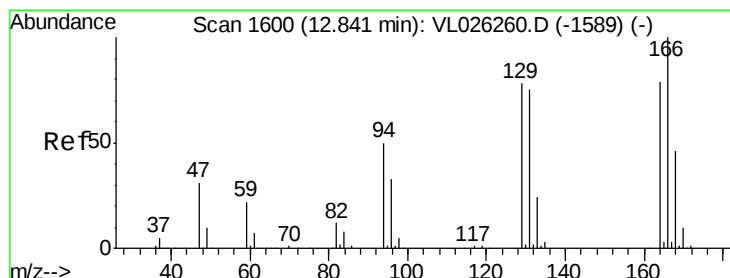
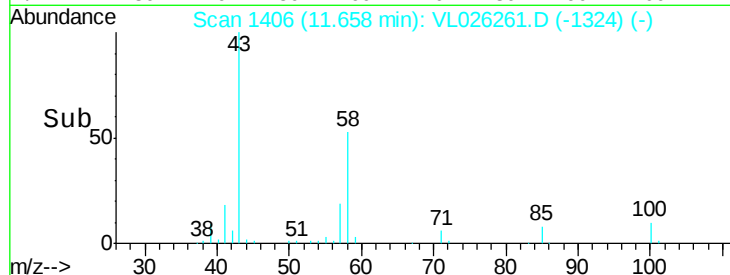
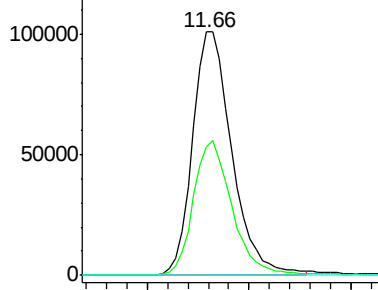
98 0.0 0.0 0.0#

Manual Integrations
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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: 1.71 ppbv

RT: 12.83 min Scan# 1599

Delta R.T. -0.01 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Tgt Ion:164 Resp: 166961

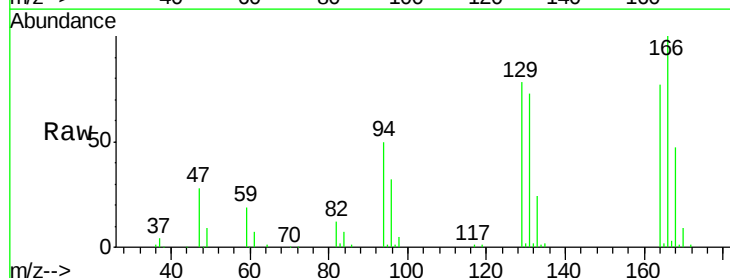
Ion Ratio Lower Upper

164 100

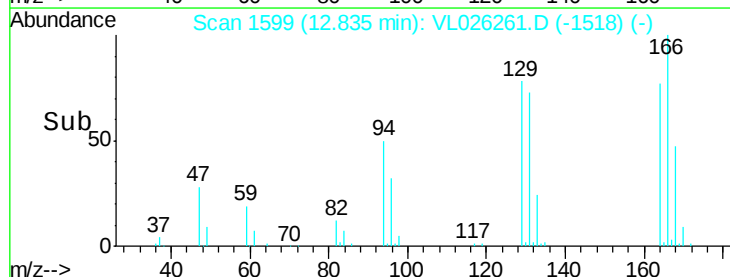
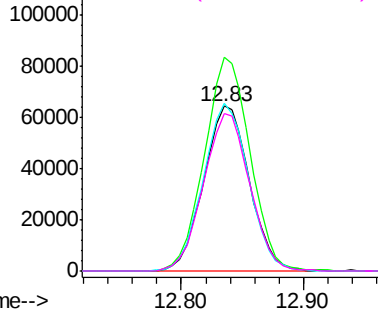
166 129.4 101.4 152.0

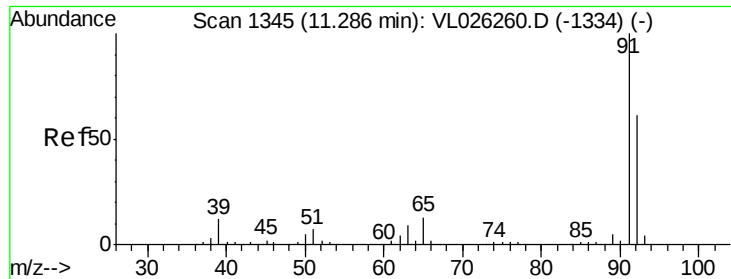
129 100.8 78.8 118.2

131 95.0 75.6 113.4



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: 2.18 ppbv

RT: 11.28 min Scan# 1344

Delta R.T. -0.01 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 506633

Ion Ratio Lower Upper

91 100

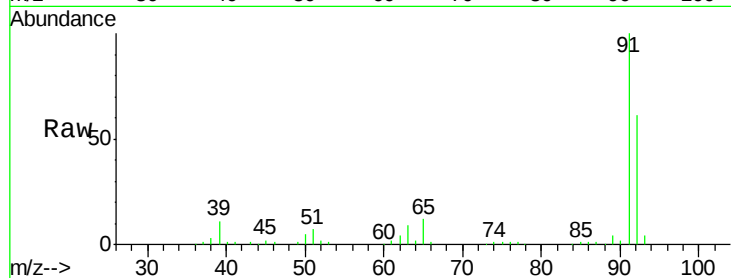
92 59.8 48.6 73.0

Manual Integrations

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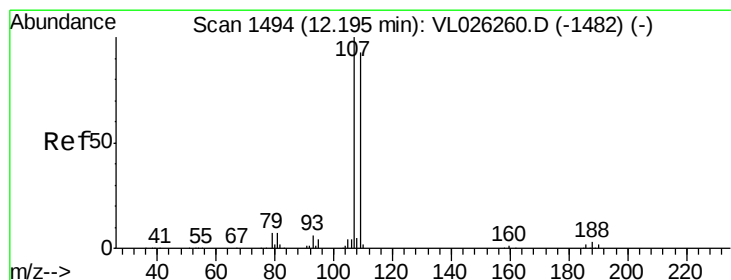
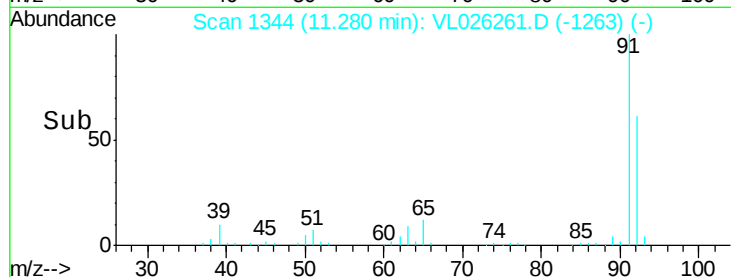
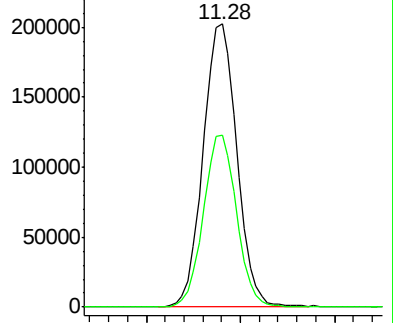
Mmdadoda

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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: 2.21 ppbv

RT: 12.18 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VL026261.D

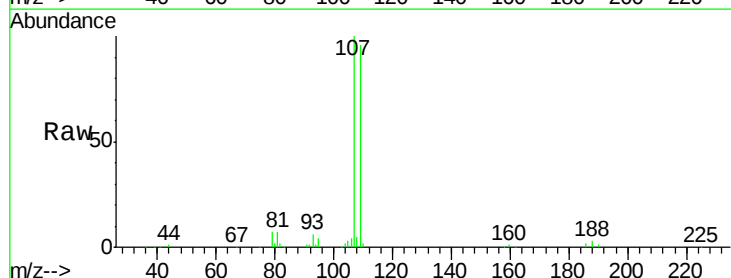
Acq: 29 Oct 2015 10:02

Tgt Ion: 107 Resp: 257159

Ion Ratio Lower Upper

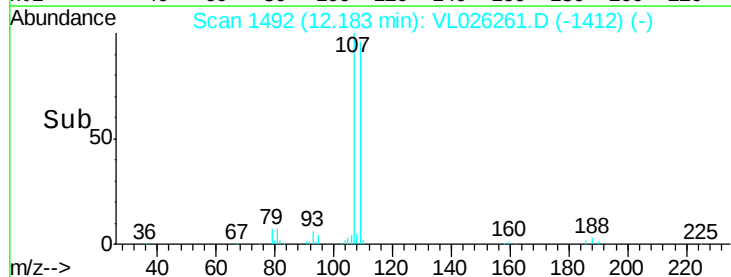
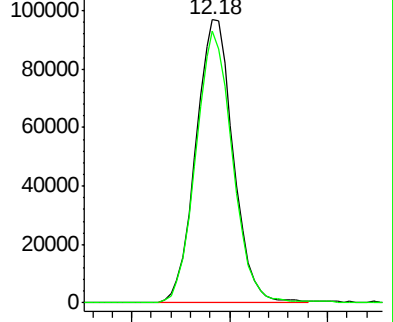
107 100

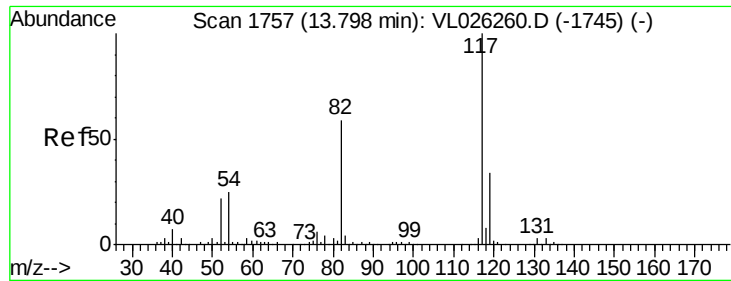
109 96.2 74.6 112.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





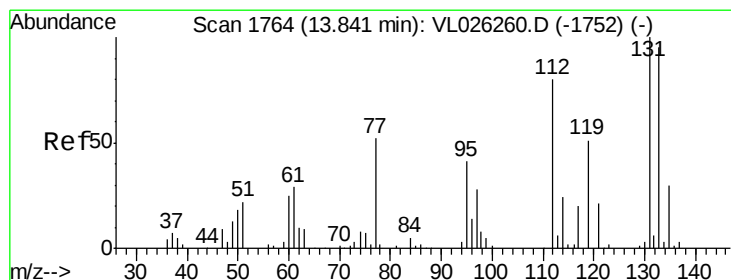
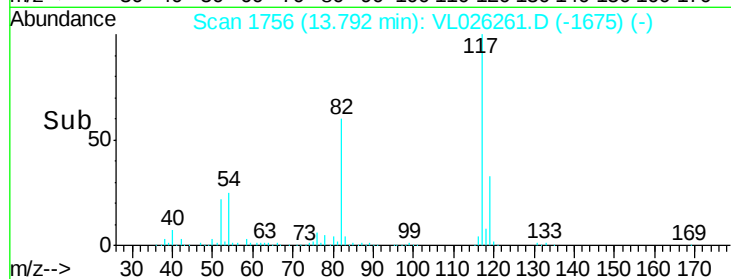
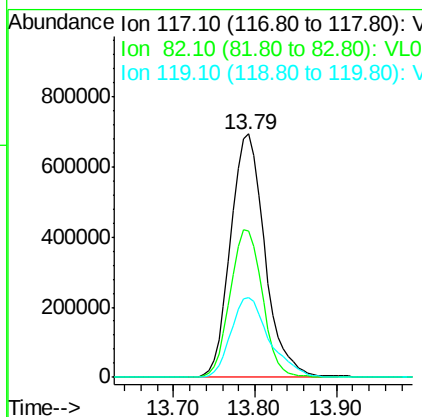
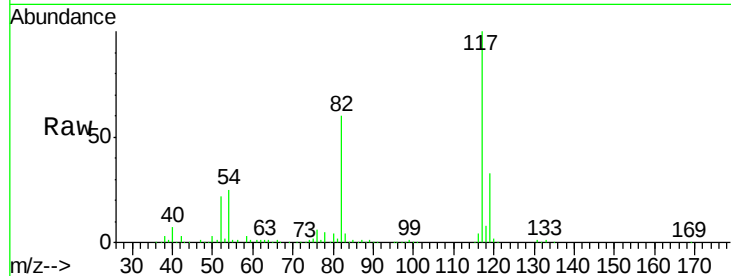
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.79 min Scan# 1756
Delta R.T. -0.01 min
Lab File: VL026261.D
Acq: 29 Oct 2015 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion:117 Resp: 2027249
Ion Ratio Lower Upper
117 100
82 57.7 48.2 72.4
119 37.0 46.2 69.2#

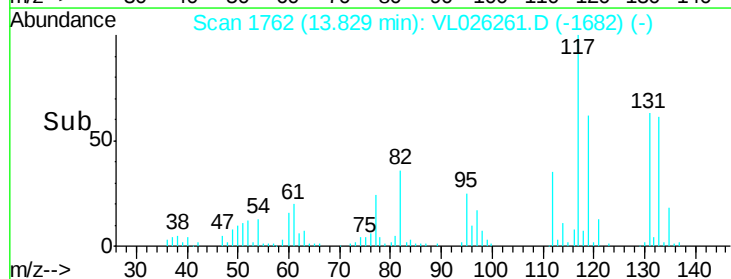
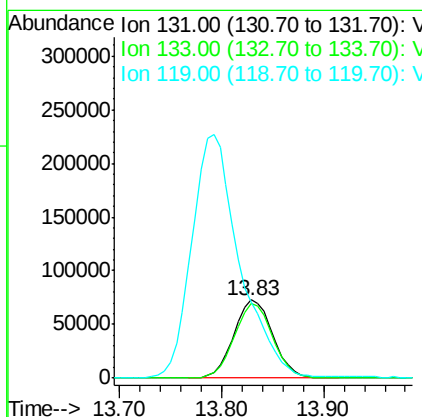
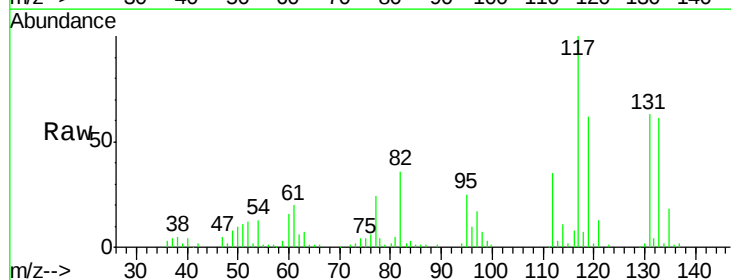
Manual Integrations
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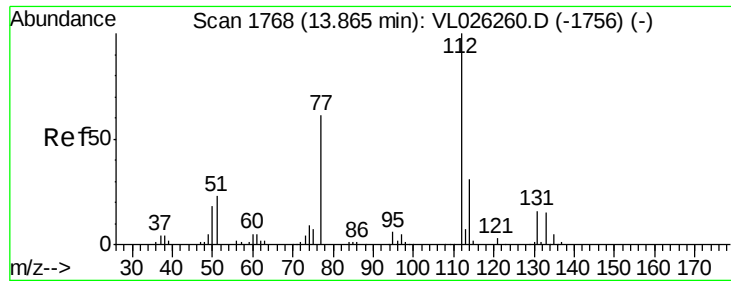
Mmdadoda
10/30/2015 12:06:31 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 1.99 ppbv
RT: 13.83 min Scan# 1762
Delta R.T. -0.01 min
Lab File: VL026261.D
Acq: 29 Oct 2015 10:02

Tgt Ion:131 Resp: 193074
Ion Ratio Lower Upper
131 100
133 94.4 76.1 114.1
119 389.7 111.3 166.9#





#57

Chlorobenzene

Concen: 2.22 ppbv

RT: 13.86 min Scan# 1767

Delta R.T. -0.01 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Instrument :

MSVOA_L

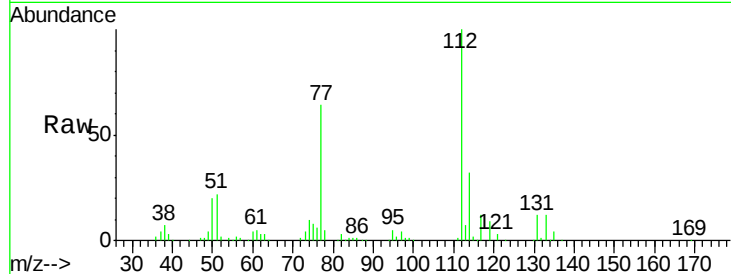
ClientSampleId :

VSTDIC002

Tot Ion:	112	Resp:	433167
Ion Ratio		Lower	Upper
112	100		
77	63.0	49.4	74.0
114	32.0	27.8	34.0

Manual Integrations
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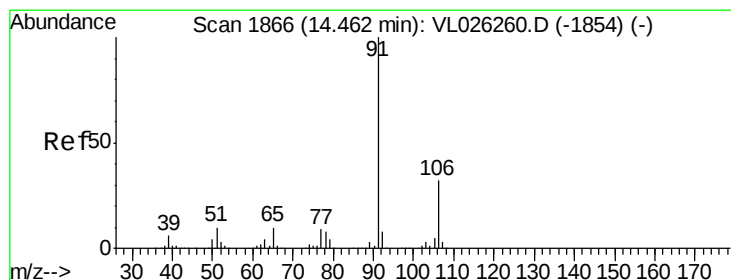
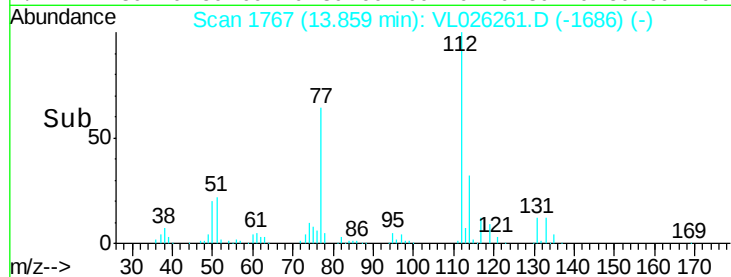
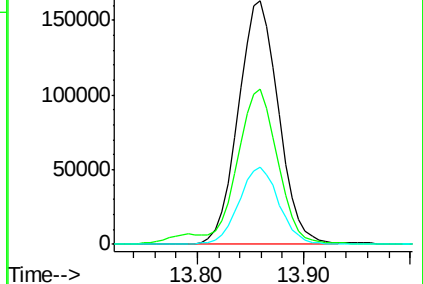
Mmdadoda
10/30/2015 12:06:31 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 2.20 ppbv

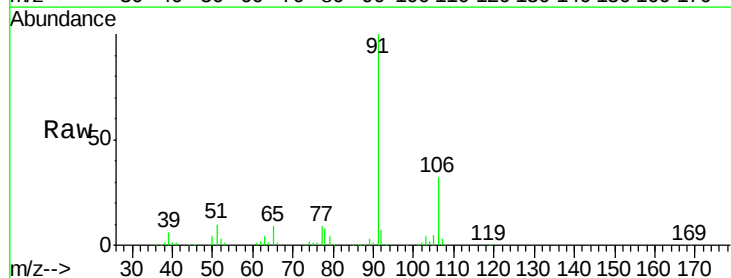
RT: 14.46 min Scan# 1865

Delta R.T. -0.01 min

Lab File: VL026261.D

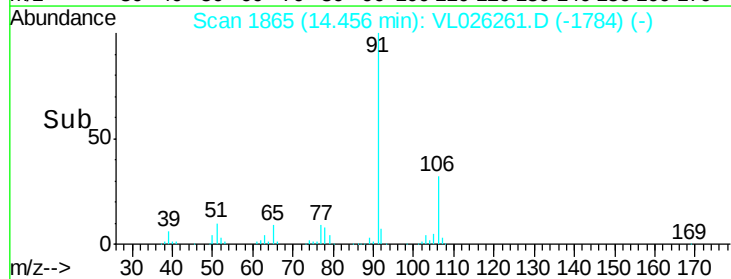
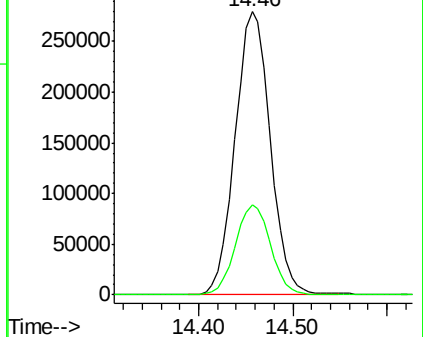
Acq: 29 Oct 2015 10:02

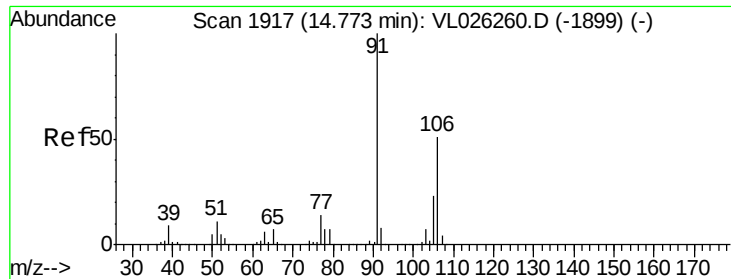
Tgt Ion:	91	Resp:	728946
Ion Ratio		Lower	Upper
91	100		
106	32.0	25.7	38.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





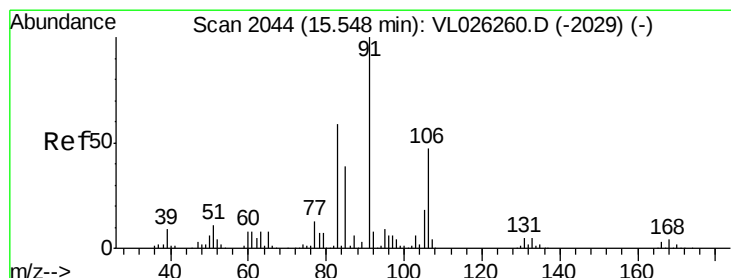
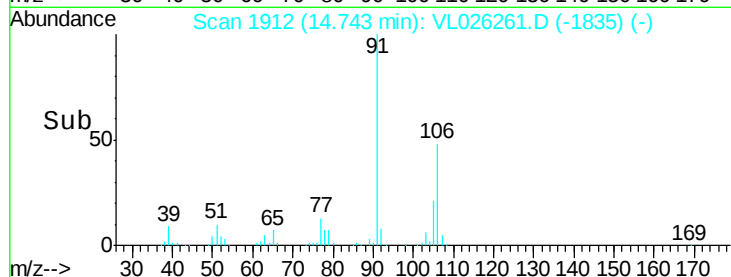
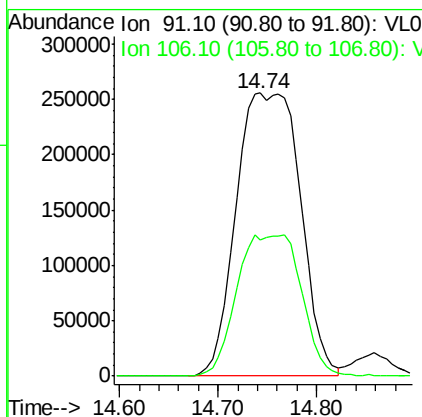
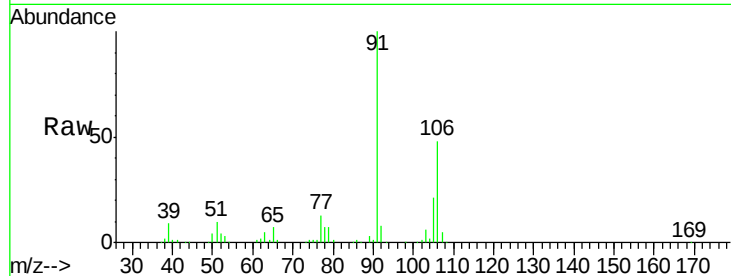
#59
m/p-Xylene
Concen: 4.48 ppbv m
RT: 14.74 min Scan# 1912
Delta R.T. -0.03 min
Lab File: VL026261.D
Acq: 29 Oct 2015 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 1158960
Ion Ratio Lower Upper
91 100
106 50.0 0.0 0.0#

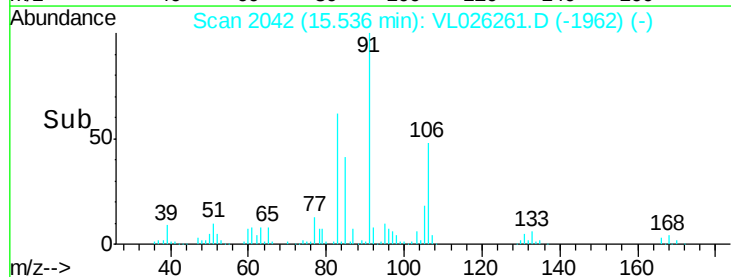
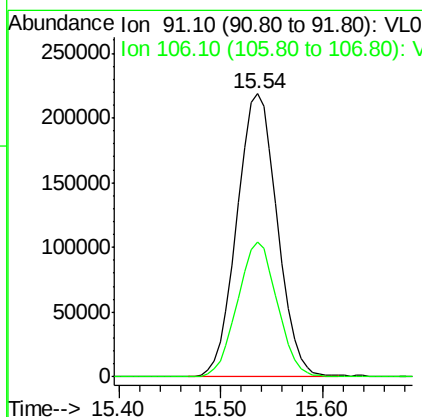
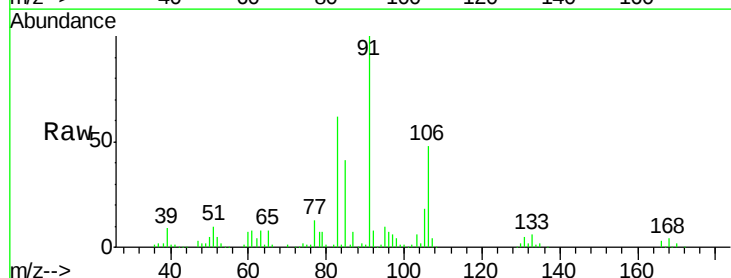
Manual Integrations
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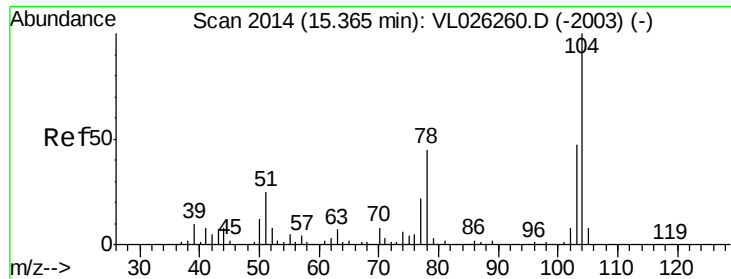
Mmdadoda
10/30/2015 12:06:31 PM



#60
o-Xylene
Concen: 2.23 ppbv
RT: 15.54 min Scan# 2042
Delta R.T. -0.01 min
Lab File: VL026261.D
Acq: 29 Oct 2015 10:02

Tgt Ion: 91 Resp: 602679
Ion Ratio Lower Upper
91 100
106 47.1 23.6 70.8





#61

Stvrene

Concen: 2.14 ppbv

RT: 15.35 min Scan# 2012

Delta R.T. -0.01 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Instrument :

MSVOA_L

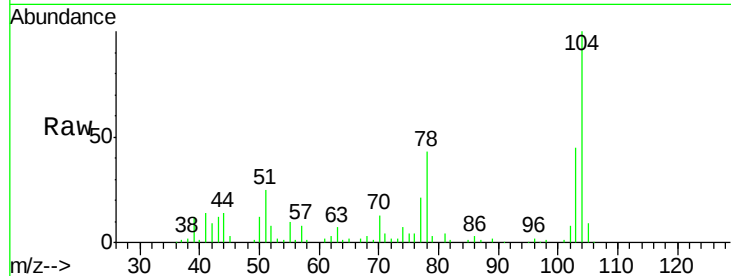
ClientSampleId :

VSTDIC002

Tot Ion:	104	Resp:	260529
Ion Ratio	Lower	Upper	
104	100		
78	43.9	35.5	53.3
103	46.2	37.0	55.6

Manual Integrations
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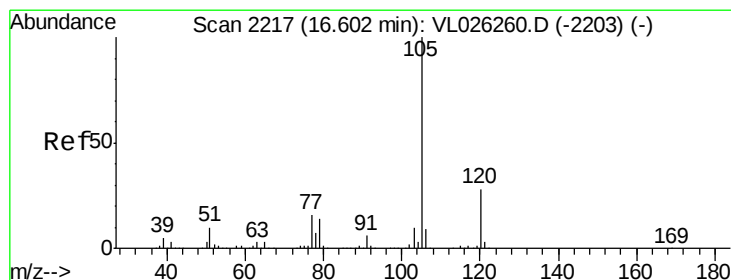
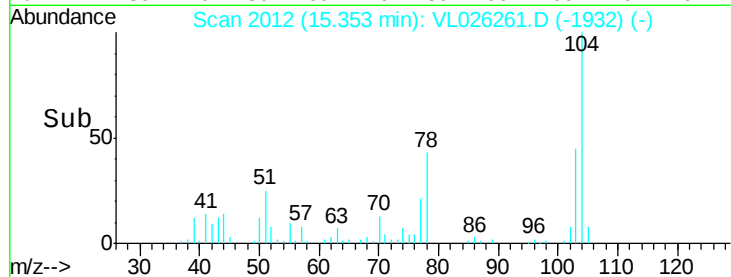
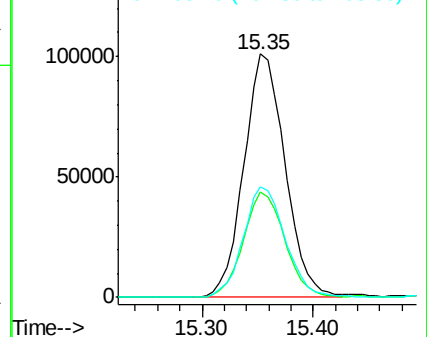
Mmdadoda
10/30/2015 12:06:31 PM



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: 2.19 ppbv

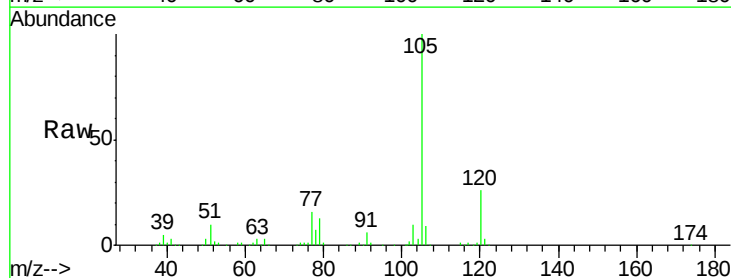
RT: 16.59 min Scan# 2215

Delta R.T. -0.01 min

Lab File: VL026261.D

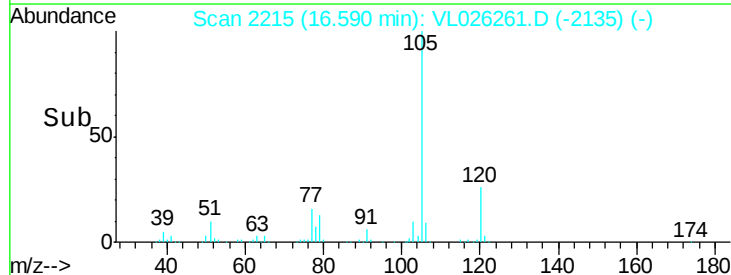
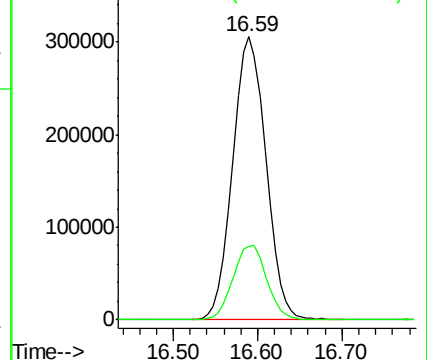
Acq: 29 Oct 2015 10:02

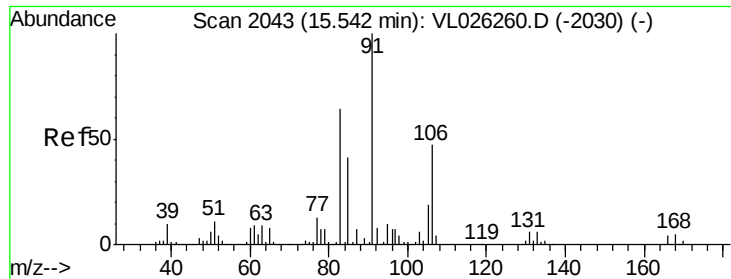
Tgt Ion:	105	Resp:	821158
Ion Ratio	Lower	Upper	
105	100		
120	26.7	21.7	32.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





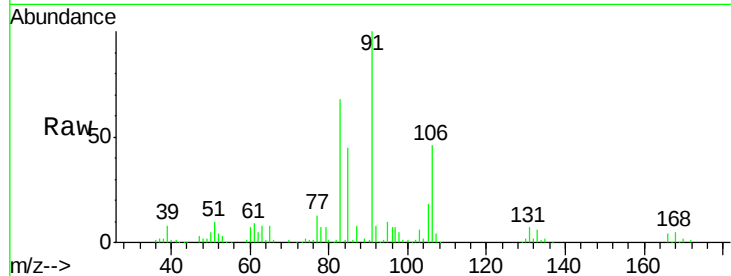
#63
 1,1,2,2-Tetrachloroethane
 Concen: 2.32 ppbv
 RT: 15.53 min Scan# 2041
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
131	9.2	4.6	13.8	
85	65.1	32.4	97.2	

Manual Integrations
 APPROVED

Mmdadoda
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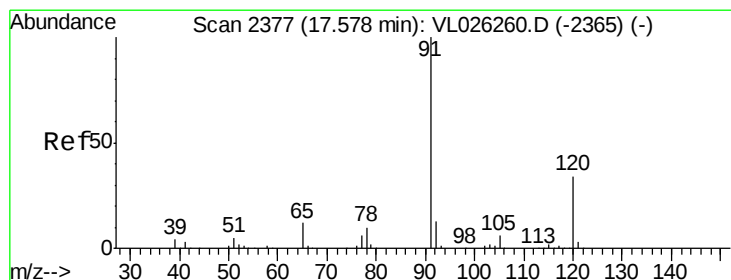
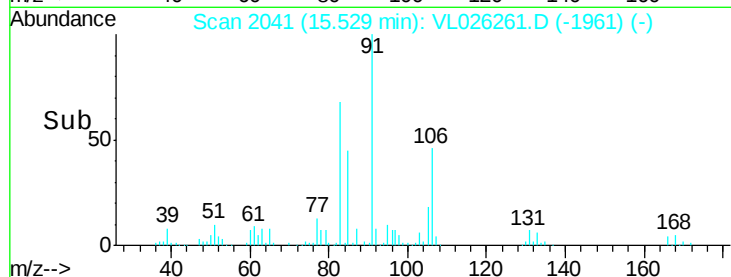
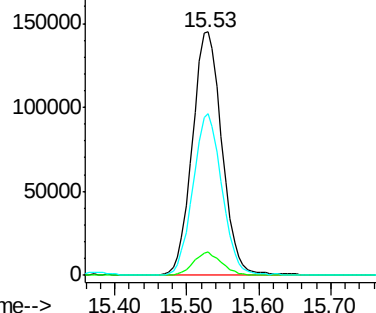


Abundance

Ion 83.00 (82.70 to 83.70): VL0

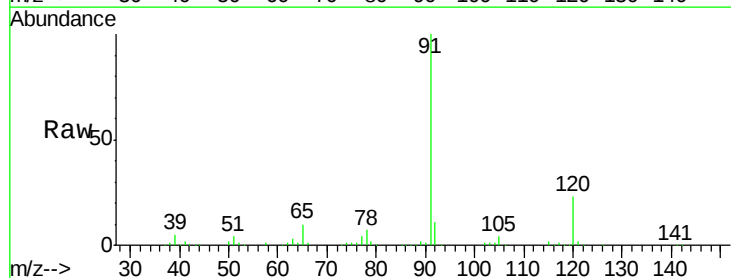
Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64
 n-propylbenzene
 Concen: 2.17 ppbv
 RT: 17.57 min Scan# 2375
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

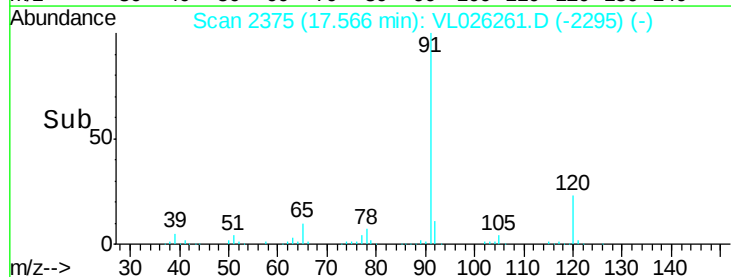
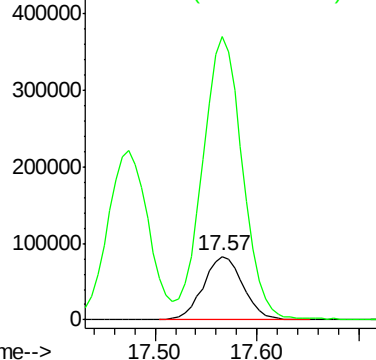
Tgt Ion	Ratio	Resp	Lower	Upper
120	100			
91	454.9	340.8	511.2	

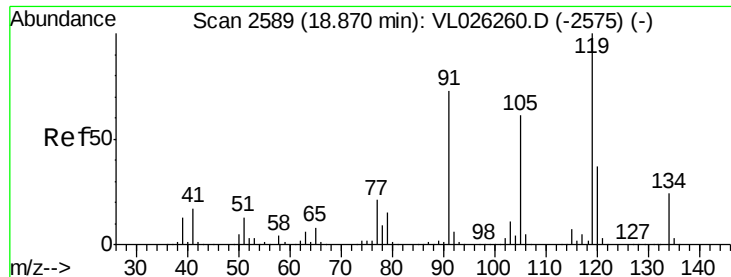


Abundance

Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





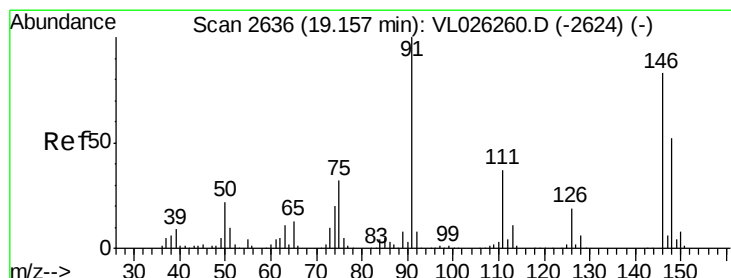
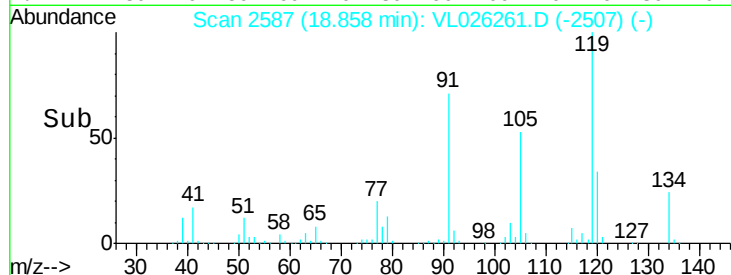
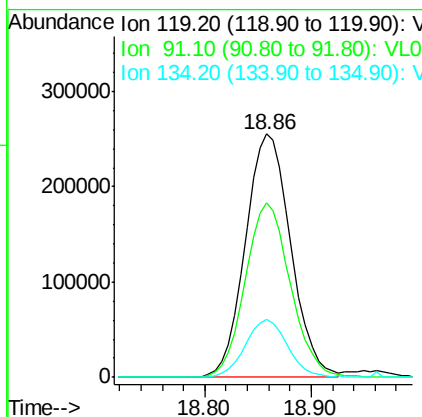
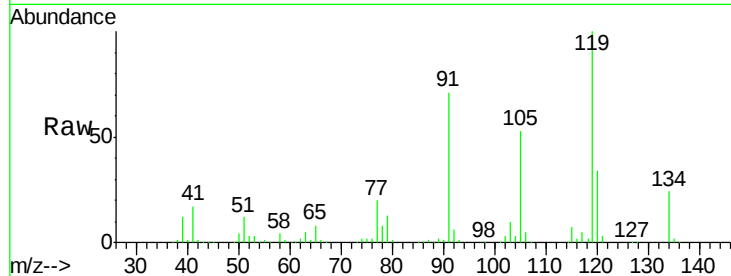
#65
 tert-Butylbenzene
 Concen: 2.23 ppbv
 RT: 18.86 min Scan# 2587
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
91	71.8	57.7	86.5
134	22.2	18.0	27.0

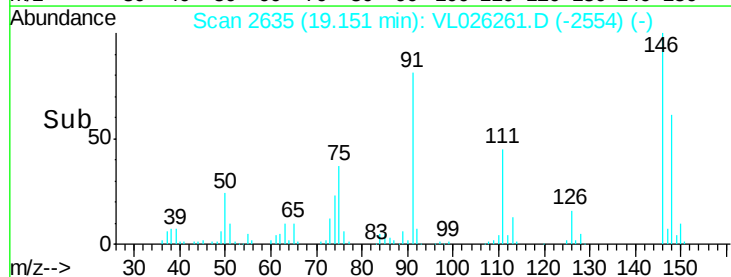
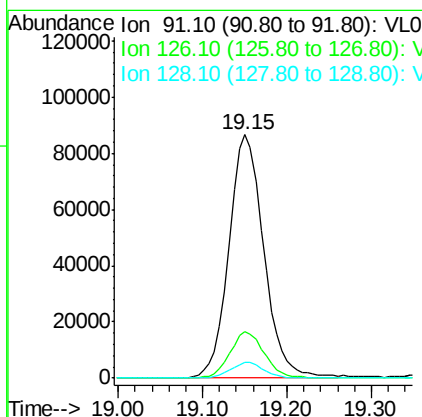
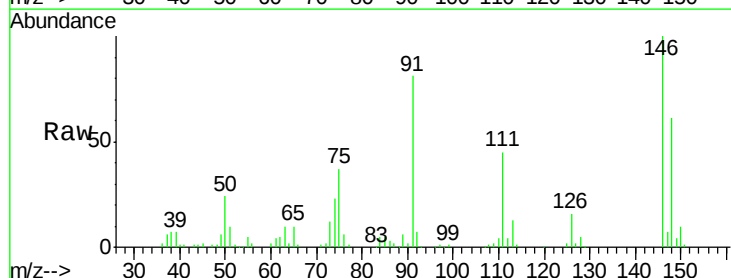
Manual Integrations
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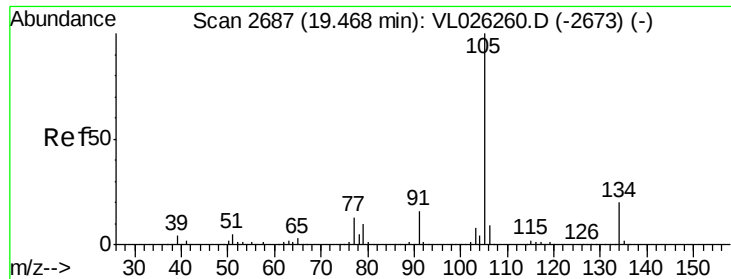
Mmdadoda
 10/30/2015 12:06:31 PM



#66
 Benzyl Chloride
 Concen: 1.77 ppbv
 RT: 19.15 min Scan# 2635
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Tgt Ion	Ratio	Lower	Upper
91	100		
126	18.5	15.8	23.8
128	6.0	5.0	7.6





#67

sec-Butylbenzene

Concen: 2.25 ppbv

RT: 19.46 min Scan# 2685

Delta R.T. -0.01 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 105 Resp: 1074464

Ion Ratio Lower Upper

105 100

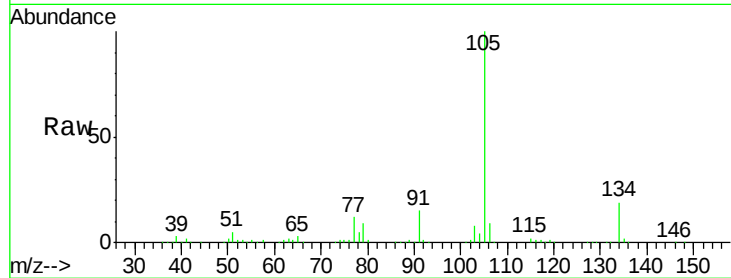
134 19.5 16.0 24.0

Manual Integrations

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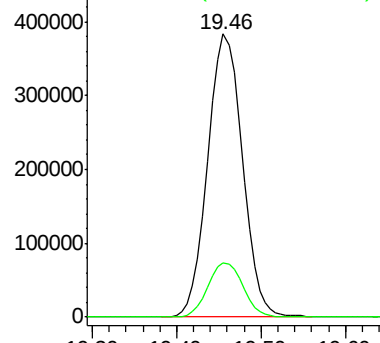
Mmdadoda

10/30/2015 12:06:31 PM

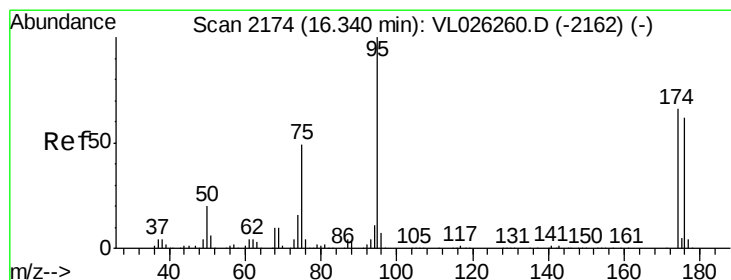
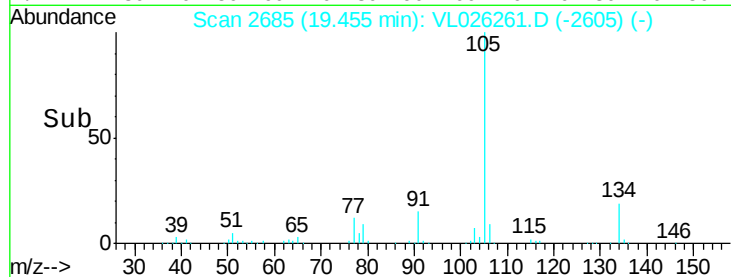


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



Time--> 19.30 19.40 19.50 19.60



#68

1-Bromo-4-Fluorobenzene

Concen: 9.63 ppbv

RT: 16.33 min Scan# 2173

Delta R.T. -0.01 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

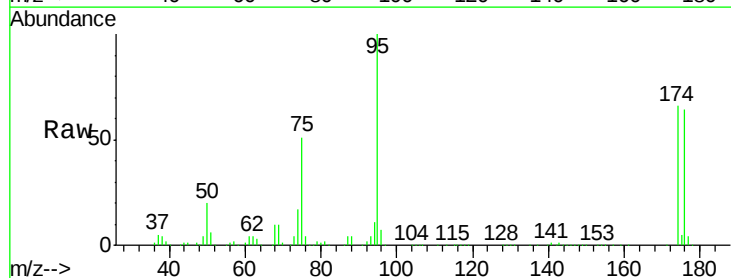
Tgt Ion: 95 Resp: 1506792

Ion Ratio Lower Upper

95 100

174 66.0 52.9 79.3

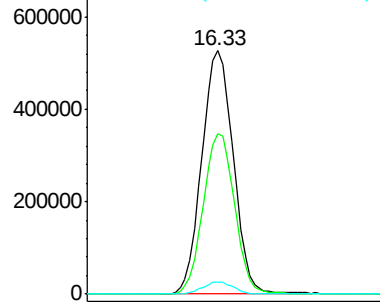
175 4.9 3.8 5.8



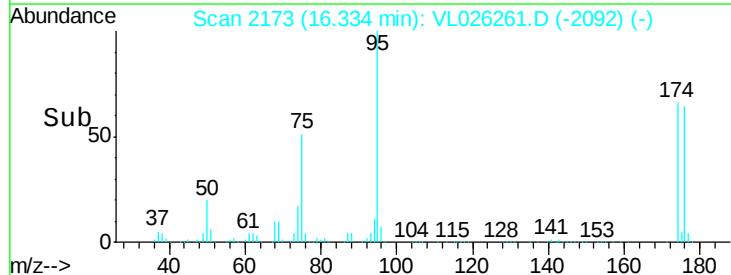
Abundance Ion 95.10 (94.80 to 95.80): VL0

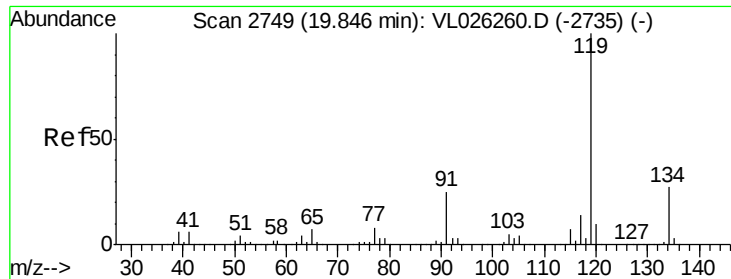
Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



Time--> 16.20 16.30 16.40 16.50





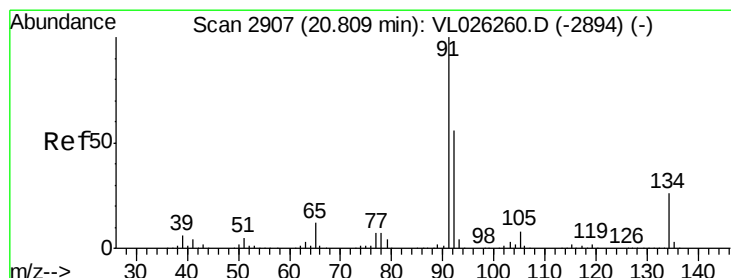
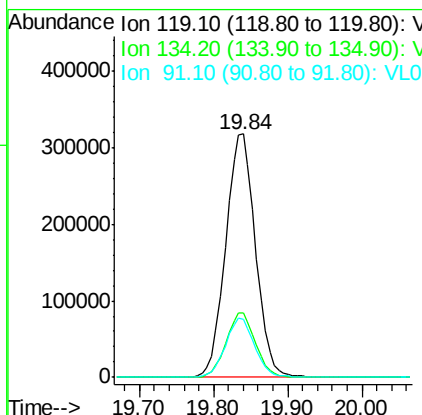
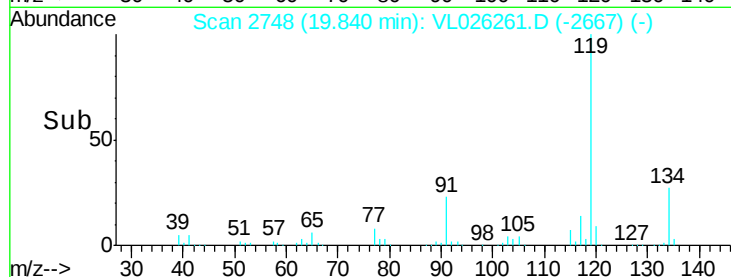
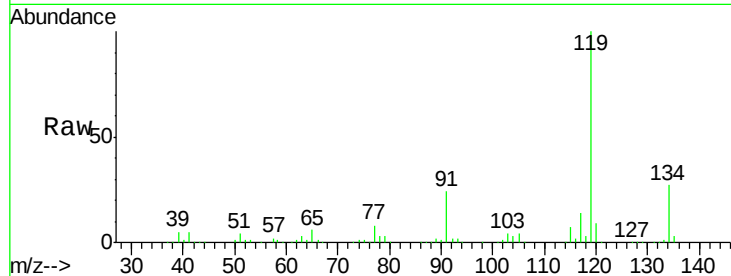
#69
 p-Isopropyltoluene
 Concen: 2.23 ppbv
 RT: 19.84 min Scan# 2748
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
119	100	887666		
134	26.2		21.3	31.9
91	24.0		19.6	29.4

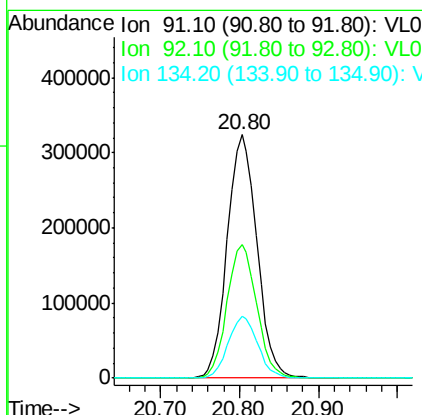
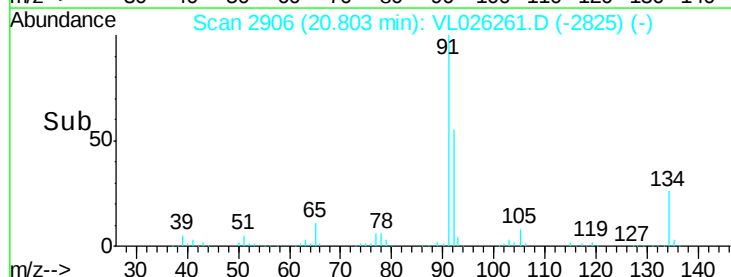
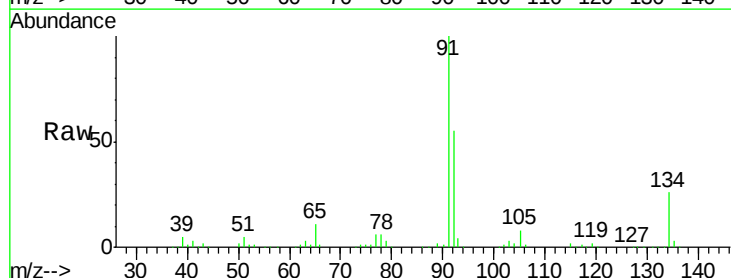
Manual Integrations
 APPROVED

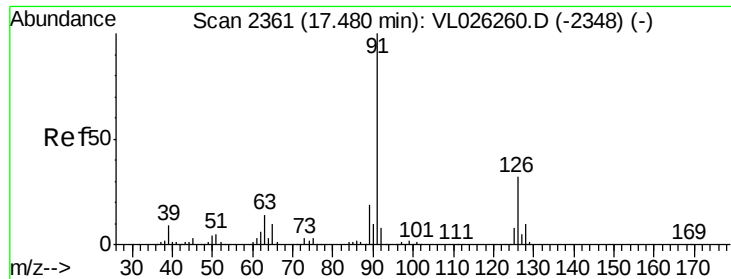
Mmdadoda
 10/30/2015 12:06:31 PM



#70
 n-Butylbenzene
 Concen: 2.33 ppbv
 RT: 20.80 min Scan# 2906
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	851616		
92	54.7		44.9	67.3
134	25.1		20.5	30.7





#71

2-Chlorotoluene

Concen: 2.22 ppbv

RT: 17.47 min Scan# 2360

Delta R.T. -0.01 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 614875

Ion Ratio Lower Upper

91 100

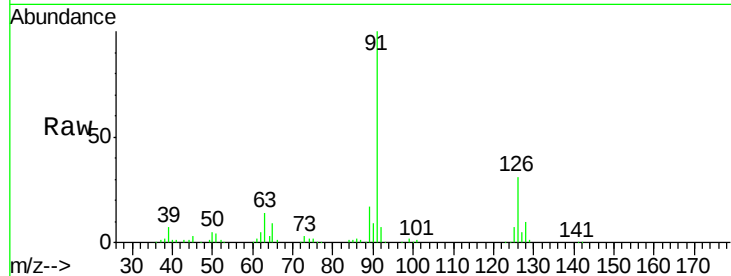
126 31.7 12.8 51.0

Manual Integrations

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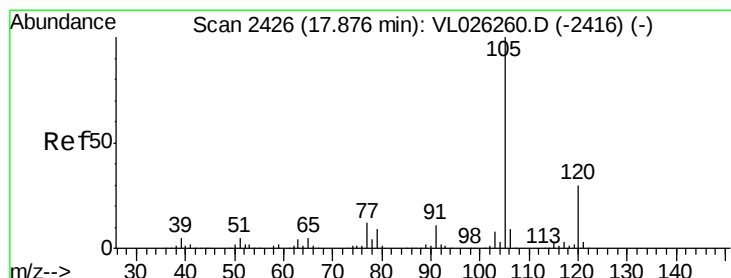
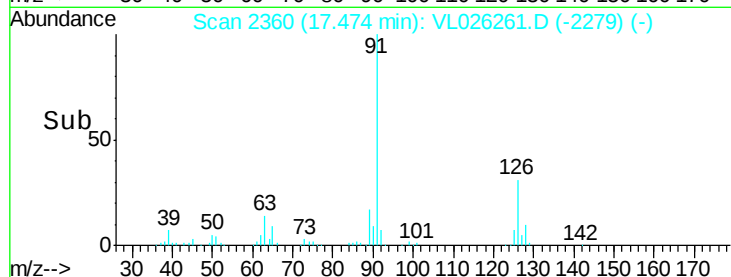
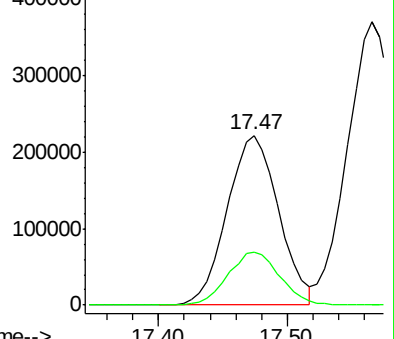
Mmdadoda

10/30/2015 12:06:31 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 2.20 ppbv

RT: 17.86 min Scan# 2424

Delta R.T. -0.01 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Tgt Ion: 105 Resp: 690736

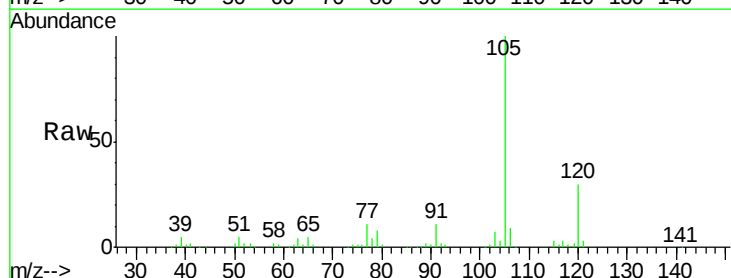
Ion Ratio Lower Upper

105 100

120 31.1 25.1 37.7

91 11.4 9.1 13.7

77 12.0 9.7 14.5

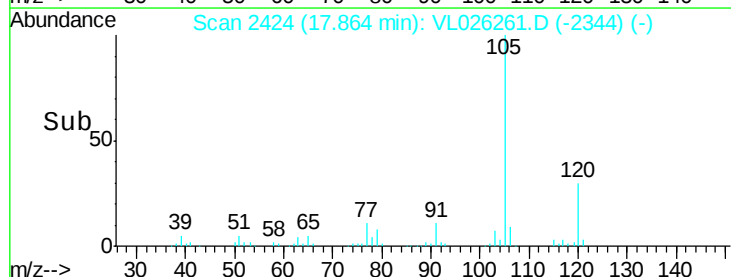
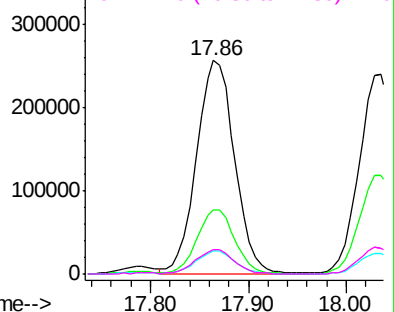


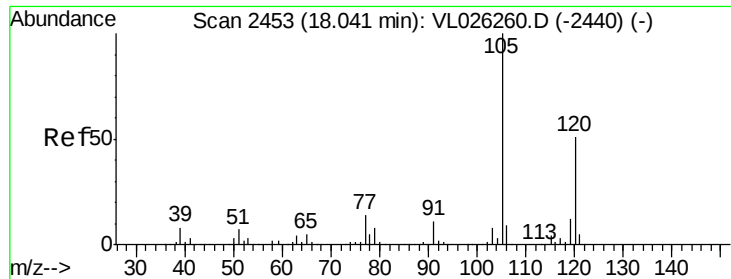
Abundance Ion 105.10 (104.80 to 105.80): V

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





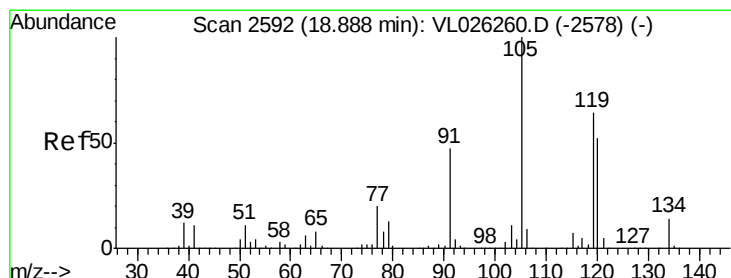
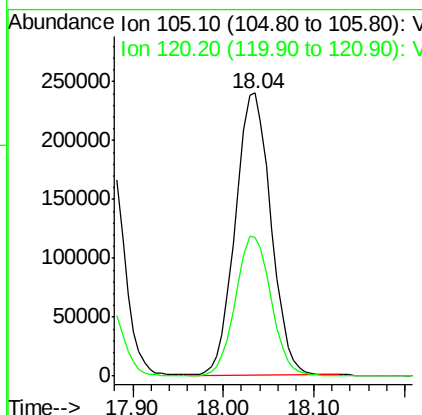
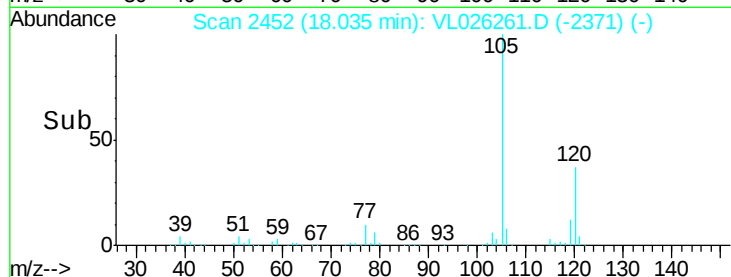
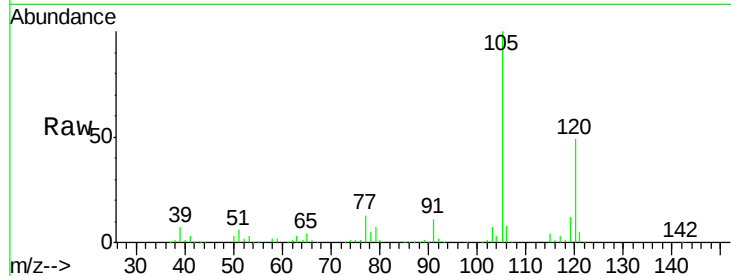
#73
 1,3,5-Trimethylbenzene
 Concen: 2.23 ppbv
 RT: 18.04 min Scan# 2452
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:105 Resp: 652339
 Ion Ratio Lower Upper
 105 100
 120 49.2 40.6 61.0

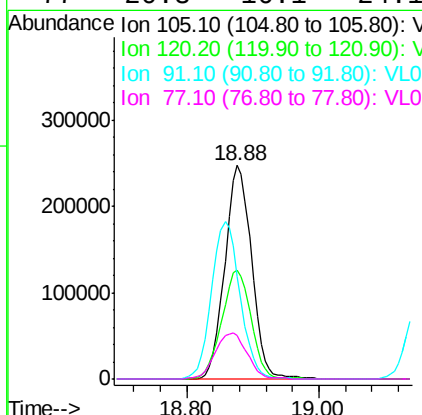
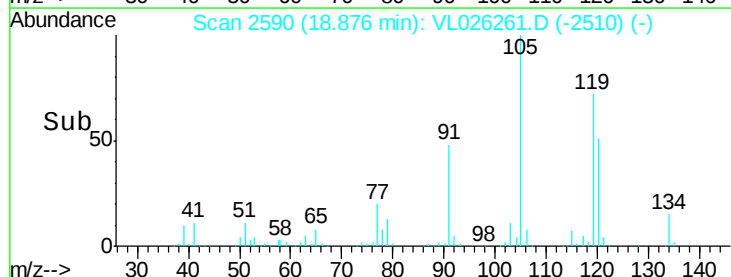
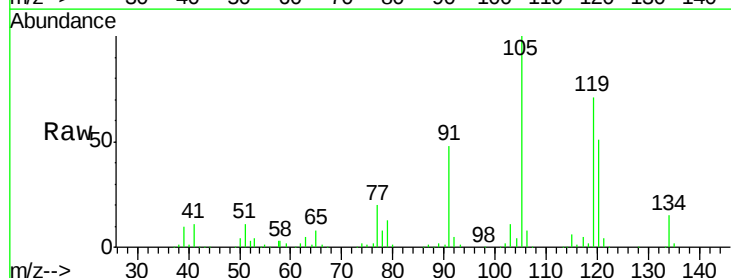
Manual Integrations
 APPROVED

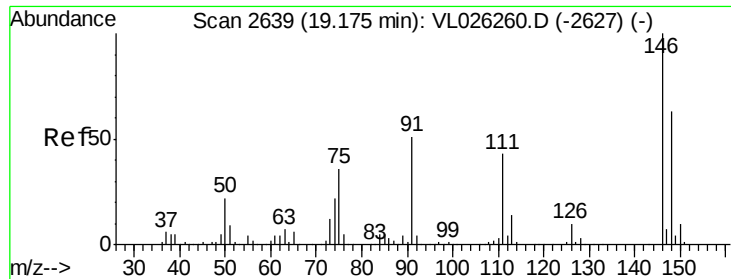
Mmdadoda
 10/30/2015 12:06:31 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 2.29 ppbv
 RT: 18.88 min Scan# 2590
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Tgt Ion:105 Resp: 694680
 Ion Ratio Lower Upper
 105 100
 120 51.2 41.2 61.8
 91 48.1 37.8 56.8
 77 20.3 16.1 24.1





#75

1,3-Dichlorobenzene

Concen: 2.22 ppbv

RT: 19.17 min Scan# 2638

Delta R.T. -0.01 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Instrument :

MSVOA_L

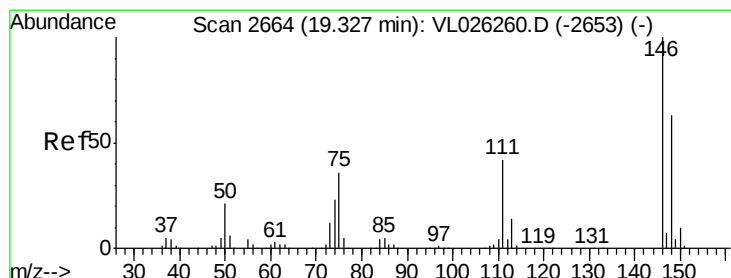
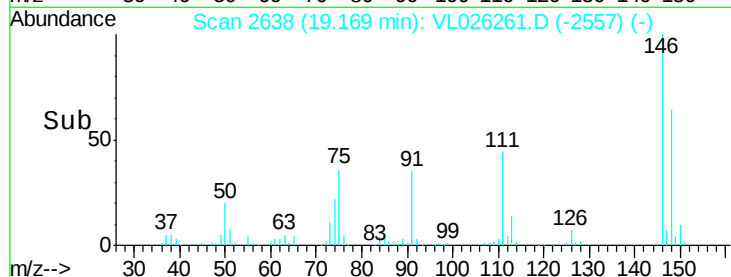
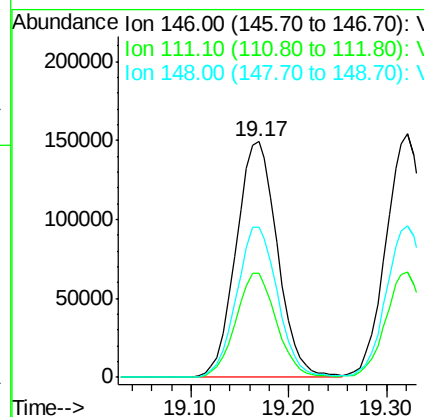
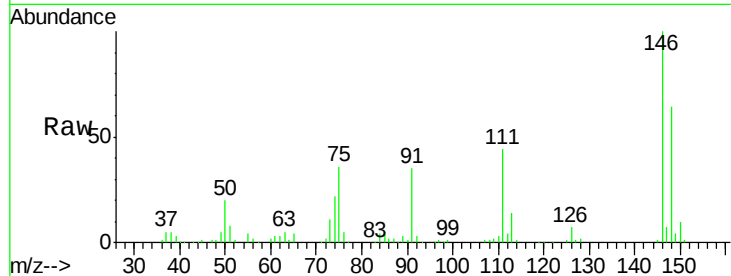
ClientSampleId :

VSTDIC002

Tot Ion:	146	Resp:	438428
Ion Ratio		Lower	Upper
146	100		
111	43.4	21.9	65.5
148	63.1	31.8	95.3

Manual Integrations
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10/30/2015 12:06:31 PM



#76

1,4-Dichlorobenzene

Concen: 2.16 ppbv

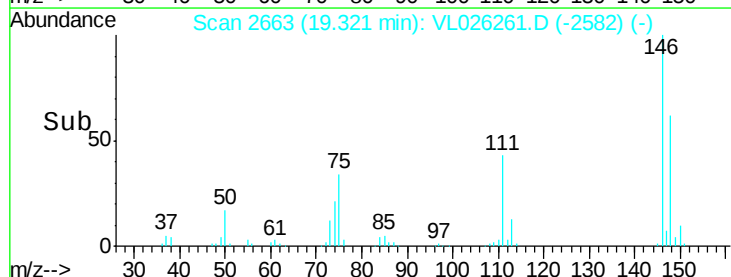
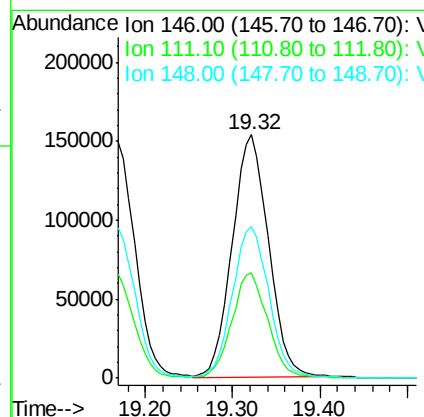
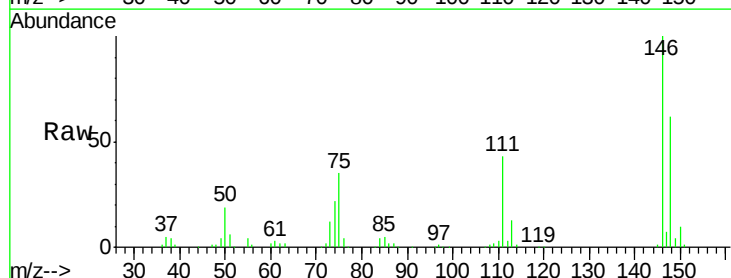
RT: 19.32 min Scan# 2663

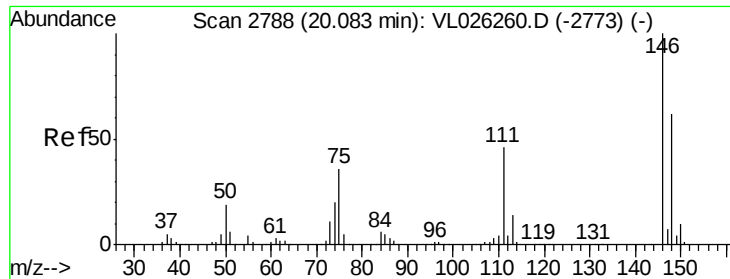
Delta R.T. -0.01 min

Lab File: VL026261.D

Acq: 29 Oct 2015 10:02

Tgt Ion:	146	Resp:	443640
Ion Ratio		Lower	Upper
146	100		
111	43.3	21.1	63.4
148	63.6	31.8	95.3





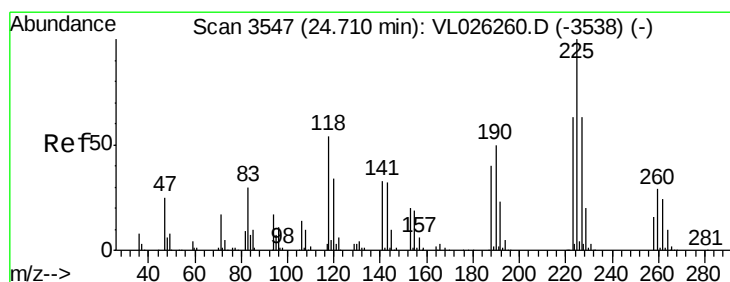
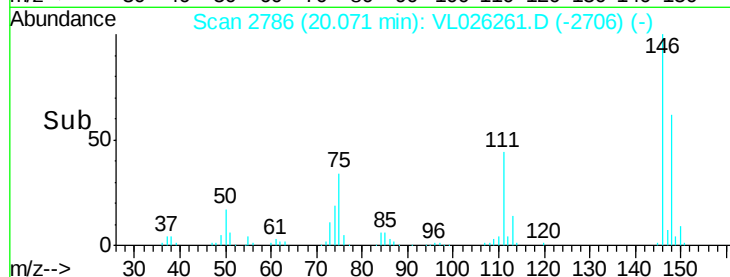
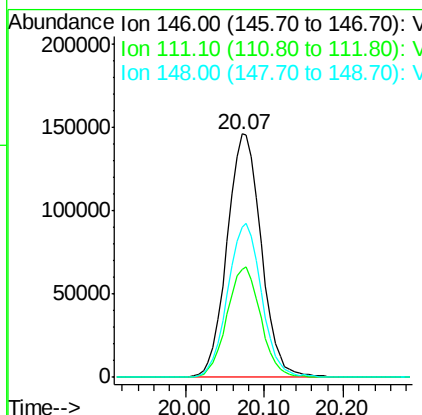
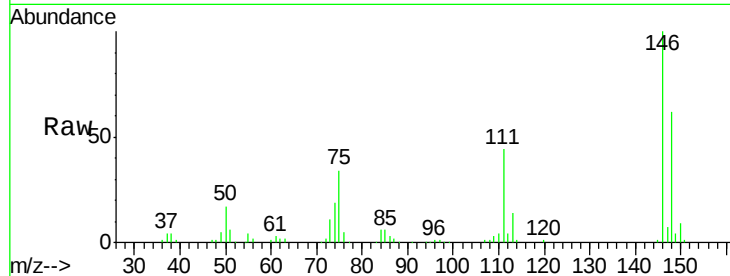
#77
 1,2-Dichlorobenzene
 Concen: 2.22 ppbv
 RT: 20.07 min Scan# 2786
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.7	22.8	68.3
148	62.6	31.6	94.8

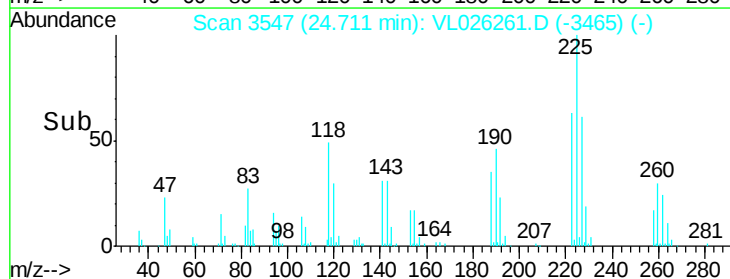
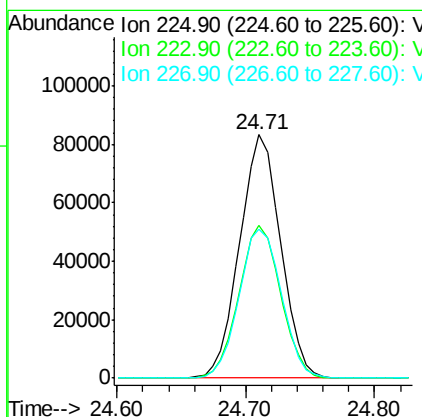
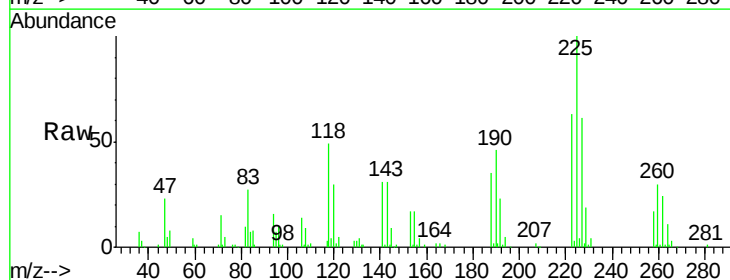
Manual Integrations
 APPROVED

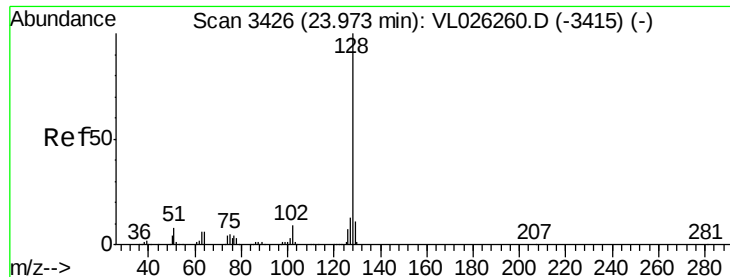
Mmdadoda
 10/30/2015 12:06:31 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.85 ppbv
 RT: 24.71 min Scan# 3547
 Delta R.T. 0.00 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.5	51.0	76.6
227	63.1	51.3	76.9





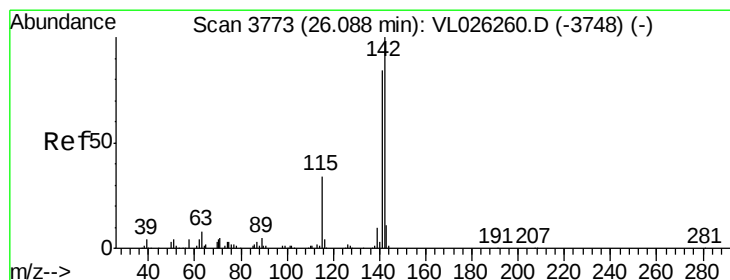
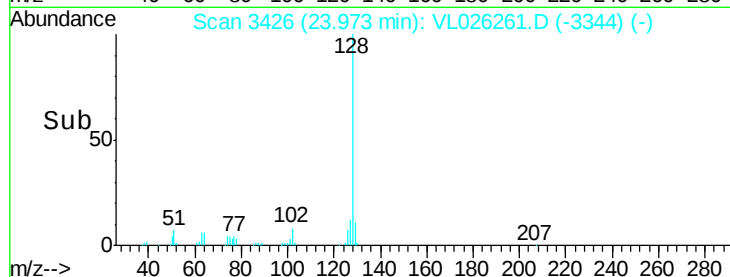
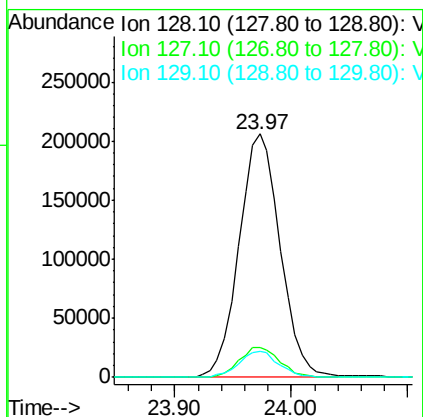
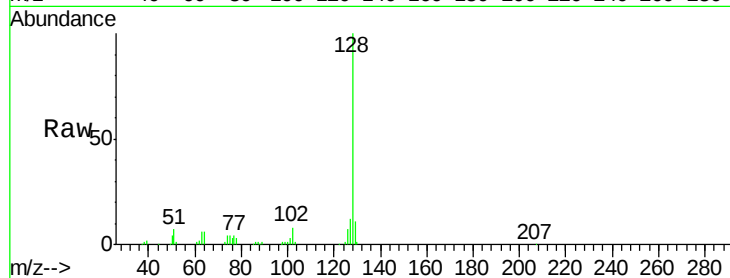
#79
Naphthalene
Concen: 1.95 ppbv
RT: 23.97 min Scan# 3426
Delta R.T. 0.00 min
Lab File: VL026261.D
Acq: 29 Oct 2015 10:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.1	15.1
129	10.9	8.8	13.2

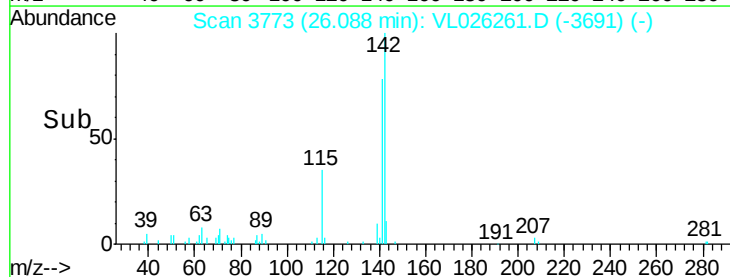
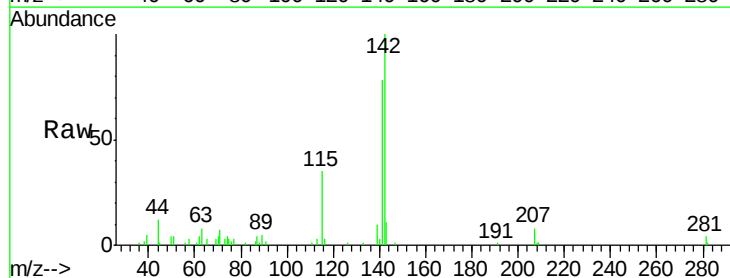
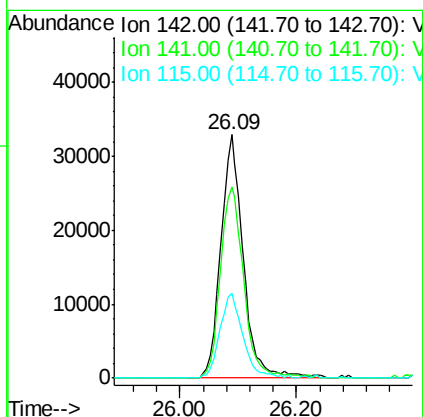
Manual Integrations
APPROVED

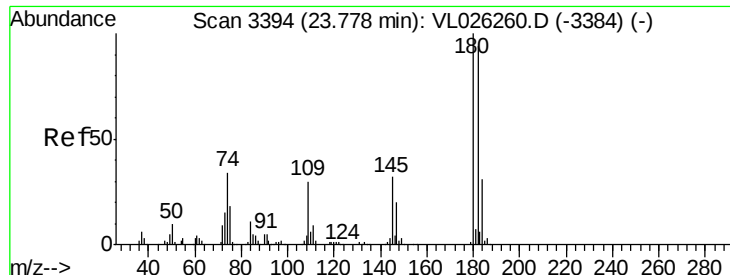
Mmdadoda
10/30/2015 12:06:31 PM



#80
Naphthalene, 2-methyl-
Concen: 2.22 ppbv
RT: 26.09 min Scan# 3773
Delta R.T. 0.00 min
Lab File: VL026261.D
Acq: 29 Oct 2015 10:02

Tgt Ion	Ratio	Lower	Upper
142	100		
141	82.1	66.1	99.1
115	35.8	28.1	42.1





#81
 1,2,4-Trichlorobenzene
 Concen: 2.02 ppbv
 RT: 23.77 min Scan# 3393
 Delta R.T. -0.01 min
 Lab File: VL026261.D
 Acq: 29 Oct 2015 10:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
180	100	254516		
182	94.6		76.0	114.0
184	29.6		24.2	36.4

Manual Integrations
 APPROVED

Mmdadoda
 10/30/2015 12:06:31 PM

