

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102915\
 Data File : VL026266.D
 Acq On : 29 Oct 2015 13:16
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Mmdadoda
 10/30/2015 12:06:35 PM

Quant Time: Oct 29 14:06:32 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 29 14:06:32 2015
 QLast Update : Thu Oct 29 14:04:56 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.70	49	538926	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.37	114	1658978	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.80	117	2088677m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.35	95	1498533	9.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.67	85	1623209	14.45	ppbv	100
3) Chlorodifluoromethane	3.59	51	881683	12.87	ppbv	98
4) Chloromethane	3.78	50	540292	13.97	ppbv	99
5) Vinyl Chloride	3.91	62	546534	12.75	ppbv	98
6) Bromomethane	4.17	94	393277	13.89	ppbv	100
7) Chloroethane	4.26	64	236934	13.99	ppbv	100
8) Dichlorotetrafluoroethane	3.83	85	1295455	13.12	ppbv	99
9) Propene	3.62	41	440723	13.45	ppbv	99
10) Heptane	9.40	43	1502427	13.62	ppbv	98
11) Trichlorofluoromethane	4.72	101	1516732	13.78	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	5.34	101	975742	13.19	ppbv	99
13) Ethanol	4.35	45	63456	14.16	ppbv	93
14) Bromoethene	4.48	108	430152	13.86	ppbv	100
15) Acetone	4.63	43	904317	12.53	ppbv	98
16) 1,3-Butadiene	4.00	39	486322	13.67	ppbv	100
17) tert-Butyl alcohol	5.15	59	763391	14.27	ppbv	100
18) 1,1-Dichloroethene	5.12	96	454468	13.55	ppbv	95
19) Isopropyl Alcohol	4.78	45	461330	15.28	ppbv #	27
20) Methylene Chloride	5.18	84	419393	13.34	ppbv	99
21) Allyl Chloride	5.26	41	709204	13.94	ppbv	98
22) trans-1,2-Dichloroethene	5.80	96	616493	13.85	ppbv	99
23) Vinyl Acetate	6.02	43	2033647	14.68	ppbv	99
24) 1,1-Dichloroethane	5.95	63	1294368	13.63	ppbv	99
25) Ethyl Acetate	6.71	43	2005182	13.35	ppbv	100
26) Hexane	6.70	57	976337	13.24	ppbv	99
27) Carbon Disulfide	5.42	76	1280500	14.44	ppbv	98
28) Methyl tert-Butyl Ether	5.99	73	1784952	13.75	ppbv	100
29) Chloroform	6.79	83	1505731	13.83	ppbv	100
30) Cyclohexane	8.32	84	998993	13.79	ppbv	99
31) cis-1,2-Dichloroethene	6.56	61	966055	14.32	ppbv	99
32) 1,1,1-Trichloroethane	7.64	97	1544318	12.79	ppbv	99
34) 2-Butanone	6.23	43	1318524	13.23	ppbv	100
35) Carbon Tetrachloride	8.21	117	1590538	12.62	ppbv	98
36) Benzene	8.07	78	2259972	12.85	ppbv	98
37) 1,2-Dichloroethane	7.42	62	1223449	13.48	ppbv	99
38) Trichloroethene	9.11	130	860165	10.12	ppbv	98
39) 1,2-Dichloropropane	8.87	63	825413	12.97	ppbv	98
40) 1,4-Dioxane	9.16	88	204969	23.59	ppbv	69
41) Tetrahydrofuran	7.16	42	790682	13.76	ppbv	100
42) Bromodichloromethane	9.07	83	1652112	13.51	ppbv	100
43) Methyl Methacrylate	9.31	69	879516	14.07	ppbv	99

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.13	57	3426350	11.94	ppbv	99
45) t-1,3-Dichloropropene	10.70	75	1342084	15.07	ppbv	99
46) cis-1,3-Dichloropropene	10.07	75	1532728	14.20	ppbv	99
47) 1,1,2-Trichloroethane	10.93	97	1004808	12.93	ppbv	99
48) Dibromochloromethane	11.85	129	1581031	14.07	ppbv	100
49) Bromoform	14.87	173	1266225	14.27	ppbv	100
50) 4-Methyl-2-Pentanone	10.13	43	1840525	13.75	ppbv	99
51) 2-Hexanone	11.66	43	1778123	14.57	ppbv #	100
52) Tetrachloroethene	12.84	164	954071	10.66	ppbv	98
53) Toluene	11.29	91	2980950	12.98	ppbv	100
54) 1,2-Dibromoethane	12.19	107	1532160	12.99	ppbv	99
56) 1,1,1,2-Tetrachloroethane	13.84	131	1106358	12.04	ppbv	90
57) Chlorobenzene	13.87	112	2346233	11.32	ppbv	98
58) Ethyl Benzene	14.47	91	4153888	12.11	ppbv	100
59) m/p-Xylene	14.77	91	6266698	23.03	ppbv #	100
60) o-Xylene	15.55	91	3169888	11.13	ppbv	100
61) Styrene	15.36	104	1654218	13.62	ppbv	99
62) Isopropylbenzene	16.60	105	4536483	11.72	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.54	83	2127375	10.63	ppbv	100
64) n-propylbenzene	17.58	120	1260006	11.94	ppbv	100
65) tert-Butylbenzene	18.87	119	3853892	11.02	ppbv	99
66) Benzyl Chloride	19.16	91	1623045	14.45	ppbv	99
67) sec-Butylbenzene	19.47	105	5685318	11.49	ppbv	100
69) p-Isopropyltoluene	19.85	119	4680084	11.57	ppbv	99
70) n-Butylbenzene	20.81	91	4478341	11.69	ppbv	100
71) 2-Chlorotoluene	17.49	91	3455107	12.13	ppbv	100
72) 4-Ethyltoluene	17.88	105	3899580	12.16	ppbv	100
73) 1,3,5-Trimethylbenzene	18.05	105	3627629	12.00	ppbv	100
74) 1,2,4-Trimethylbenzene	18.89	105	3497526	11.08	ppbv	96
75) 1,3-Dichlorobenzene	19.18	146	2329483	11.33	ppbv	100
76) 1,4-Dichlorobenzene	19.33	146	2430520	11.59	ppbv	100
77) 1,2-Dichlorobenzene	20.08	146	2364809	11.51	ppbv	99
78) Hexachloro-1,3-Butadiene	24.72	225	842076	9.80	ppbv	100
79) Naphthalene	23.97	128	2752578	11.63	ppbv	100
80) Naphthalene, 2-methyl-	26.09	142	683555	17.08	ppbv	97
81) 1,2,4-Trichlorobenzene	23.78	180	1282716	11.03	ppbv	100

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

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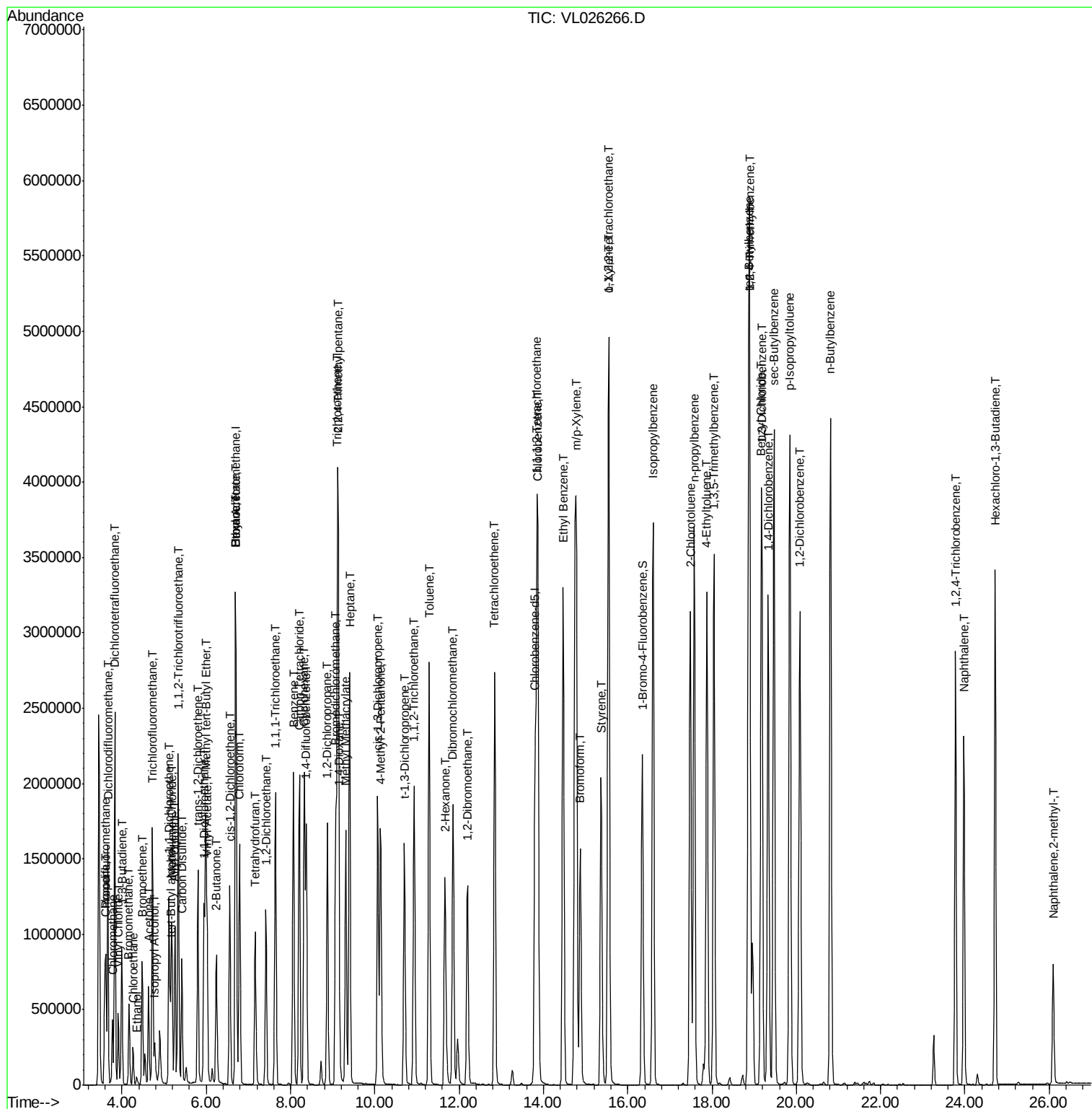
Quant Time: Oct 29 14:06:32 2015

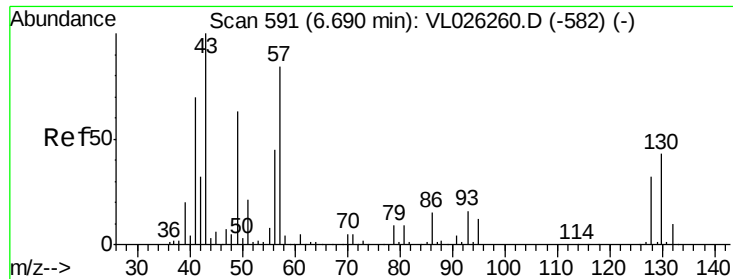
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102915AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct

QLast Update : Thu Oct 29 14:04:56 2015

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.70 min Scan# 592

Delta R.T. 0.01 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

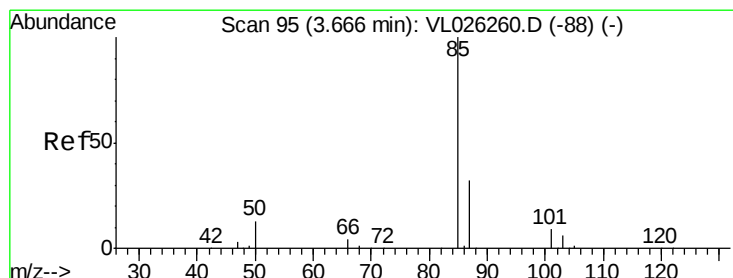
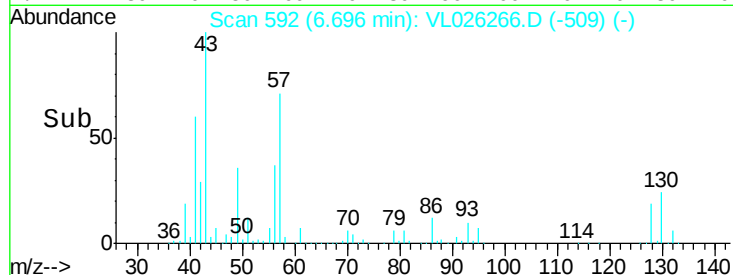
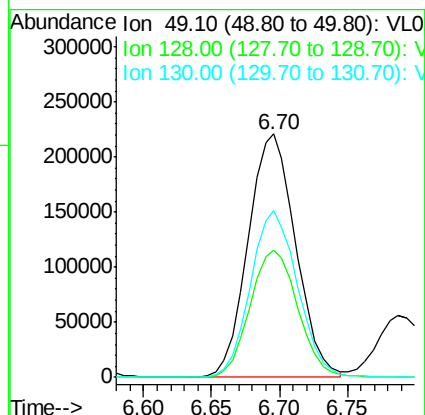
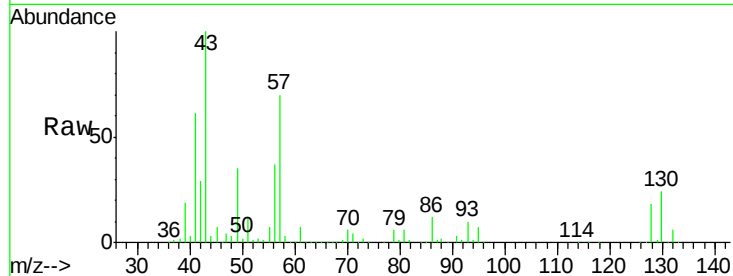
ClientSampleId :

VSTDIC015

Tot Ion	Ratio	Lower	Upper
49	100		
128	53.0	26.7	80.1
130	68.3	34.4	103.2

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 14.45 ppbv

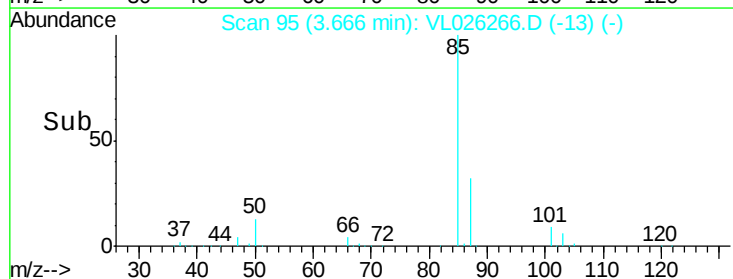
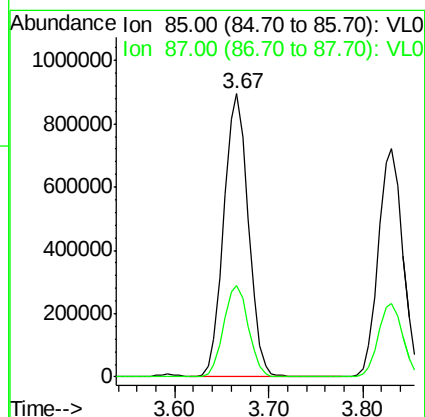
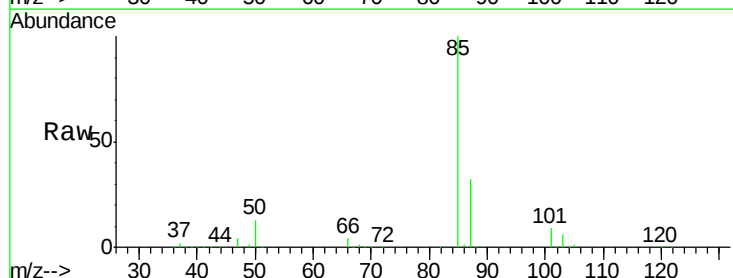
RT: 3.67 min Scan# 95

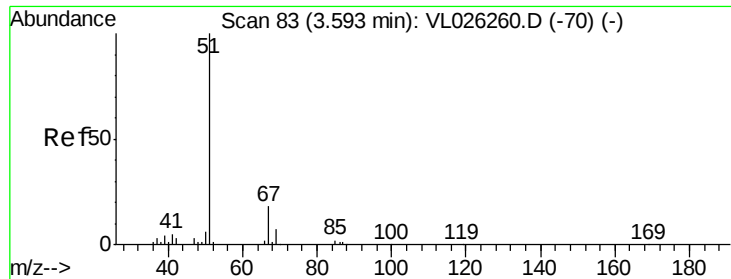
Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.3	25.9	38.9





#3

Chlorodifluoromethane

Concen: 12.87 ppbv

RT: 3.59 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 881683

Ion Ratio Lower Upper

51 100

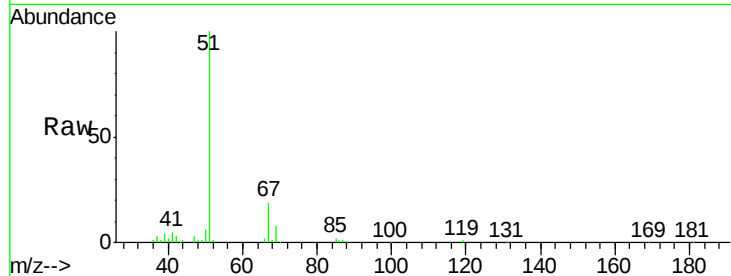
67 19.0 14.5 21.7

Manual Integrations

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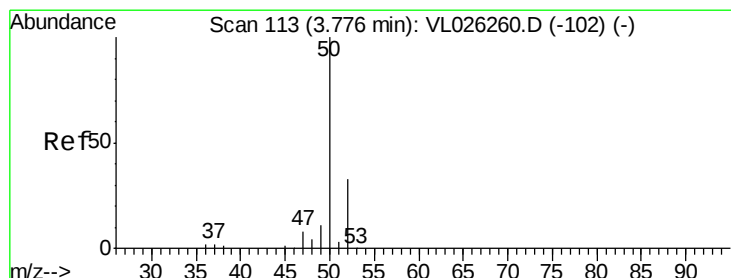
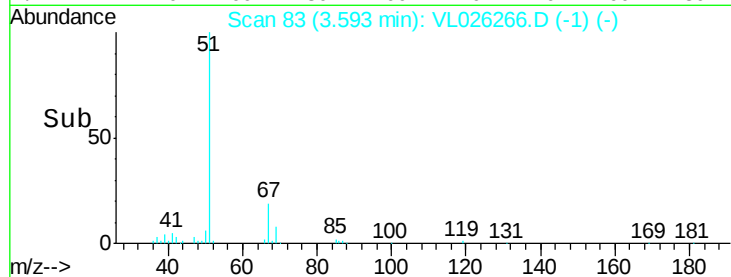
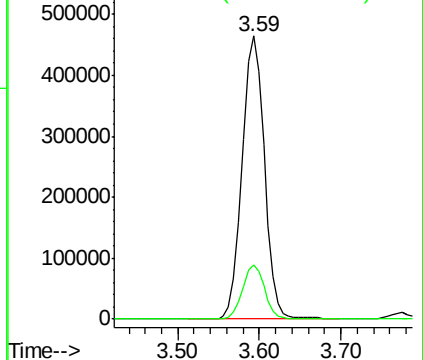
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 13.97 ppbv

RT: 3.78 min Scan# 113

Delta R.T. 0.00 min

Lab File: VL026266.D

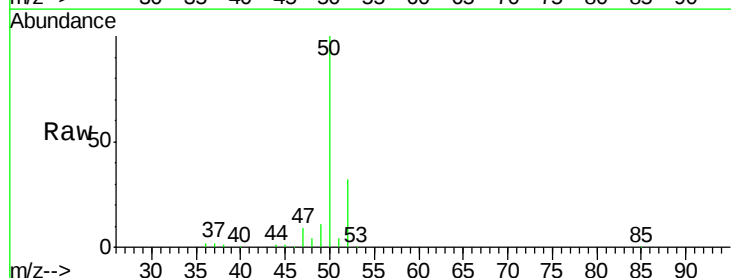
Acq: 29 Oct 2015 13:16

Tgt Ion: 50 Resp: 540292

Ion Ratio Lower Upper

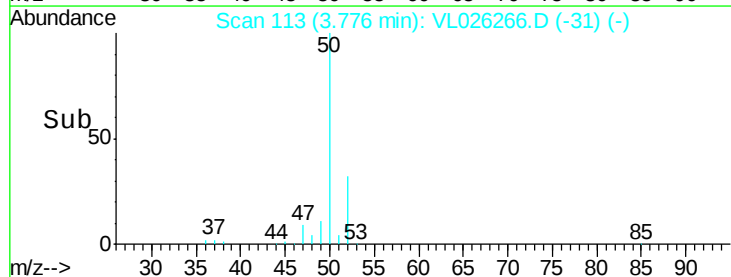
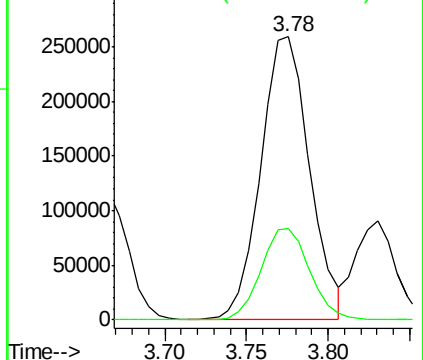
50 100

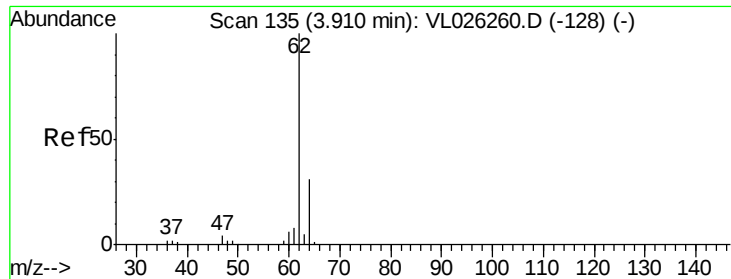
52 32.3 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 12.75 ppbv

RT: 3.91 min Scan# 135

Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 546534

Ion Ratio Lower Upper

62 100

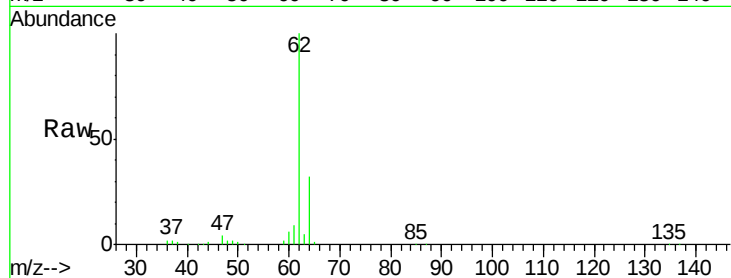
64 31.9 24.9 37.3

Manual Integrations

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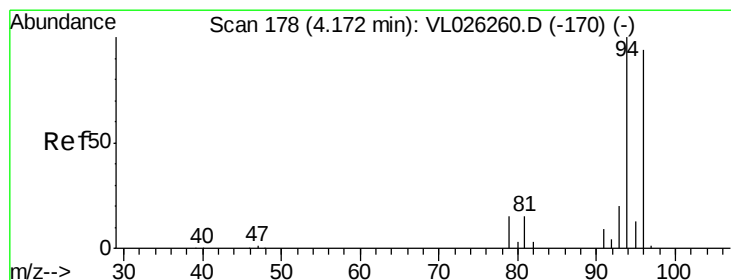
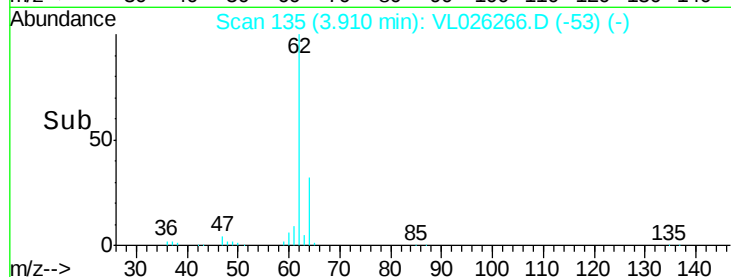
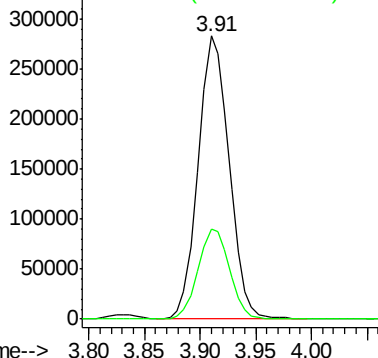
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 13.89 ppbv

RT: 4.17 min Scan# 177

Delta R.T. -0.01 min

Lab File: VL026266.D

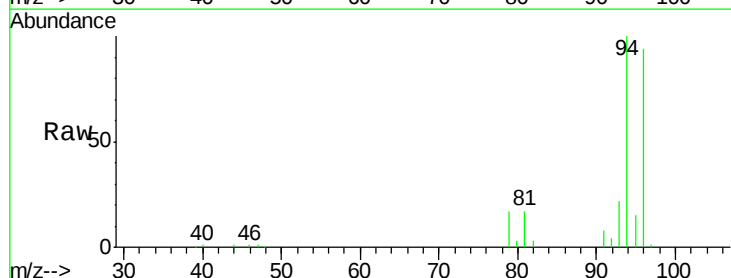
Acq: 29 Oct 2015 13:16

Tgt Ion: 94 Resp: 393277

Ion Ratio Lower Upper

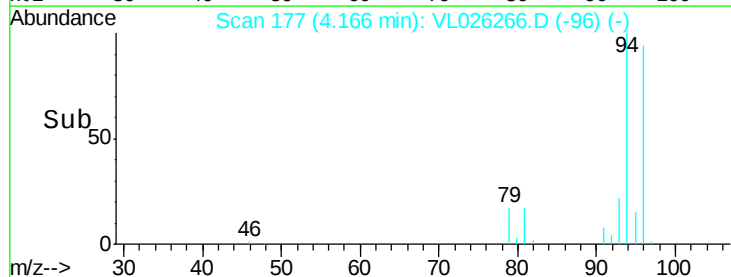
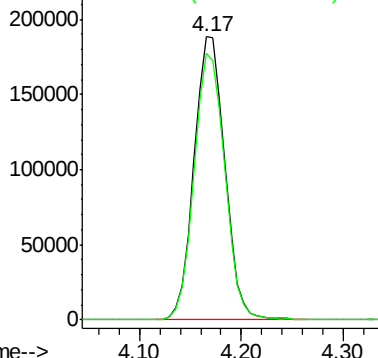
94 100

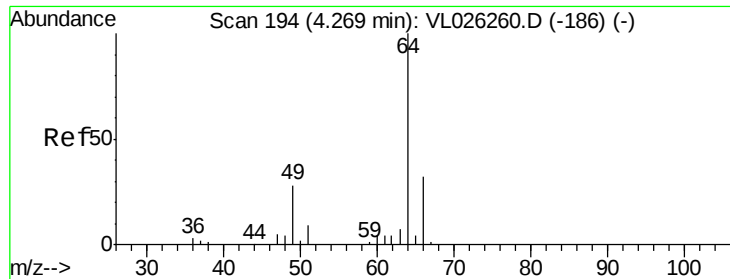
96 94.2 75.5 113.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 13.99 ppbv

RT: 4.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 236934

Ion Ratio Lower Upper

64 100

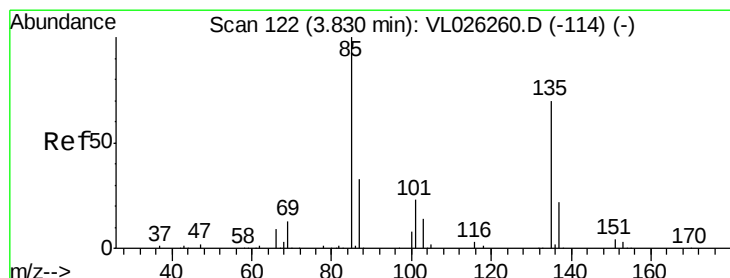
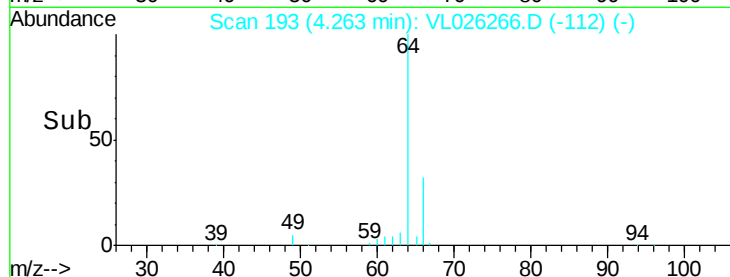
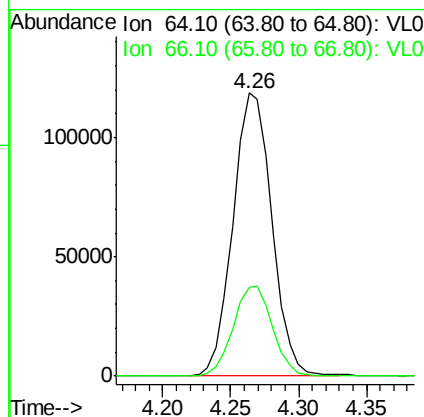
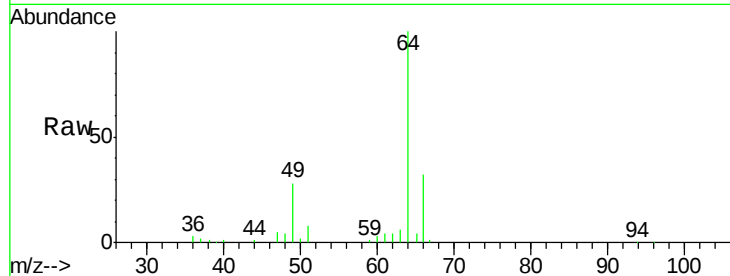
66 31.5 25.2 37.8

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 13.12 ppbv

RT: 3.83 min Scan# 122

Delta R.T. 0.00 min

Lab File: VL026266.D

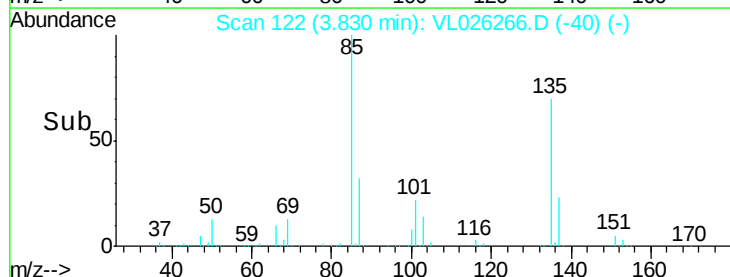
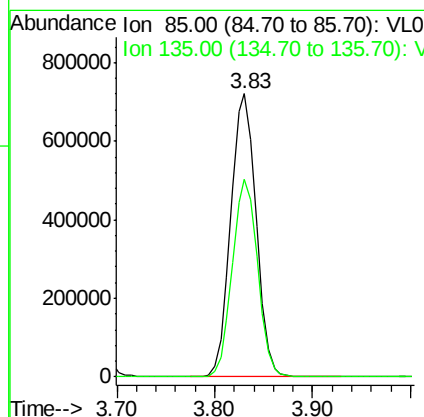
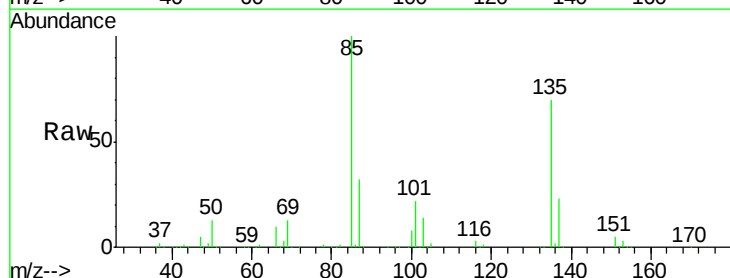
Acq: 29 Oct 2015 13:16

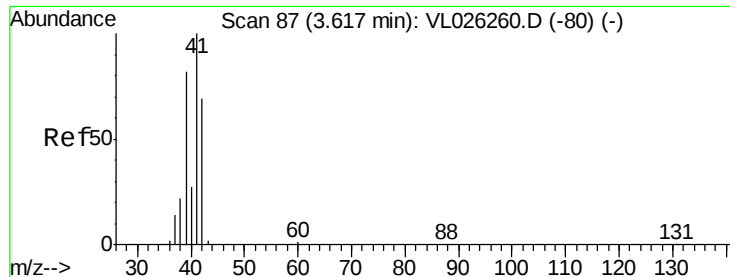
Tgt Ion: 85 Resp: 1295455

Ion Ratio Lower Upper

85 100

135 70.0 56.6 84.8





#9

Propene

Concen: 13.45 ppbv

RT: 3.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 440723

Ion Ratio Lower Upper

41 100

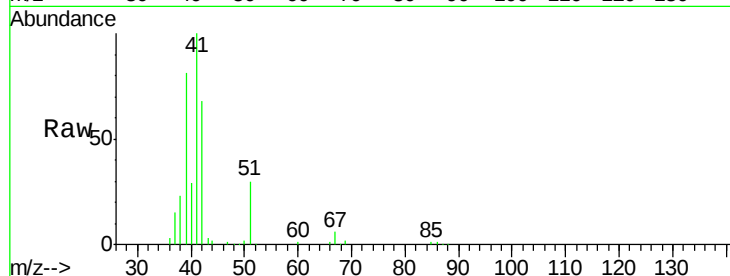
42 67.2 54.5 81.7

Manual Integrations

APPROVED

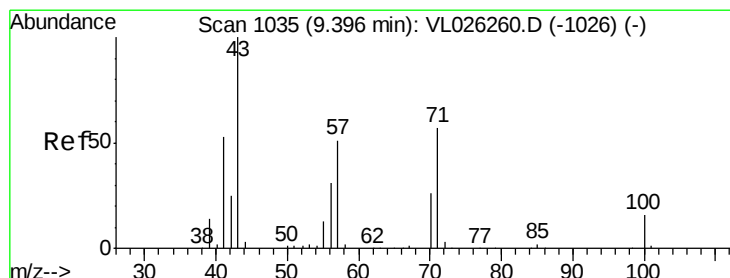
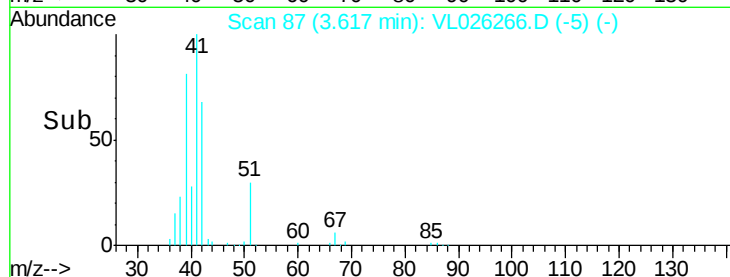
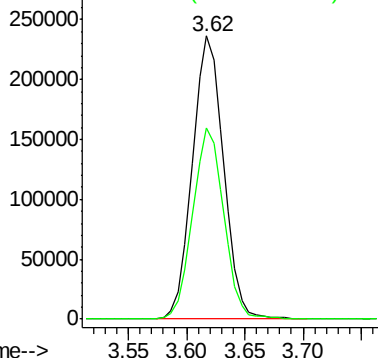
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 13.62 ppbv

RT: 9.40 min Scan# 1036

Delta R.T. 0.01 min

Lab File: VL026266.D

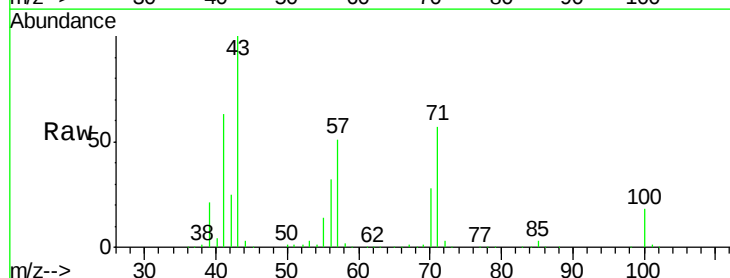
Acq: 29 Oct 2015 13:16

Tgt Ion: 43 Resp: 1502427

Ion Ratio Lower Upper

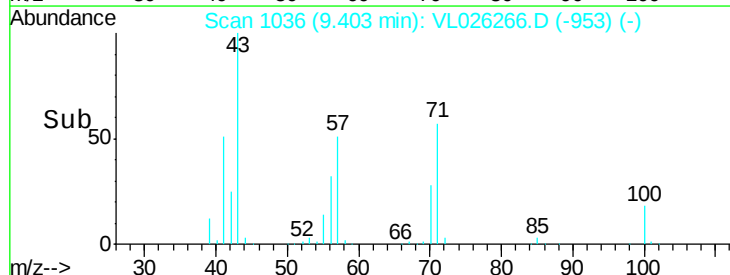
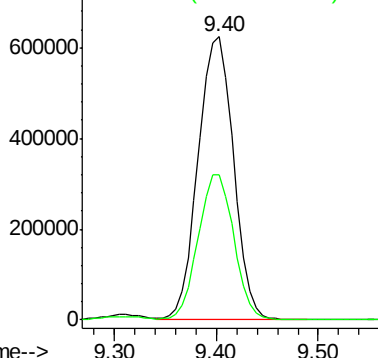
43 100

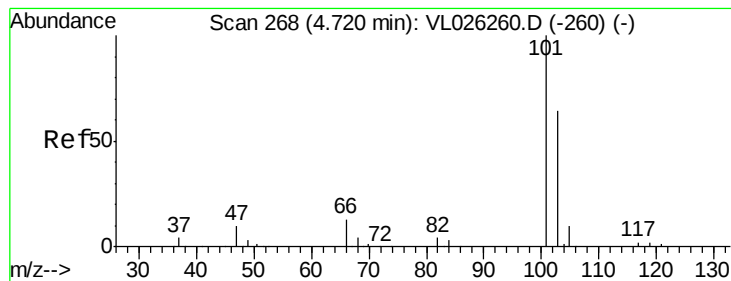
57 52.8 41.1 61.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 13.78 ppbv

RT: 4.72 min Scan# 268

Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:101 Resp: 1516732

Ion Ratio Lower Upper

101 100

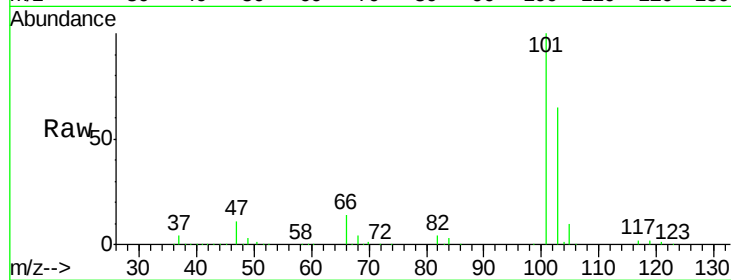
103 65.2 51.4 77.0

Manual Integrations

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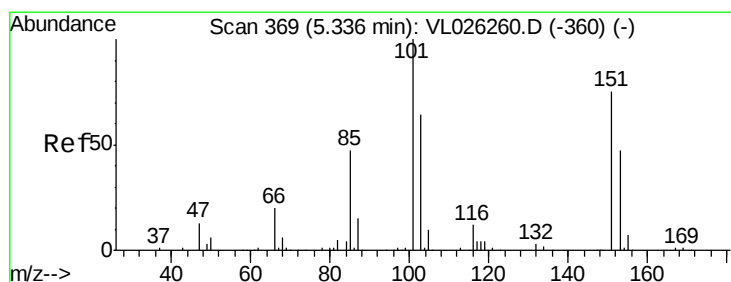
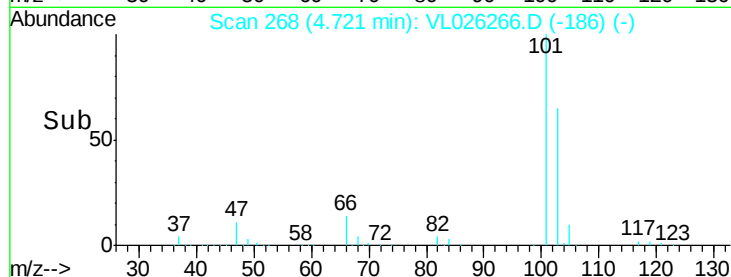
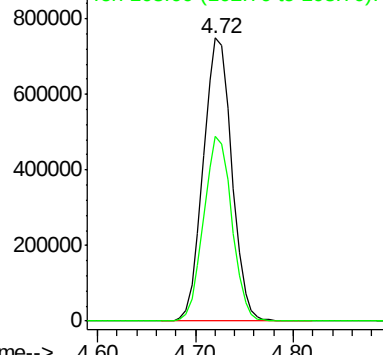
Mmdadoda

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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: 13.19 ppbv

RT: 5.34 min Scan# 369

Delta R.T. 0.00 min

Lab File: VL026266.D

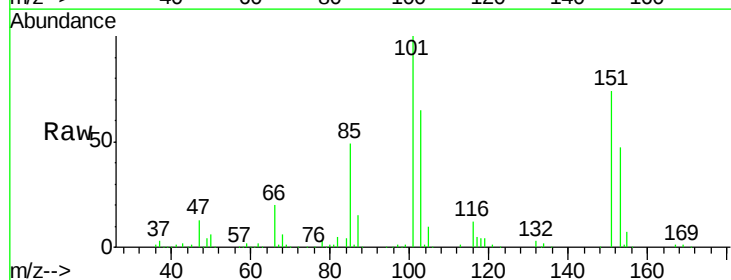
Acq: 29 Oct 2015 13:16

Tgt Ion:101 Resp: 975742

Ion Ratio Lower Upper

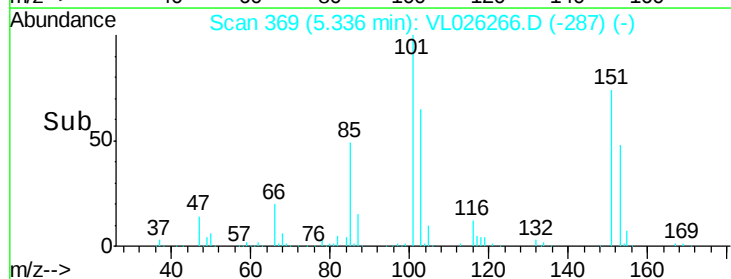
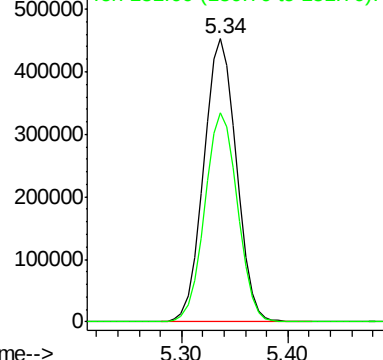
101 100

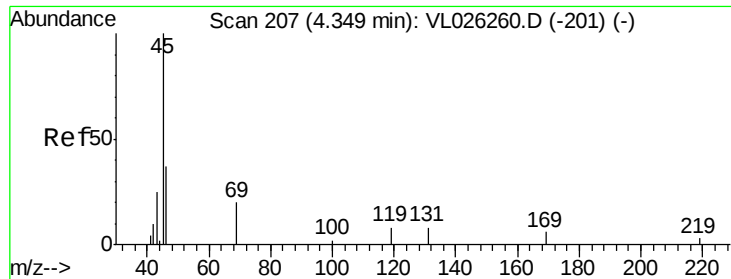
151 74.5 60.3 90.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 14.16 ppbv

RT: 4.35 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 63456

Ion Ratio Lower Upper

45 100

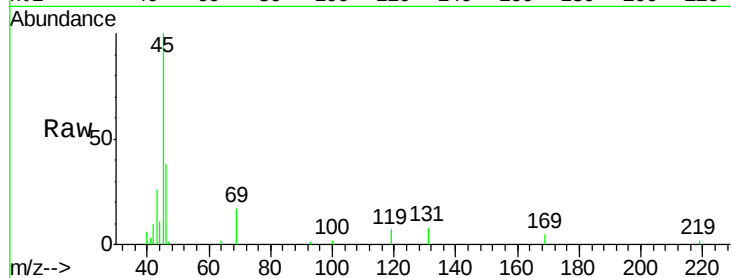
46 38.2 17.0 68.0

Manual Integrations

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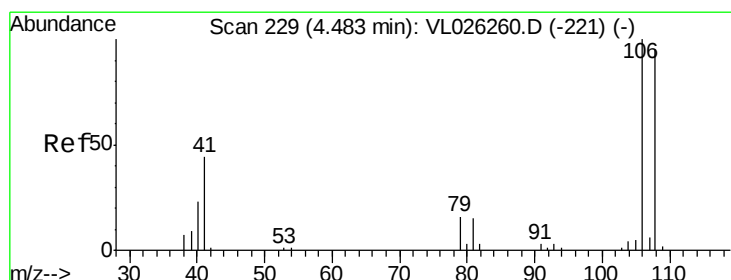
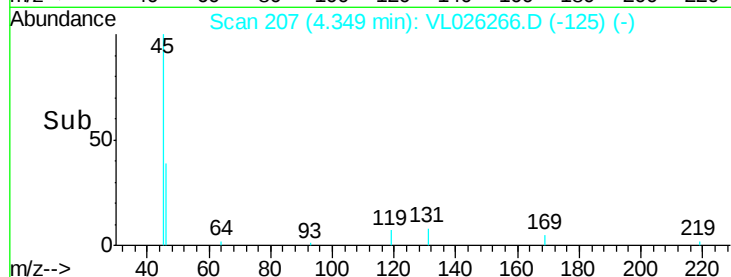
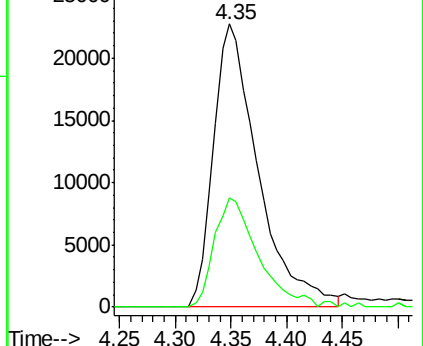
Mmdadoda

10/30/2015 12:06:35 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 13.86 ppbv

RT: 4.48 min Scan# 228

Delta R.T. -0.01 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

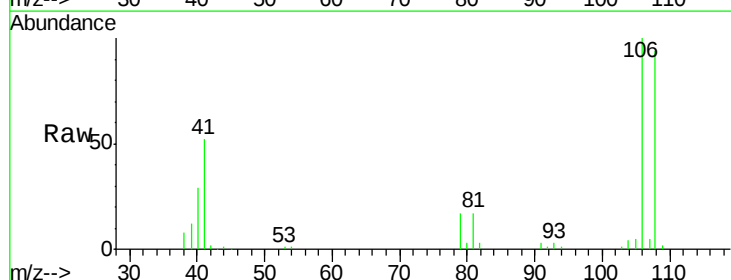
Tgt Ion: 108 Resp: 430152

Ion Ratio Lower Upper

108 100

106 106.4 85.4 128.0

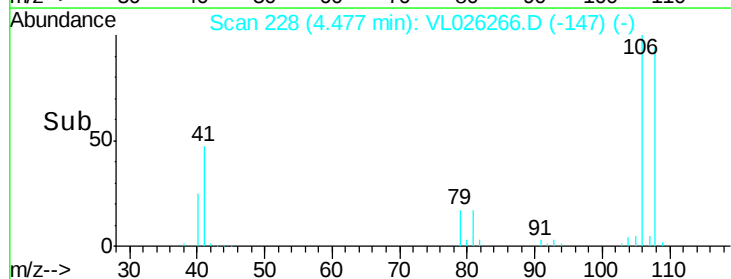
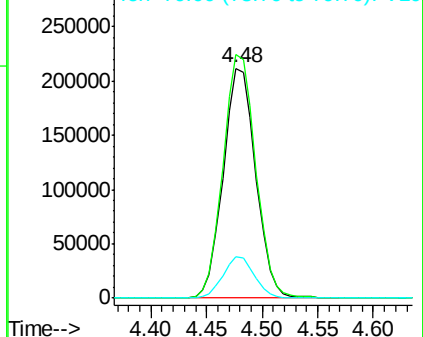
79 17.5 13.5 20.3

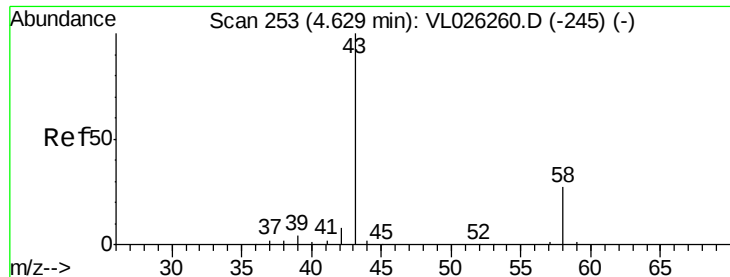


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 12.53 ppbv

RT: 4.63 min Scan# 253

Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Tot Ion: 43 Resp: 904317

Ion Ratio Lower Upper

43 100

58 27.0 22.3 33.5

Instrument :

MSVOA_L

ClientSampleId :

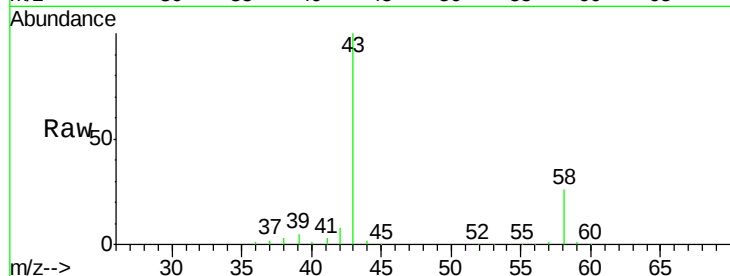
VSTDIC015

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

4.63

400000

300000

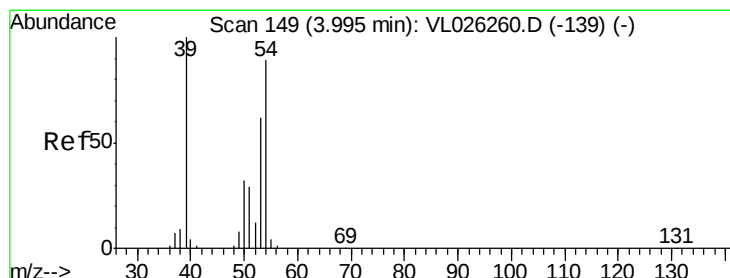
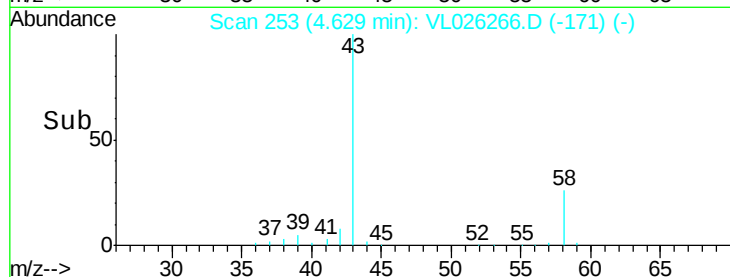
200000

100000

0

Time-->

4.55 4.60 4.65 4.70 4.75



#16

1,3-Butadiene

Concen: 13.67 ppbv

RT: 4.00 min Scan# 149

Delta R.T. 0.00 min

Lab File: VL026266.D

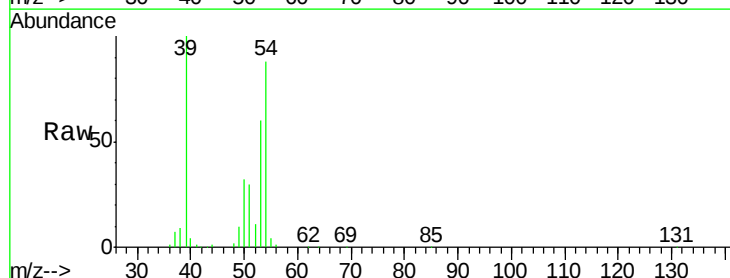
Acq: 29 Oct 2015 13:16

Tgt Ion: 39 Resp: 486322

Ion Ratio Lower Upper

39 100

54 83.9 67.3 100.9



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

4.00

300000

250000

200000

150000

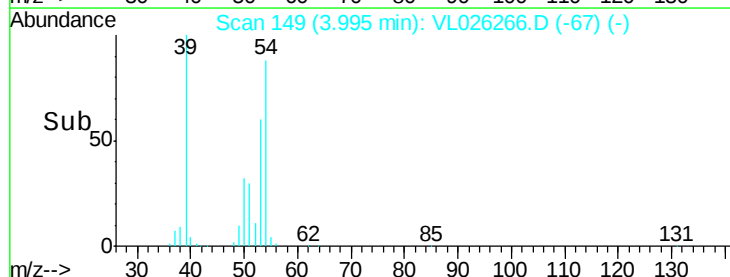
100000

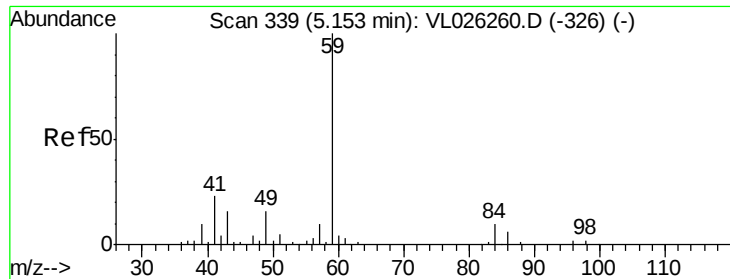
50000

0

Time-->

3.90 3.95 4.00 4.05 4.10





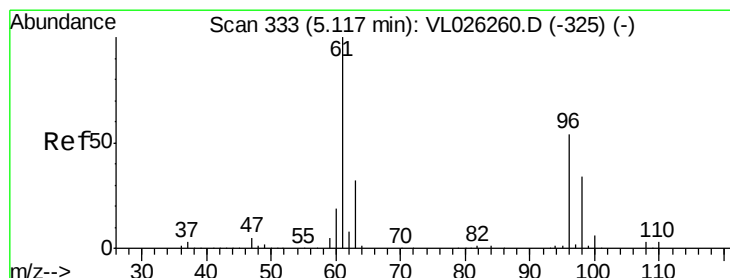
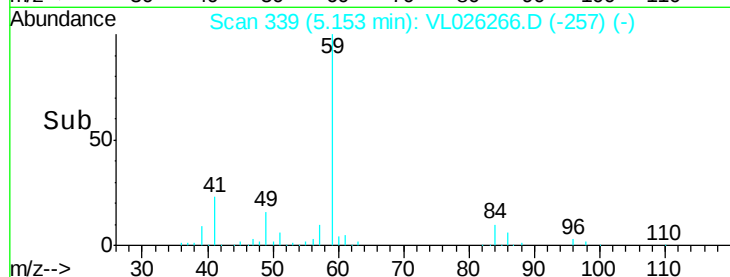
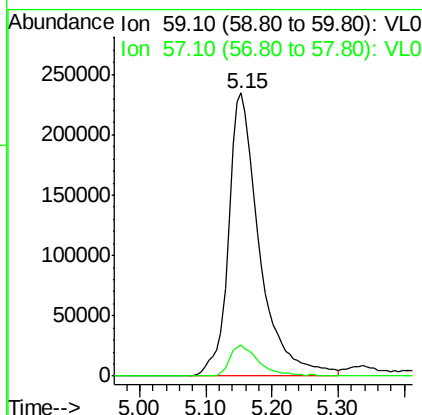
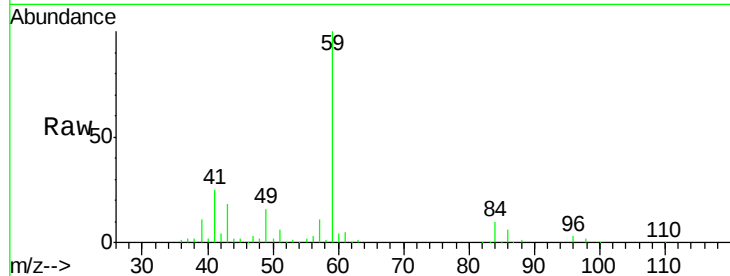
#17
 tert-Butyl alcohol
 Concen: 14.27 ppbv
 RT: 5.15 min Scan# 339
 Delta R.T. 0.00 min
 Lab File: VL026266.D
 Acq: 29 Oct 2015 13:16

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC015

Tot Ion	59	Resp	763391
Ion Ratio	100	Lower	Upper
57	10.8	8.7	13.1

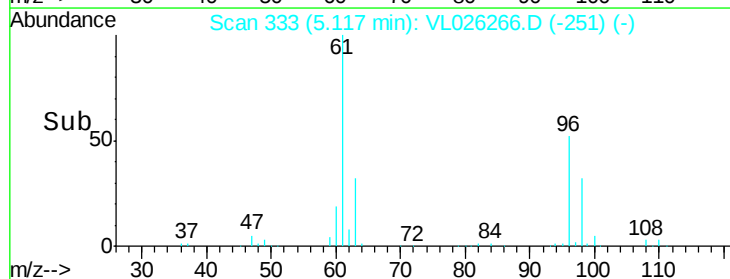
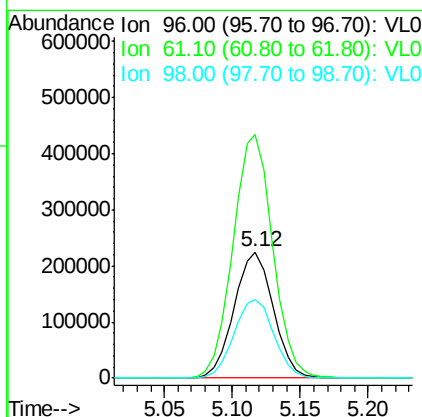
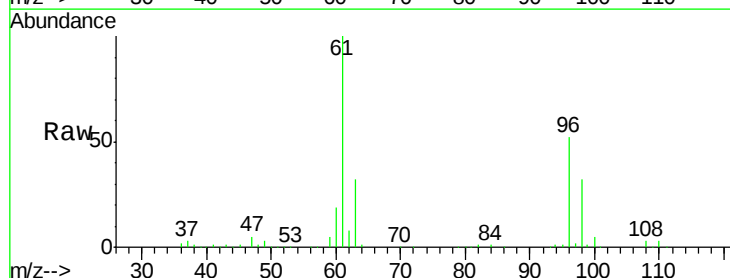
Manual Integrations
 APPROVED

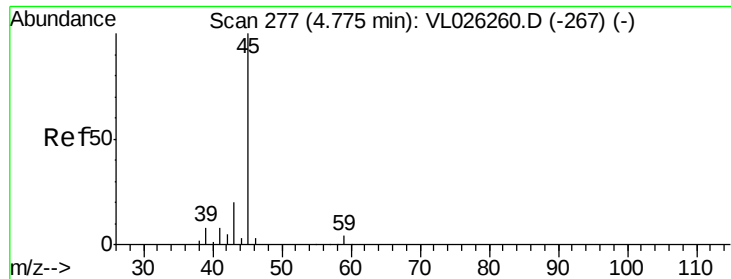
Mmdadoda
 10/30/2015 12:06:35 PM



#18
 1,1-Dichloroethene
 Concen: 13.55 ppbv
 RT: 5.12 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VL026266.D
 Acq: 29 Oct 2015 13:16

Tgt Ion	96	Resp	454468
Ion Ratio	100	Lower	Upper
61	192.6	147.0	220.4
98	62.0	50.1	75.1





#19

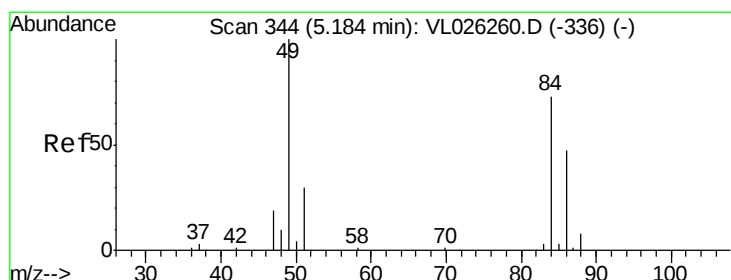
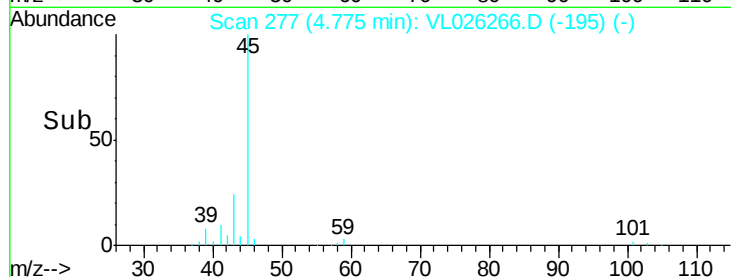
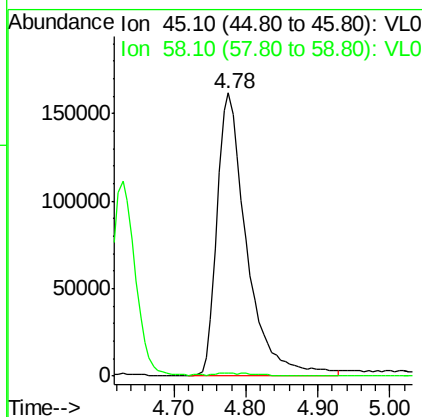
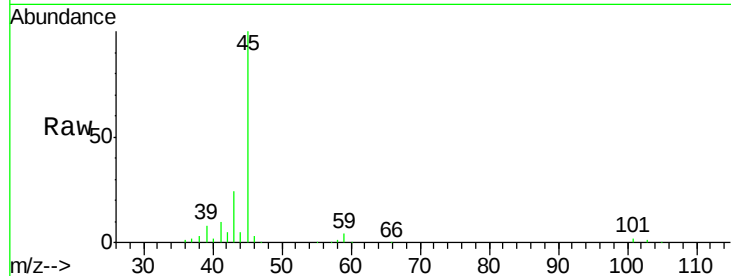
Isopropyl Alcohol
 Concen: 15.28 ppbv
 RT: 4.78 min Scan# 277
 Delta R.T. 0.00 min
 Lab File: VL026266.D
 Acq: 29 Oct 2015 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	45	58	Ratio	Lower	Upper
461330	100	1.9		43.8	65.8#

Manual Integrations
 APPROVED

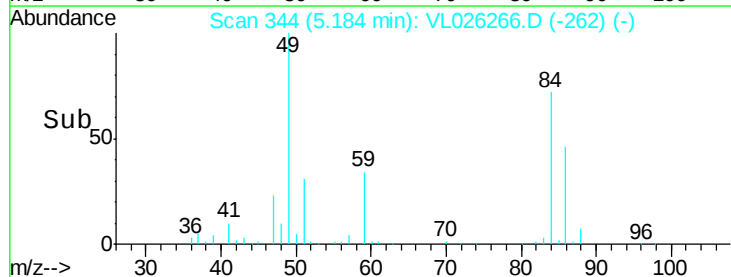
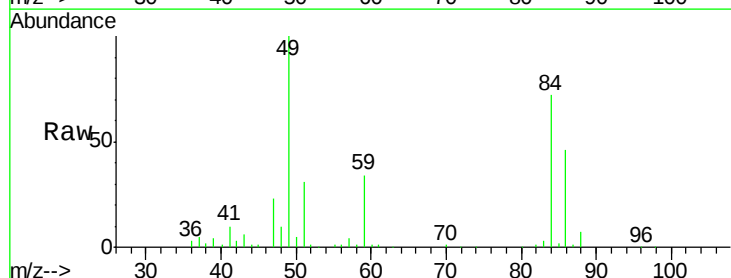
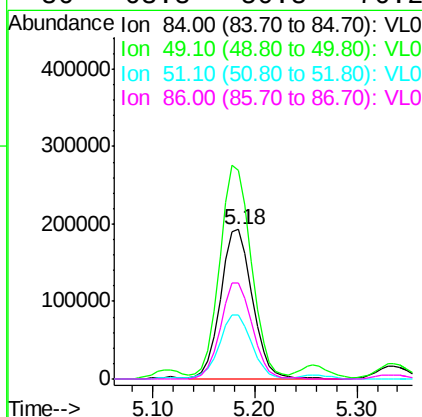
Mmdadoda
 10/30/2015 12:06:35 PM

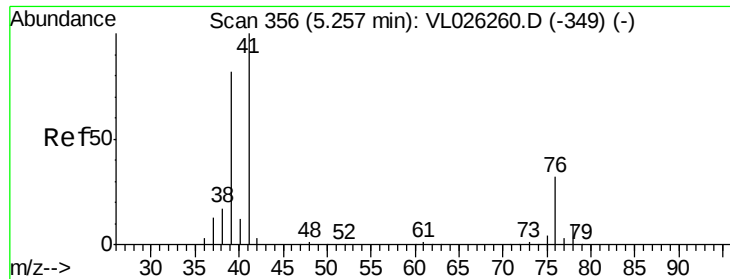


#20

Methylene Chloride
 Concen: 13.34 ppbv
 RT: 5.18 min Scan# 344
 Delta R.T. 0.00 min
 Lab File: VL026266.D
 Acq: 29 Oct 2015 13:16

Tgt Ion	84	49	51	86	Resp	Lower	Upper
419393	100	137.0	42.4	63.8		109.0	163.4
						32.8	49.2
						50.8	76.2





#21

Allvl Chloride

Concen: 13.94 ppbv

RT: 5.26 min Scan# 356

Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

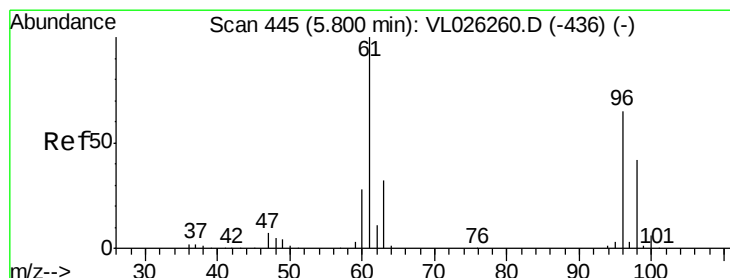
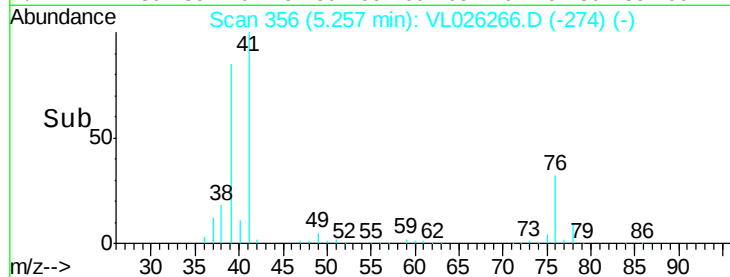
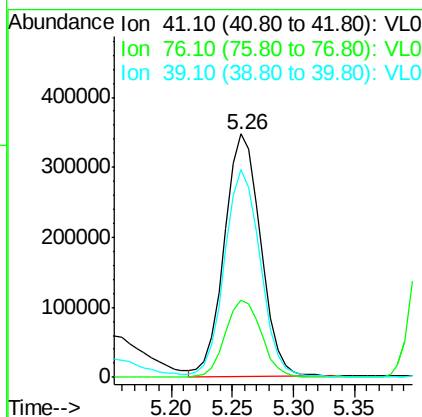
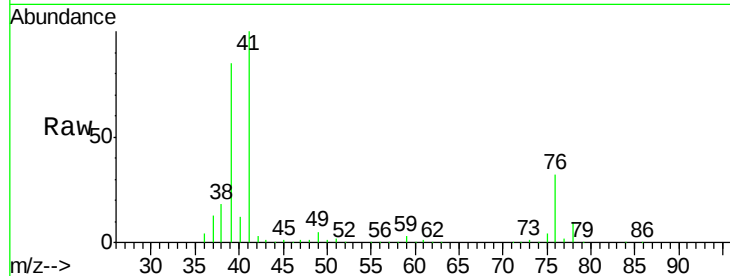
ClientSampleId :

VSTDIC015

Tot Ion:	41	Resp:	709204
Ion	Ratio	Lower	Upper
41	100		
76	31.9	25.9	38.9
39	84.7	65.8	98.6

Manual Integrations
APPROVED

Mmdadoda
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#22

trans-1,2-Dichloroethene

Concen: 13.85 ppbv

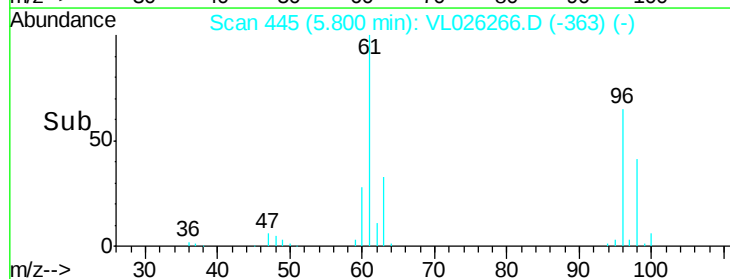
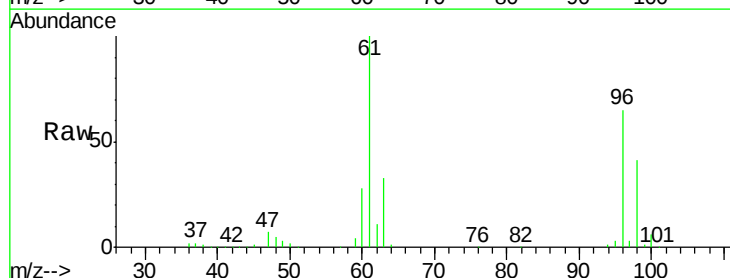
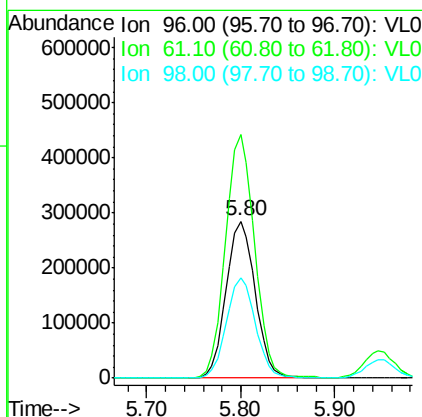
RT: 5.80 min Scan# 445

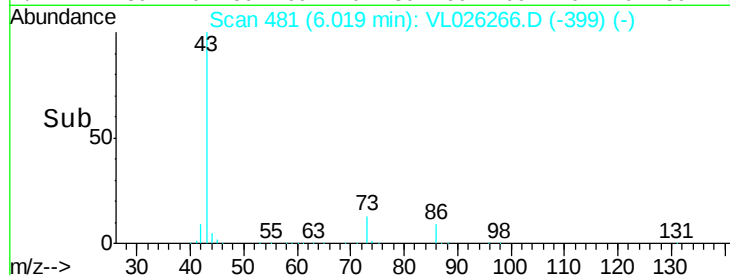
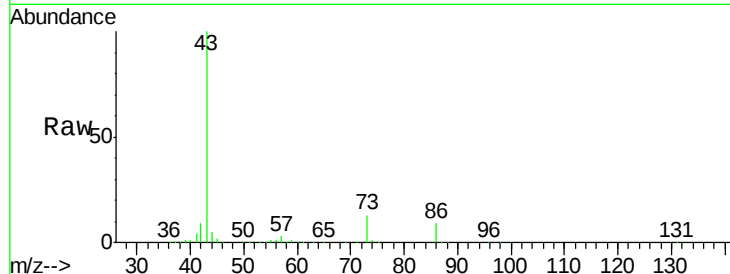
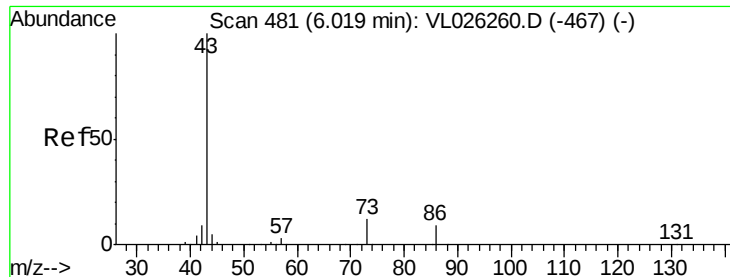
Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

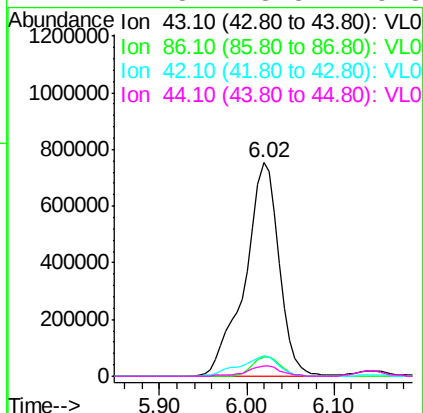
Tgt Ion:	96	Resp:	616493
Ion	Ratio	Lower	Upper
96	100		
61	155.0	123.2	184.8
98	63.6	51.4	77.0





#23
 Vinyl Acetate
 Concen: 14.68 ppbv
 RT: 6.02 min Scan# 481
 Delta R.T. 0.00 min
 Lab File: VL026266.D
 Acq: 29 Oct 2015 13:16

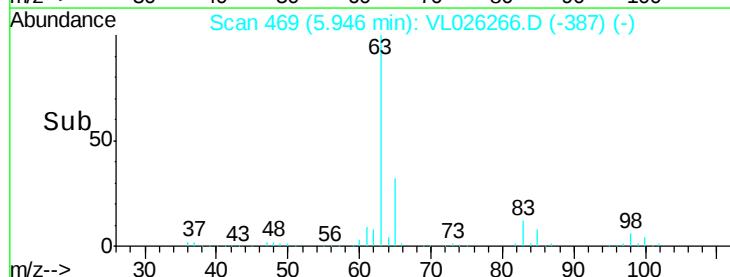
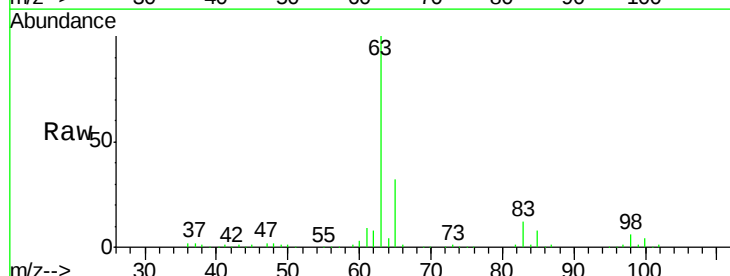
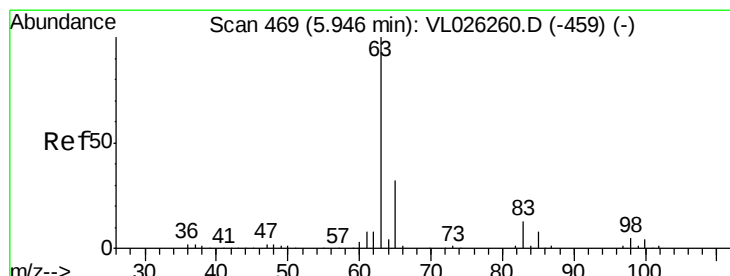
Tot Ion	43	Resp	2033647
Ion	Ratio	Lower	Upper
43	100		
86	9.2	7.3	10.9
42	9.4	7.2	10.8
44	4.8	3.8	5.8



Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

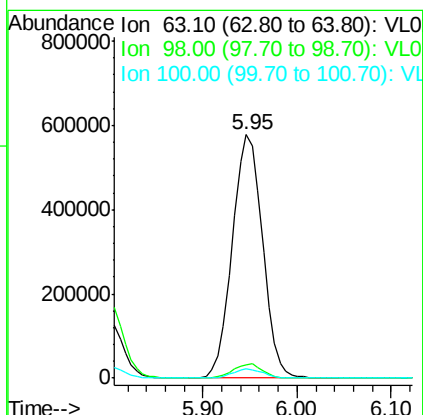
Manual Integrations
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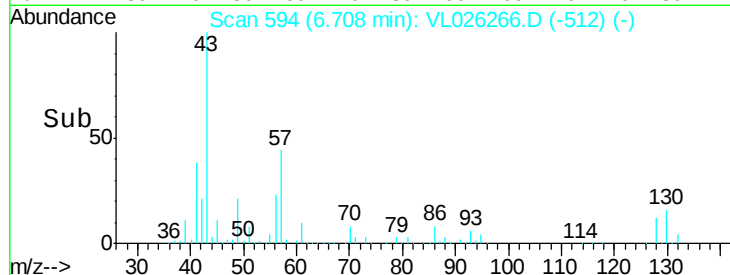
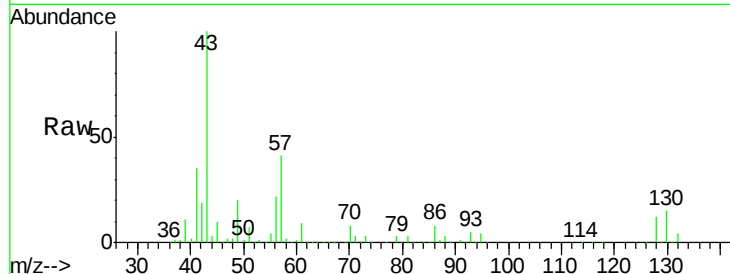
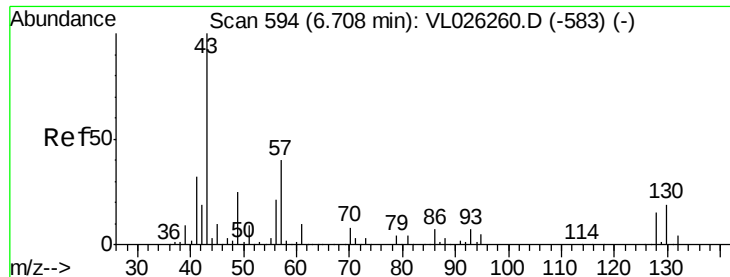
Mmdadoda
 10/30/2015 12:06:35 PM



#24
 1,1-Dichloroethane
 Concen: 13.63 ppbv
 RT: 5.95 min Scan# 469
 Delta R.T. 0.00 min
 Lab File: VL026266.D
 Acq: 29 Oct 2015 13:16

Tgt Ion	63	Resp	1294368
Ion	Ratio	Lower	Upper
63	100		
98	5.6	2.7	8.1
100	3.6	1.9	5.7





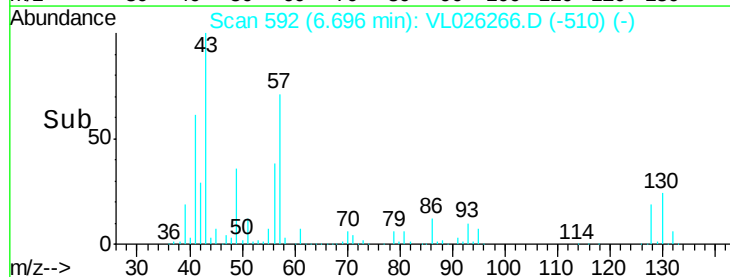
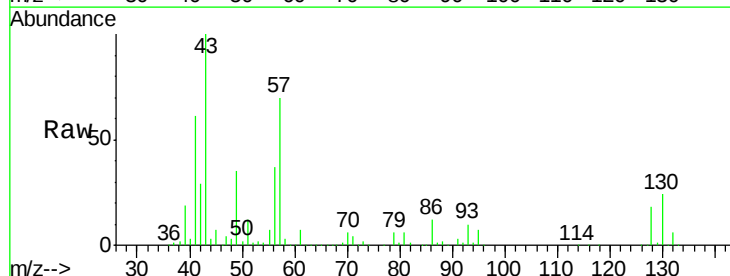
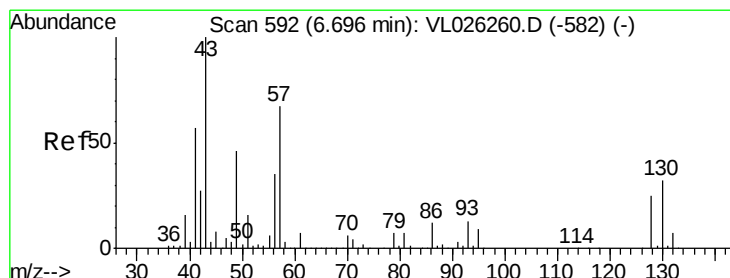
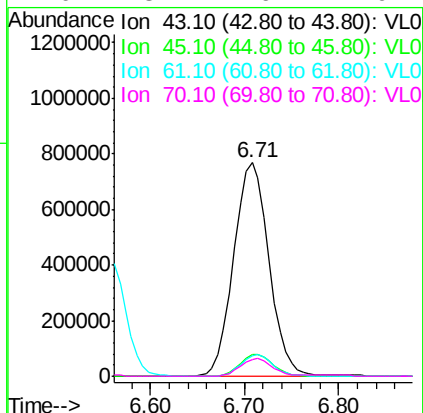
#25
Ethyl Acetate
Concen: 13.35 ppbv
RT: 6.71 min Scan# 594
Delta R.T. 0.00 min
Lab File: VL026266.D
Acq: 29 Oct 2015 13:16

Tot Ion	43	Resp	2005182
Ion	Ratio	Lower	Upper
43	100		
45	9.6	7.6	11.4
61	9.4	7.4	11.2
70	8.4	6.7	10.1

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

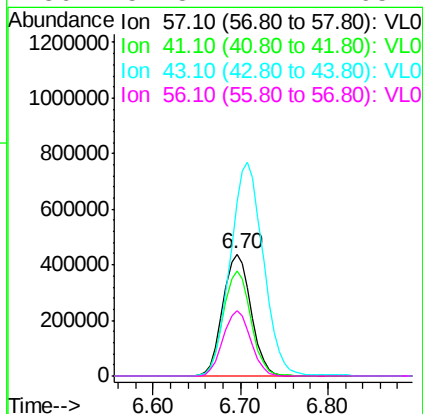
Manual Integrations
APPROVED

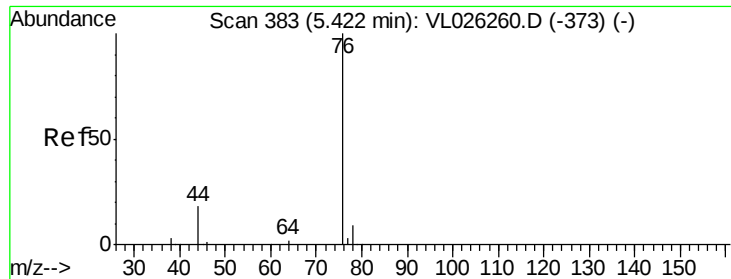
Mmdadoda
10/30/2015 12:06:35 PM



#26
Hexane
Concen: 13.24 ppbv
RT: 6.70 min Scan# 592
Delta R.T. 0.00 min
Lab File: VL026266.D
Acq: 29 Oct 2015 13:16

Tgt Ion	57	Resp	976337
Ion	Ratio	Lower	Upper
57	100		
41	86.0	67.4	101.2
43	207.1	163.9	245.9
56	52.8	42.2	63.2





#27

Carbon Disulfide

Concen: 14.44 ppbv

RT: 5.42 min Scan# 383

Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 1280500

Ion Ratio Lower Upper

76 100

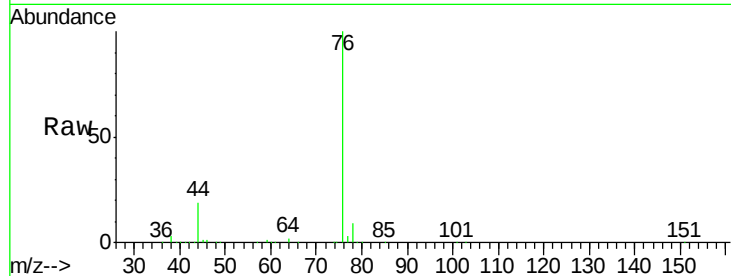
44 18.6 14.1 21.1

78 9.3 7.4 11.0

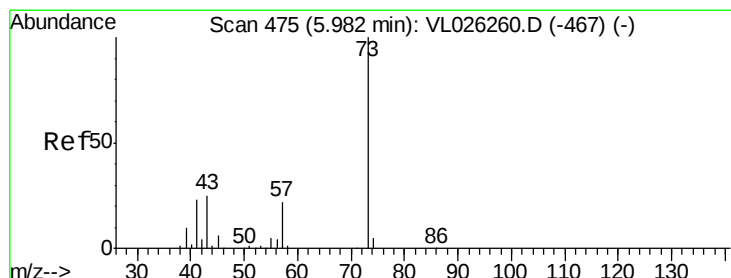
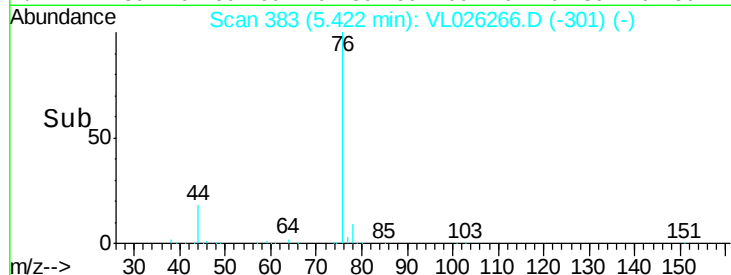
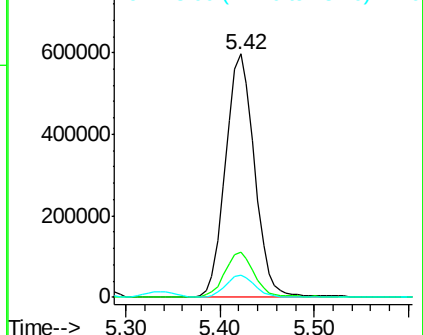
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 13.75 ppbv

RT: 5.99 min Scan# 476

Delta R.T. 0.01 min

Lab File: VL026266.D

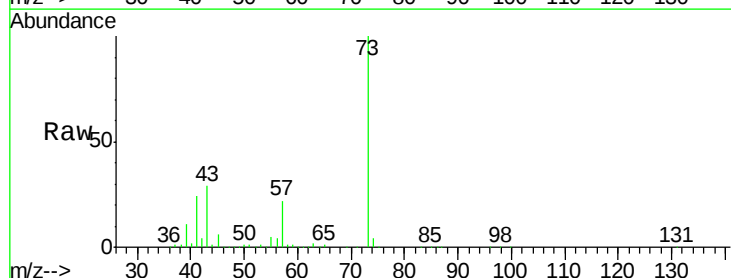
Acq: 29 Oct 2015 13:16

Tgt Ion: 73 Resp: 1784952

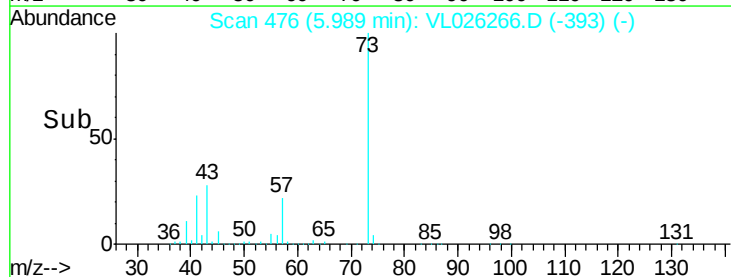
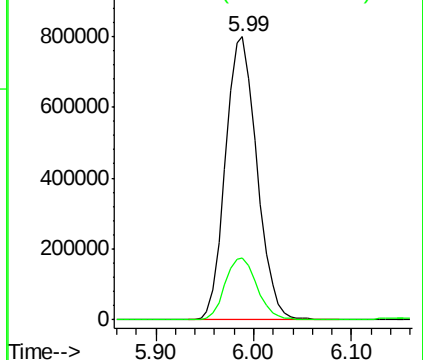
Ion Ratio Lower Upper

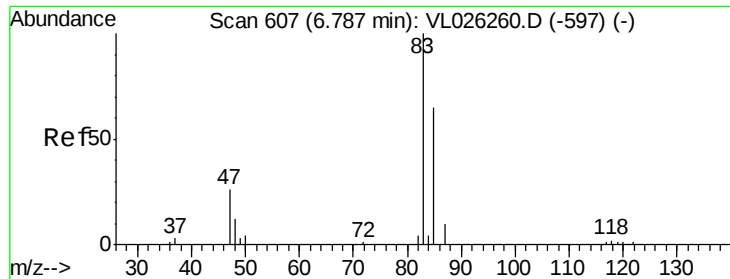
73 100

57 22.2 17.8 26.6



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





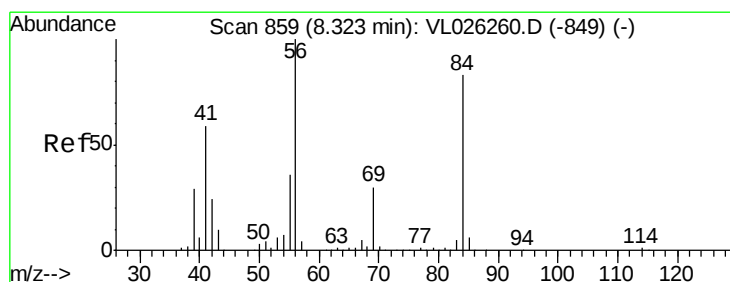
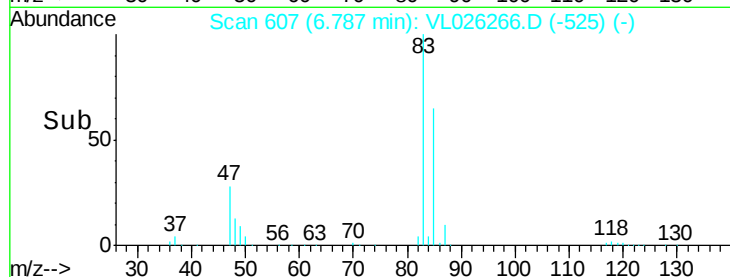
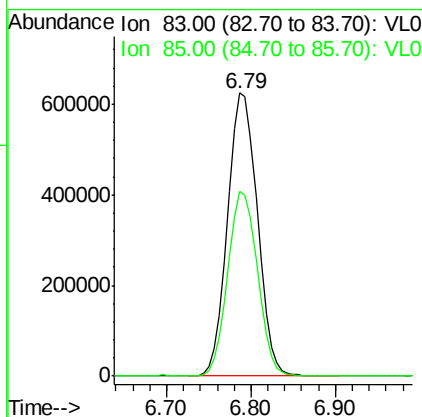
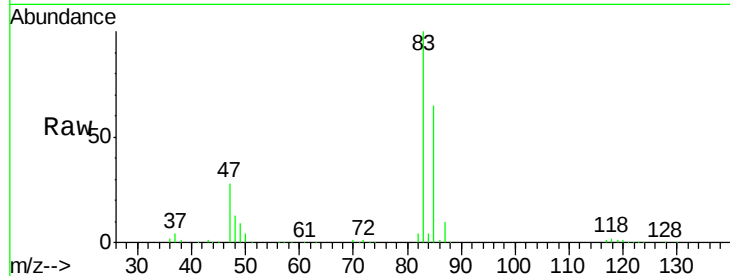
#29
Chloroform
Concen: 13.83 ppbv
RT: 6.79 min Scan# 607
Delta R.T. 0.00 min
Lab File: VL026266.D
Acq: 29 Oct 2015 13:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 1505731
Ion Ratio Lower Upper
83 100
85 65.0 52.0 78.0

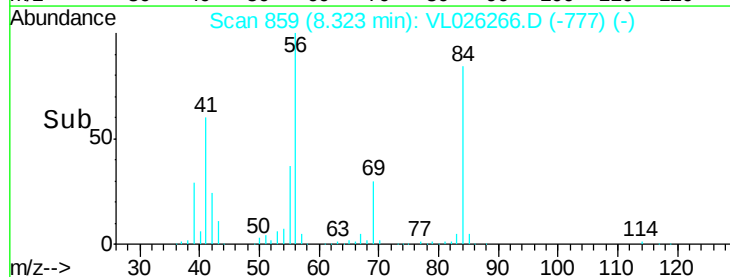
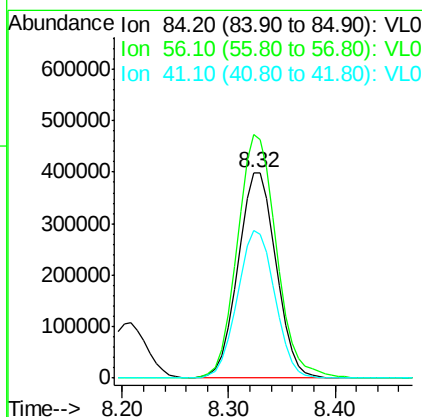
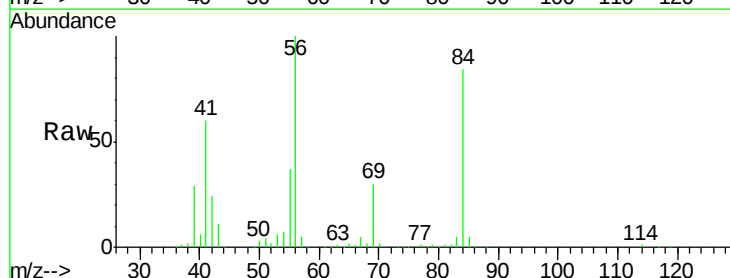
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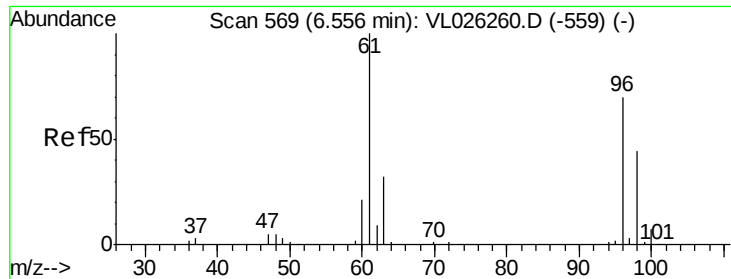
Mmdadoda
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#30
Cyclohexane
Concen: 13.79 ppbv
RT: 8.32 min Scan# 859
Delta R.T. 0.00 min
Lab File: VL026266.D
Acq: 29 Oct 2015 13:16

Tgt Ion: 84 Resp: 998993
Ion Ratio Lower Upper
84 100
56 122.6 99.6 149.4
41 71.3 56.7 85.1





#31

cis-1,2-Dichloroethene

Concen: 14.32 ppbv

RT: 6.56 min Scan# 569

Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

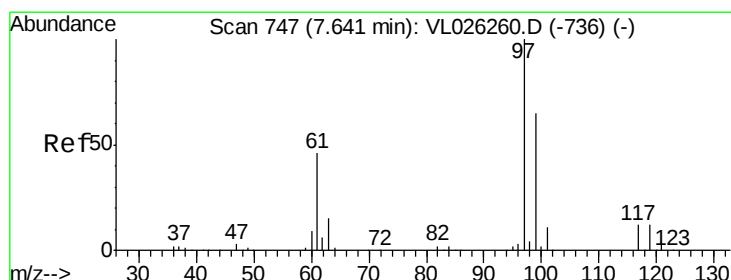
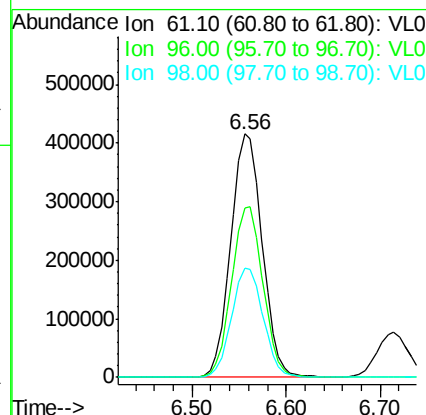
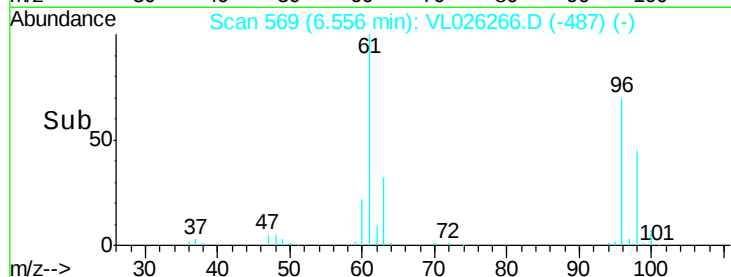
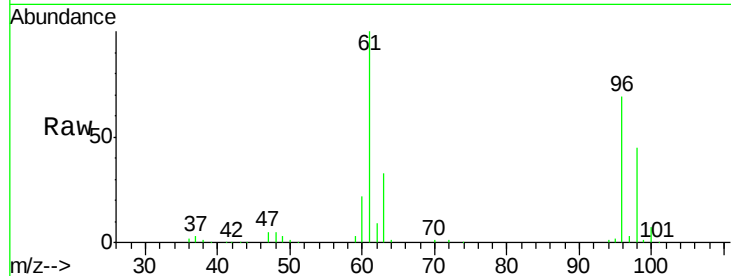
ClientSampleId :

VSTDIC015

Tot Ion:	61	Resp:	966055
Ion Ratio		Lower	Upper
61	100		
96	69.5	56.2	84.4
98	44.7	35.4	53.2

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#32

1,1,1-Trichloroethane

Concen: 12.79 ppbv

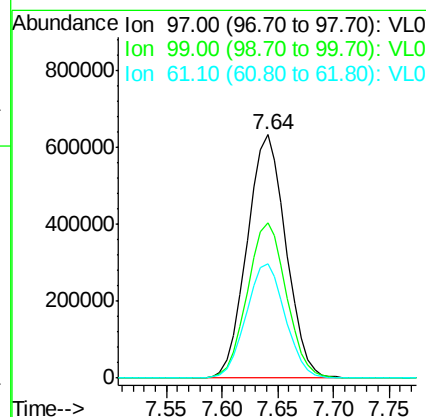
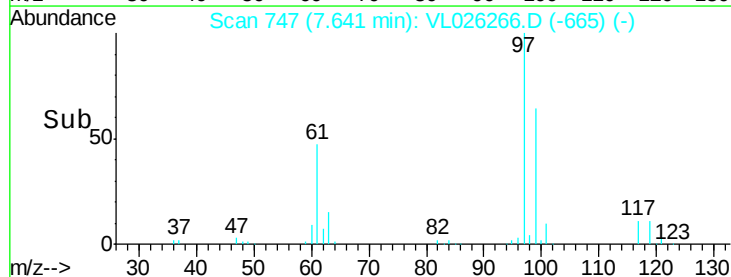
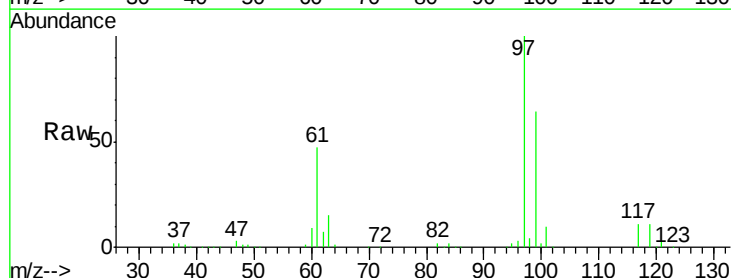
RT: 7.64 min Scan# 747

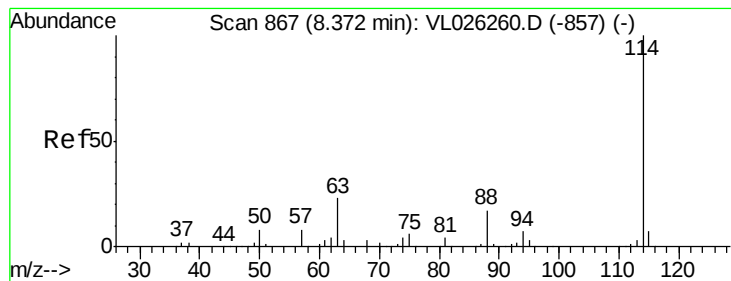
Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Tgt Ion:	97	Resp:	1544318
Ion Ratio		Lower	Upper
97	100		
99	64.2	51.0	76.6
61	47.3	37.1	55.7





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.37 min Scan# 867

Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:114 Resp: 1658978

Ion Ratio Lower Upper

114 100

63 23.5 18.6 28.0

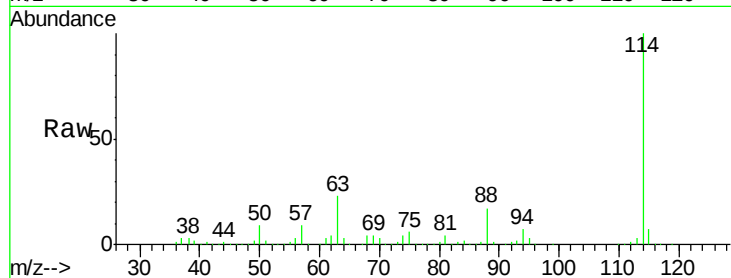
88 16.8 13.4 20.2

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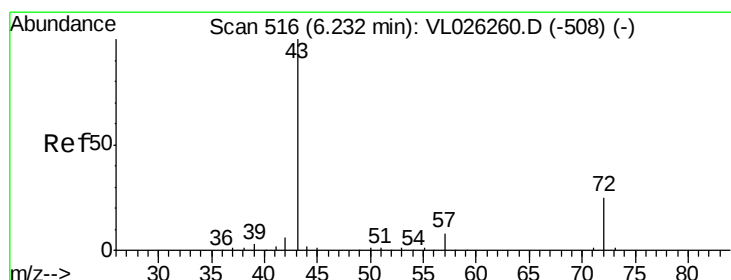
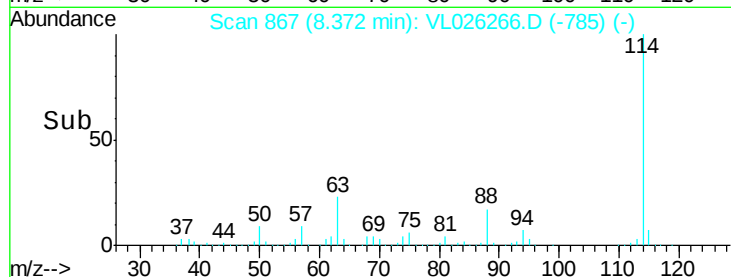
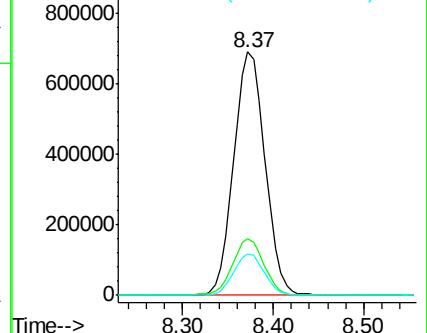
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Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 13.23 ppbv

RT: 6.23 min Scan# 516

Delta R.T. 0.00 min

Lab File: VL026266.D

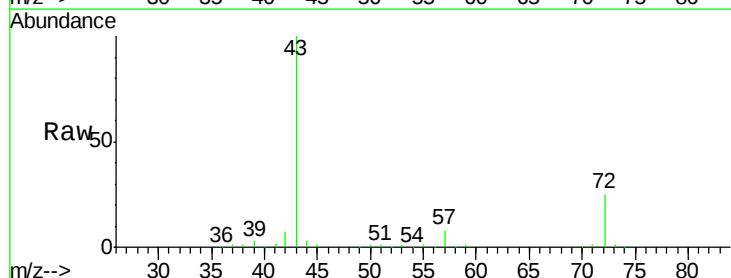
Acq: 29 Oct 2015 13:16

Tgt Ion: 43 Resp: 1318524

Ion Ratio Lower Upper

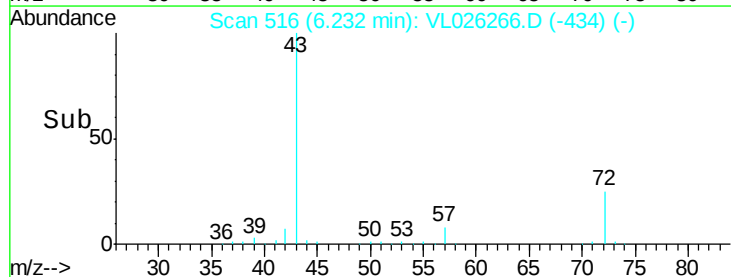
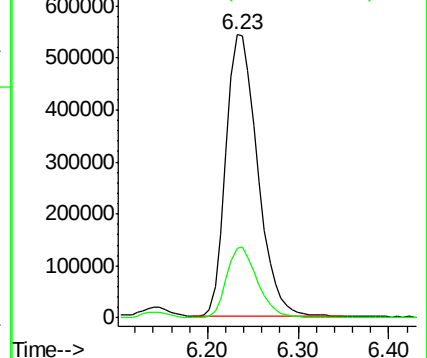
43 100

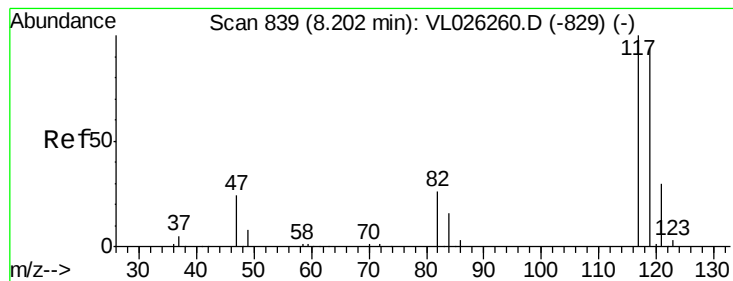
72 24.8 19.9 29.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 12.62 ppbv

RT: 8.21 min Scan# 840

Delta R.T. 0.01 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 1590538

Ion Ratio Lower Upper

117 100

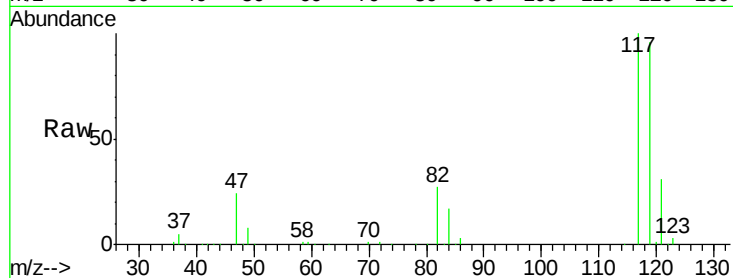
119 96.3 75.2 112.8

121 31.0 24.2 36.2

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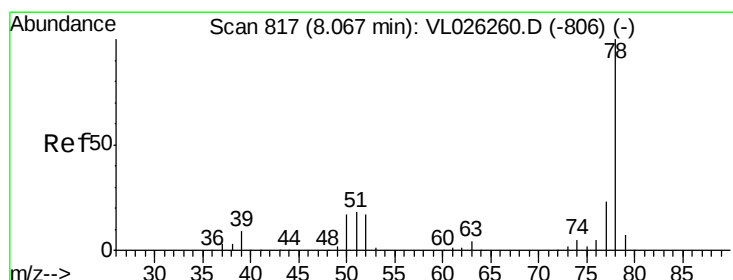
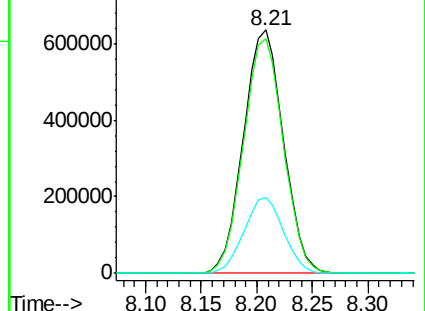
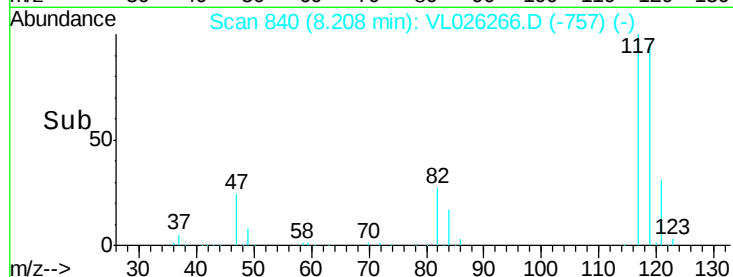
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 12.85 ppbv

RT: 8.07 min Scan# 817

Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

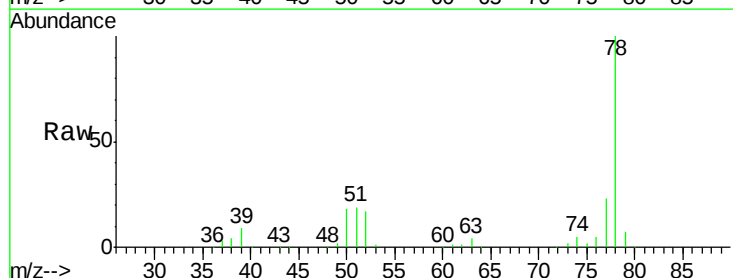
Tgt Ion: 78 Resp: 2259972

Ion Ratio Lower Upper

78 100

77 23.2 18.0 27.0

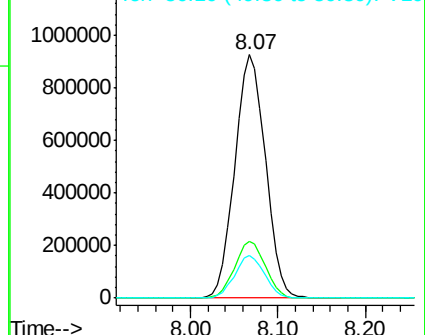
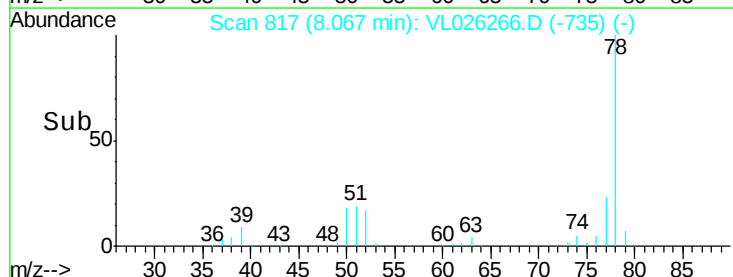
50 17.7 13.3 19.9

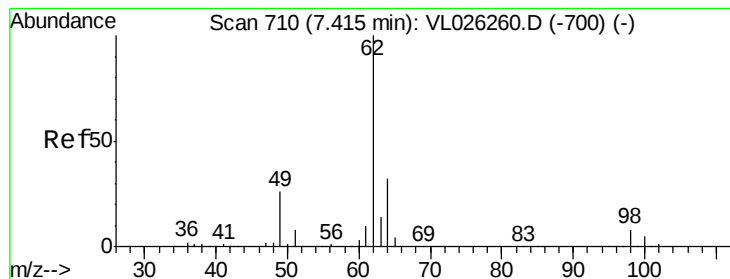


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 13.48 ppbv

RT: 7.42 min Scan# 710

Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1223449

Ion Ratio Lower Upper

62 100

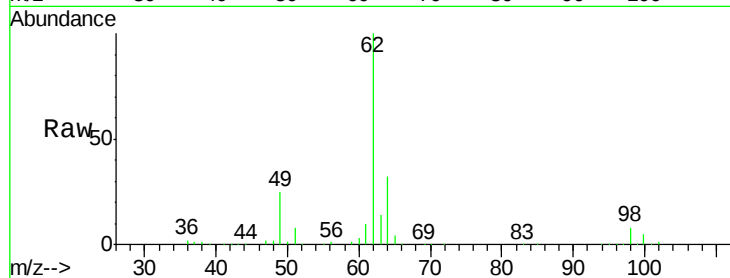
98 7.6 6.3 9.5

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

7.42

500000

400000

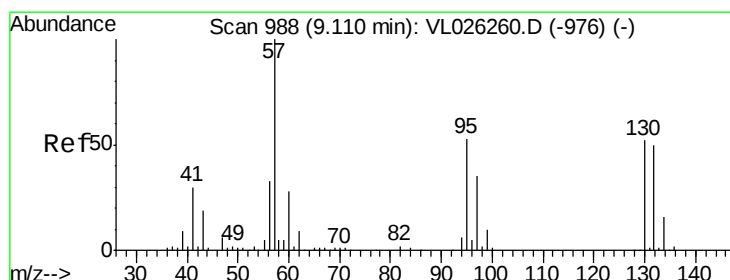
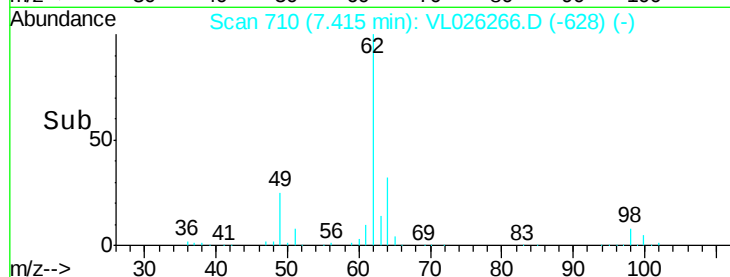
300000

200000

100000

0

Time--> 7.30 7.40 7.50



#38

Trichloroethene

Concen: 10.12 ppbv

RT: 9.11 min Scan# 988

Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Tgt Ion:130 Resp: 860165

Ion Ratio Lower Upper

130 100

95 103.7 80.8 121.2

132 94.6 76.2 114.2

97 67.8 53.0 79.6

Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

500000

400000

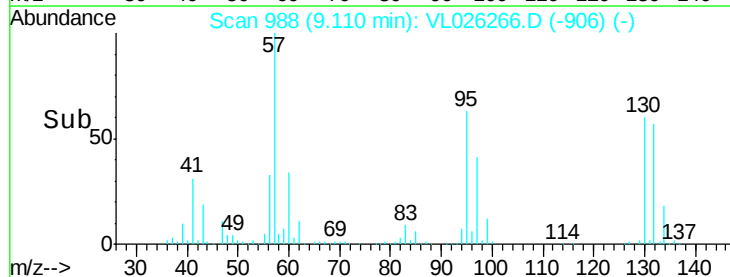
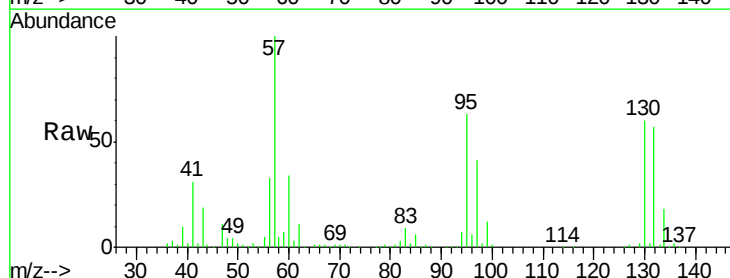
300000

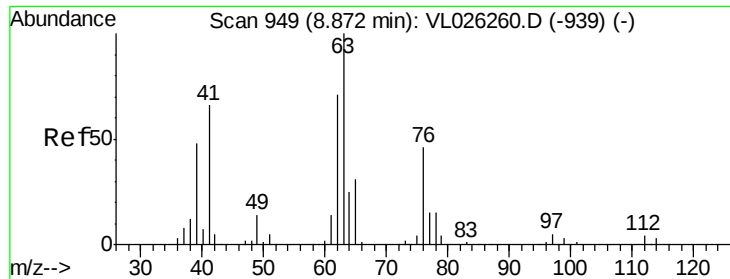
200000

100000

0

Time--> 9.00 9.10 9.20 9.30





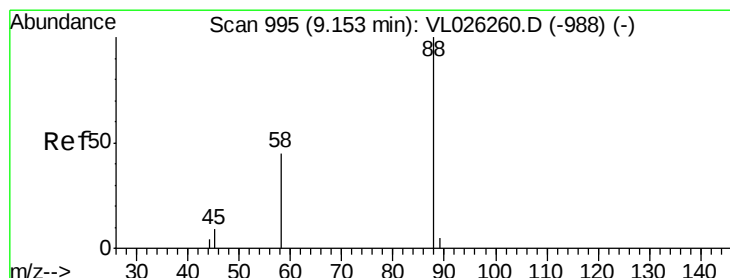
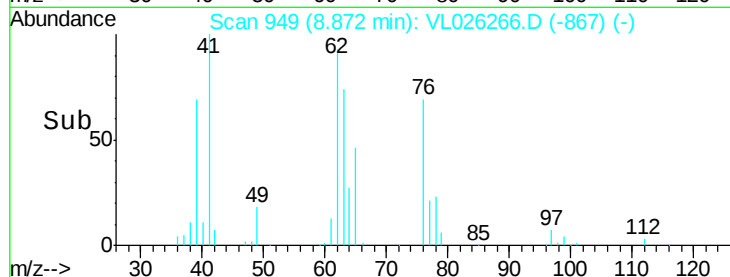
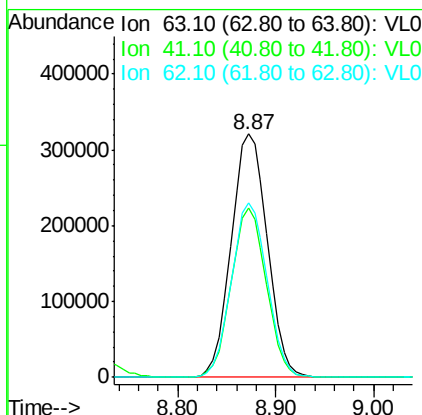
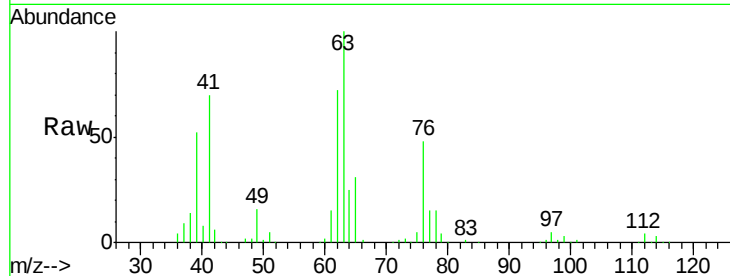
#39
 1,2-Dichloropropane
 Concen: 12.97 ppbv
 RT: 8.87 min Scan# 949
 Delta R.T. 0.00 min
 Lab File: VL026266.D
 Acq: 29 Oct 2015 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
63	100		
41	69.5	53.2	79.8
62	71.9	57.1	85.7

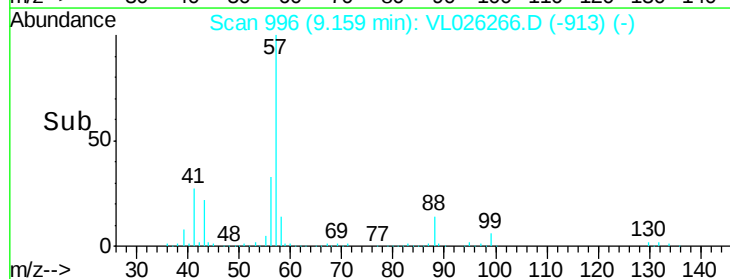
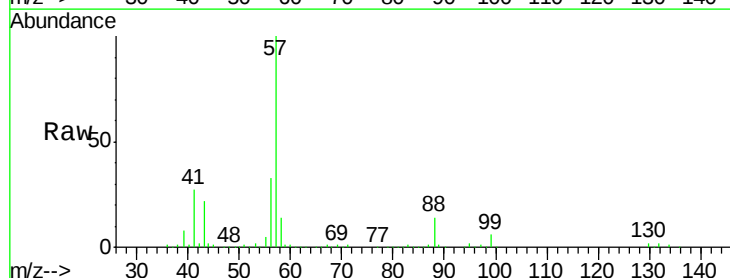
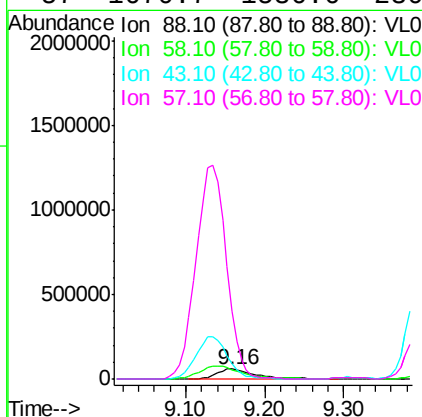
Manual Integrations
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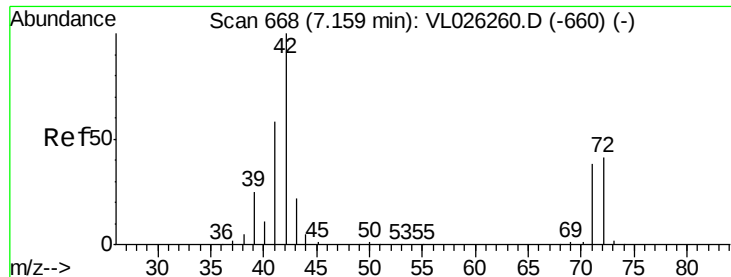
Mmdadoda
 10/30/2015 12:06:35 PM



#40
 1,4-Dioxane
 Concen: 23.59 ppbv
 RT: 9.16 min Scan# 996
 Delta R.T. 0.01 min
 Lab File: VL026266.D
 Acq: 29 Oct 2015 13:16

Tgt Ion	Ratio	Lower	Upper
88	100		
58	145.9	126.2	189.2
43	343.7	307.3	460.9
57	1670.7	1536.6	2304.8





#41

Tetrahydrofuran

Concen: 13.76 ppbv

RT: 7.16 min Scan# 668

Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

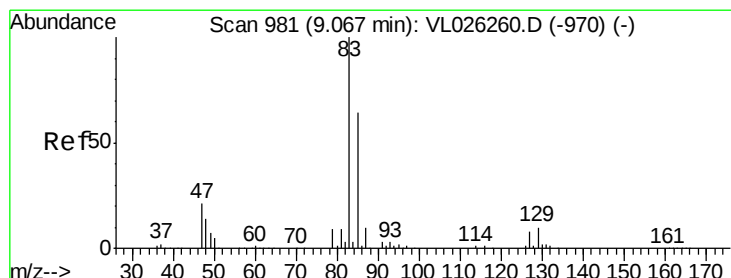
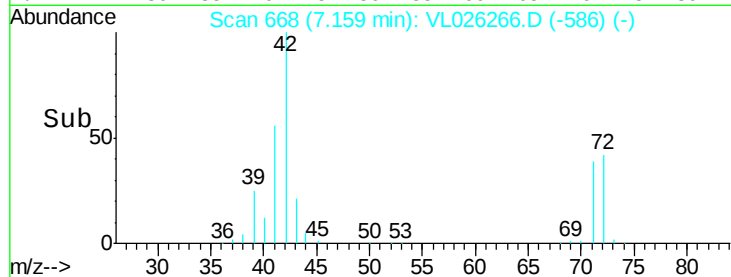
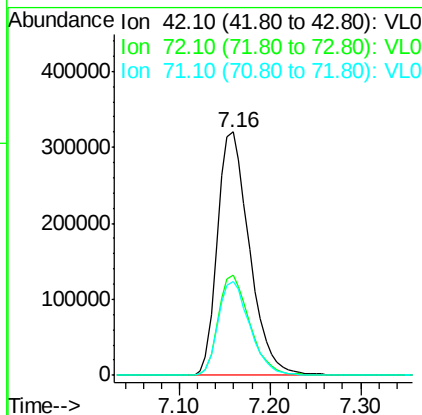
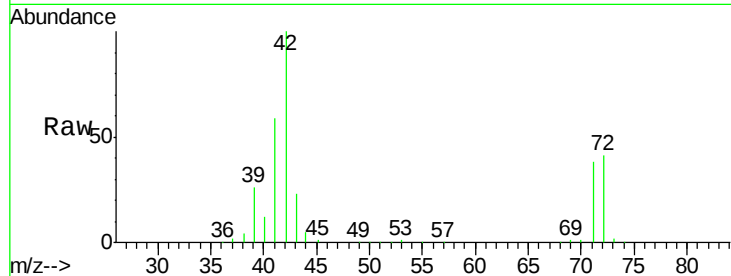
ClientSampleId :

VSTDIC015

Tot Ion:	42	Resp:	790682
Ion	Ratio	Lower	Upper
42	100		
72	40.5	32.2	48.4
71	38.3	30.4	45.6

Manual Integrations
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#42

Bromodichloromethane

Concen: 13.51 ppbv

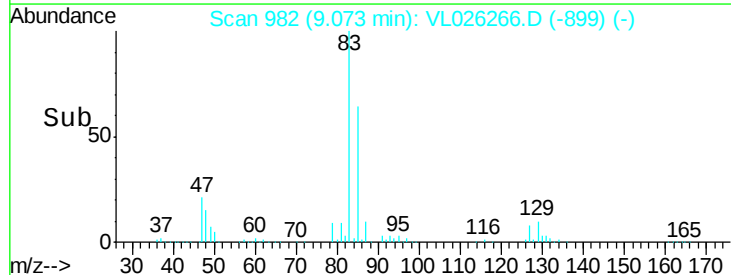
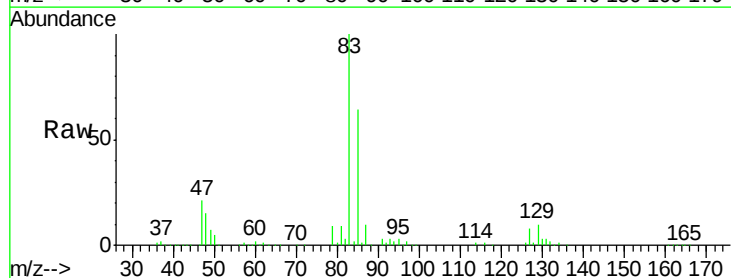
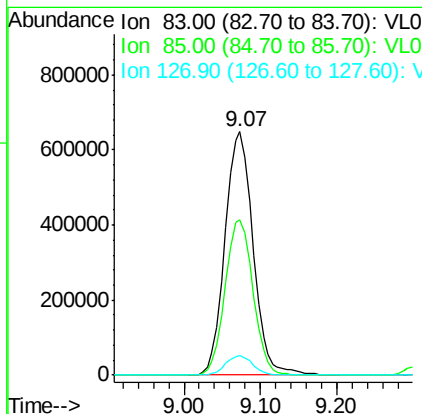
RT: 9.07 min Scan# 982

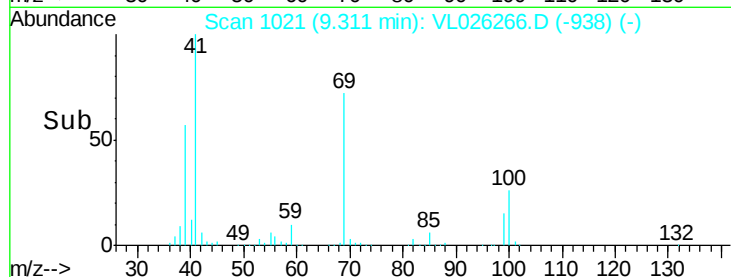
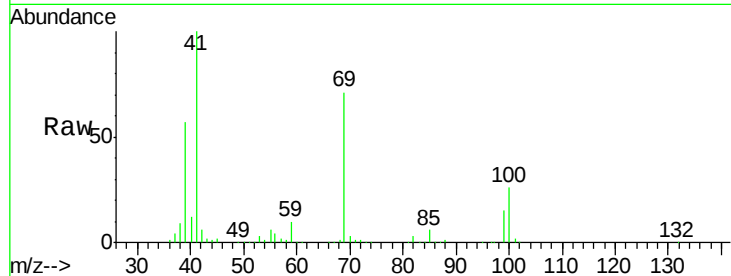
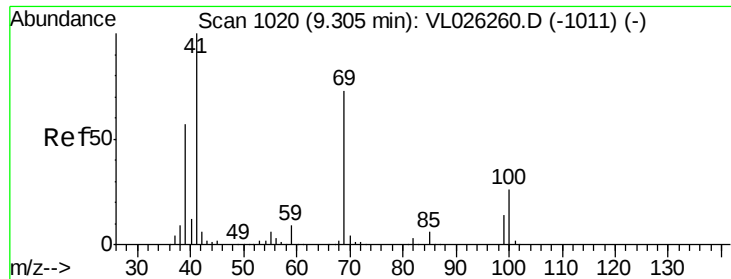
Delta R.T. 0.01 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Tgt Ion:	83	Resp:	1652112
Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.2	76.8
127	7.9	6.2	9.4





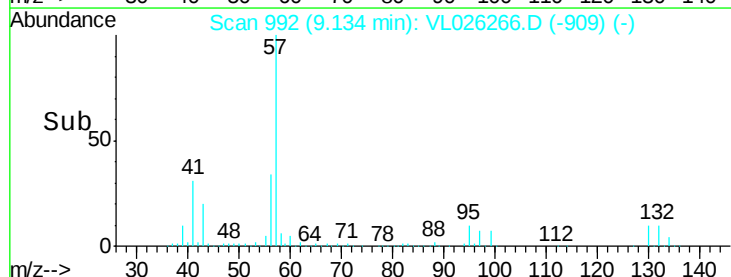
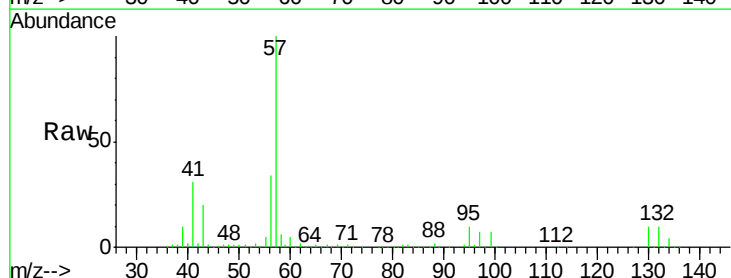
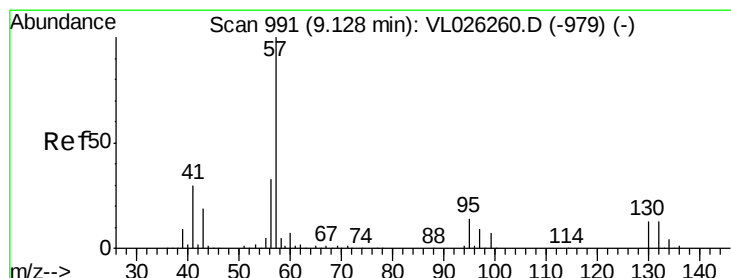
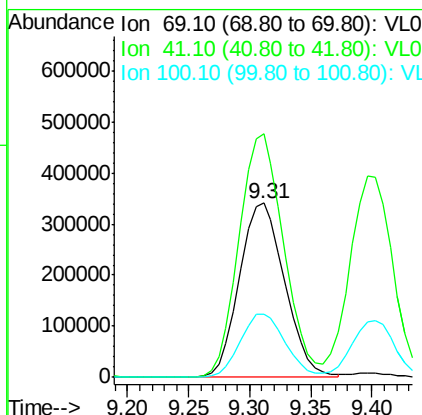
#43
Methvl Methacrvlate
Concen: 14.07 ppbv
RT: 9.31 min Scan# 1021
Delta R.T. 0.01 min
Lab File: VL026266.D
Acq: 29 Oct 2015 13:16

Tot Ion: 69 Resp: 879516
Ion Ratio Lower Upper
69 100
41 136.7 110.0 165.0
100 35.8 28.6 43.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

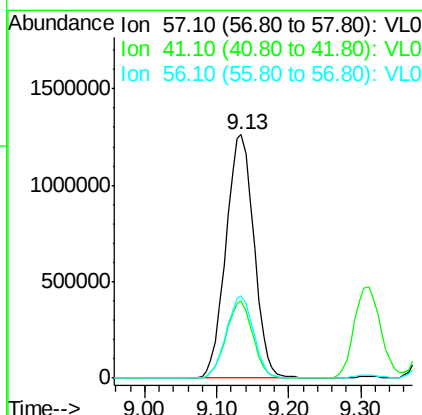
Manual Integrations
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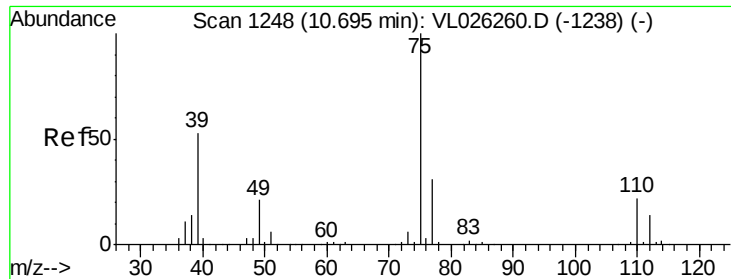
Mmdadoda
10/30/2015 12:06:35 PM



#44
2,2,4-Trimethylpentane
Concen: 11.94 ppbv
RT: 9.13 min Scan# 992
Delta R.T. 0.01 min
Lab File: VL026266.D
Acq: 29 Oct 2015 13:16

Tgt Ion: 57 Resp: 3426350
Ion Ratio Lower Upper
57 100
41 30.0 23.1 34.7
56 32.7 26.3 39.5





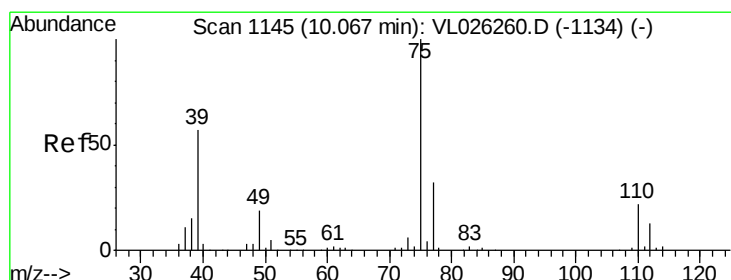
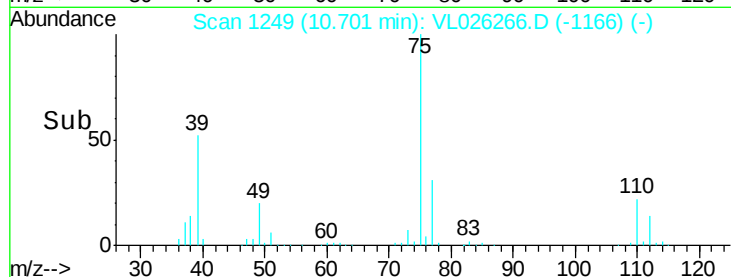
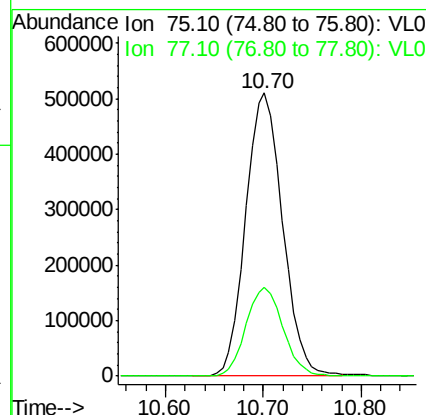
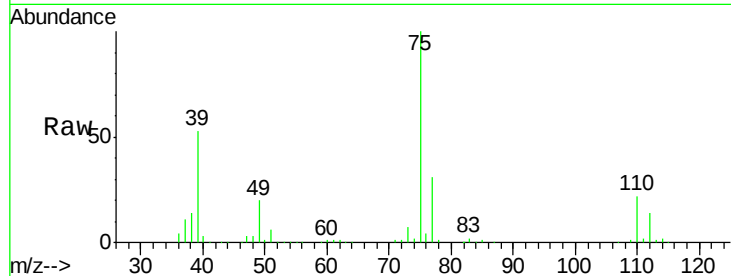
#45
t-1,3-Dichloropropene
Concen: 15.07 ppbv
RT: 10.70 min Scan# 1249
Delta R.T. 0.01 min
Lab File: VL026266.D
Acq: 29 Oct 2015 13:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 75 Resp: 1342084
Ion Ratio Lower Upper
75 100
77 31.4 24.7 37.1

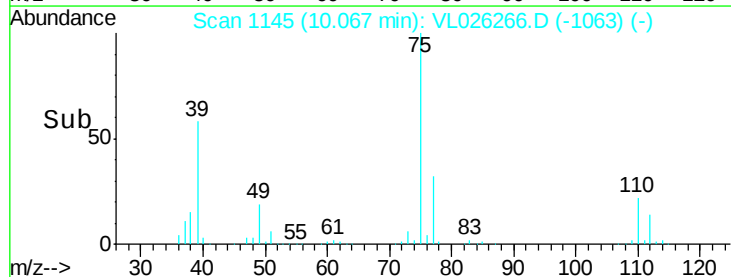
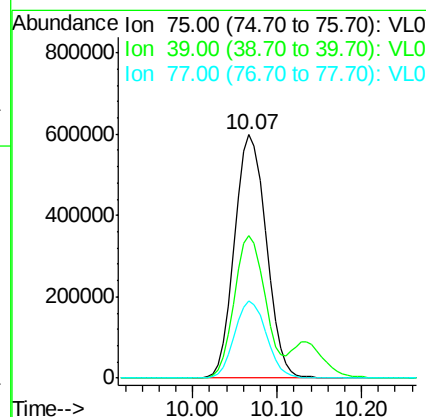
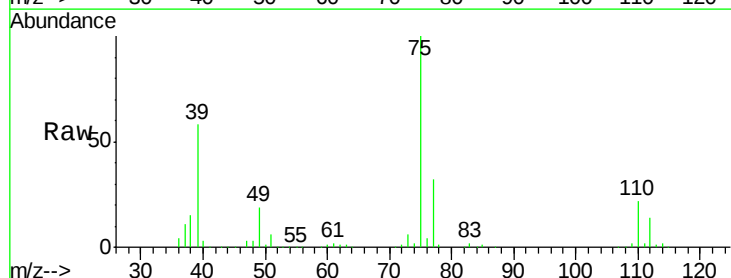
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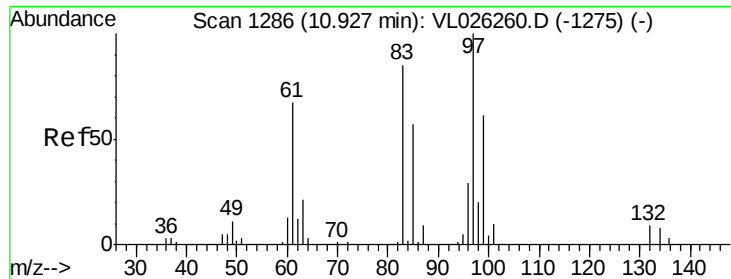
Mmdadoda
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#46
cis-1,3-Dichloropropene
Concen: 14.20 ppbv
RT: 10.07 min Scan# 1145
Delta R.T. 0.00 min
Lab File: VL026266.D
Acq: 29 Oct 2015 13:16

Tgt Ion: 75 Resp: 1532728
Ion Ratio Lower Upper
75 100
39 58.4 45.8 68.8
77 31.9 25.3 37.9





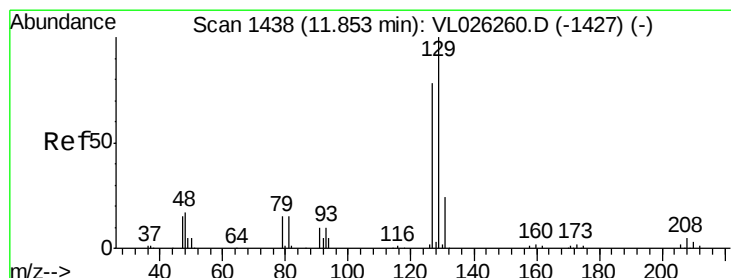
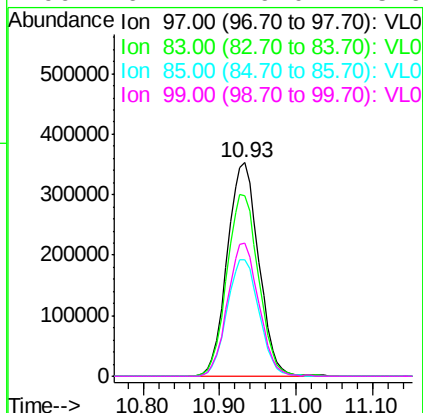
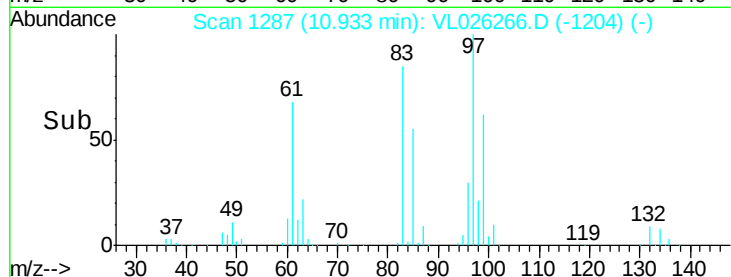
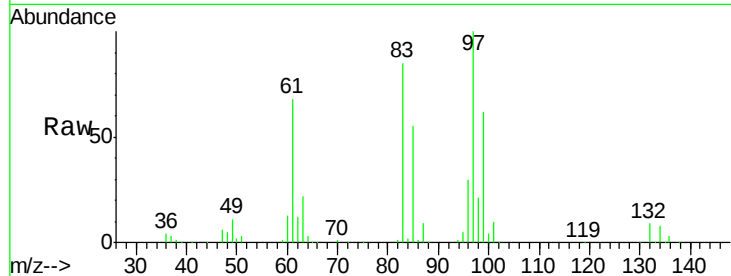
#47
 1,1,2-Trichloroethane
 Concen: 12.93 ppbv
 RT: 10.93 min Scan# 1287
 Delta R.T. 0.01 min
 Lab File: VL026266.D
 Acq: 29 Oct 2015 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	84.8	67.9	101.9	
85	54.8	45.2	67.8	
99	62.1	49.0	73.6	

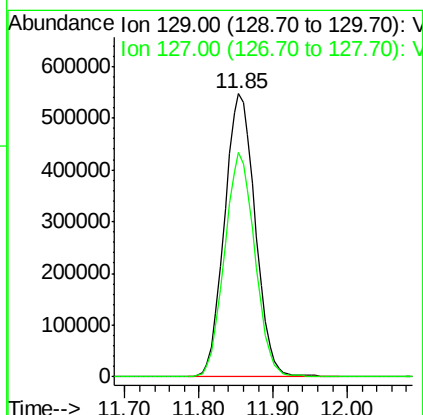
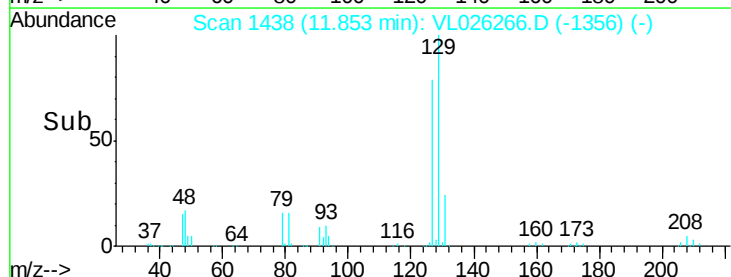
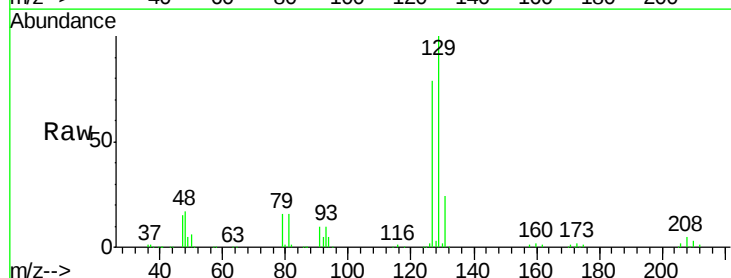
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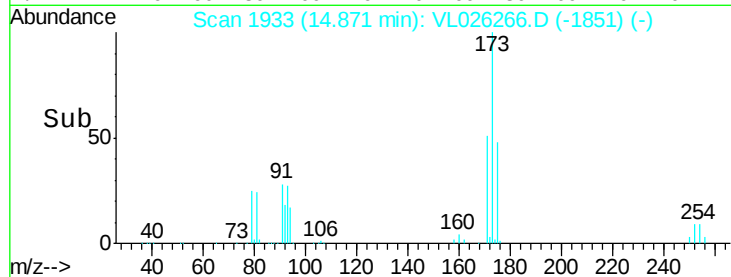
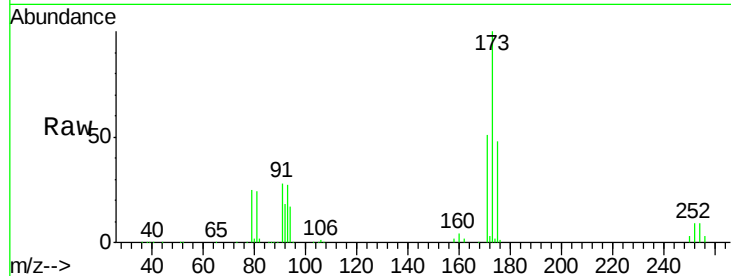
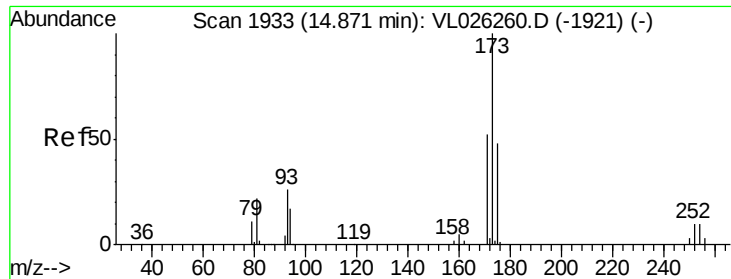
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#48
 Dibromochloromethane
 Concen: 14.07 ppbv
 RT: 11.85 min Scan# 1438
 Delta R.T. 0.00 min
 Lab File: VL026266.D
 Acq: 29 Oct 2015 13:16

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.1	39.1	117.2	





#49

Bromoform

Concen: 14.27 ppbv

RT: 14.87 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Tot Ion: 173 Resp: 1266225

Ion Ratio Lower Upper

173 100

175 48.8 38.8 58.2

171 52.1 41.7 62.5

Instrument :

MSVOA_L

ClientSampleId :

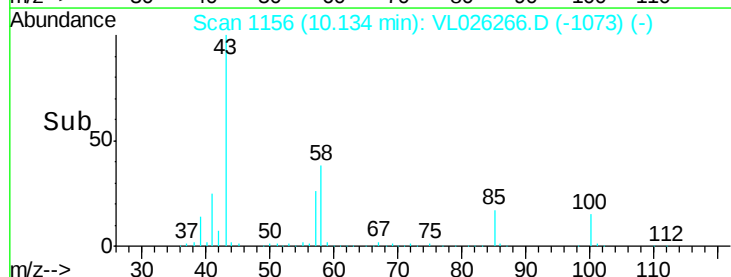
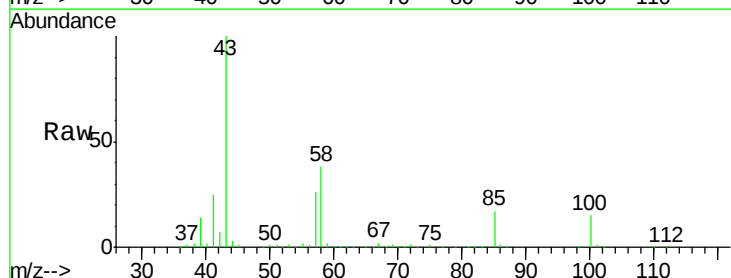
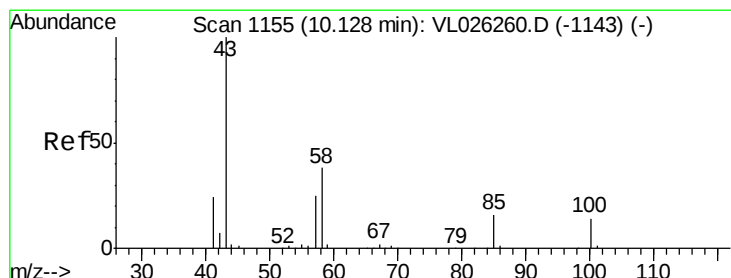
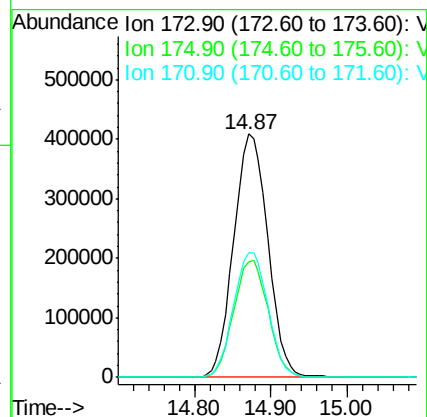
VSTDIC015

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#50

4-Methyl-2-Pentanone

Concen: 13.75 ppbv

RT: 10.13 min Scan# 1156

Delta R.T. 0.01 min

Lab File: VL026266.D

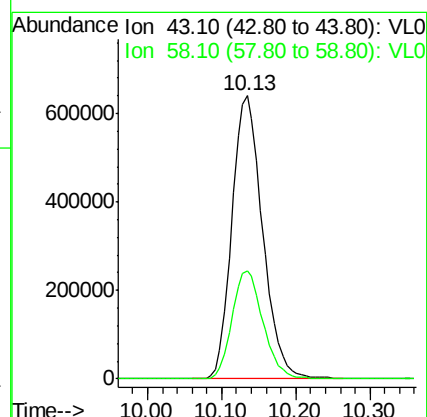
Acq: 29 Oct 2015 13:16

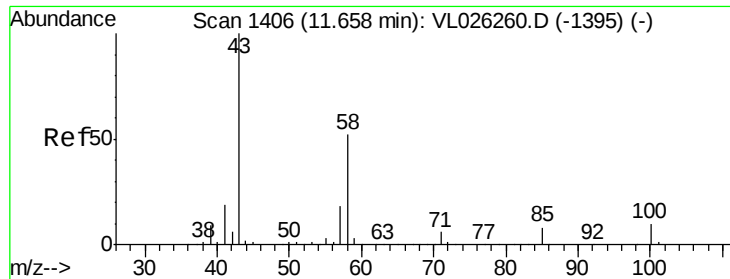
Tgt Ion: 43 Resp: 1840525

Ion Ratio Lower Upper

43 100

58 38.7 30.5 45.7





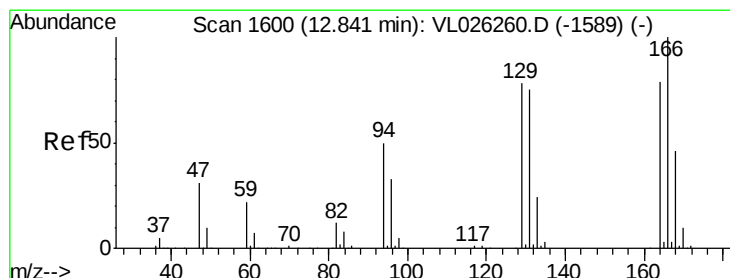
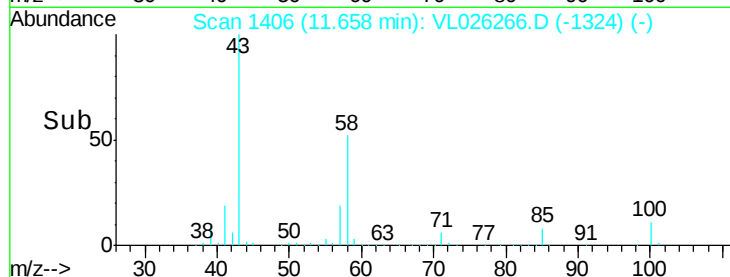
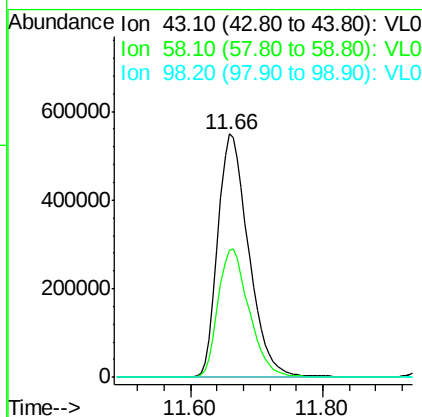
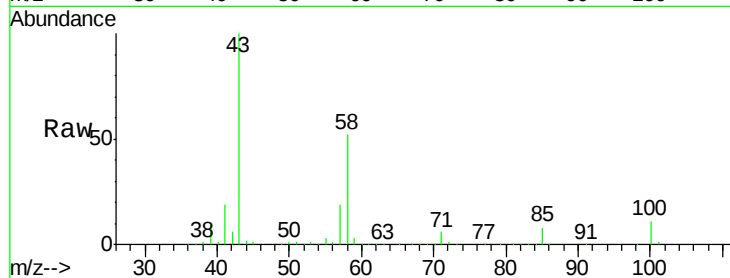
#51
2-Hexanone
Concen: 14.57 ppbv
RT: 11.66 min Scan# 1406
Delta R.T. 0.00 min
Lab File: VL026266.D
Acq: 29 Oct 2015 13:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 1778123
Ion Ratio Lower Upper
43 100
58 53.3 42.7 64.1
98 0.1 0.0 0.0#

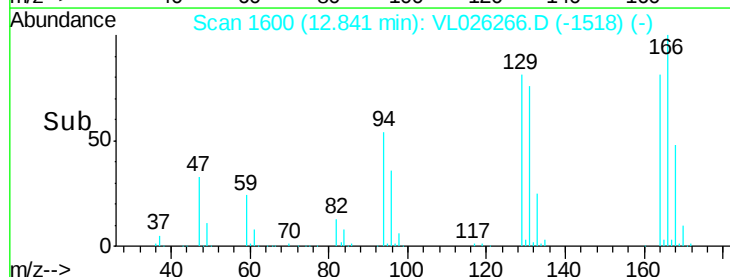
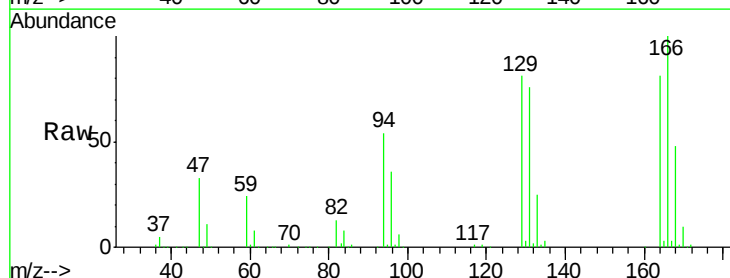
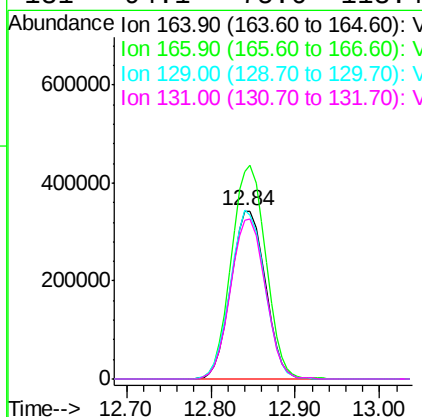
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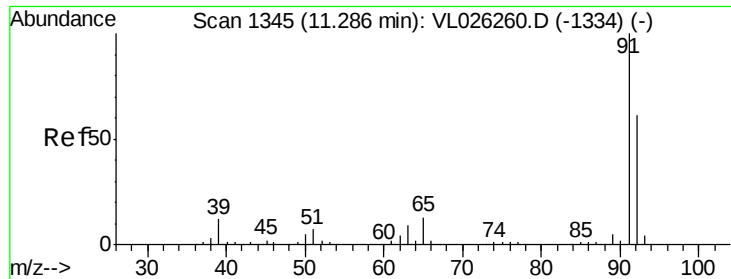
Mmdadoda
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#52
Tetrachloroethene
Concen: 10.66 ppbv
RT: 12.84 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VL026266.D
Acq: 29 Oct 2015 13:16

Tgt Ion:164 Resp: 954071
Ion Ratio Lower Upper
164 100
166 123.6 101.4 152.0
129 100.3 78.8 118.2
131 94.1 75.6 113.4





#53

Toluene

Concen: 12.98 ppbv

RT: 11.29 min Scan# 1345

Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 2980950

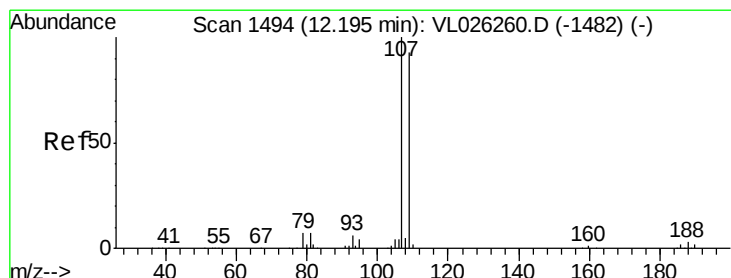
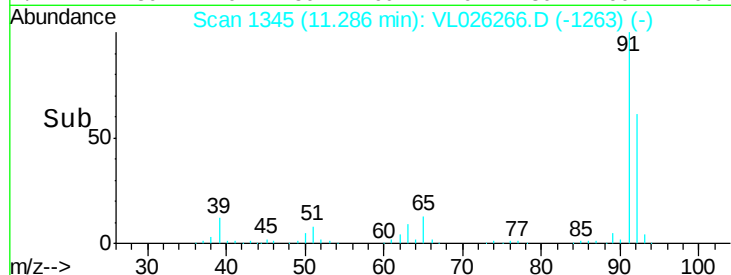
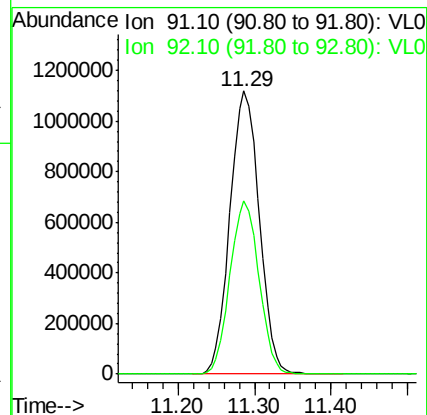
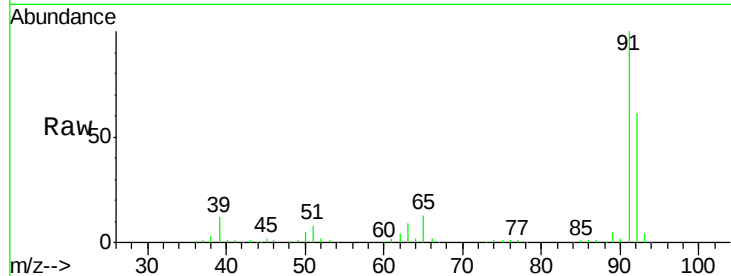
Ion Ratio Lower Upper

91 100

92 60.8 48.6 73.0

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#54

1,2-Dibromoethane

Concen: 12.99 ppbv

RT: 12.19 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VL026266.D

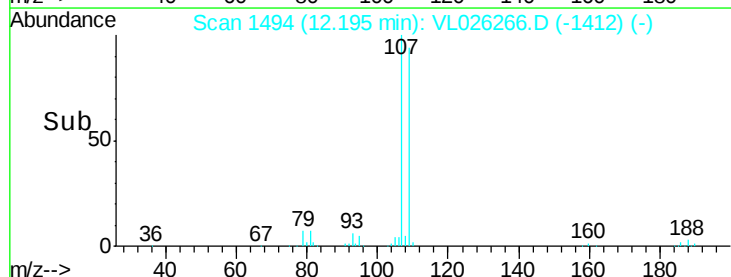
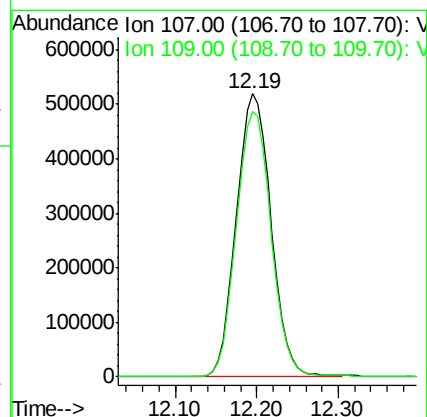
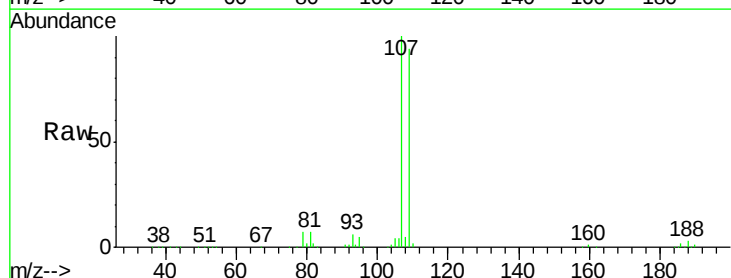
Acq: 29 Oct 2015 13:16

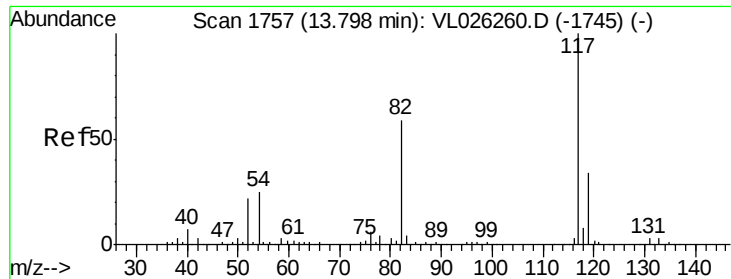
Tgt Ion: 107 Resp: 1532160

Ion Ratio Lower Upper

107 100

109 94.0 74.6 112.0





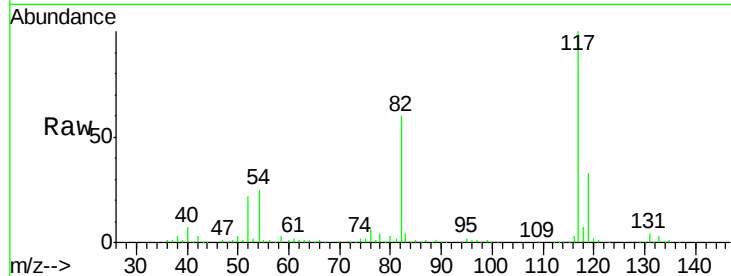
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 13.80 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VL026266.D
Acq: 29 Oct 2015 13:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

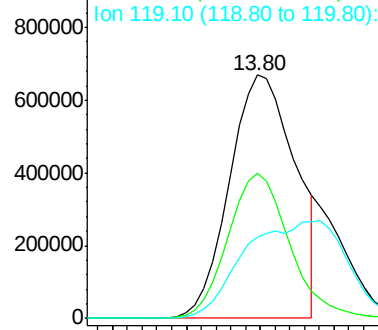
Tot Ion:117 Resp: 2088677
Ion Ratio Lower Upper
117 100
82 0.0 48.2 72.4#
119 62.5 46.2 69.2

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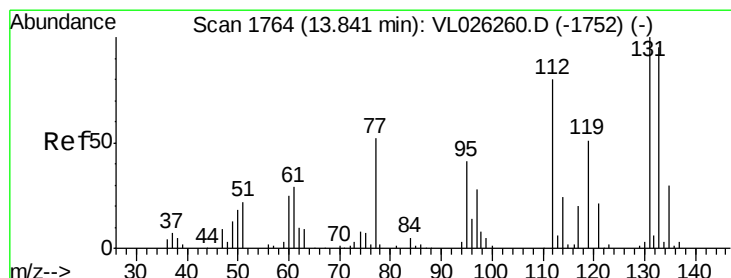
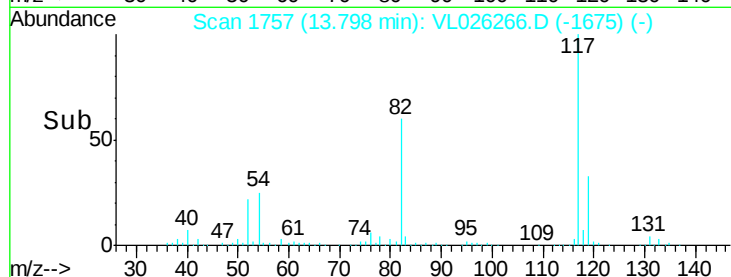
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Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

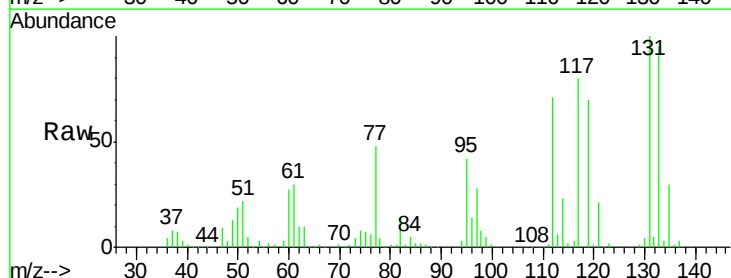


Time-->

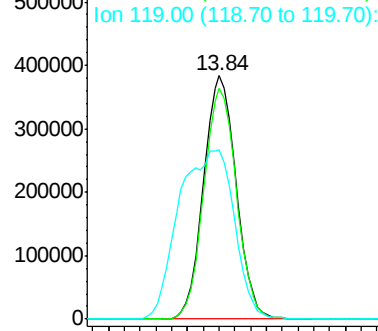


#56
1,1,1,2-Tetrachloroethane
Concen: 12.04 ppbv
RT: 13.84 min Scan# 1764
Delta R.T. 0.00 min
Lab File: VL026266.D
Acq: 29 Oct 2015 13:16

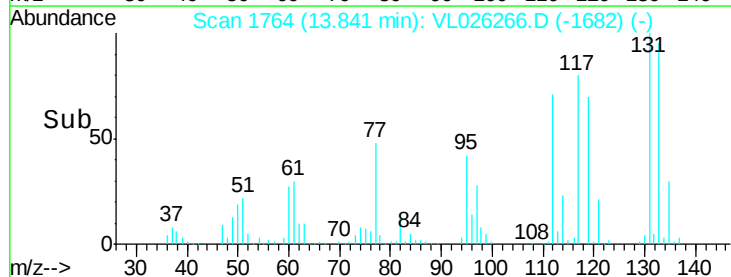
Tgt Ion:131 Resp: 1106358
Ion Ratio Lower Upper
131 100
133 95.3 76.1 114.1
119 118.1 111.3 166.9

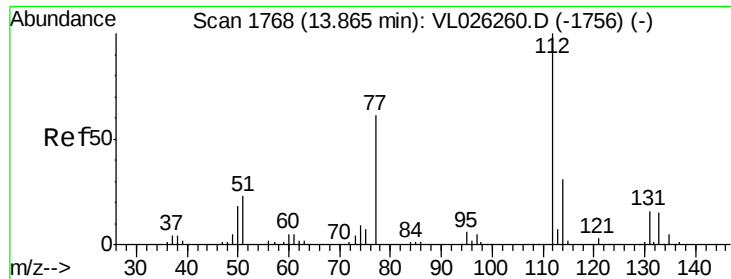


Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V



Time-->





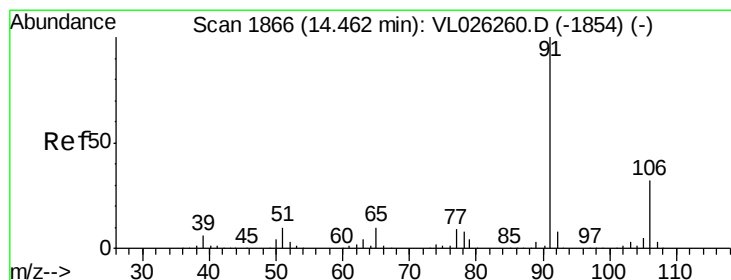
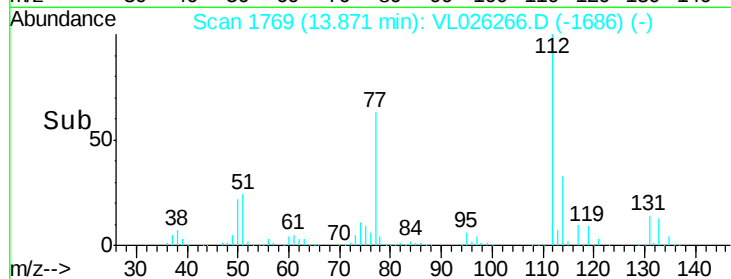
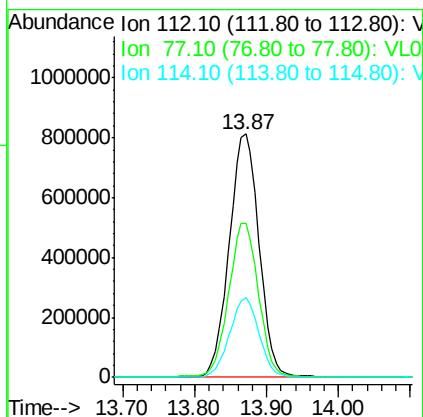
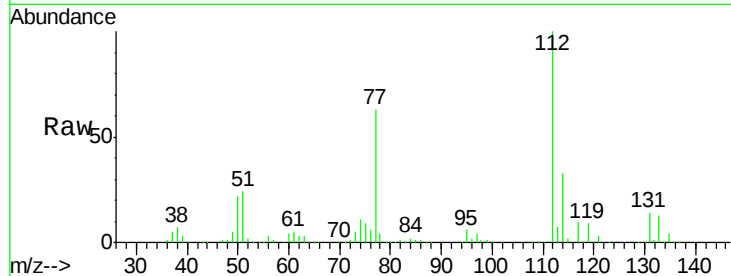
#57
Chlorobenzene
Concen: 11.32 ppbv
RT: 13.87 min Scan# 1769
Delta R.T. 0.01 min
Lab File: VL026266.D
Acq: 29 Oct 2015 13:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:112 Resp: 2346233
Ion Ratio Lower Upper
112 100
77 63.1 49.4 74.0
114 32.7 27.8 34.0

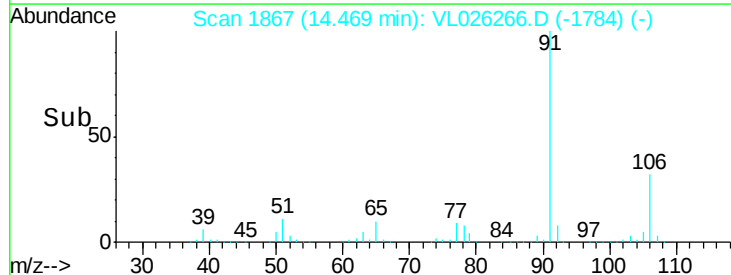
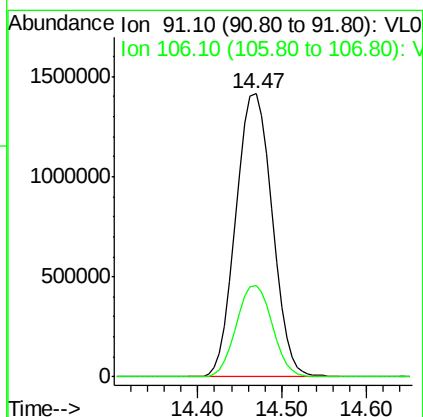
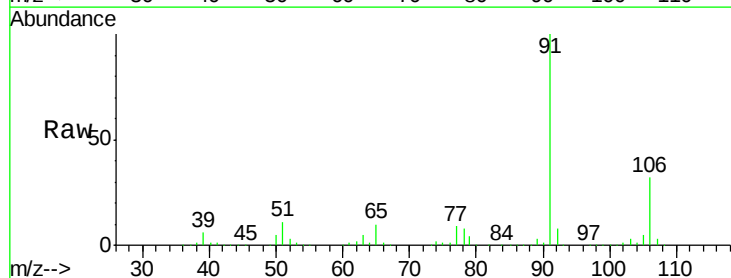
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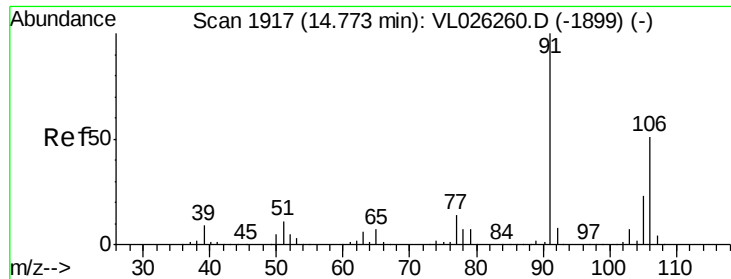
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#58
Ethyl Benzene
Concen: 12.11 ppbv
RT: 14.47 min Scan# 1867
Delta R.T. 0.01 min
Lab File: VL026266.D
Acq: 29 Oct 2015 13:16

Tgt Ion: 91 Resp: 4153888
Ion Ratio Lower Upper
91 100
106 32.3 25.7 38.5





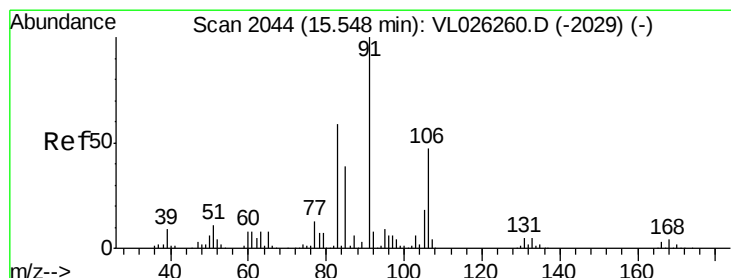
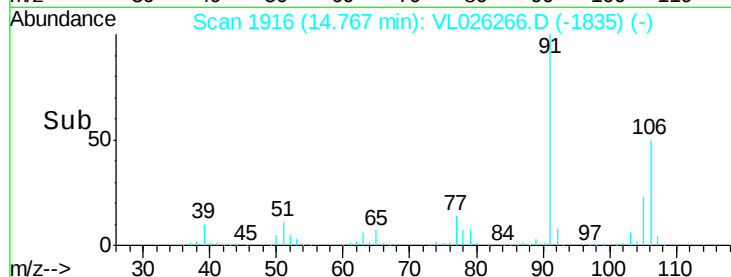
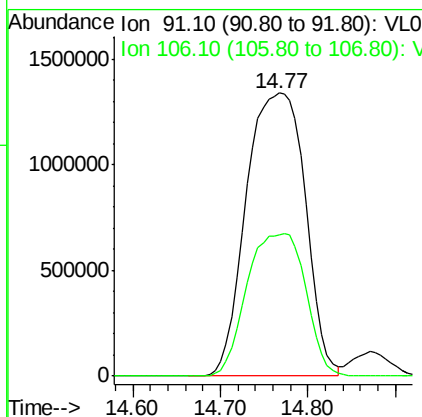
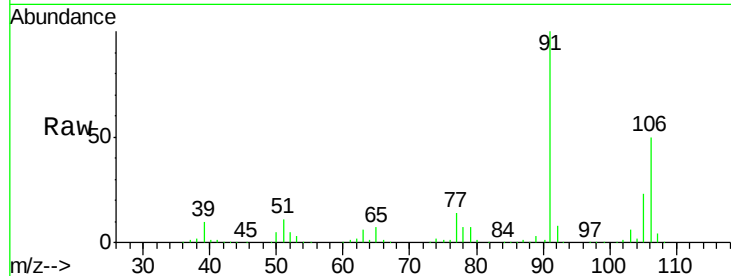
#59
m/p-Xylene
Concen: 23.03 ppbv
RT: 14.77 min Scan# 1916
Delta R.T. -0.01 min
Lab File: VL026266.D
Acq: 29 Oct 2015 13:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 6266698
Ion Ratio Lower Upper
91 100
106 50.4 0.0 0.0#

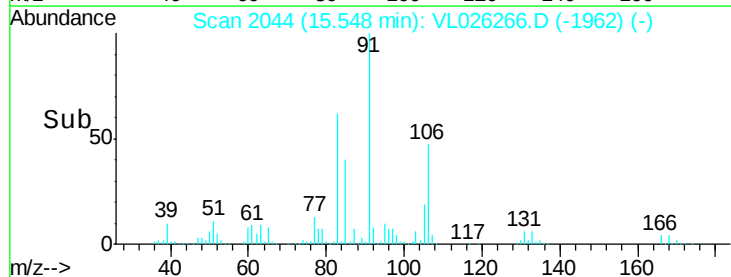
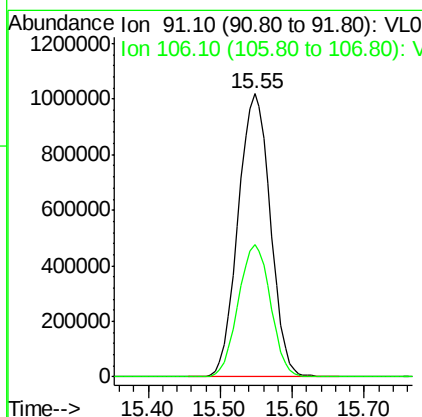
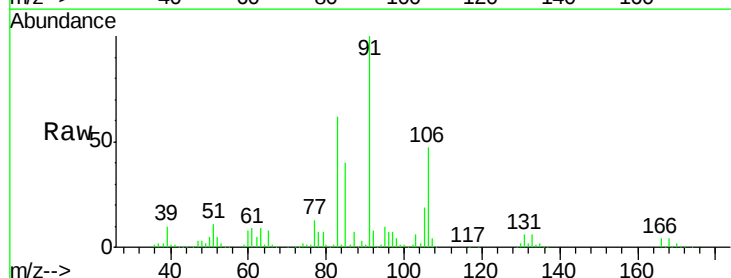
Manual Integrations
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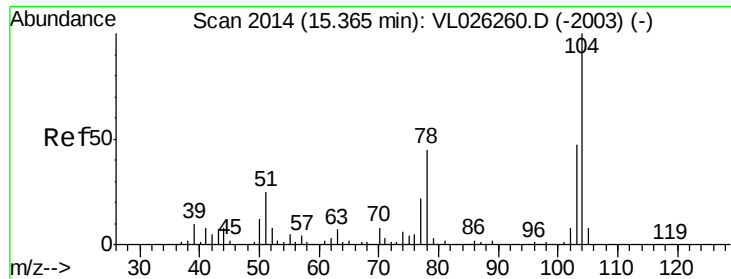
Mmdadoda
10/30/2015 12:06:35 PM



#60
o-Xylene
Concen: 11.13 ppbv
RT: 15.55 min Scan# 2044
Delta R.T. 0.00 min
Lab File: VL026266.D
Acq: 29 Oct 2015 13:16

Tgt Ion: 91 Resp: 3169888
Ion Ratio Lower Upper
91 100
106 46.9 23.6 70.8





#61

Stvrene

Concen: 13.62 ppbv

RT: 15.36 min Scan# 2014

Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:104 Resp: 1654218

Ion Ratio Lower Upper

104 100

78 44.9 35.5 53.3

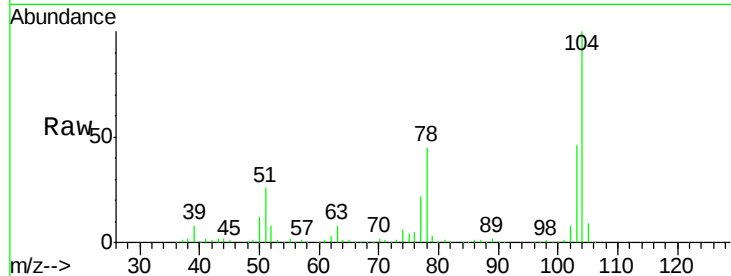
103 46.6 37.0 55.6

Manual Integrations

APPROVED

Mmdadoda

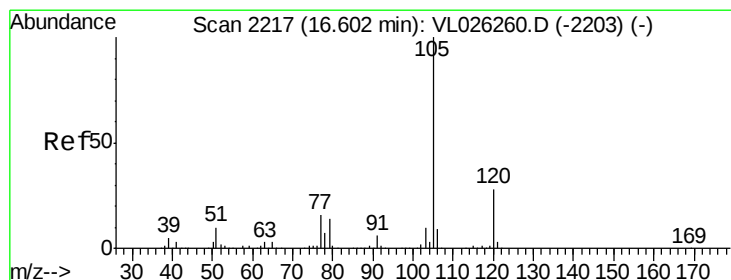
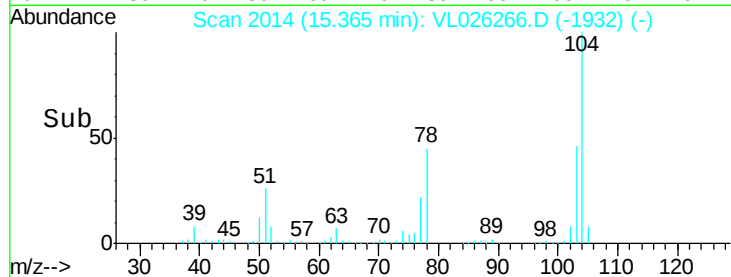
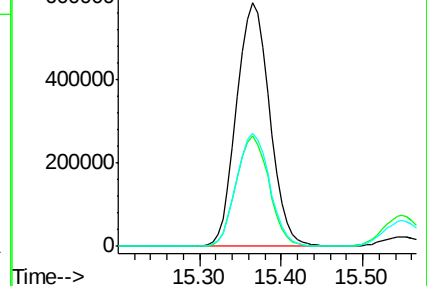
10/30/2015 12:06:35 PM



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: 11.72 ppbv

RT: 16.60 min Scan# 2217

Delta R.T. 0.00 min

Lab File: VL026266.D

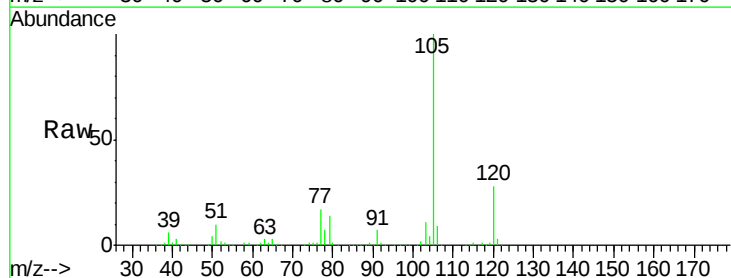
Acq: 29 Oct 2015 13:16

Tgt Ion:105 Resp: 4536483

Ion Ratio Lower Upper

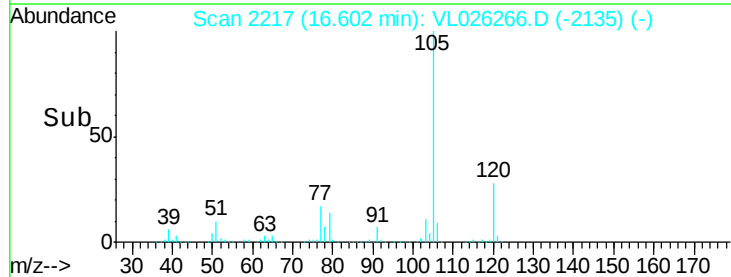
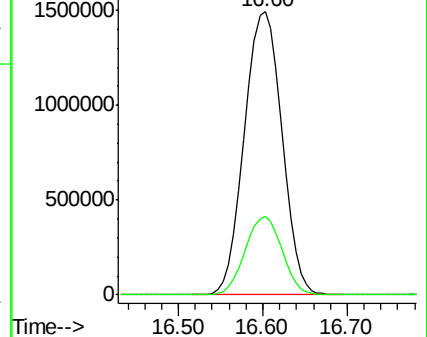
105 100

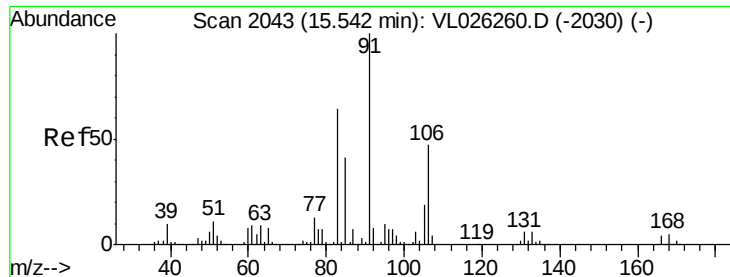
120 27.2 21.7 32.5



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: 10.63 ppbv

RT: 15.54 min Scan# 2043

Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 2127375

Ion Ratio Lower Upper

83 100

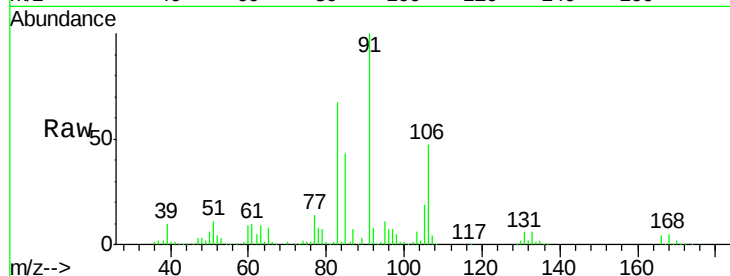
131 9.3 4.6 13.8

85 64.8 32.4 97.2

Manual Integrations
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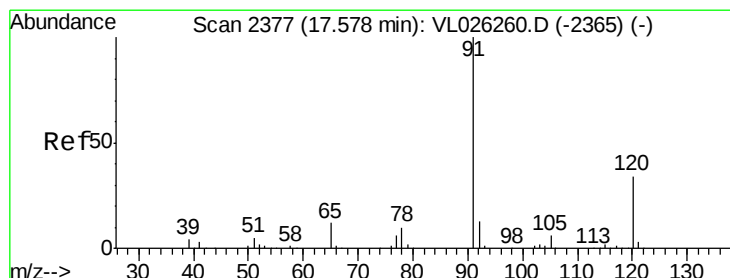
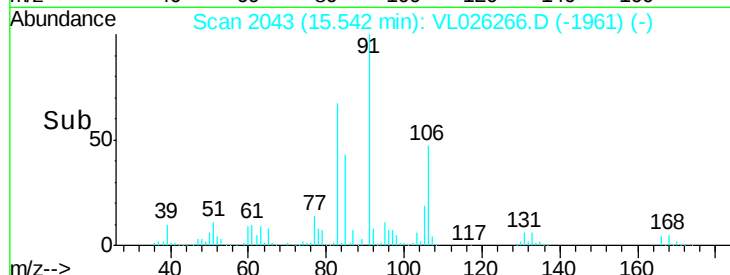
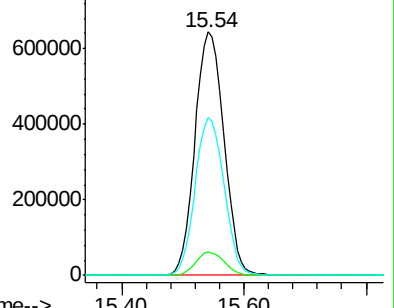
10/30/2015 12:06:35 PM



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: 11.94 ppbv

RT: 17.58 min Scan# 2377

Delta R.T. 0.00 min

Lab File: VL026266.D

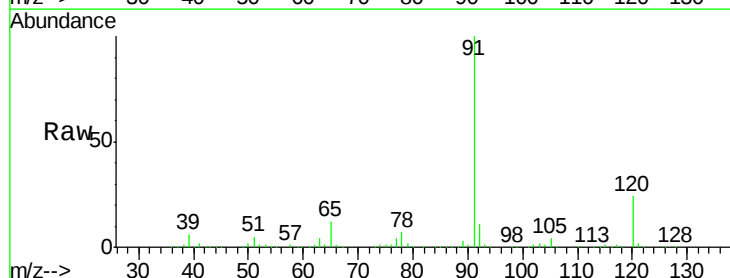
Acq: 29 Oct 2015 13:16

Tgt Ion:120 Resp: 1260006

Ion Ratio Lower Upper

120 100

91 425.3 340.8 511.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

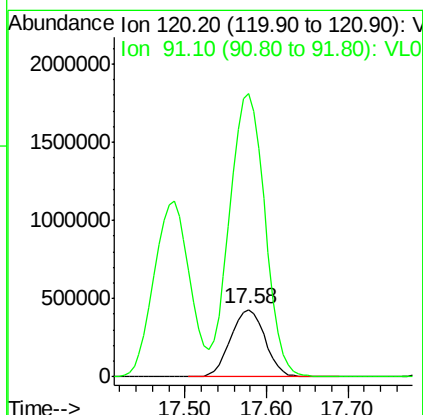
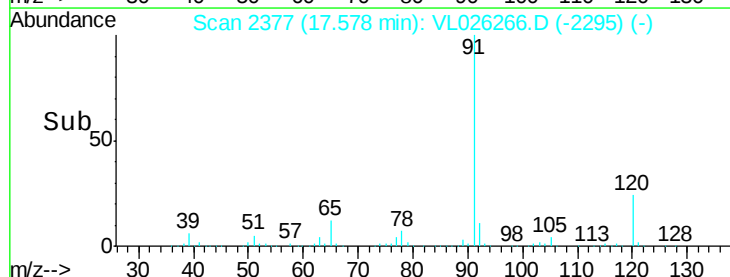
Ion 91.10 (90.80 to 91.80): VL0

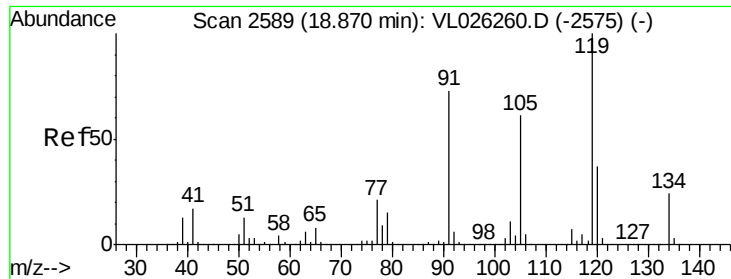
Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 91.10 (90.80 to 91.80): VL0





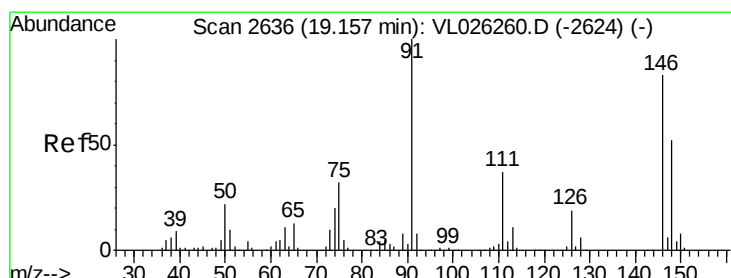
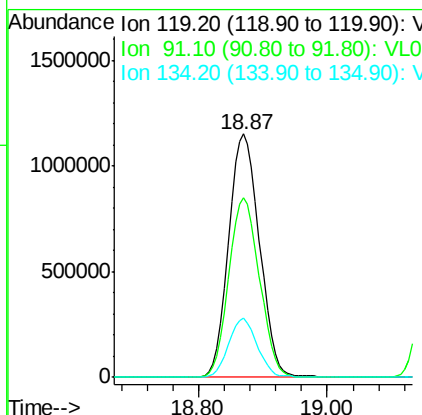
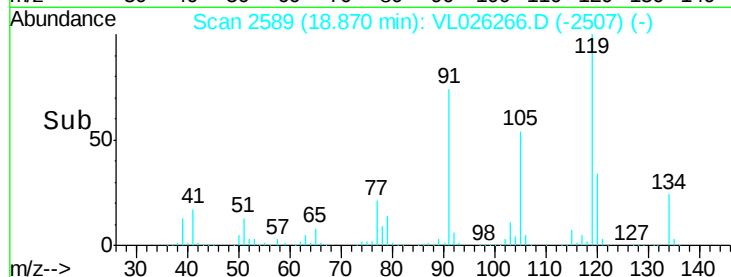
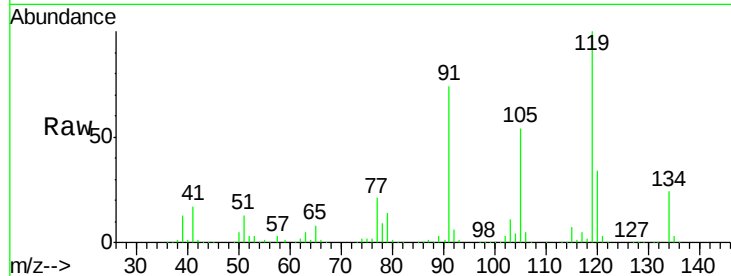
#65
 tert-Butylbenzene
 Concen: 11.02 ppbv
 RT: 18.87 min Scan# 2589
 Delta R.T. 0.00 min
 Lab File: VL026266.D
 Acq: 29 Oct 2015 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 119 Resp: 3853892
 Ion Ratio Lower Upper
 119 100
 91 73.4 57.7 86.5
 134 22.5 18.0 27.0

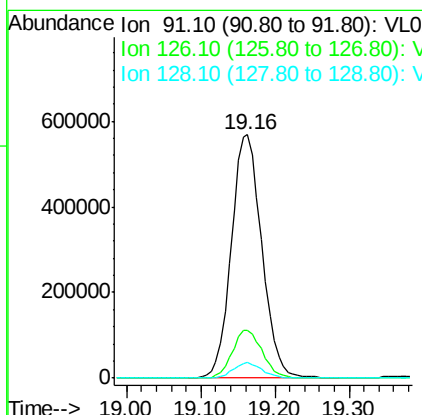
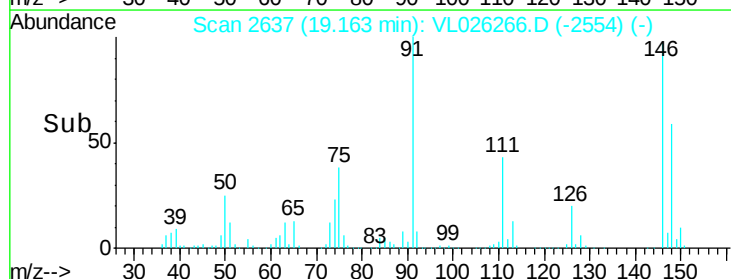
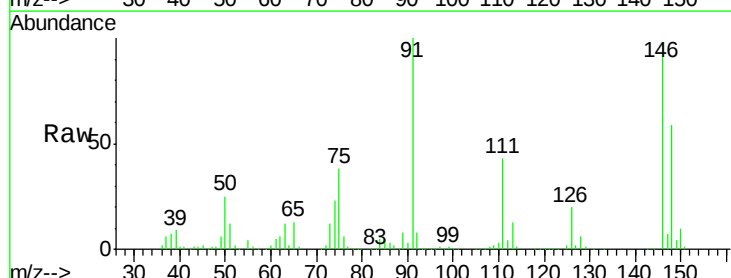
Manual Integrations
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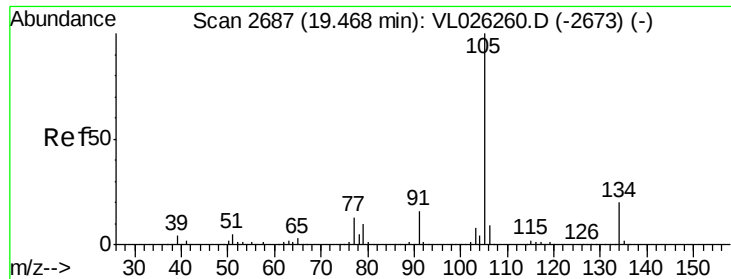
Mmdadoda
 10/30/2015 12:06:35 PM



#66
 Benzyl Chloride
 Concen: 14.45 ppbv
 RT: 19.16 min Scan# 2637
 Delta R.T. 0.01 min
 Lab File: VL026266.D
 Acq: 29 Oct 2015 13:16

Tgt Ion: 91 Resp: 1623045
 Ion Ratio Lower Upper
 91 100
 126 19.5 15.8 23.8
 128 6.1 5.0 7.6





#67

sec-Butylbenzene

Concen: 11.49 ppbv

RT: 19.47 min Scan# 2687

Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 5685318

Ion Ratio Lower Upper

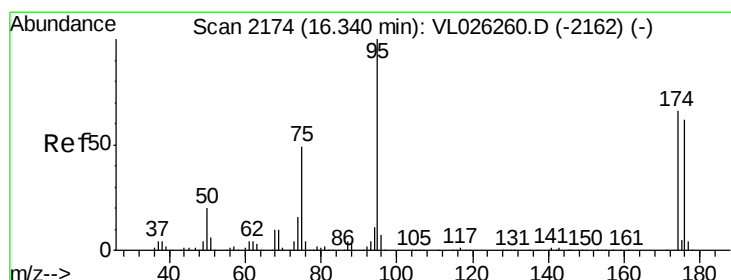
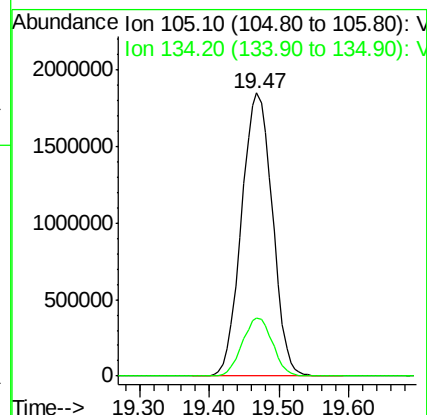
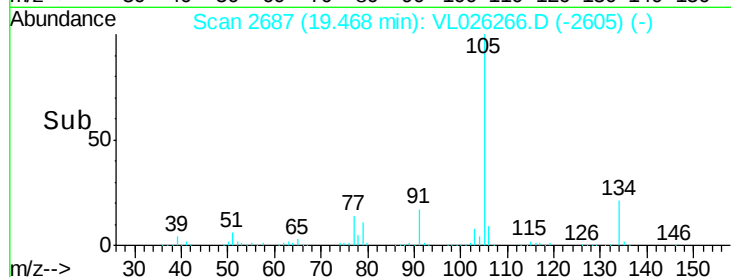
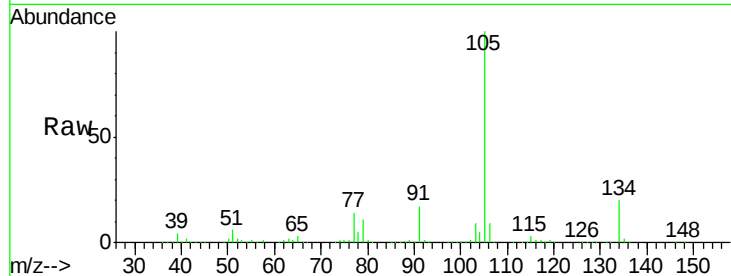
105 100

134 20.1 16.0 24.0

Manual Integrations
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Mmdadoda

10/30/2015 12:06:35 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.46 ppbv

RT: 16.35 min Scan# 2175

Delta R.T. 0.01 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

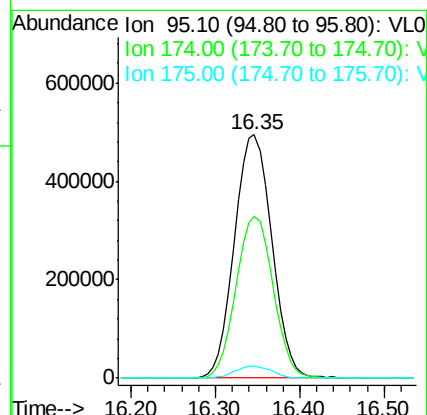
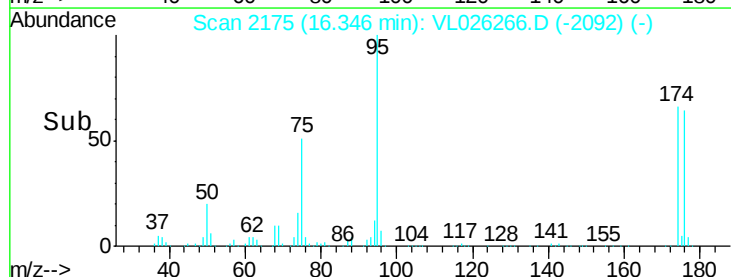
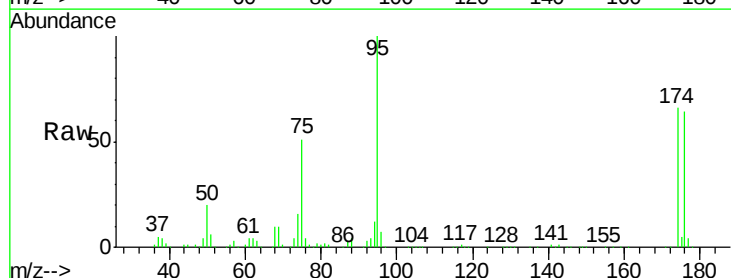
Tgt Ion: 95 Resp: 1498533

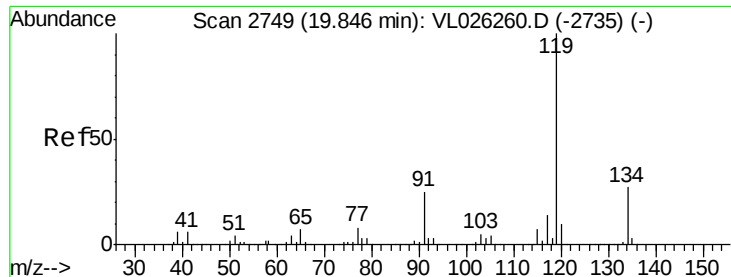
Ion Ratio Lower Upper

95 100

174 66.0 52.9 79.3

175 4.9 3.8 5.8





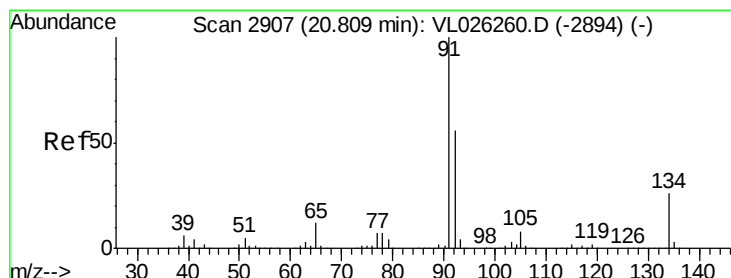
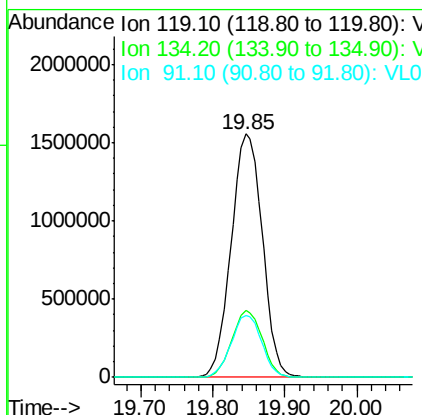
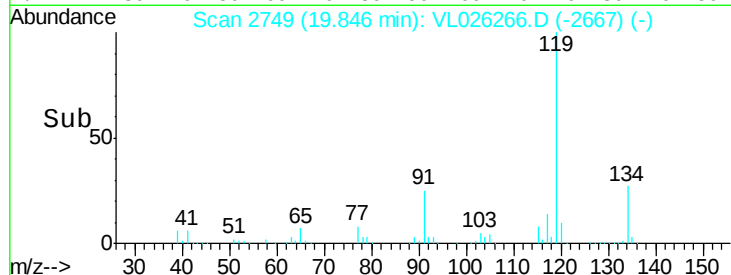
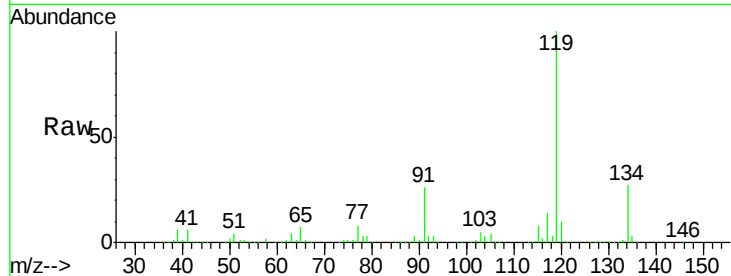
#69
p-Isopropyltoluene
Concen: 11.57 ppbv
RT: 19.85 min Scan# 2749
Delta R.T. 0.00 min
Lab File: VL026266.D
Acq: 29 Oct 2015 13:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 119 Resp: 4680084
Ion Ratio Lower Upper
119 100
134 26.9 21.3 31.9
91 25.0 19.6 29.4

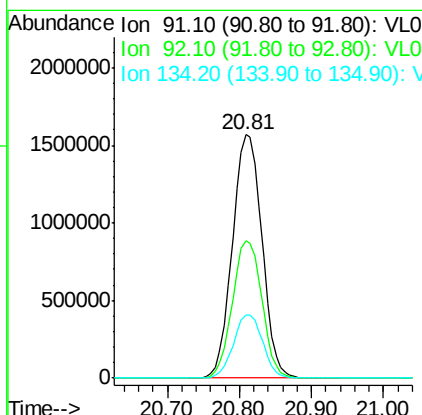
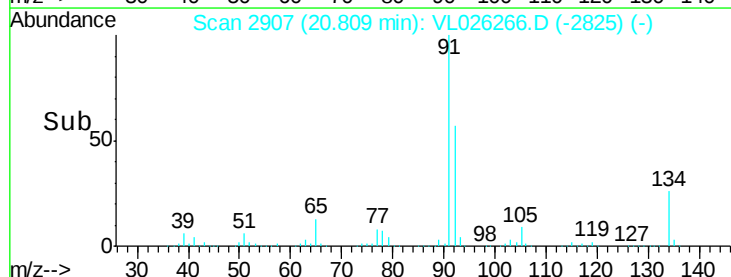
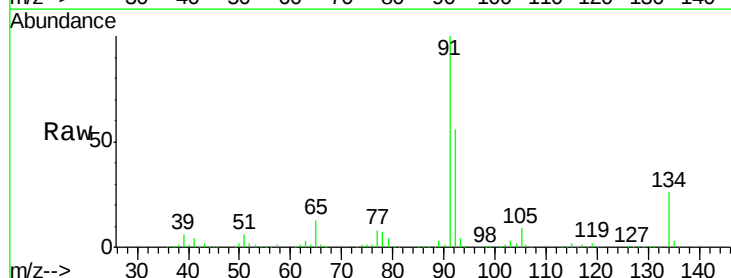
Manual Integrations
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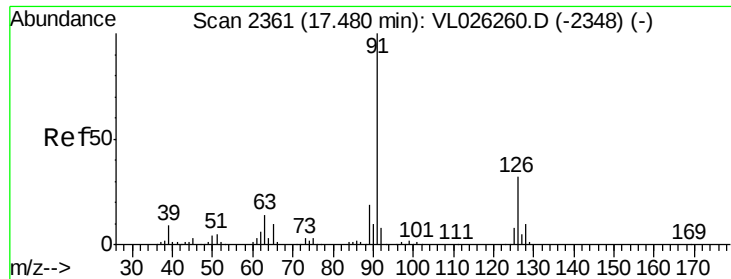
Mmdadoda
10/30/2015 12:06:35 PM



#70
n-Butylbenzene
Concen: 11.69 ppbv
RT: 20.81 min Scan# 2907
Delta R.T. 0.00 min
Lab File: VL026266.D
Acq: 29 Oct 2015 13:16

Tgt Ion: 91 Resp: 4478341
Ion Ratio Lower Upper
91 100
92 56.3 44.9 67.3
134 25.8 20.5 30.7





#71

2-Chlorotoluene

Concen: 12.13 ppbv

RT: 17.49 min Scan# 2362

Delta R.T. 0.01 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3455107

Ion Ratio Lower Upper

91 100

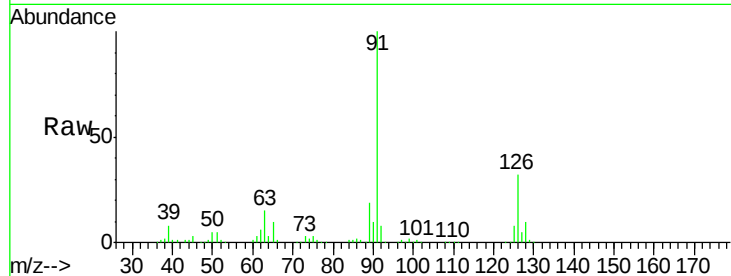
126 31.7 12.8 51.0

Manual Integrations

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

2000000

1500000

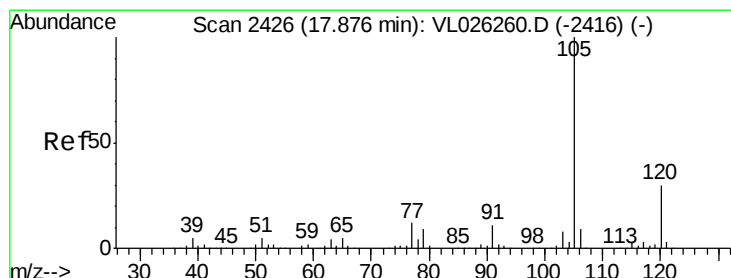
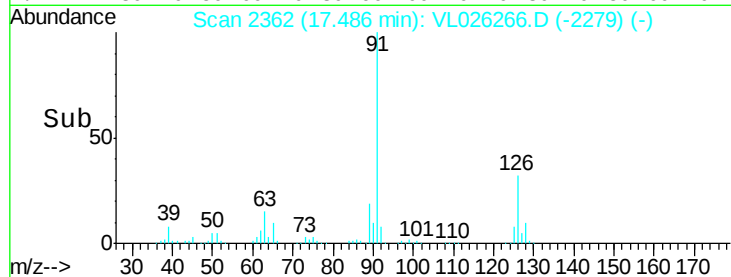
1000000

500000

0

17.40 17.50

Time-->



#72

4-Ethyltoluene

Concen: 12.16 ppbv

RT: 17.88 min Scan# 2426

Delta R.T. 0.00 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Tgt Ion:105 Resp: 3899580

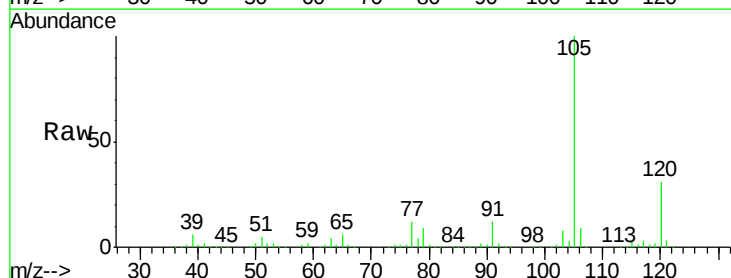
Ion Ratio Lower Upper

105 100

120 31.4 25.1 37.7

91 11.6 9.1 13.7

77 12.3 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

2000000

1500000

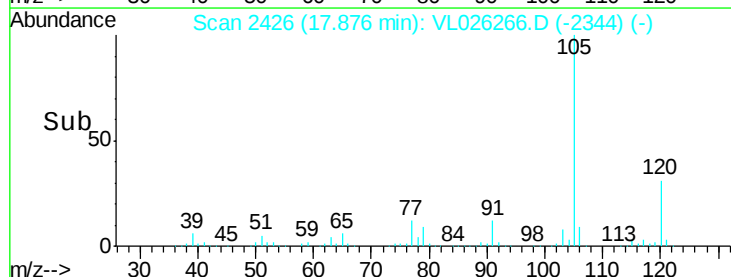
1000000

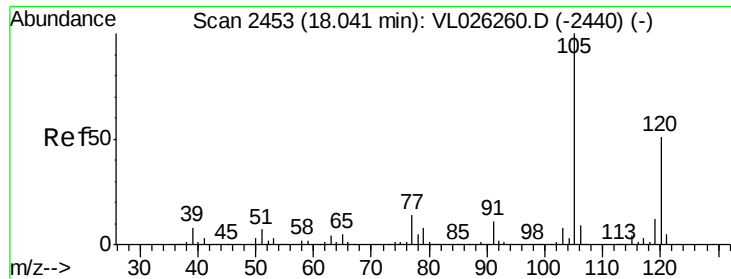
500000

0

17.80 17.90 18.00

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 12.00 ppbv

RT: 18.05 min Scan# 2454

Delta R.T. 0.01 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 3627629

Ion Ratio Lower Upper

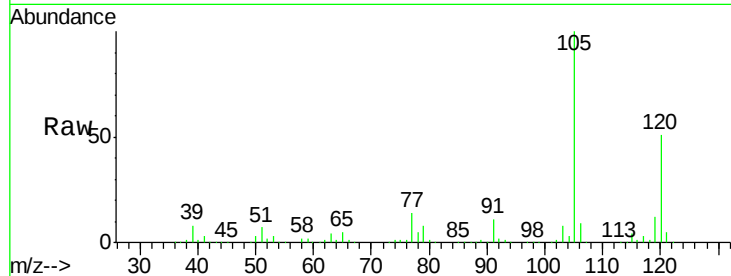
105 100

120 51.0 40.6 61.0

Manual Integrations
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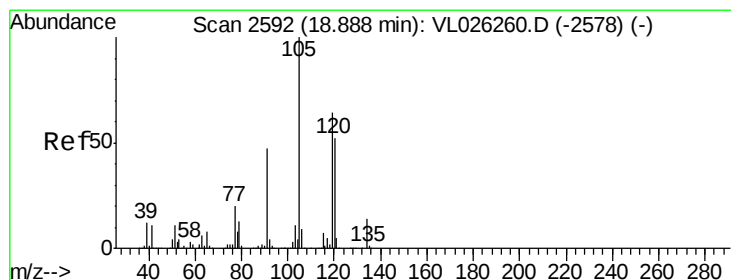
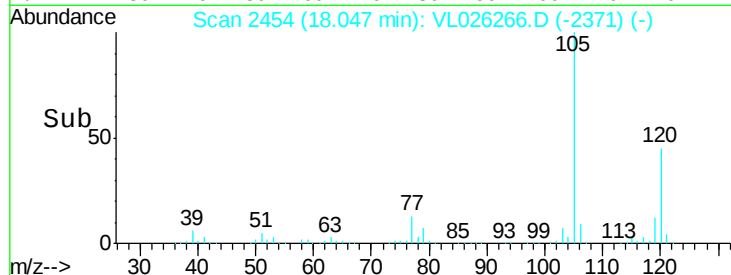
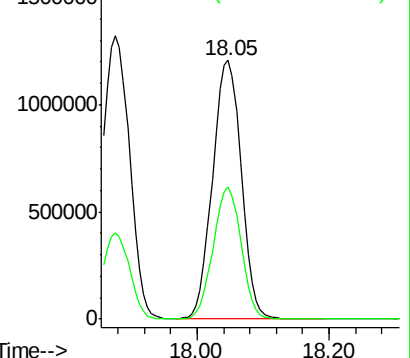
Mmdadoda

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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: 11.08 ppbv

RT: 18.89 min Scan# 2593

Delta R.T. 0.01 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Tgt Ion:105 Resp: 3497526

Ion Ratio Lower Upper

105 100

120 50.9 41.2 61.8

91 41.4 37.8 56.8

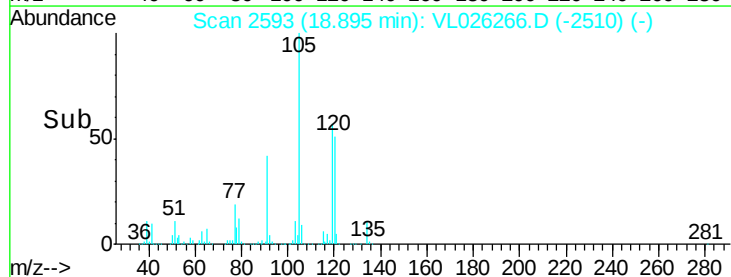
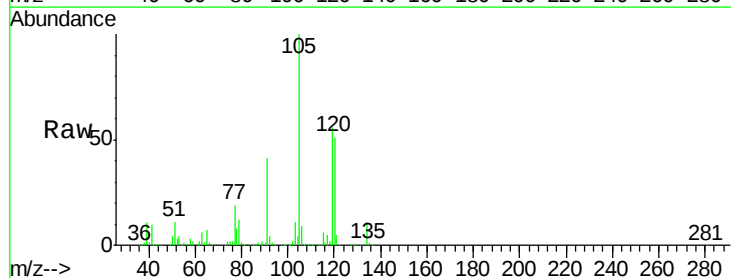
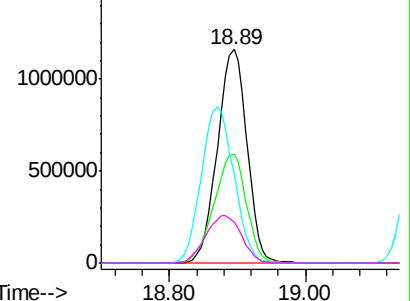
77 19.3 16.1 24.1

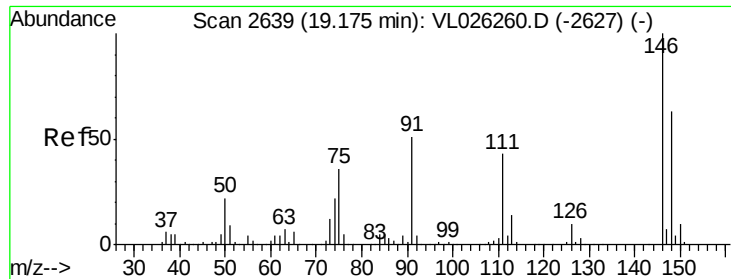
Abundance Ion 105.10 (104.80 to 105.80): V

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: 11.33 ppbv

RT: 19.18 min Scan# 2640

Delta R.T. 0.01 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 2329483

Ion Ratio Lower Upper

146 100

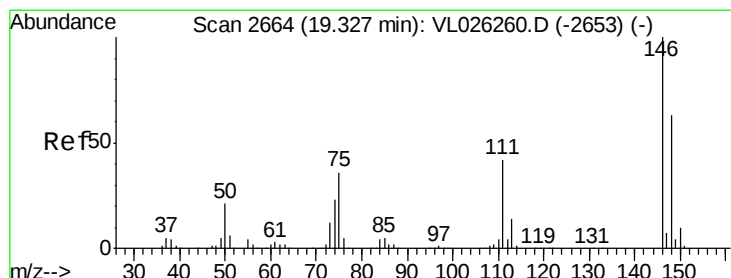
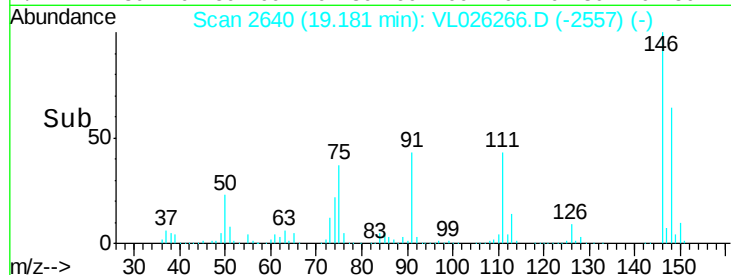
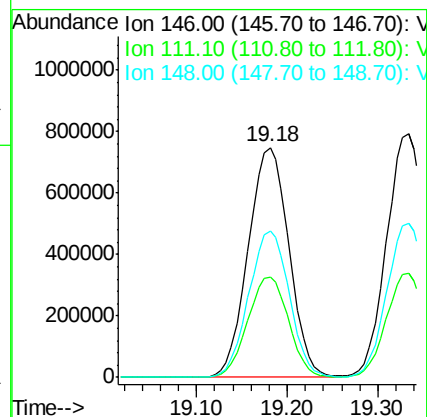
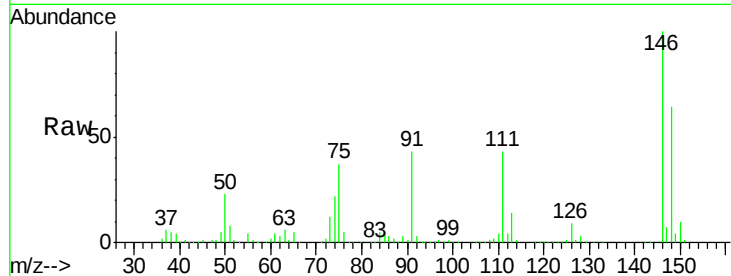
111 43.7 21.9 65.5

148 63.4 31.8 95.3

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#76

1,4-Dichlorobenzene

Concen: 11.59 ppbv

RT: 19.33 min Scan# 2665

Delta R.T. 0.01 min

Lab File: VL026266.D

Acq: 29 Oct 2015 13:16

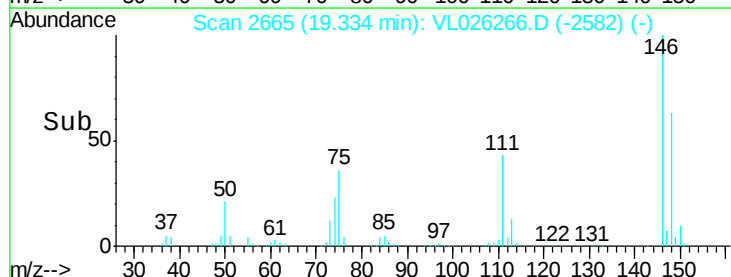
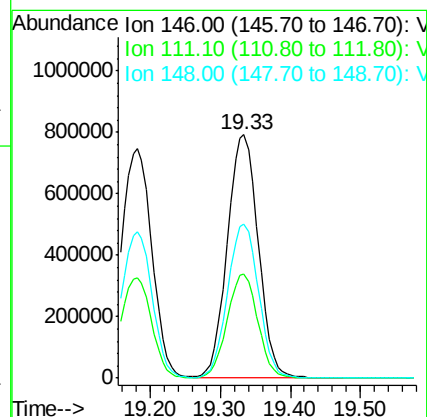
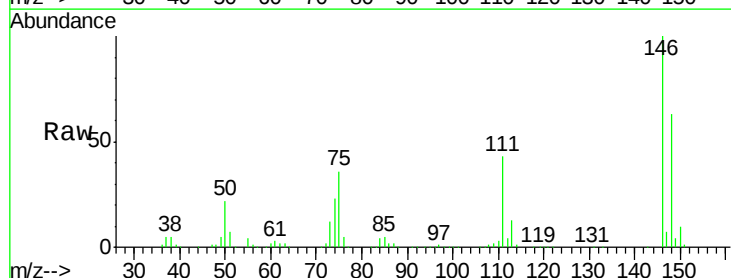
Tgt Ion:146 Resp: 2430520

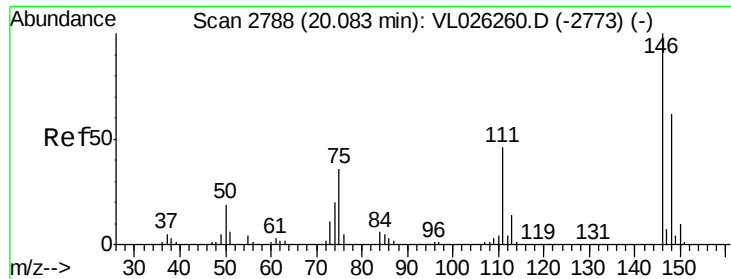
Ion Ratio Lower Upper

146 100

111 42.5 21.1 63.4

148 63.6 31.8 95.3





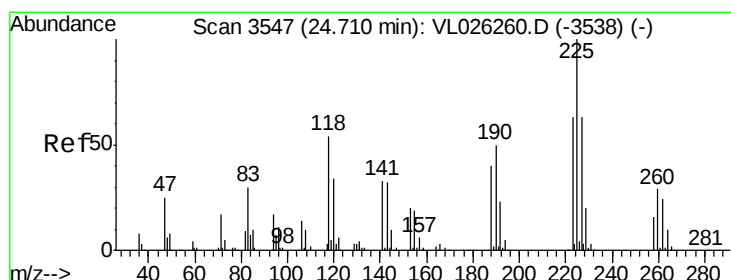
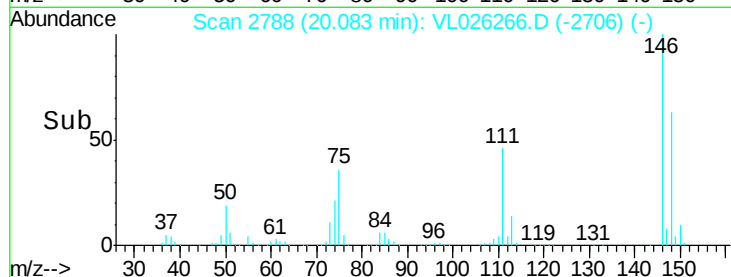
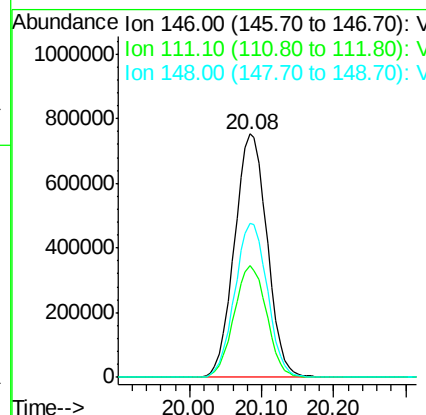
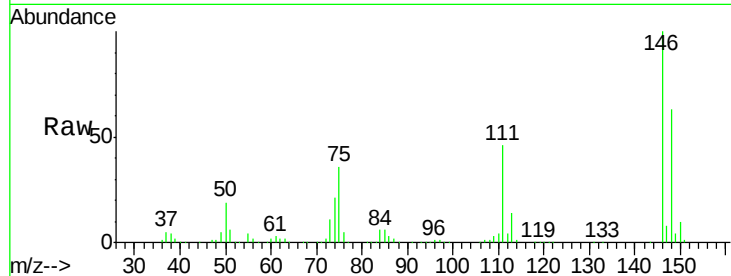
#77
 1,2-Dichlorobenzene
 Concen: 11.51 ppbv
 RT: 20.08 min Scan# 2788
 Delta R.T. 0.00 min
 Lab File: VL026266.D
 Acq: 29 Oct 2015 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.1	22.8	68.3
148	63.5	31.6	94.8

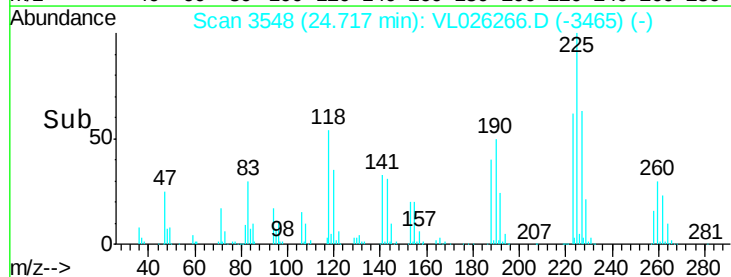
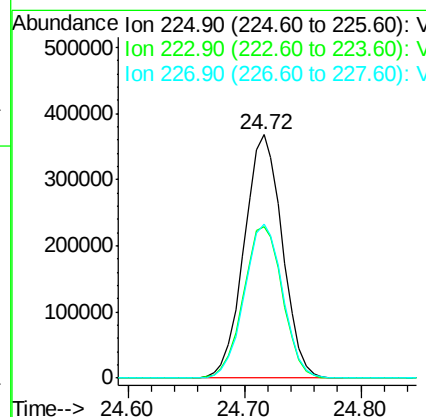
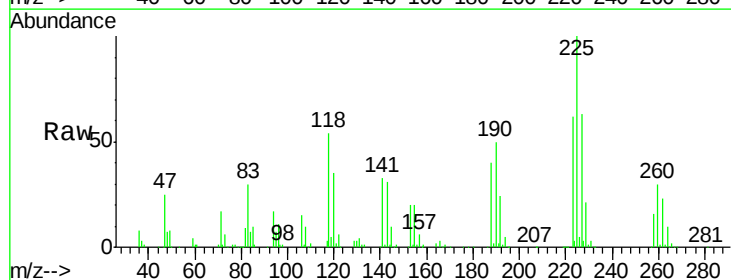
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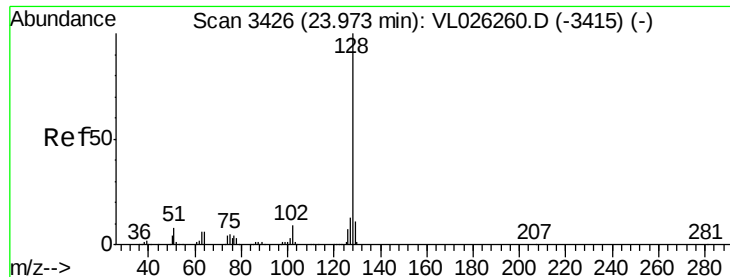
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#78
 Hexachloro-1,3-Butadiene
 Concen: 9.80 ppbv
 RT: 24.72 min Scan# 3548
 Delta R.T. 0.01 min
 Lab File: VL026266.D
 Acq: 29 Oct 2015 13:16

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.7	51.0	76.6
227	63.6	51.3	76.9





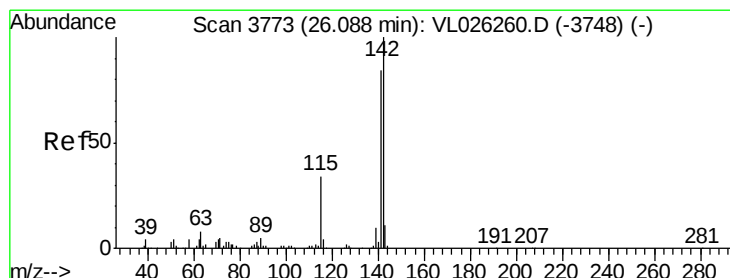
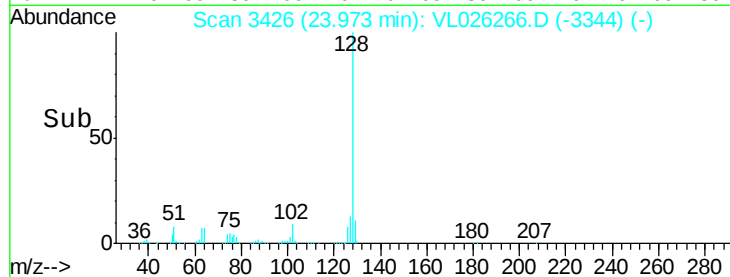
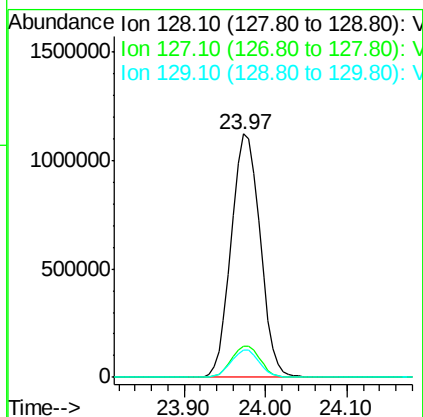
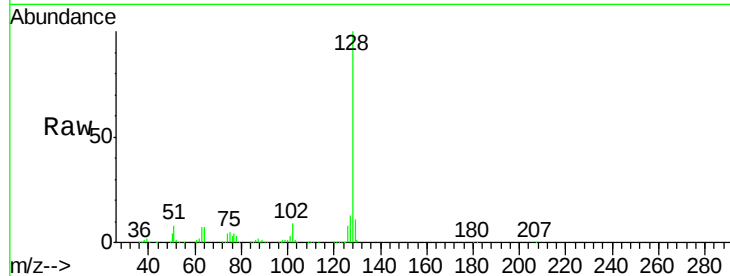
#79
Naphthalene
Concen: 11.63 ppbv
RT: 23.97 min Scan# 3426
Delta R.T. 0.00 min
Lab File: VL026266.D
Acq: 29 Oct 2015 13:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	11.2	8.8	13.2

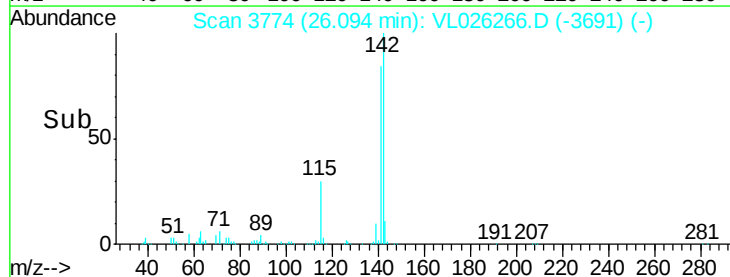
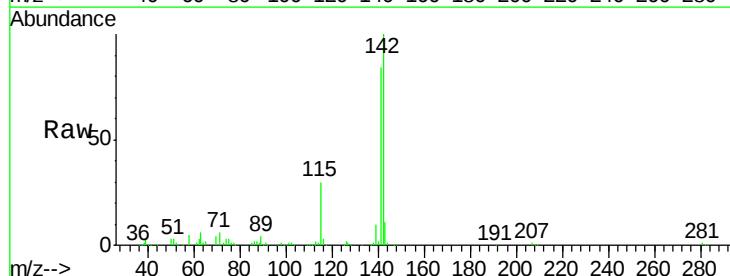
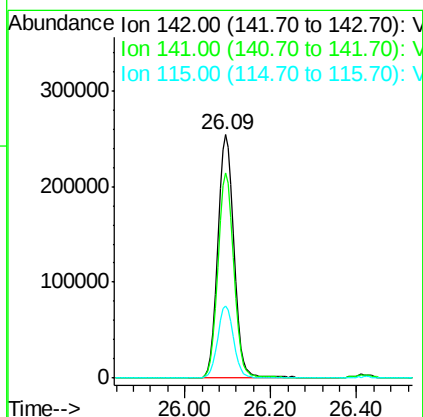
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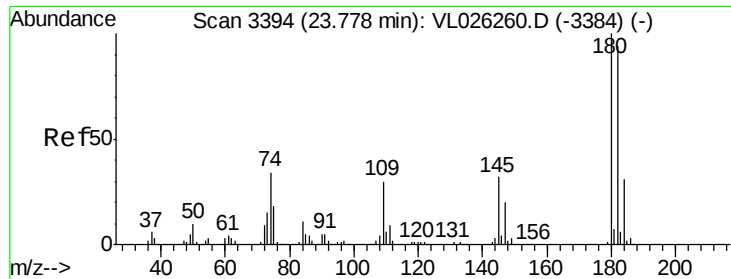
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#80
Naphthalene, 2-methyl-
Concen: 17.08 ppbv
RT: 26.09 min Scan# 3774
Delta R.T. 0.01 min
Lab File: VL026266.D
Acq: 29 Oct 2015 13:16

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.4	66.1	99.1
115	29.8	28.1	42.1





#81
 1,2,4-Trichlorobenzene
 Concen: 11.03 ppbv
 RT: 23.78 min Scan# 3394
 Delta R.T. 0.00 min
 Lab File: VL026266.D
 Acq: 29 Oct 2015 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.0	114.0
184	30.0	24.2	36.4

Manual Integrations
 APPROVED

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