

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL020916\
 Data File : VL026852.D
 Acq On : 10 Feb 2016 14:21
 Operator : SY/AP
 Sample : VSTDCCV010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCV010EC

Manual Integrations
 APPROVED

MMDadoda
 2/11/2016 1:25:12 PM

Quant Time: Feb 11 01:20:04 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL020916AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 11 2016
 QLast Update : Wed Feb 10 03:14:04 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.69	49	1636829	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.37	114	5044423	10.00	ppbv	-0.01
55) Chlorobenzene-d5	13.79	117	5248836m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.33	95	3564728	9.46	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.60%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.67	85	3662540	10.35	ppbv	99
3) Chlorodifluoromethane	3.59	51	1838724	6.92	ppbv	99
4) Chloromethane	3.78	50	1054595	10.05	ppbv	99
5) Vinyl Chloride	3.91	62	1197377	10.13	ppbv	98
6) Bromomethane	4.17	94	1022698	10.42	ppbv	95
7) Chloroethane	4.26	64	545613	10.52	ppbv	98
8) Dichlorotetrafluoroethane	3.83	85	3317545	10.55	ppbv	94
9) Propene	3.62	41	758479	10.57	ppbv	99
10) Heptane	9.39	43	2774624	11.81	ppbv	98
11) Trichlorofluoromethane	4.72	101	4406917	10.50	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	5.33	101	3209062	10.80	ppbv	95
13) Ethanol	4.35	45	92255	7.48	ppbv	94
14) Bromoethene	4.48	108	1236400	11.37	ppbv	99
15) Acetone	4.62	43	1888485	8.40	ppbv	99
16) 1,3-Butadiene	4.00	39	887270	10.10	ppbv	97
17) tert-Butyl alcohol	5.15	59	1785470	12.03	ppbv	100
18) 1,1-Dichloroethene	5.11	96	1395841	11.22	ppbv	95
19) Isopropyl Alcohol	4.78	45	867322	10.81	ppbv	100
20) Methylene Chloride	5.18	84	1217904	10.45	ppbv	93
21) Allyl Chloride	5.26	41	1381771	9.95	ppbv	95
22) trans-1,2-Dichloroethene	5.79	96	1378280	12.27	ppbv	94
23) Vinyl Acetate	6.01	43	3318198	10.88	ppbv	99
24) 1,1-Dichloroethane	5.94	63	2692038	11.04	ppbv	99
25) Ethyl Acetate	6.70	43	3929733	11.65	ppbv	99
26) Hexane	6.69	57	2157353	11.34	ppbv	96
27) Carbon Disulfide	5.42	76	3608523	11.01	ppbv	98
28) Methyl tert-Butyl Ether	5.98	73	3551047	11.95	ppbv	99
29) Chloroform	6.78	83	3417309	11.55	ppbv	99
30) Cyclohexane	8.32	84	2032379	13.13	ppbv	92
31) cis-1,2-Dichloroethene	6.55	61	1932420	12.17	ppbv	94
32) 1,1,1-Trichloroethane	7.63	97	3491664	11.73	ppbv	98
34) 2-Butanone	6.23	43	2390198	9.67	ppbv	96
35) Carbon Tetrachloride	8.20	117	3864770	10.54	ppbv	99
36) Benzene	8.06	78	4474816	11.18	ppbv	98
37) 1,2-Dichloroethane	7.41	62	2491196	9.94	ppbv	97
38) Trichloroethene	9.10	130	2282075	12.37	ppbv	97
39) 1,2-Dichloropropane	8.87	63	1591247	10.52	ppbv	97
40) 1,4-Dioxane	9.15	88	287899	10.73	ppbv #	51
41) Tetrahydrofuran	7.15	42	1348527	11.08	ppbv	93
42) Bromodichloromethane	9.07	83	3700810	10.97	ppbv	98
43) Methyl Methacrylate	9.31	69	1702621	12.13	ppbv	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.12	57	7225470	10.56	ppbv	98
45) t-1,3-Dichloropropene	10.70	75	2476445	13.12	ppbv	99
46) cis-1,3-Dichloropropene	10.06	75	2969282	12.92	ppbv	94
47) 1,1,2-Trichloroethane	10.92	97	1974584	11.79	ppbv	99
48) Dibromochloromethane	11.85	129	3493510	12.77	ppbv #	10
49) Bromoform	14.86	173	2929070	14.21	ppbv	100
50) 4-Methyl-2-Pentanone	10.13	43	3291612	11.29	ppbv	96
51) 2-Hexanone	11.65	43	3041126	12.44	ppbv	93
52) Tetrachloroethene	12.83	164	2137559	13.57	ppbv	97
53) Toluene	11.28	91	5739050	12.74	ppbv	99
54) 1,2-Dibromoethane	12.19	107	3090165	12.40	ppbv	98
56) 1,1,1,2-Tetrachloroethane	13.83	131	2629405	11.37	ppbv	99
57) Chlorobenzene	13.86	112	4924211	11.34	ppbv	96
58) Ethyl Benzene	14.46	91	7552655	11.95	ppbv	98
59) m/p-Xylene	14.77	91	12287680	22.76	ppbv	96
60) o-Xylene	15.54	91	6787156	11.49	ppbv	97
61) Styrene	15.36	104	2708348	13.55	ppbv	97
62) Isopropylbenzene	16.59	105	8264151	11.65	ppbv	97
63) 1,1,2,2-Tetrachloroethane	15.54	83	4650736	11.53	ppbv	99
64) n-propylbenzene	17.57	120	2257330	12.38	ppbv	92
65) tert-Butylbenzene	18.86	119	8210177	12.57	ppbv	96
66) Benzyl Chloride	19.16	91	3083931	14.54	ppbv	98
67) sec-Butylbenzene	19.46	105	10134008	11.91	ppbv	97
69) p-Isopropyltoluene	19.84	119	8732940	12.67	ppbv	98
70) n-Butylbenzene	20.80	91	8062179	12.27	ppbv	97
71) 2-Chlorotoluene	17.47	91	5934548	12.26	ppbv	95
72) 4-Ethyltoluene	17.87	105	6906603	12.69	ppbv	98
73) 1,3,5-Trimethylbenzene	18.04	105	6541616	12.34	ppbv	97
74) 1,2,4-Trimethylbenzene	18.88	105	7258327	12.04	ppbv	95
75) 1,3-Dichlorobenzene	19.17	146	4612224	12.63	ppbv	99
76) 1,4-Dichlorobenzene	19.32	146	4565435	12.78	ppbv	98
77) 1,2-Dichlorobenzene	20.08	146	4421928	12.74	ppbv	99
78) Hexachloro-1,3-Butadiene	24.71	225	2164946	13.13	ppbv	100
79) Naphthalene	23.97	128	4455660	15.39	ppbv	99
80) Naphthalene, 2-methyl-	26.09	142	975671	8.30	ppbv	98
81) 1,2,4-Trichlorobenzene	23.77	180	2260919	14.45	ppbv	100

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

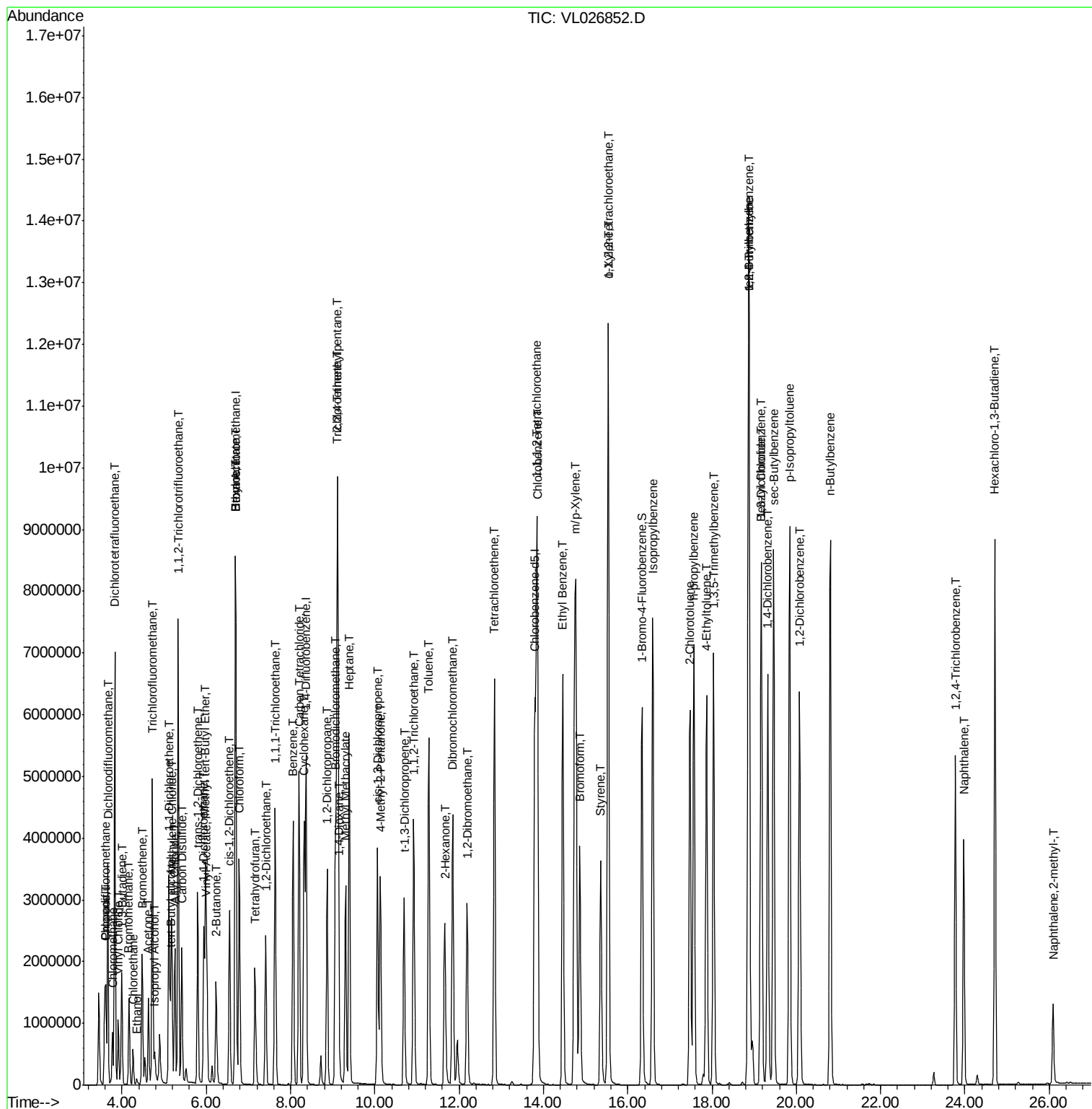
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Misc      : 400mL/MSVOA L  
ALS Vial  : 1      Sample Multiplier: 1
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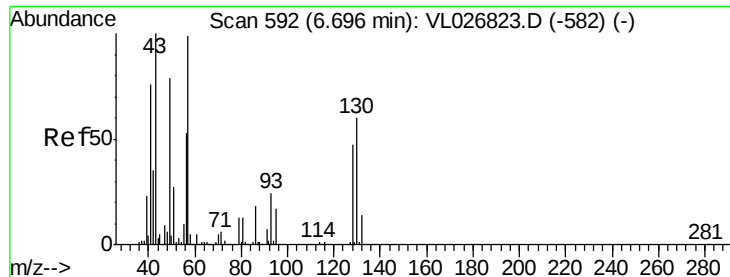
Instrument :
MSVOA_L
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QLast Update : Wed Feb 10 03:14:04 2016
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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.69 min Scan# 591

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010EC

Tot Ion: 49 Resp: 1636829

Ion Ratio Lower Upper

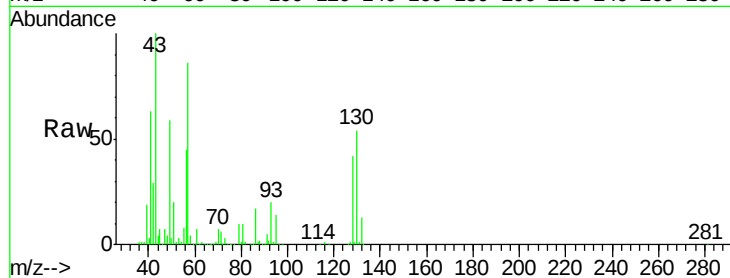
49 100

128 68.5 29.7 89.1

130 88.2 38.3 114.8

Manual Integrations
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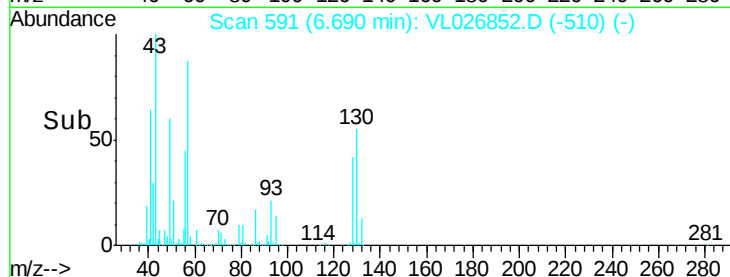
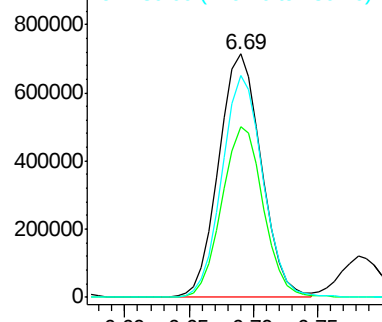
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2/11/2016 1:25:12 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 10.35 ppbv

RT: 3.67 min Scan# 95

Delta R.T. -0.01 min

Lab File: VL026852.D

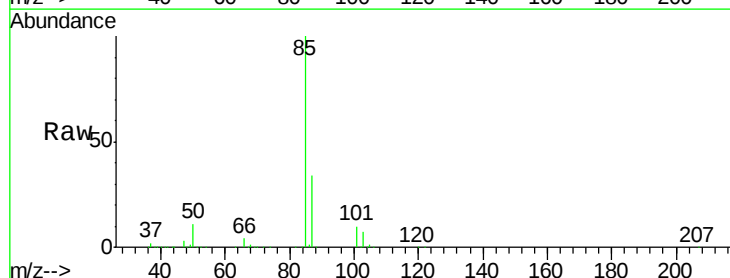
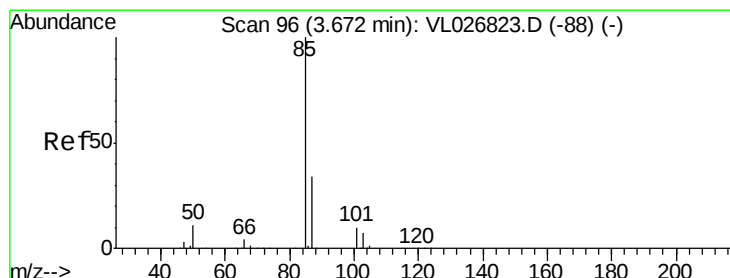
Acq: 10 Feb 2016 14:21

Tgt Ion: 85 Resp: 3662540

Ion Ratio Lower Upper

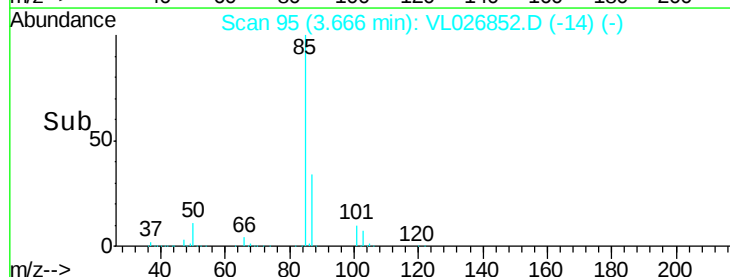
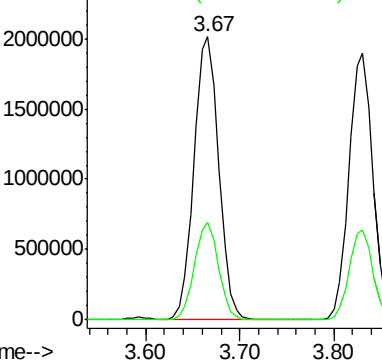
85 100

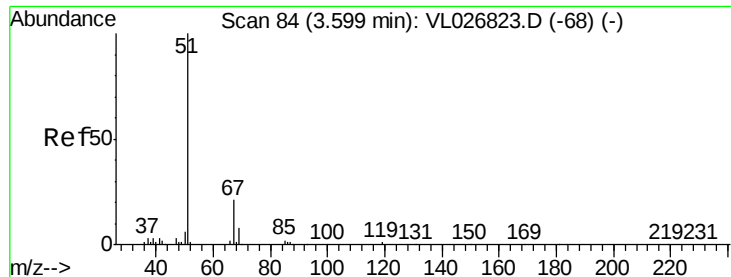
87 34.5 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 6.92 ppbv

RT: 3.59 min Scan# 83

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010EC

Tot Ion: 51 Resp: 1838724

Ion Ratio Lower Upper

51 100

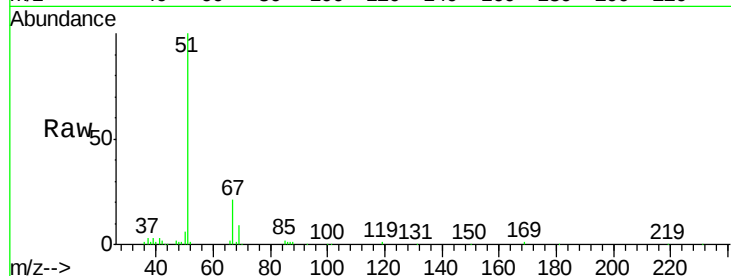
67 20.9 16.4 24.6

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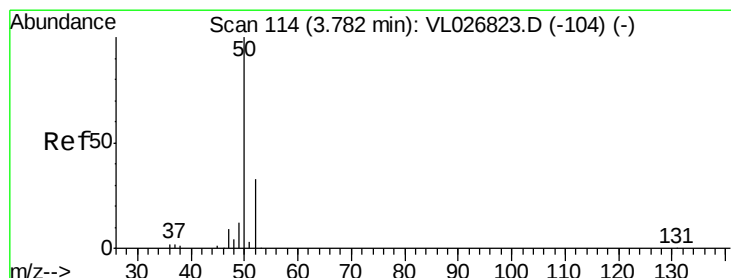
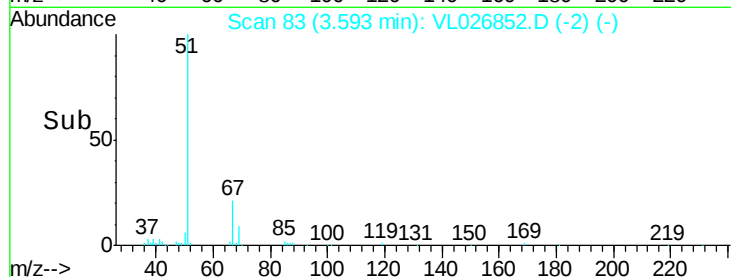
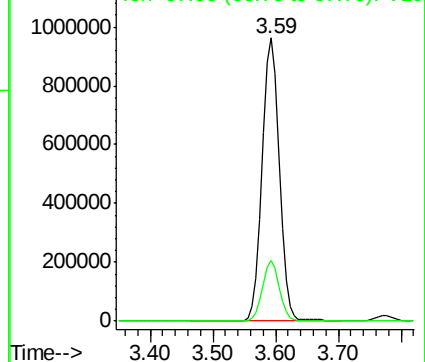
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.05 ppbv

RT: 3.78 min Scan# 113

Delta R.T. -0.01 min

Lab File: VL026852.D

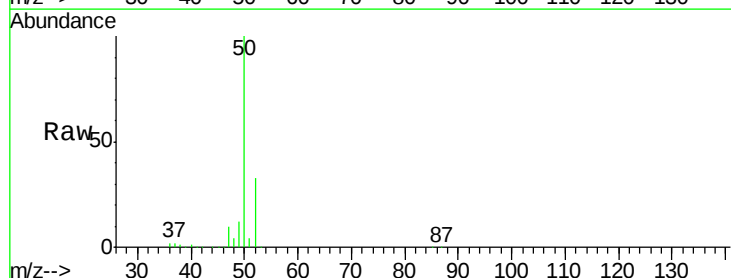
Acq: 10 Feb 2016 14:21

Tgt Ion: 50 Resp: 1054595

Ion Ratio Lower Upper

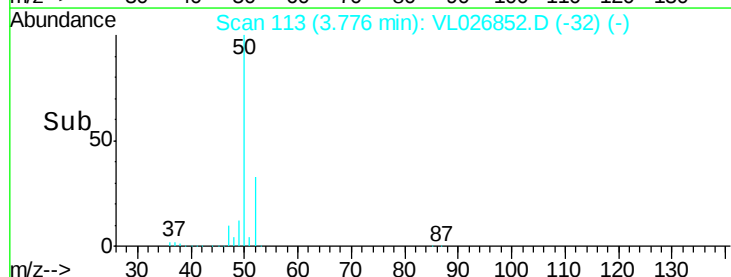
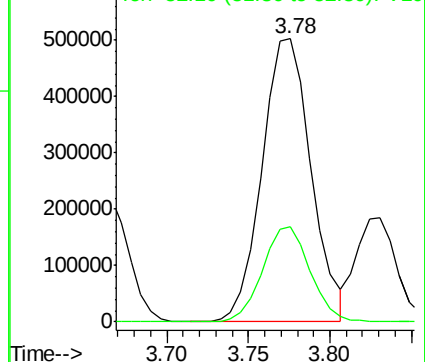
50 100

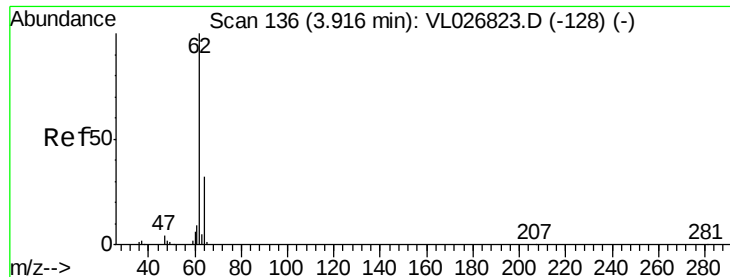
52 33.5 26.3 39.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 10.13 ppbv

RT: 3.91 min Scan# 135

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010EC

Tot Ion: 62 Resp: 1197377

Ion Ratio Lower Upper

62 100

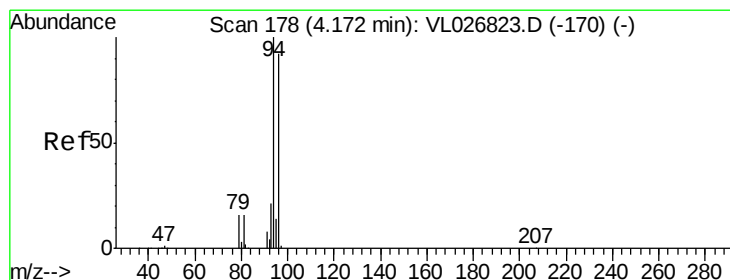
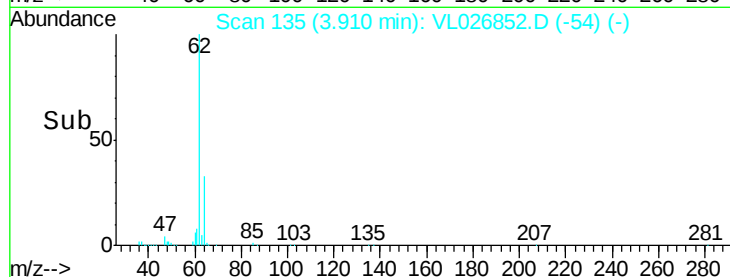
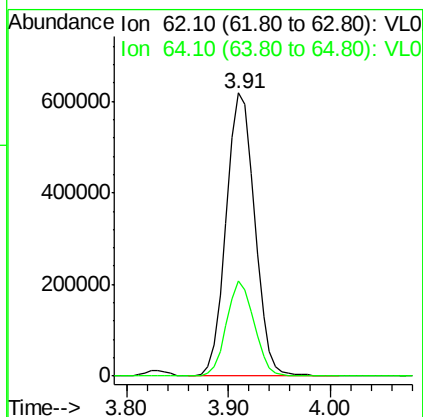
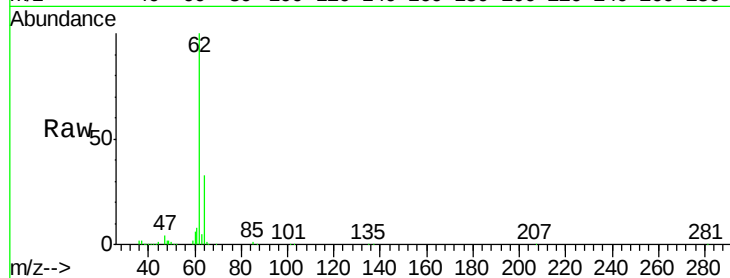
64 33.5 25.8 38.6

Manual Integrations

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#6

Bromomethane

Concen: 10.42 ppbv

RT: 4.17 min Scan# 177

Delta R.T. -0.01 min

Lab File: VL026852.D

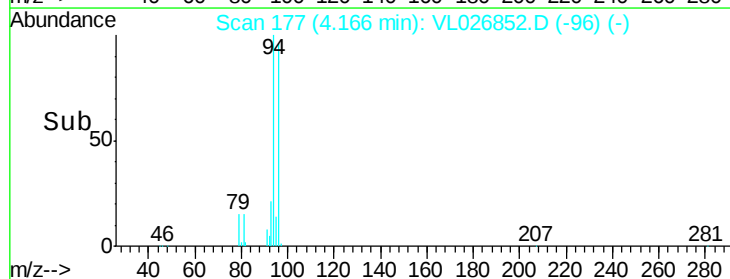
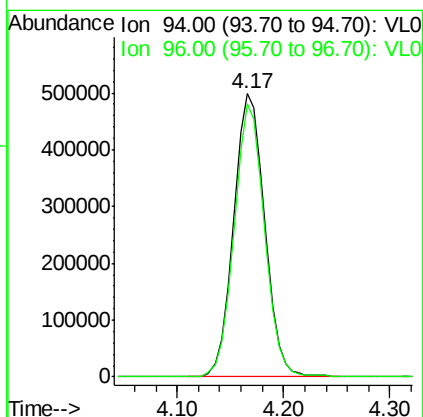
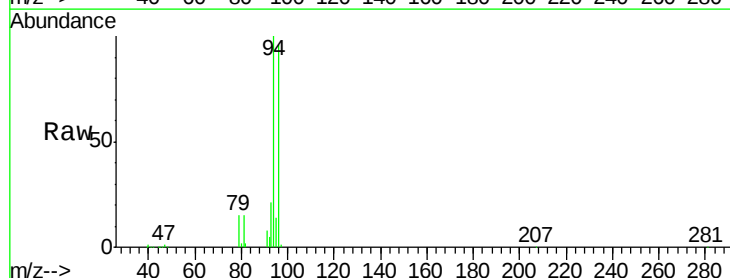
Acq: 10 Feb 2016 14:21

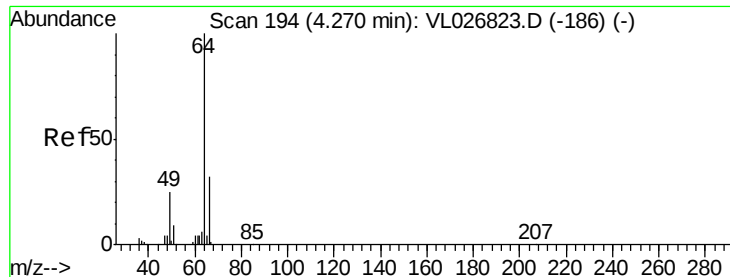
Tgt Ion: 94 Resp: 1022698

Ion Ratio Lower Upper

94 100

96 96.3 73.2 109.8





#7

Chloroethane

Concen: 10.52 ppbv

RT: 4.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Instrument :

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ClientSampleId :

VSTDCCV010EC

Tot Ion: 64 Resp: 545613

Ion Ratio Lower Upper

64 100

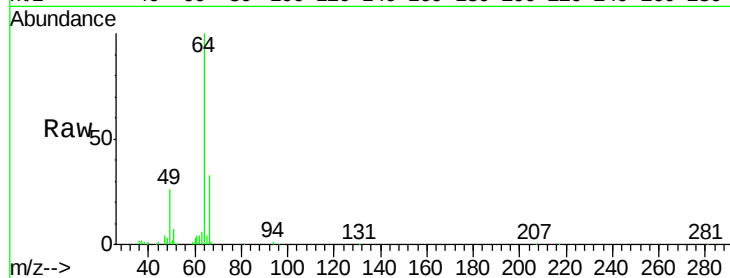
66 32.7 25.4 38.0

Manual Integrations

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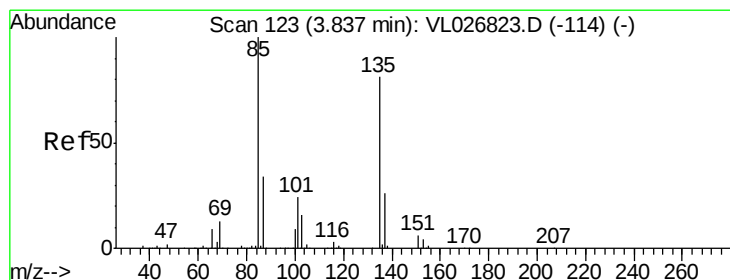
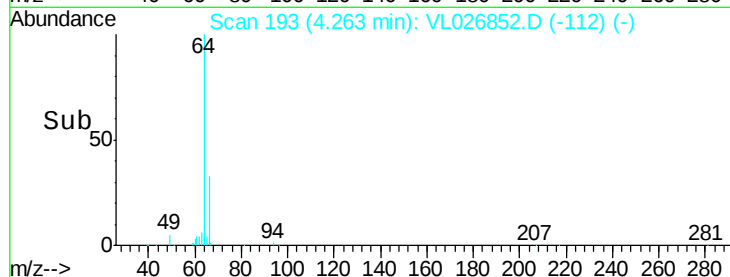
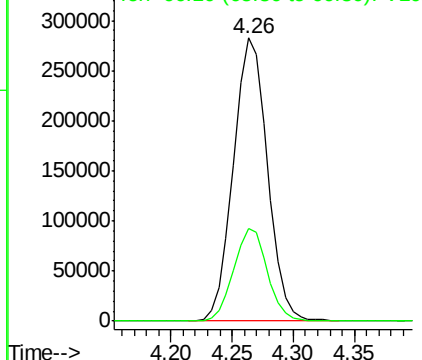
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 10.55 ppbv

RT: 3.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VL026852.D

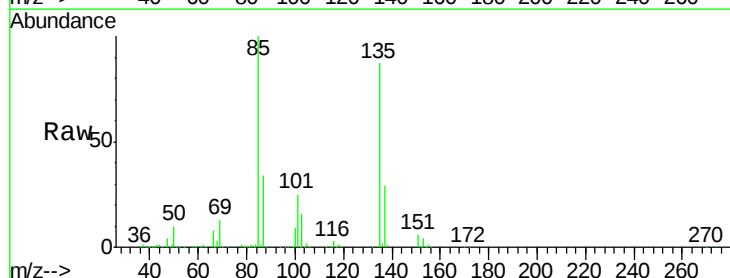
Acq: 10 Feb 2016 14:21

Tgt Ion: 85 Resp: 3317545

Ion Ratio Lower Upper

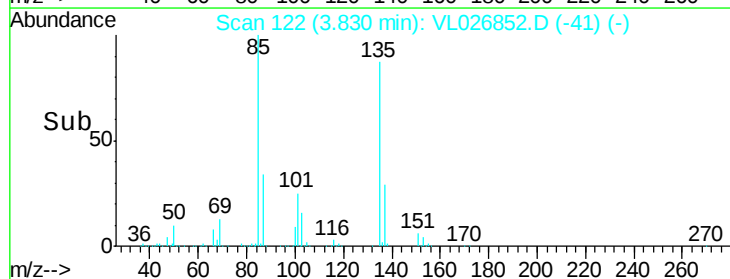
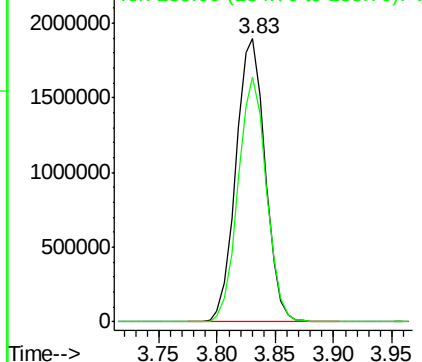
85 100

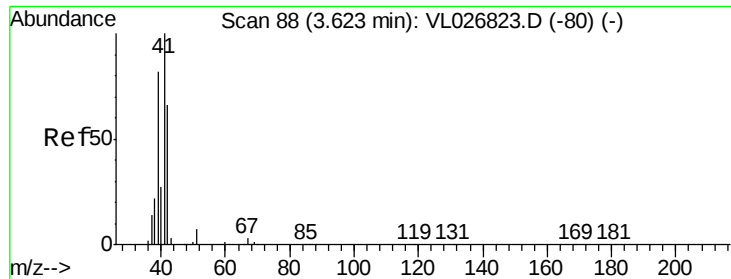
135 84.6 63.2 94.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





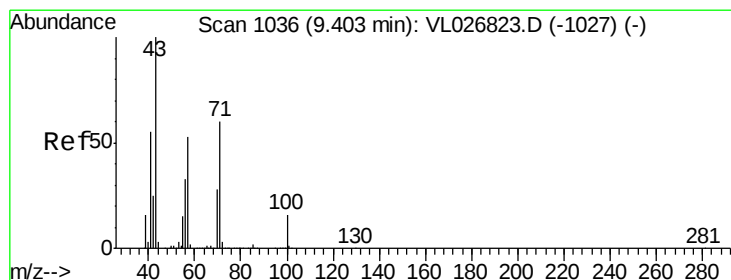
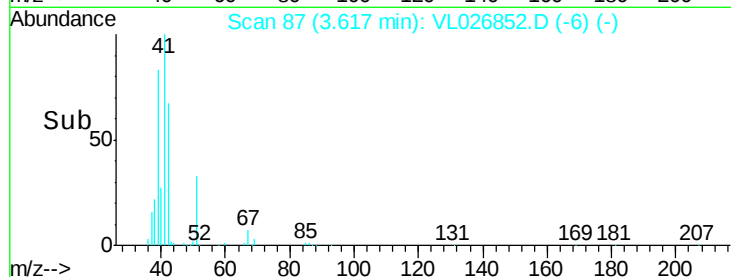
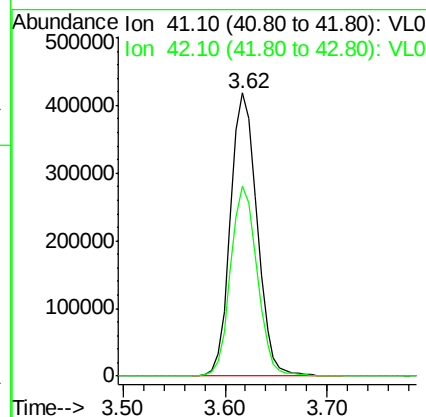
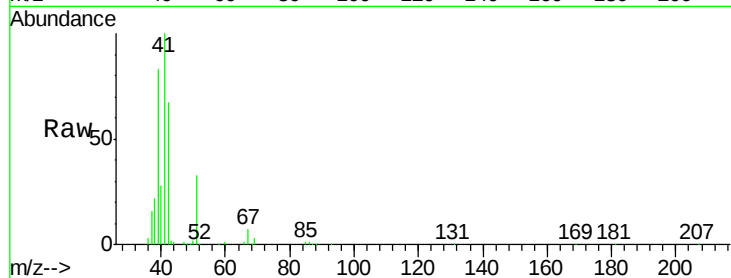
#9
 Propene
 Concen: 10.57 ppbv
 RT: 3.62 min Scan# 87
 Delta R.T. -0.01 min
 Lab File: VL026852.D
 Acq: 10 Feb 2016 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCV010EC

Tot Ion: 41 Resp: 758479
 Ion Ratio Lower Upper
 41 100
 42 67.0 52.8 79.2

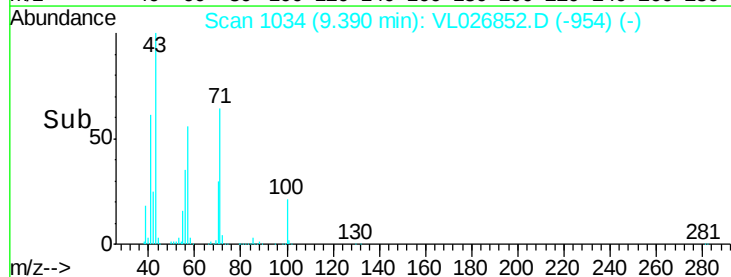
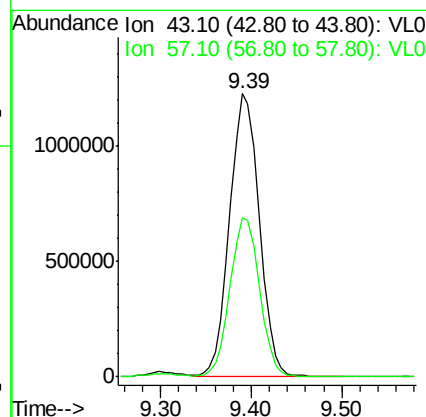
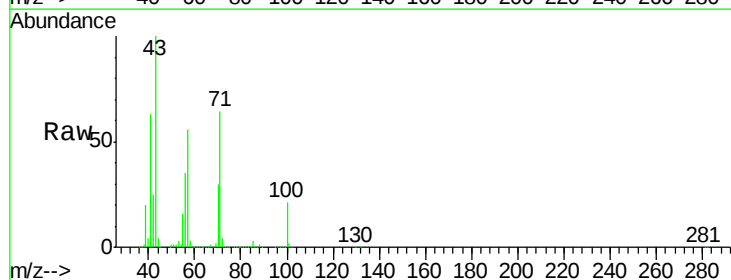
Manual Integrations
 APPROVED

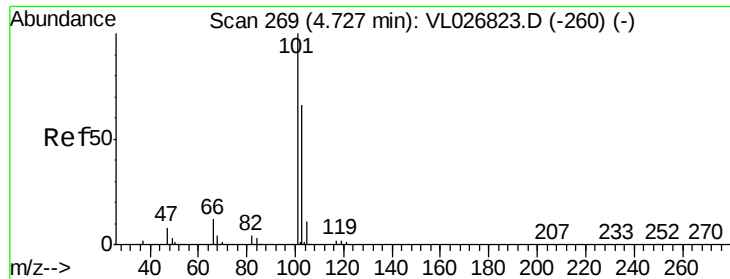
MMDadoda
 2/11/2016 1:25:12 PM



#10
 Heptane
 Concen: 11.81 ppbv
 RT: 9.39 min Scan# 1034
 Delta R.T. -0.01 min
 Lab File: VL026852.D
 Acq: 10 Feb 2016 14:21

Tgt Ion: 43 Resp: 2774624
 Ion Ratio Lower Upper
 43 100
 57 56.5 44.0 66.0





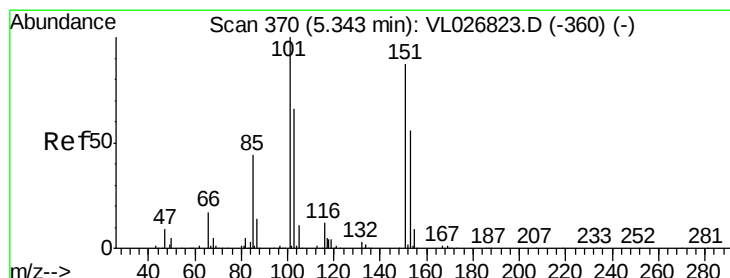
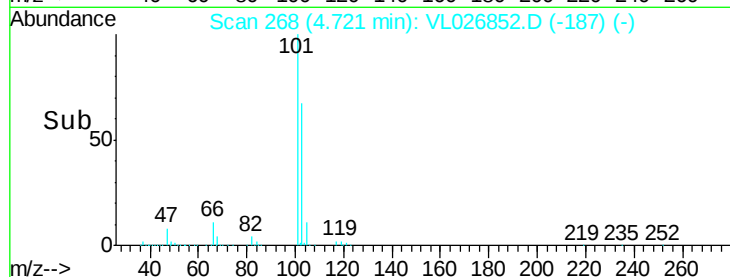
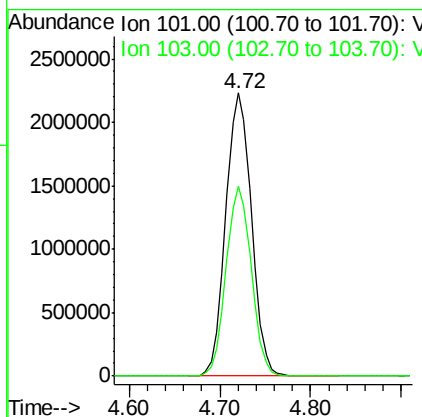
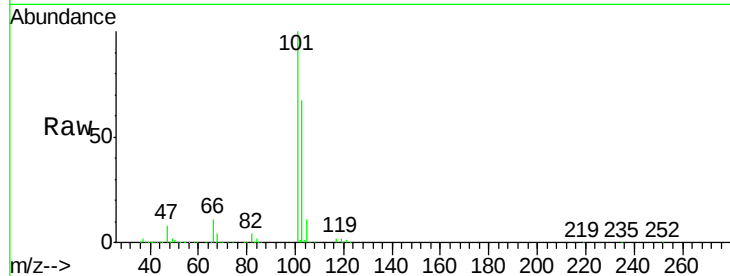
#11
 Trichlorofluoromethane
 Concen: 10.50 ppbv
 RT: 4.72 min Scan# 268
 Delta R.T. -0.01 min
 Lab File: VL026852.D
 Acq: 10 Feb 2016 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCV010EC

Tot Ion:101 Resp: 4406917
 Ion Ratio Lower Upper
 101 100
 103 67.2 52.7 79.1

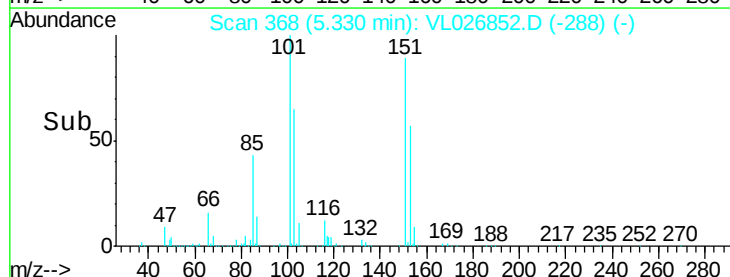
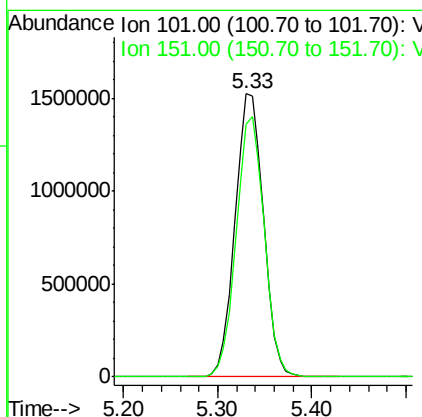
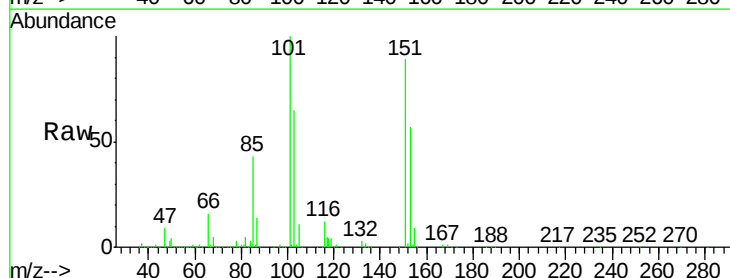
Manual Integrations
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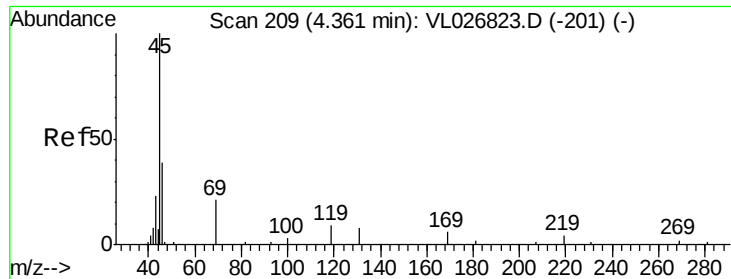
MMDadoda
 2/11/2016 1:25:12 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.80 ppbv
 RT: 5.33 min Scan# 368
 Delta R.T. -0.01 min
 Lab File: VL026852.D
 Acq: 10 Feb 2016 14:21

Tgt Ion:101 Resp: 3209062
 Ion Ratio Lower Upper
 101 100
 151 91.0 69.4 104.0





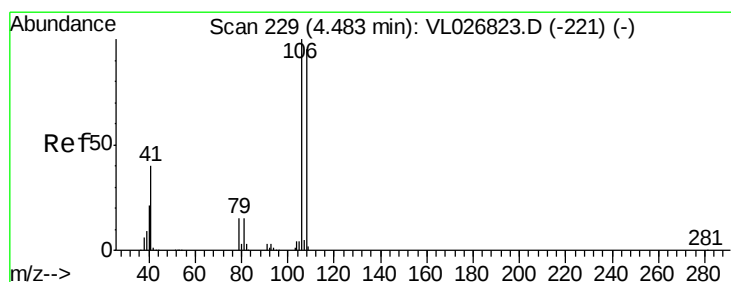
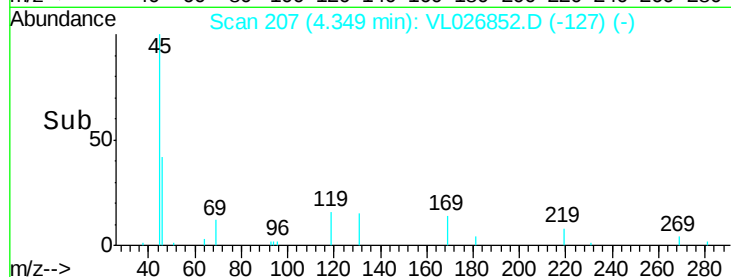
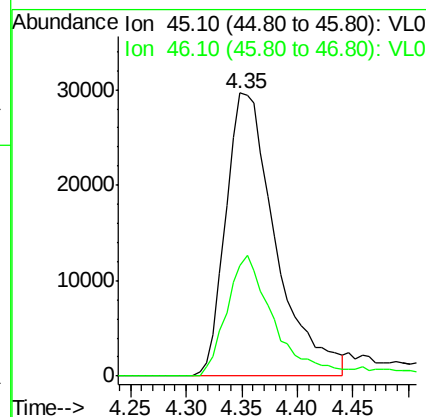
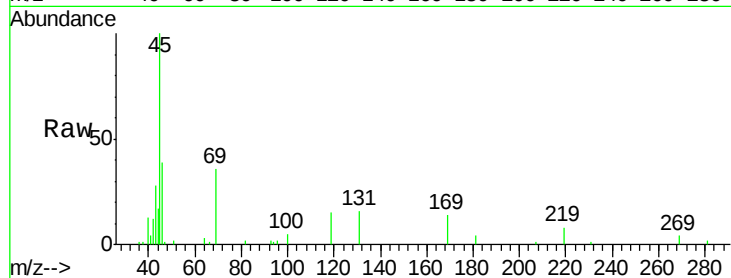
#13
Ethanol
Concen: 7.48 ppbv
RT: 4.35 min Scan# 207
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010EC

Tot Ion: 45 Resp: 92255
Ion Ratio Lower Upper
45 100
46 43.4 15.8 63.4

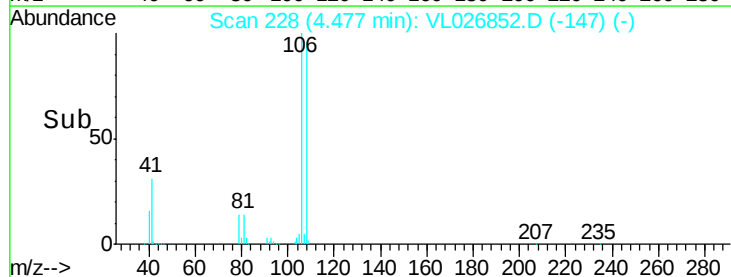
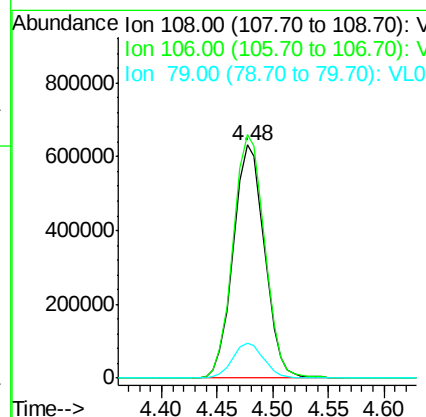
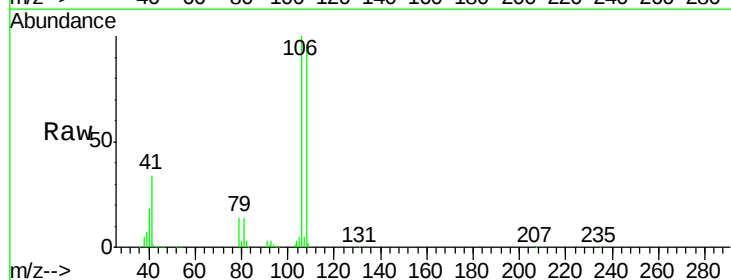
Manual Integrations
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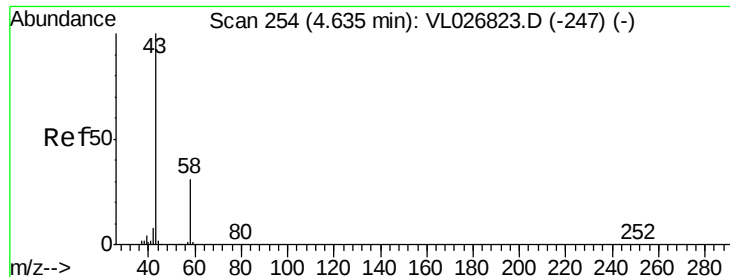
MMDadoda
2/11/2016 1:25:12 PM



#14
Bromoethene
Concen: 11.37 ppbv
RT: 4.48 min Scan# 228
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Tgt Ion:108 Resp: 1236400
Ion Ratio Lower Upper
108 100
106 106.0 84.6 126.8
79 15.4 13.4 20.0





#15

Acetone

Concen: 8.40 ppbv

RT: 4.62 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010EC

Tot Ion: 43 Resp: 1888485

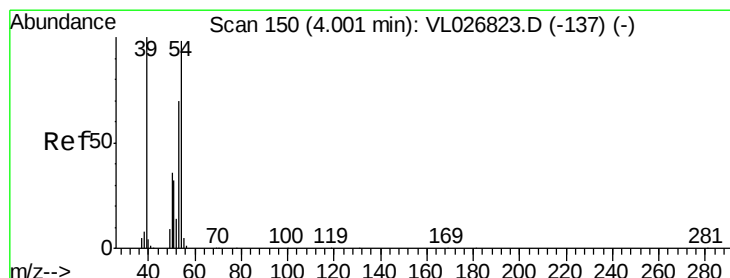
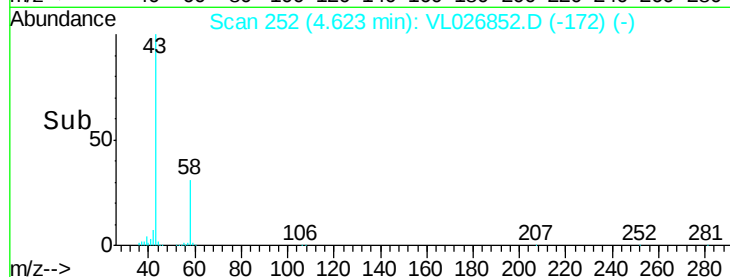
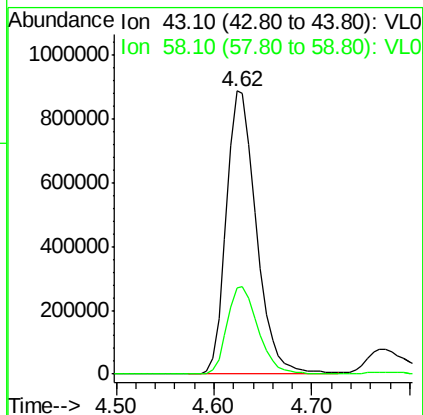
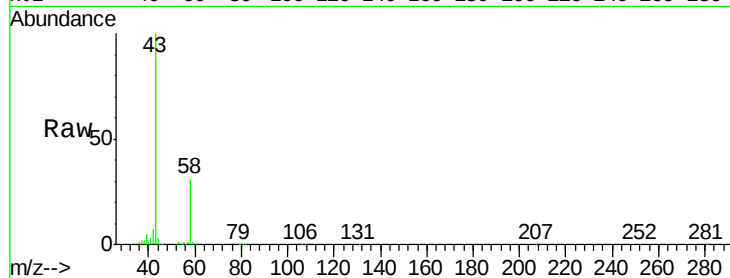
Ion Ratio Lower Upper

43 100

58 32.2 25.2 37.8

Manual Integrations
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MMDadoda
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#16

1,3-Butadiene

Concen: 10.10 ppbv

RT: 4.00 min Scan# 149

Delta R.T. -0.01 min

Lab File: VL026852.D

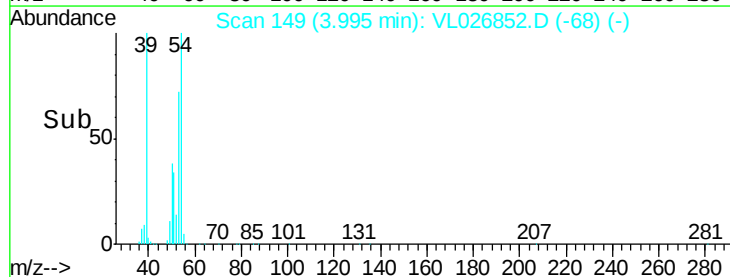
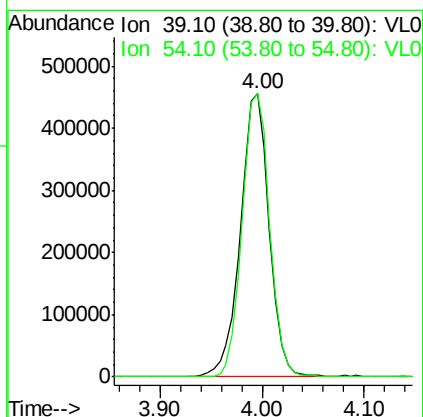
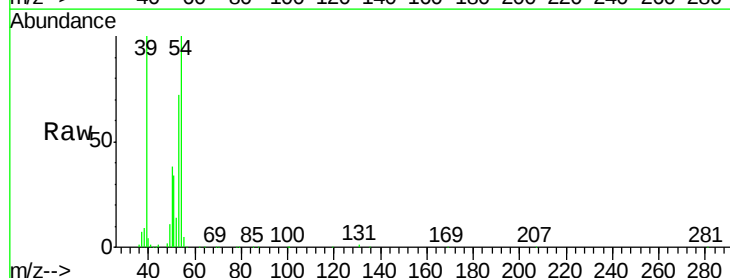
Acq: 10 Feb 2016 14:21

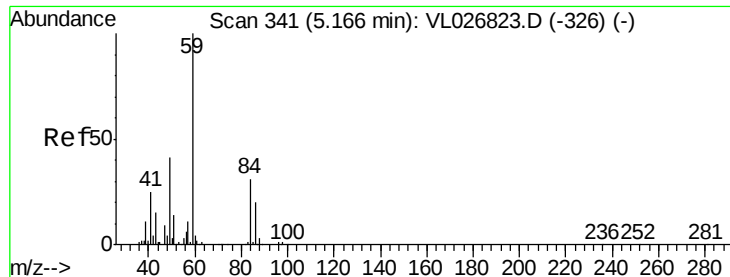
Tgt Ion: 39 Resp: 887270

Ion Ratio Lower Upper

39 100

54 96.8 74.7 112.1





#17

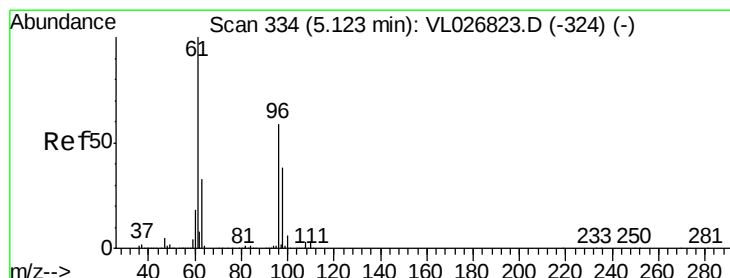
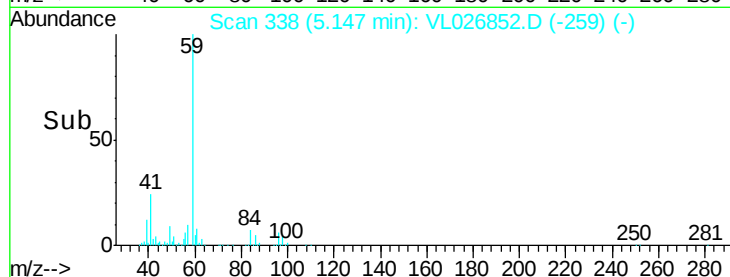
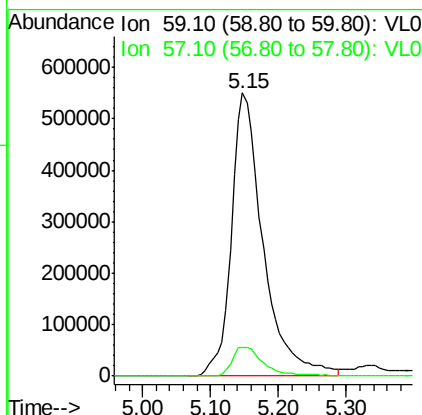
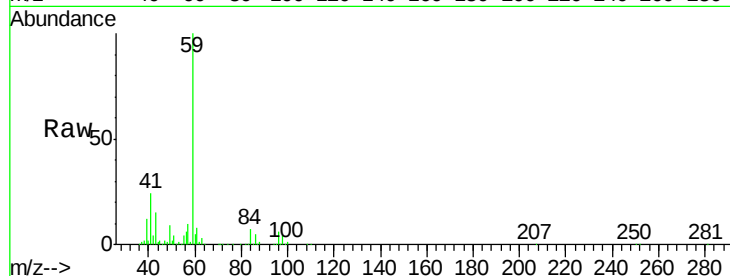
tert-Butyl alcohol
Concen: 12.03 ppbv
RT: 5.15 min Scan# 338
Delta R.T. -0.02 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010EC

Tot Ion: 59 Resp: 1785470
Ion Ratio Lower Upper
59 100
57 10.8 8.5 12.7

Manual Integrations
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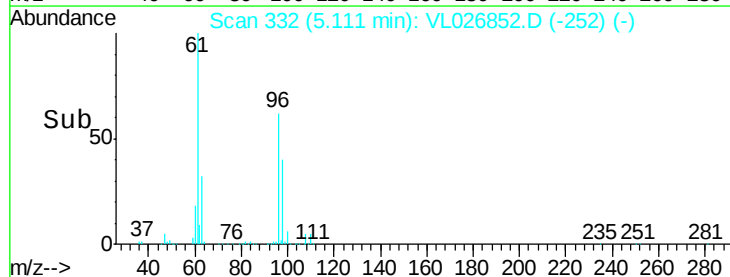
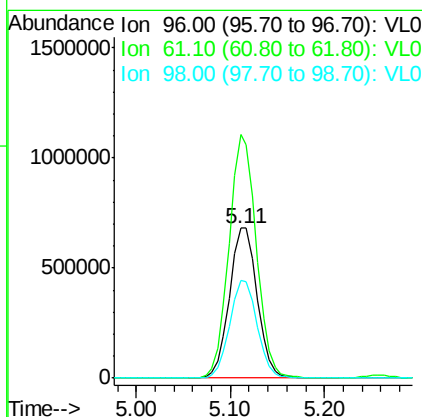
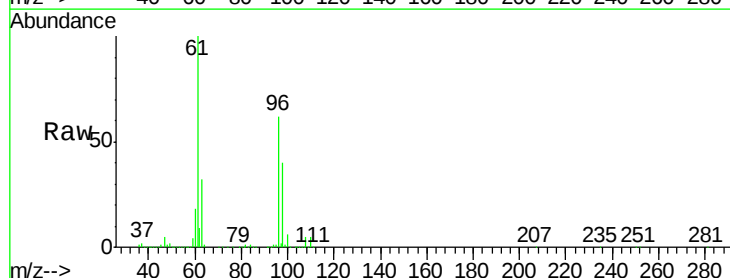
MMDadoda
2/11/2016 1:25:12 PM

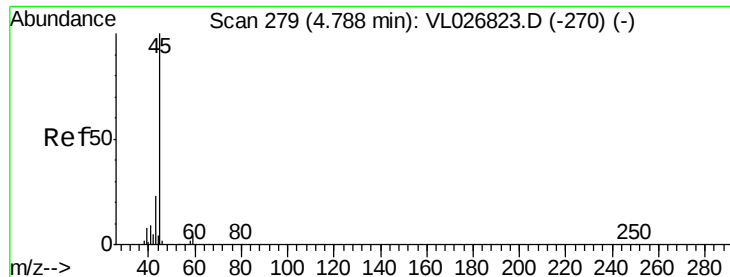


#18

1,1-Dichloroethene
Concen: 11.22 ppbv
RT: 5.11 min Scan# 332
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Tgt Ion: 96 Resp: 1395841
Ion Ratio Lower Upper
96 100
61 162.4 136.7 205.1
98 65.2 52.1 78.1





#19

Isopropyl Alcohol

Concen: 10.81 ppbv

RT: 4.78 min Scan# 277

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010EC

Tot Ion: 45 Resp: 867322

Ion Ratio Lower Upper

45 100

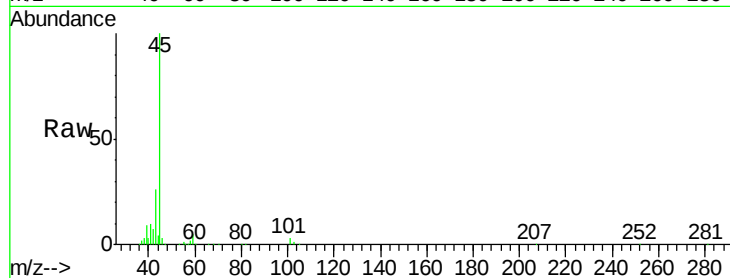
58 2.6 2.2 3.2

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.78

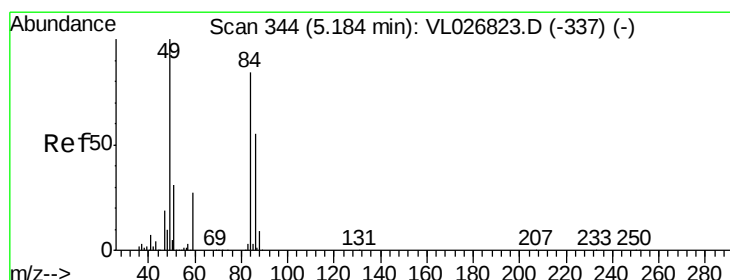
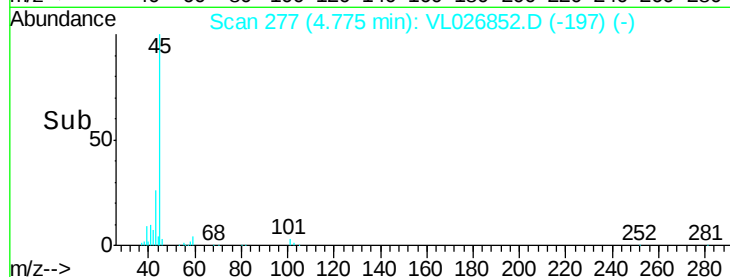
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 10.45 ppbv

RT: 5.18 min Scan# 343

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Tgt Ion: 84 Resp: 1217904

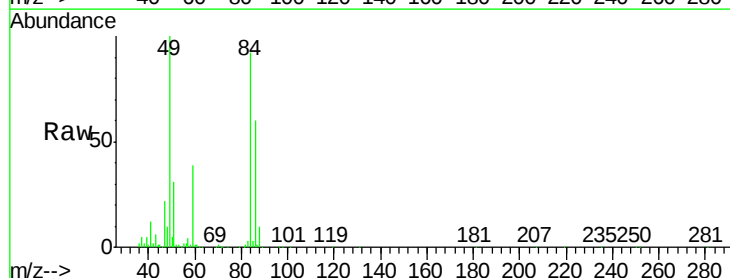
Ion Ratio Lower Upper

84 100

49 106.6 94.9 142.3

51 33.5 29.5 44.3

86 64.8 51.9 77.9



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

1000000

800000

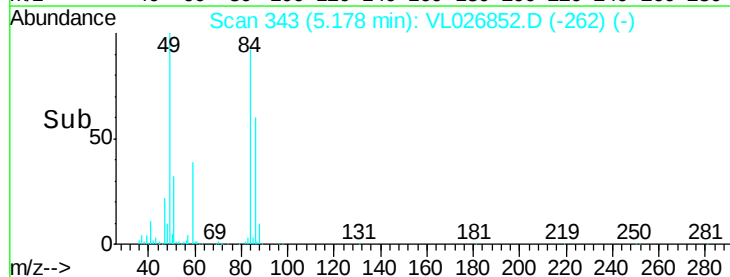
600000

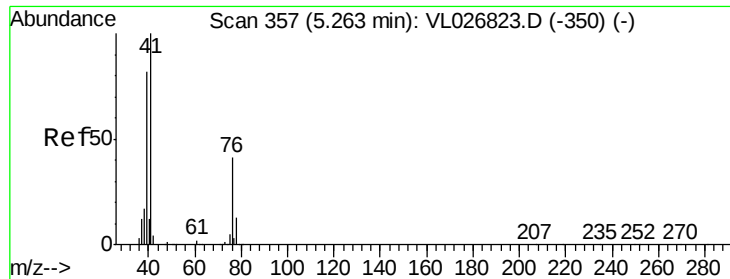
400000

200000

0

Time-->





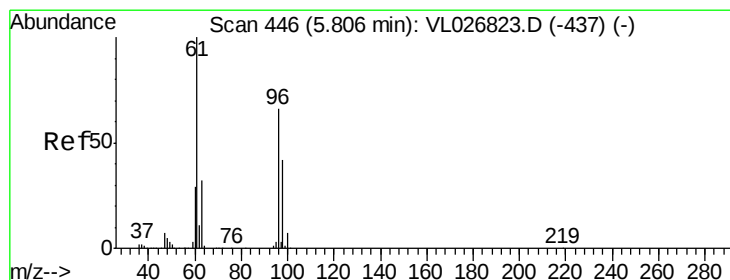
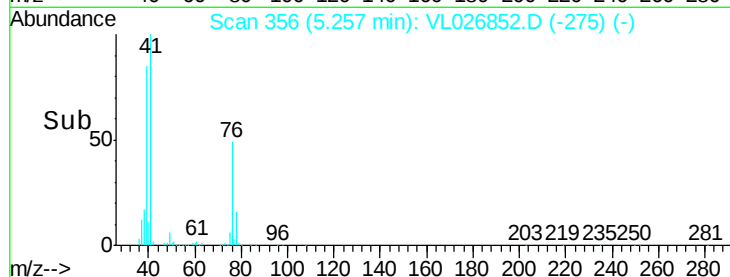
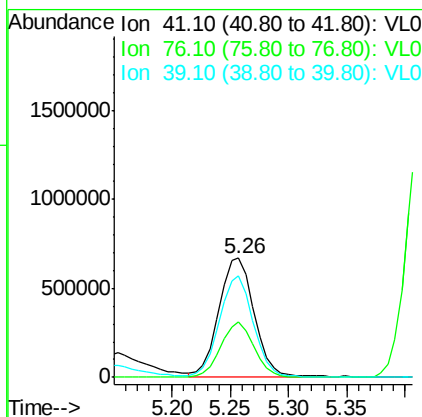
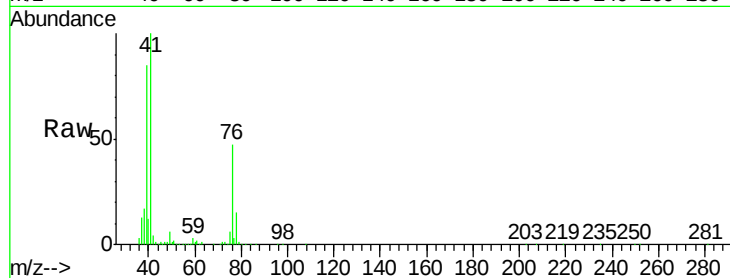
#21
Allvl Chloride
Concen: 9.95 ppbv
RT: 5.26 min Scan# 356
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010EC

Tot Ion: 41 Resp: 1381771
Ion Ratio Lower Upper
41 100
76 44.8 32.0 48.0
39 83.4 64.6 96.8

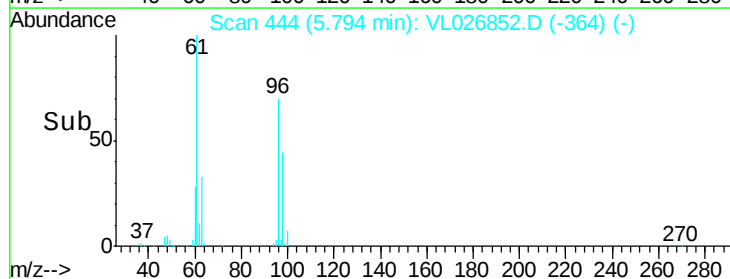
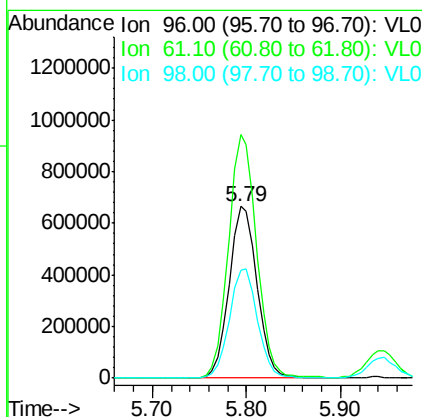
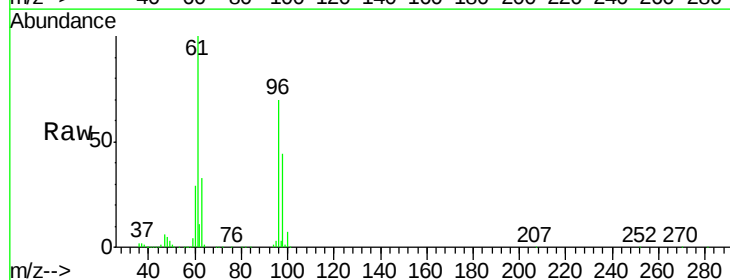
Manual Integrations
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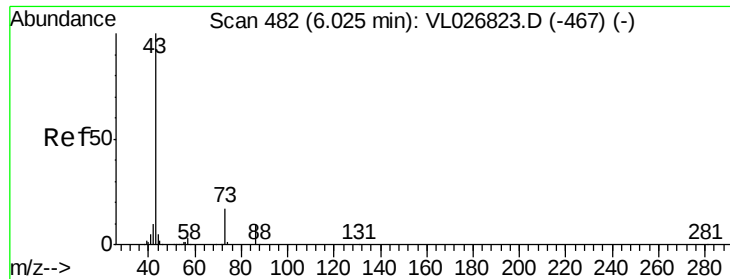
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 12.27 ppbv
RT: 5.79 min Scan# 444
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Tgt Ion: 96 Resp: 1378280
Ion Ratio Lower Upper
96 100
61 142.1 121.6 182.4
98 62.8 50.6 76.0





#23

Vinyl Acetate

Concen: 10.88 ppbv

RT: 6.01 min Scan# 480

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010EC

Tot Ion: 43 Resp: 3318198

Ion Ratio Lower Upper

43 100

86 10.6 7.7 11.5

42 9.7 7.8 11.8

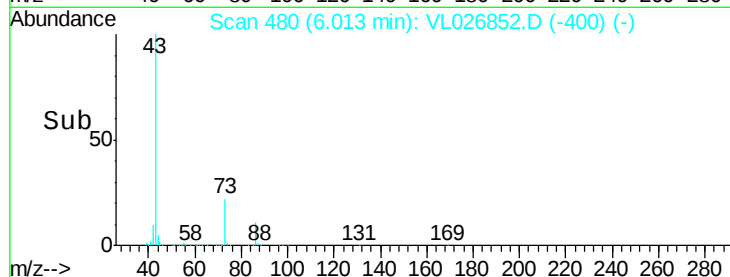
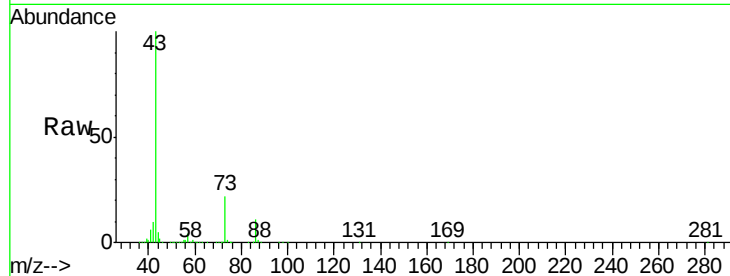
44 5.3 3.9 5.9

Manual Integrations

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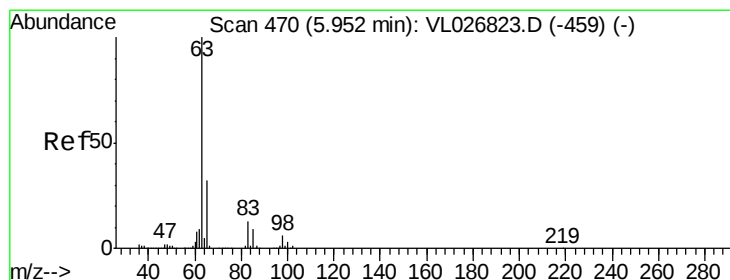
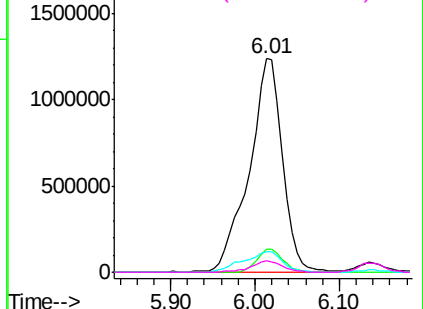


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 11.04 ppbv

RT: 5.94 min Scan# 468

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

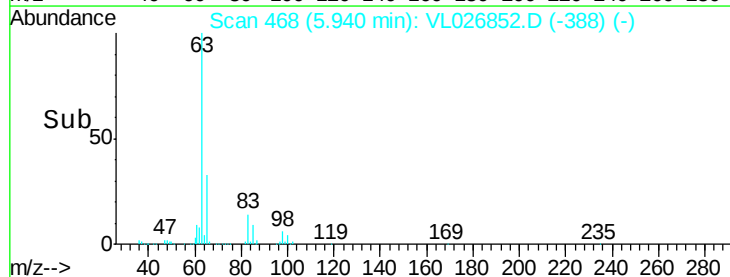
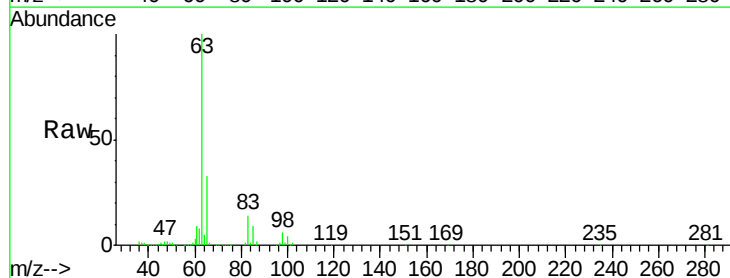
Tgt Ion: 63 Resp: 2692038

Ion Ratio Lower Upper

63 100

98 6.2 2.9 8.7

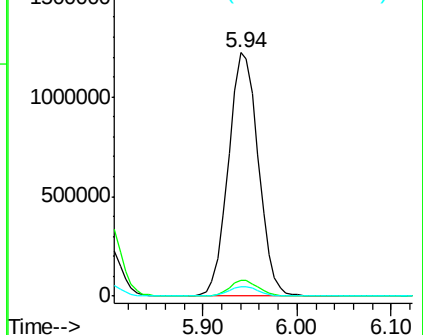
100 3.9 1.7 5.1

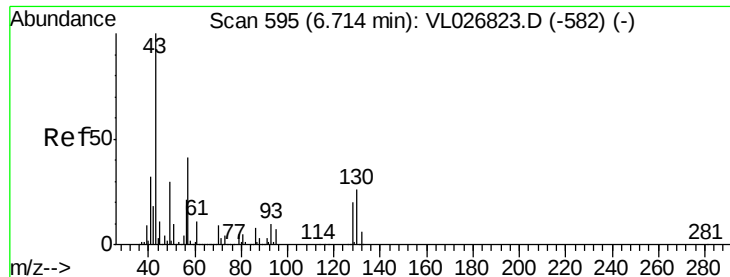


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





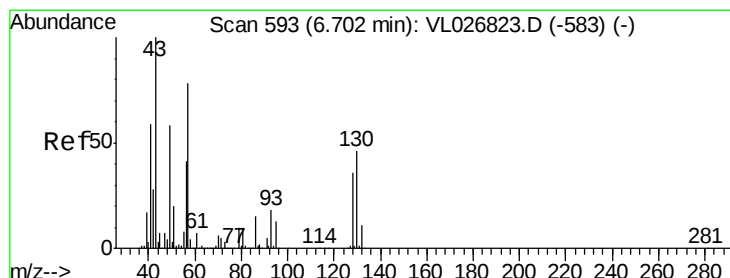
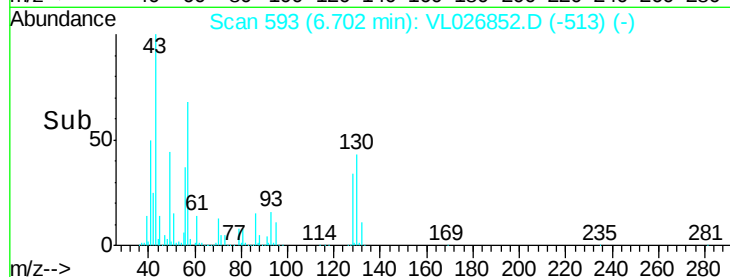
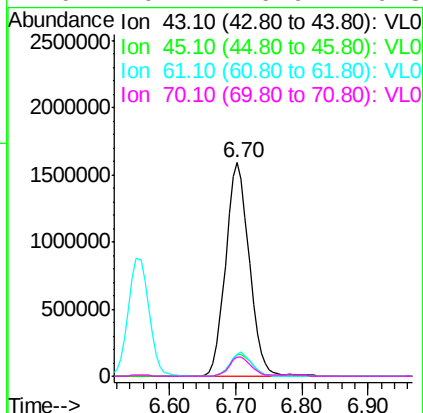
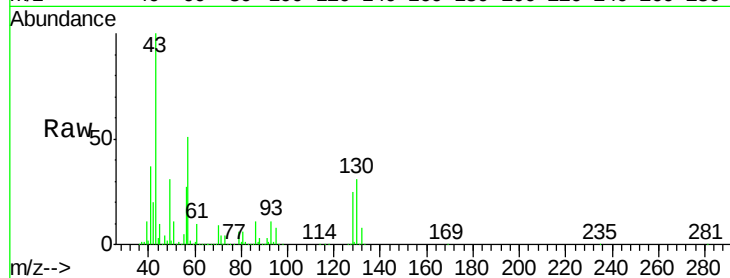
#25
Ethyl Acetate
Concen: 11.65 ppbv
RT: 6.70 min Scan# 593
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010EC

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.8
61	10.5	7.9	11.9
70	9.4	6.9	10.3

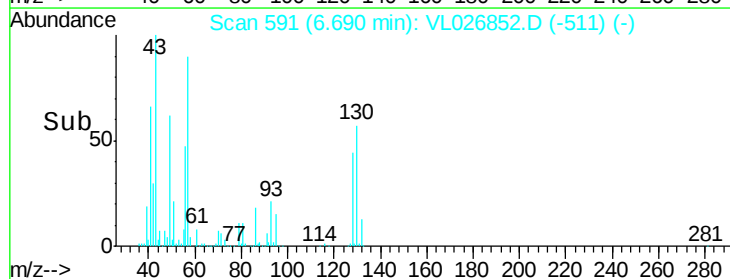
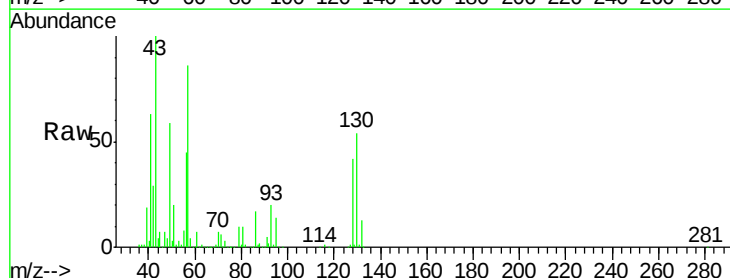
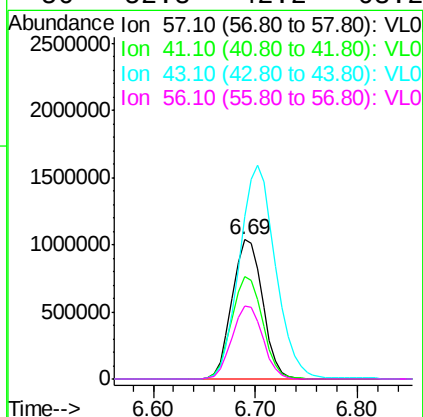
Manual Integrations
APPROVED

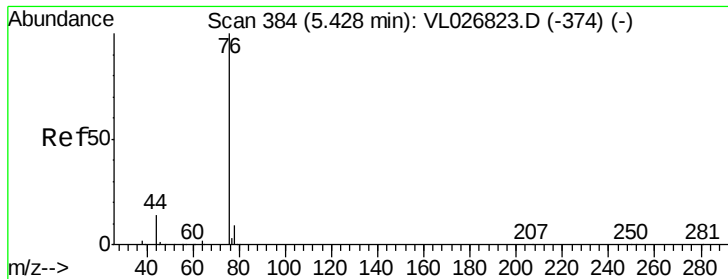
MMDadoda
2/11/2016 1:25:12 PM



#26
Hexane
Concen: 11.34 ppbv
RT: 6.69 min Scan# 591
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Tgt Ion	Ratio	Lower	Upper
57	100		
41	75.4	63.3	94.9
43	182.7	151.4	227.2
56	52.8	42.2	63.2





#27

Carbon Disulfide

Concen: 11.01 ppbv

RT: 5.42 min Scan# 382

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010EC

Tot Ion: 76 Resp: 3608523

Ion Ratio Lower Upper

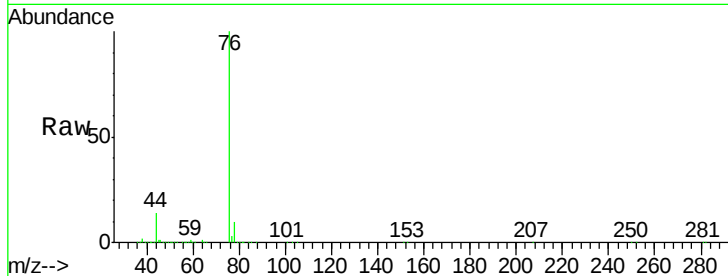
76 100

44 14.0 12.1 18.1

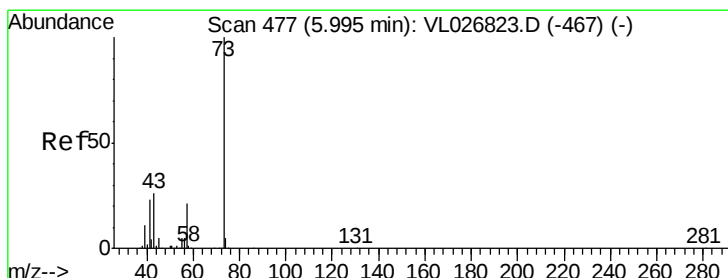
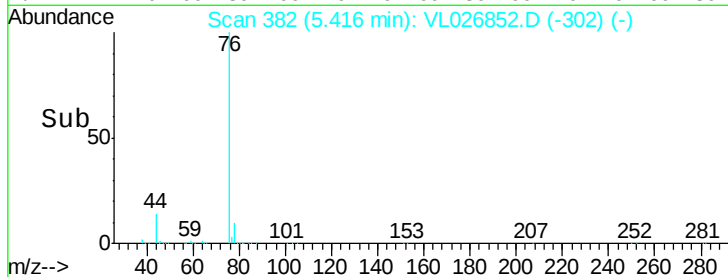
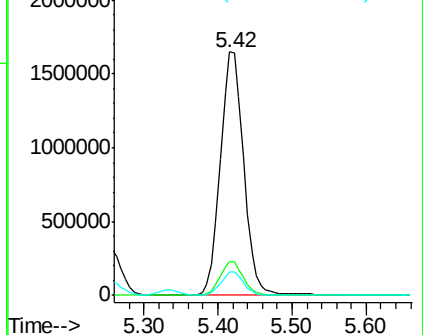
78 9.6 7.7 11.5

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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: 11.95 ppbv

RT: 5.98 min Scan# 475

Delta R.T. -0.01 min

Lab File: VL026852.D

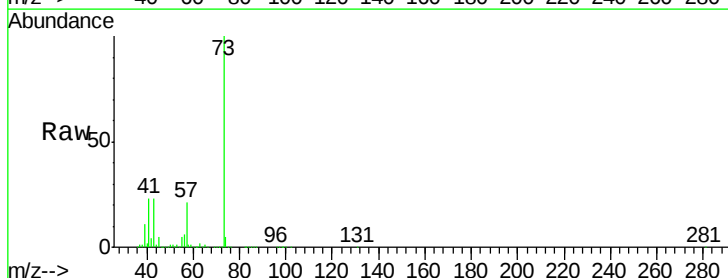
Acq: 10 Feb 2016 14:21

Tgt Ion: 73 Resp: 3551047

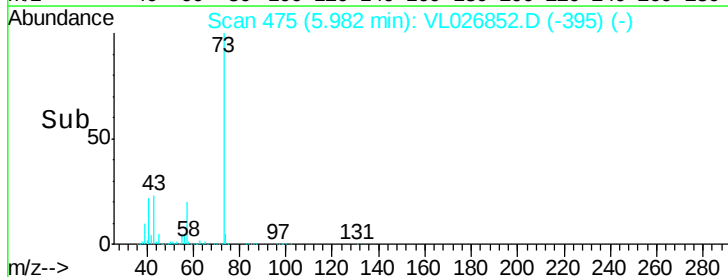
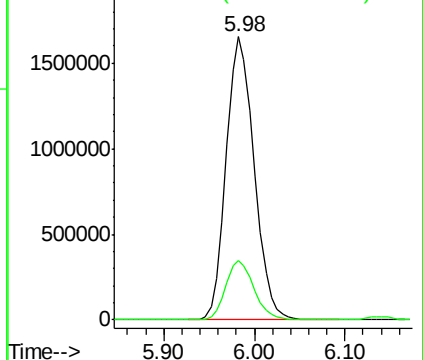
Ion Ratio Lower Upper

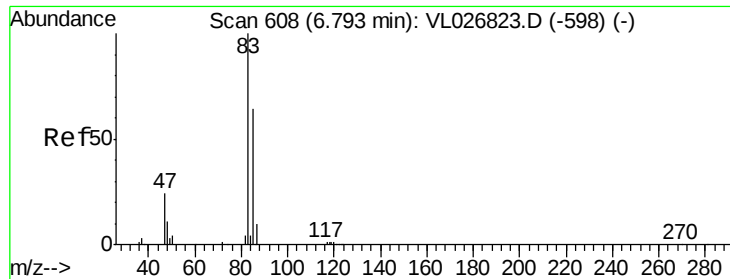
73 100

57 20.9 17.0 25.6



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





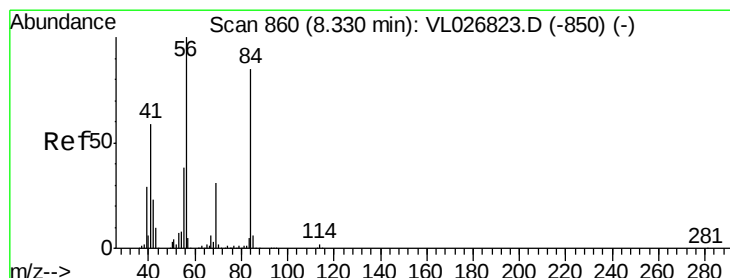
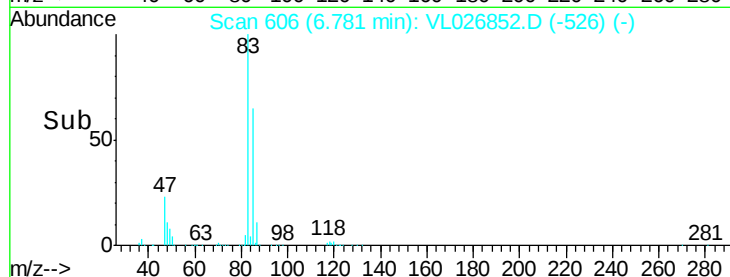
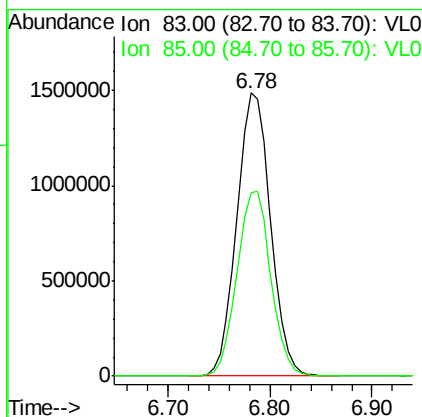
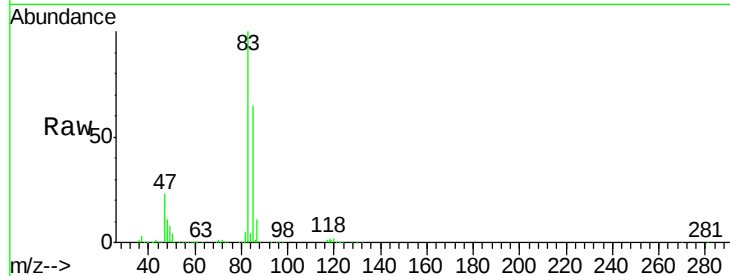
#29
Chloroform
Concen: 11.55 ppbv
RT: 6.78 min Scan# 606
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010EC

Tot Ion: 83 Resp: 3417309
Ion Ratio Lower Upper
83 100
85 65.0 51.5 77.3

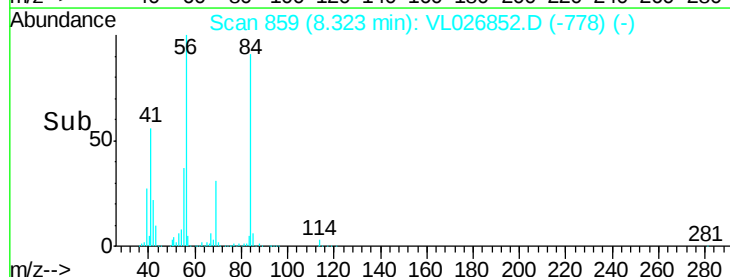
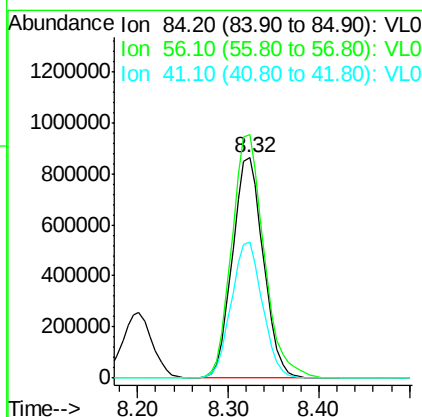
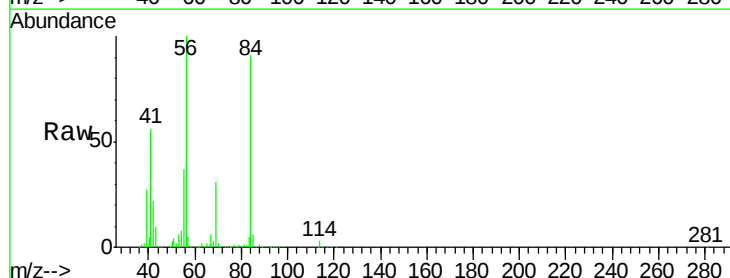
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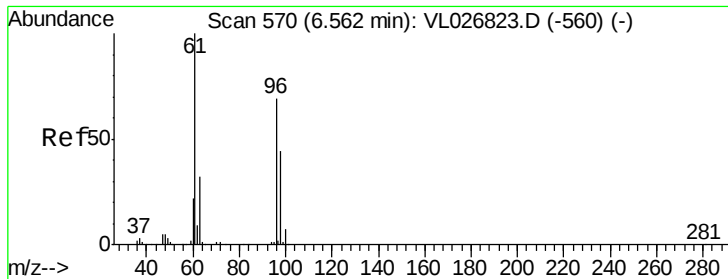
MMDadoda
2/11/2016 1:25:12 PM



#30
Cyclohexane
Concen: 13.13 ppbv
RT: 8.32 min Scan# 859
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Tgt Ion: 84 Resp: 2032379
Ion Ratio Lower Upper
84 100
56 116.5 99.4 149.2
41 62.7 56.7 85.1





#31

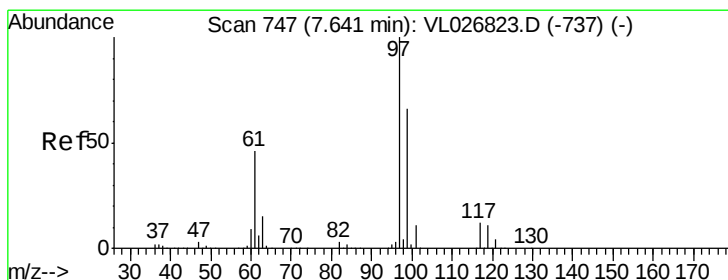
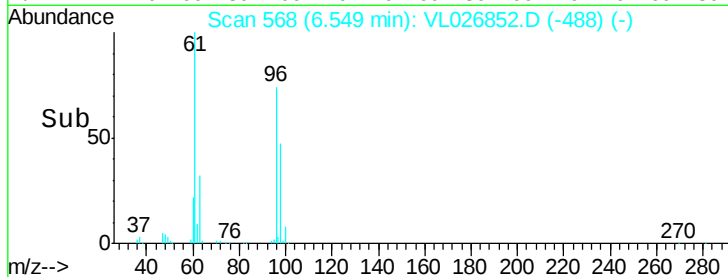
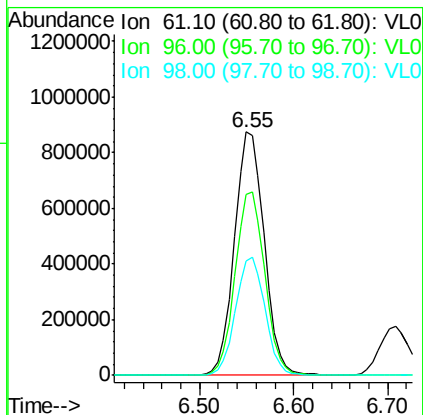
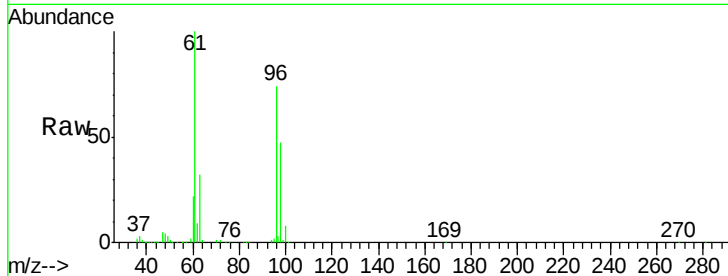
cis-1,2-Dichloroethene
Concen: 12.17 ppbv
RT: 6.55 min Scan# 568
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	74.5	55.2	82.8
98	47.0	35.2	52.8

Manual Integrations
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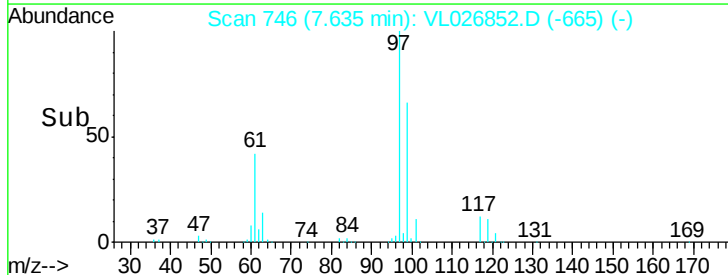
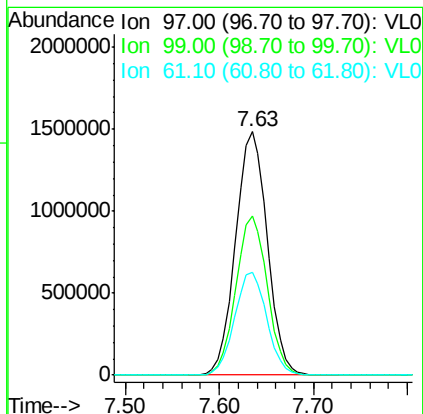
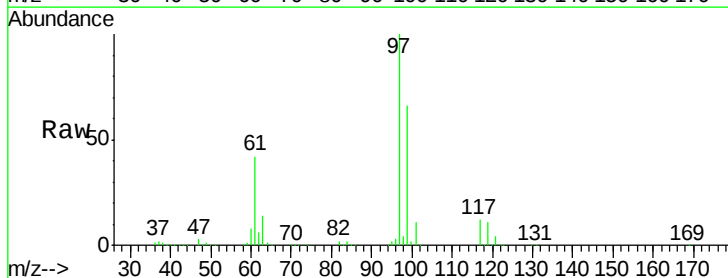
MMDadoda
2/11/2016 1:25:12 PM

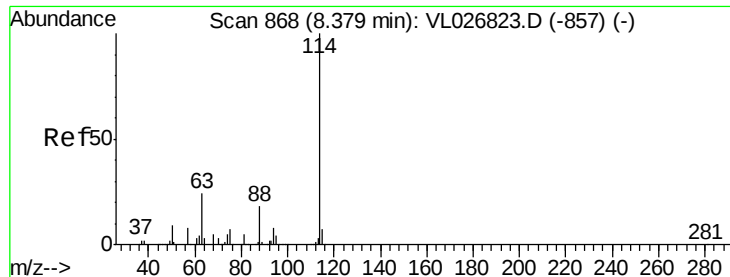


#32

1,1,1-Trichloroethane
Concen: 11.73 ppbv
RT: 7.63 min Scan# 746
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	52.0	78.0
61	43.1	36.2	54.4





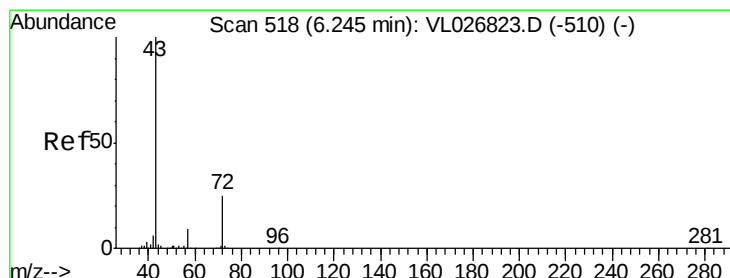
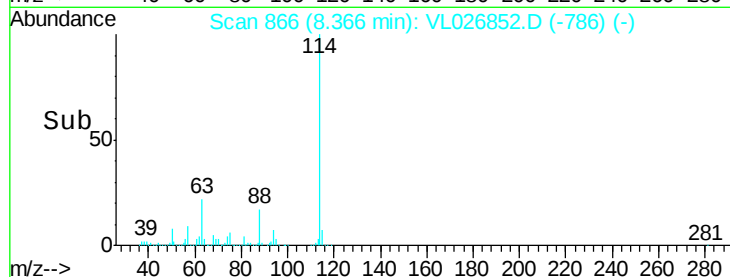
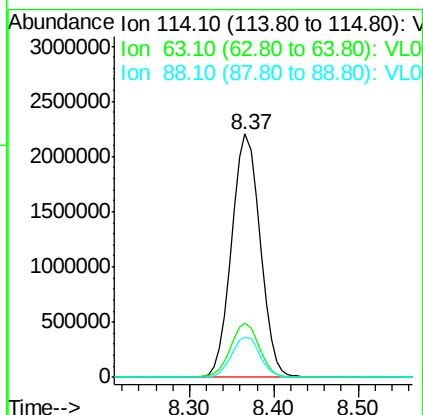
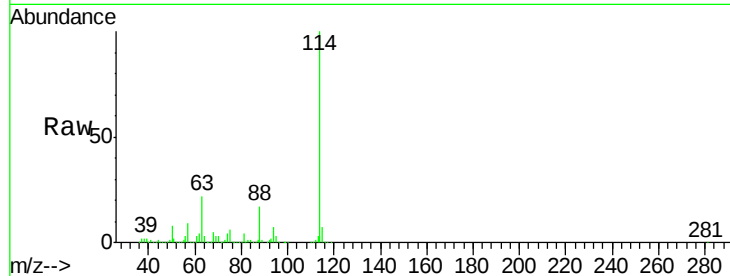
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.37 min Scan# 866
 Delta R.T. -0.01 min
 Lab File: VL026852.D
 Acq: 10 Feb 2016 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCV010EC

Tot Ion:114 Resp: 5044423
 Ion Ratio Lower Upper
 114 100
 63 22.6 19.7 29.5
 88 16.5 13.8 20.6

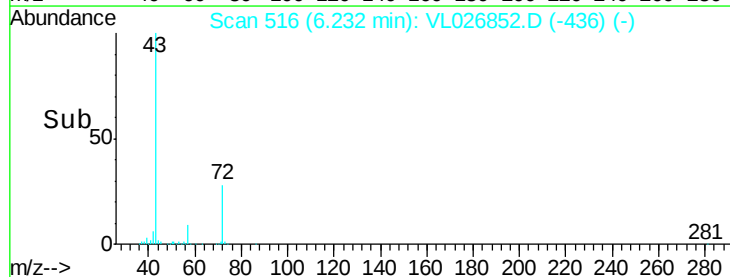
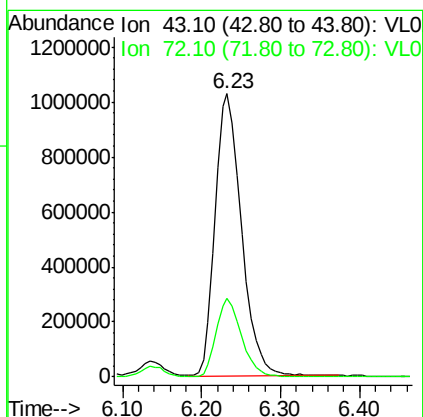
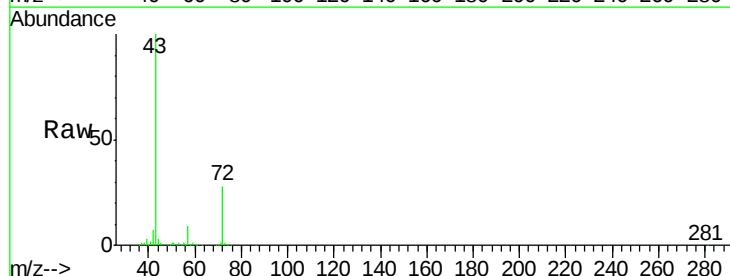
Manual Integrations
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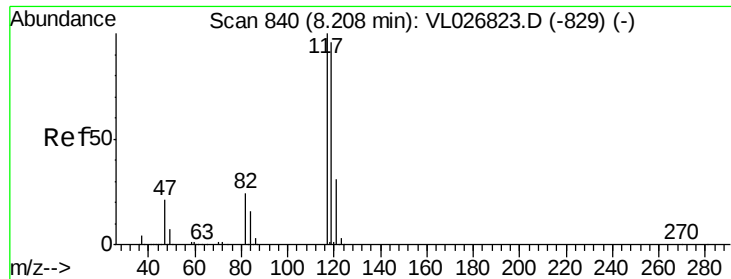
MMDadoda
 2/11/2016 1:25:12 PM



#34
 2-Butanone
 Concen: 9.67 ppbv
 RT: 6.23 min Scan# 516
 Delta R.T. -0.01 min
 Lab File: VL026852.D
 Acq: 10 Feb 2016 14:21

Tgt Ion: 43 Resp: 2390198
 Ion Ratio Lower Upper
 43 100
 72 26.8 19.8 29.8





#35

Carbon Tetrachloride

Concen: 10.54 ppbv

RT: 8.20 min Scan# 839

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010EC

Tot Ion:117 Resp: 3864770

Ion Ratio Lower Upper

117 100

119 95.4 76.6 115.0

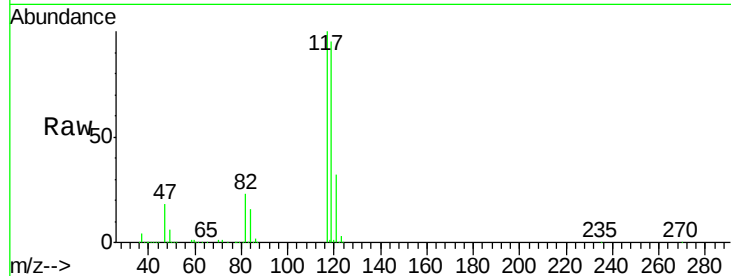
121 31.6 25.0 37.4

Manual Integrations

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MMDadoda

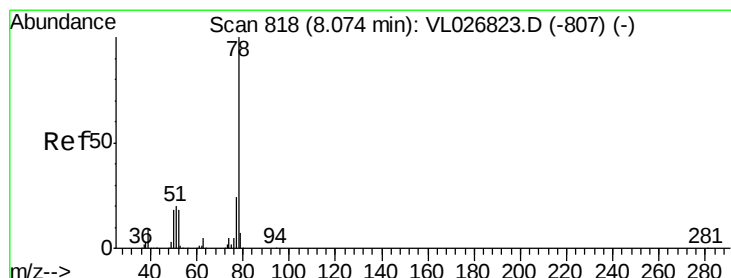
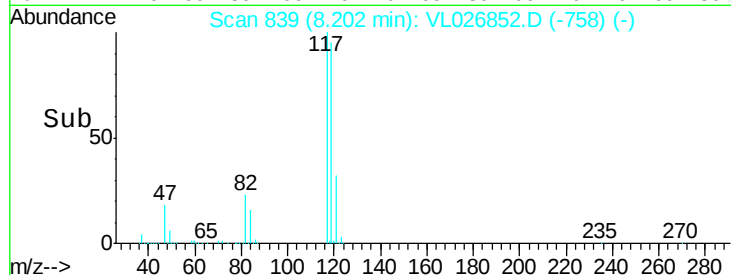
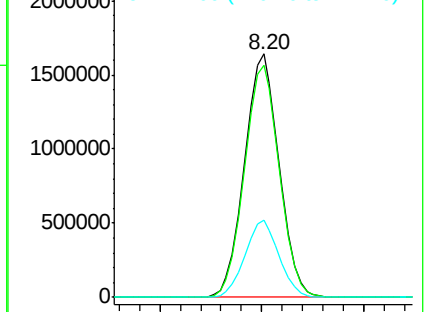
2/11/2016 1:25:12 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 11.18 ppbv

RT: 8.06 min Scan# 816

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

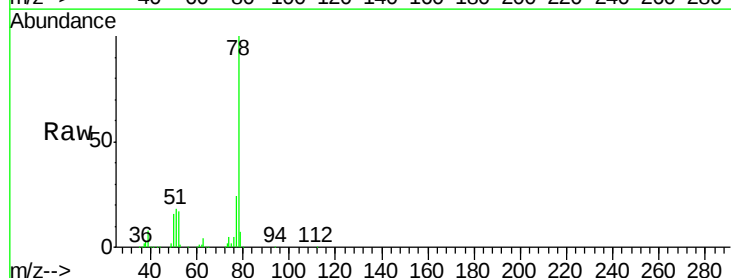
Tgt Ion: 78 Resp: 4474816

Ion Ratio Lower Upper

78 100

77 24.2 19.0 28.6

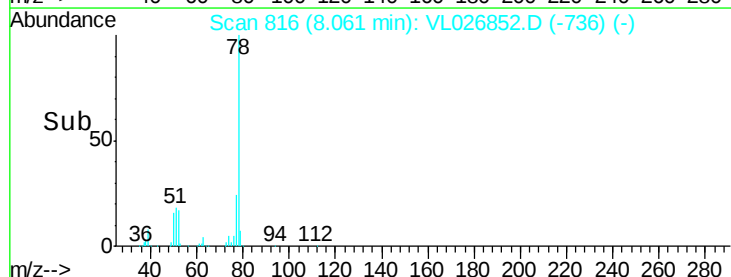
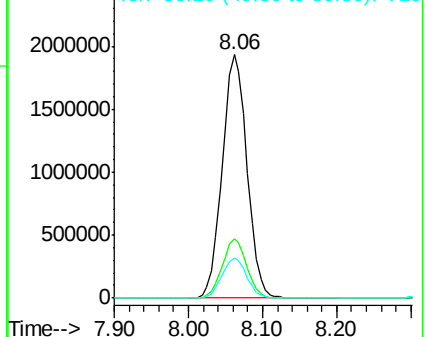
50 16.5 14.2 21.4

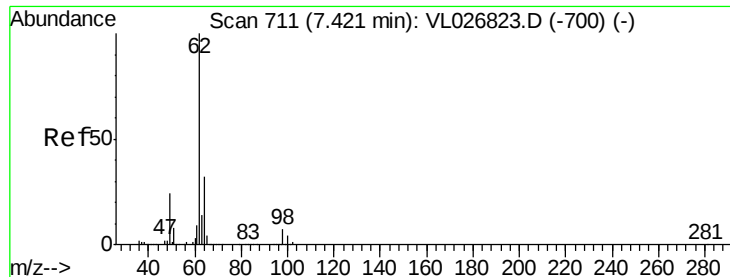


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





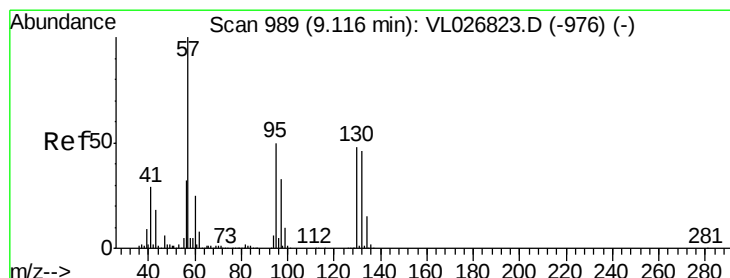
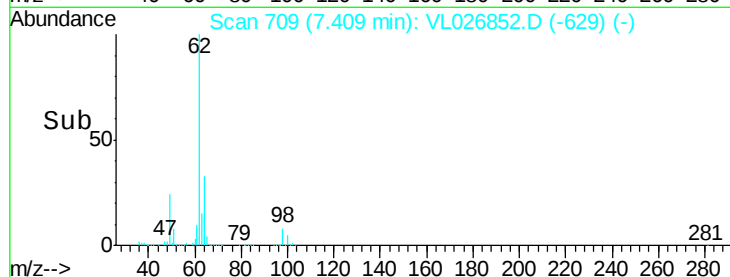
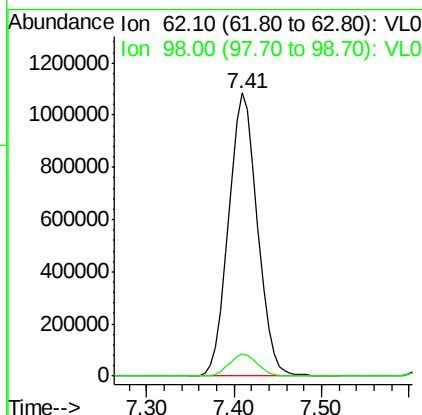
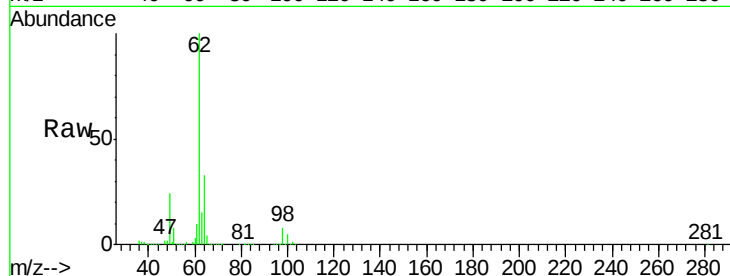
#37
 1,2-Dichloroethane
 Concen: 9.94 ppbv
 RT: 7.41 min Scan# 709
 Delta R.T. -0.01 min
 Lab File: VL026852.D
 Acq: 10 Feb 2016 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCV010EC

Tot Ion: 62 Resp: 2491196
 Ion Ratio Lower Upper
 62 100
 98 7.8 5.4 8.2

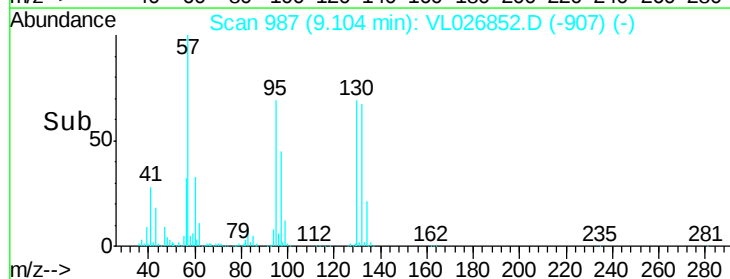
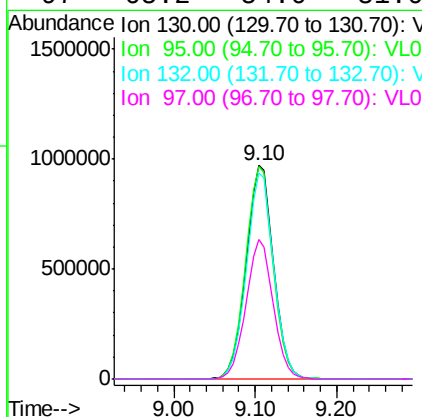
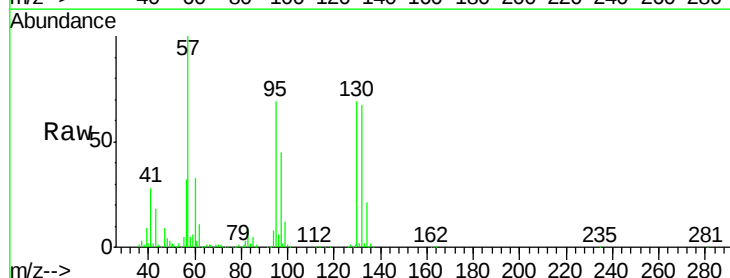
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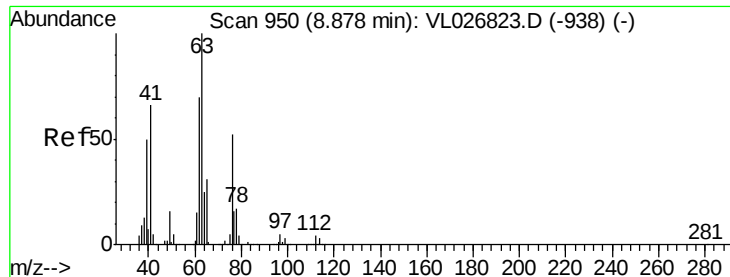
MMDadoda
 2/11/2016 1:25:12 PM



#38
 Trichloroethene
 Concen: 12.37 ppbv
 RT: 9.10 min Scan# 987
 Delta R.T. -0.01 min
 Lab File: VL026852.D
 Acq: 10 Feb 2016 14:21

Tgt Ion: 130 Resp: 2282075
 Ion Ratio Lower Upper
 130 100
 95 99.4 83.0 124.6
 132 96.6 76.0 114.0
 97 65.2 54.0 81.0





#39

1,2-Dichloropropane

Concen: 10.52 ppbv

RT: 8.87 min Scan# 948

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010EC

Tot Ion: 63 Resp: 1591247

Ion Ratio Lower Upper

63 100

41 61.9 53.2 79.8

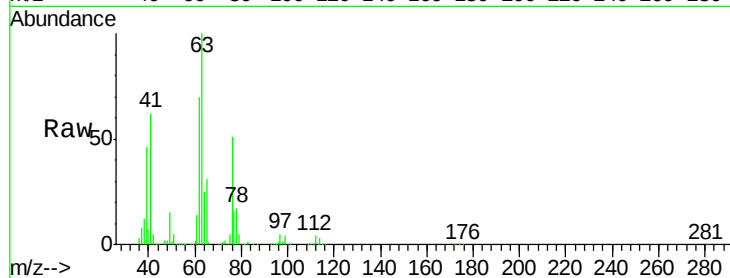
62 70.3 56.0 84.0

Manual Integrations

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MMDadoda

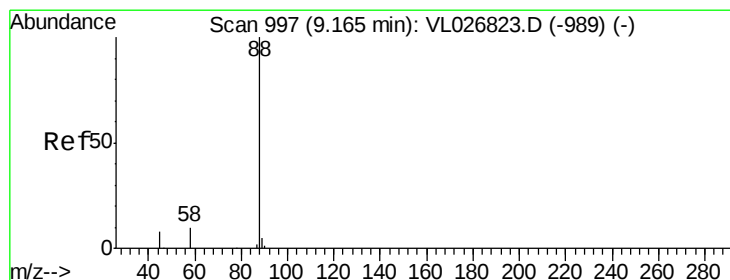
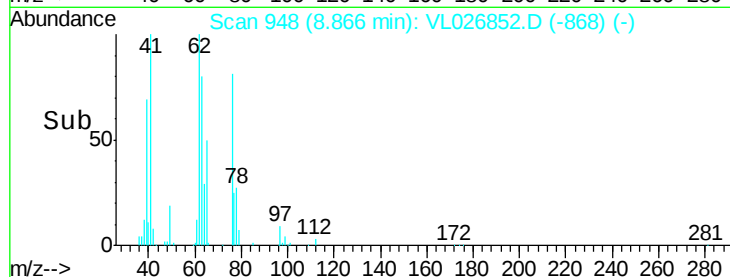
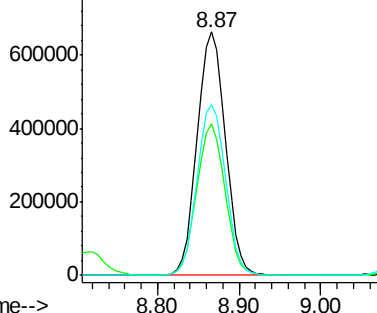
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Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 10.73 ppbv

RT: 9.15 min Scan# 995

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Tgt Ion: 88 Resp: 287899

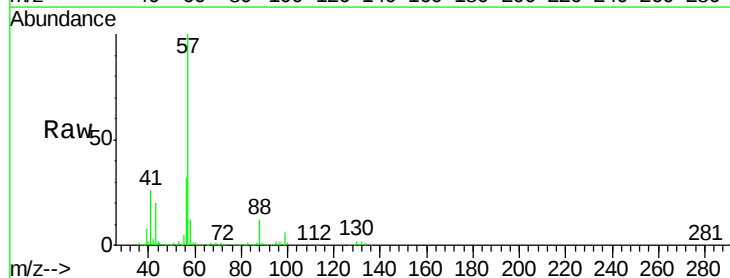
Ion Ratio Lower Upper

88 100

58 187.2 135.6 203.4

43 475.8 332.3 498.5

57 2509.5 1660.5 2490.7#

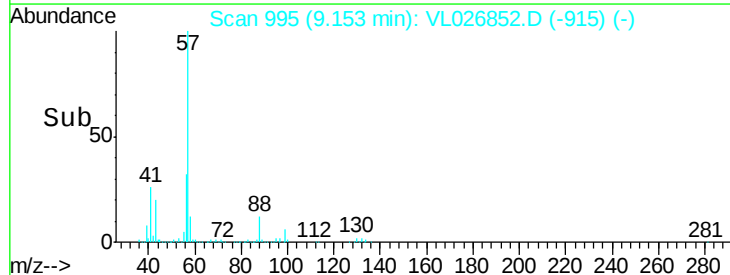
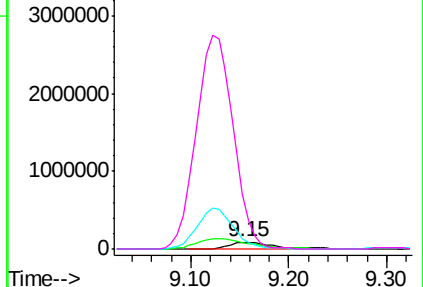


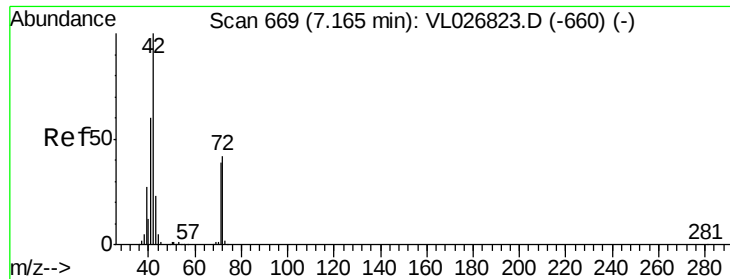
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 11.08 ppbv

RT: 7.15 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010EC

Tot Ion: 42 Resp: 1348527

Ion Ratio Lower Upper

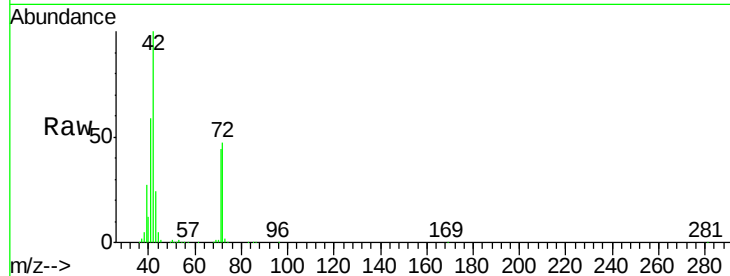
42 100

72 46.4 33.4 50.0

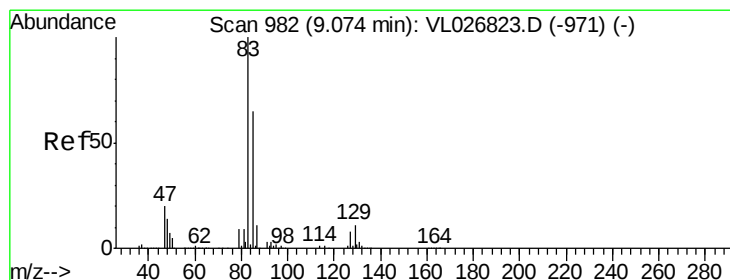
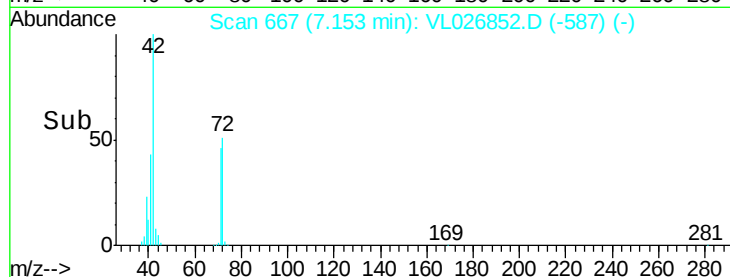
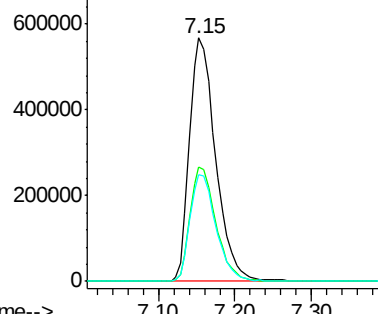
71 43.8 32.1 48.1

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Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 10.97 ppbv

RT: 9.07 min Scan# 981

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

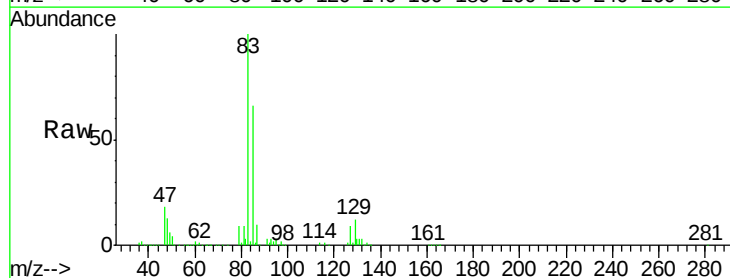
Tgt Ion: 83 Resp: 3700810

Ion Ratio Lower Upper

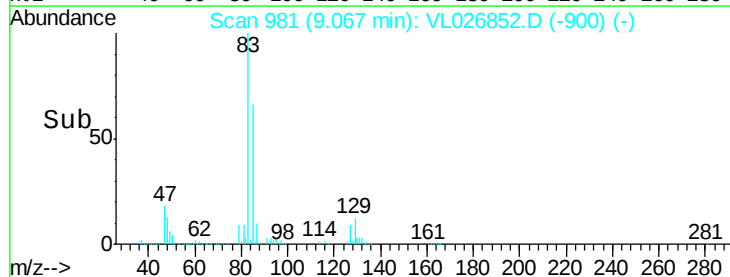
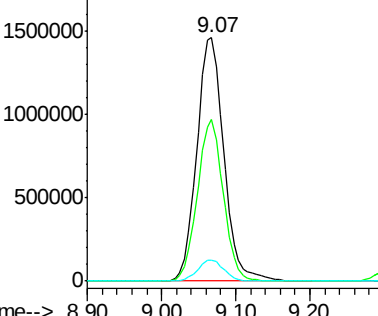
83 100

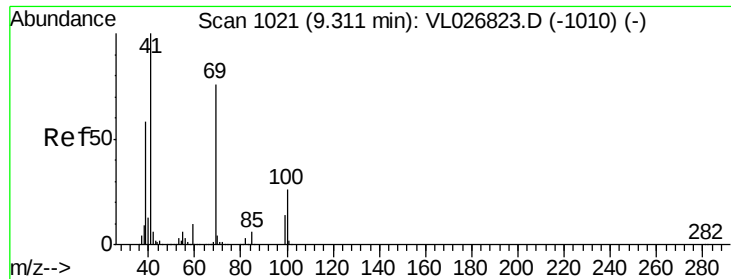
85 66.4 51.8 77.6

127 8.7 6.4 9.6



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





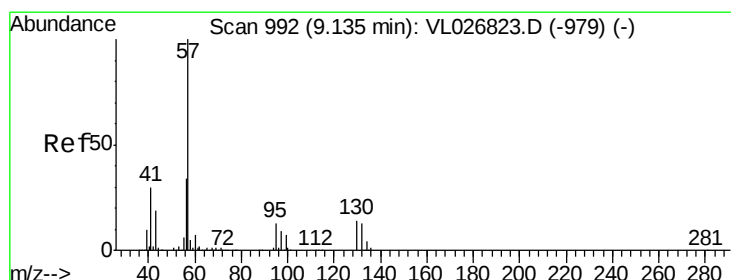
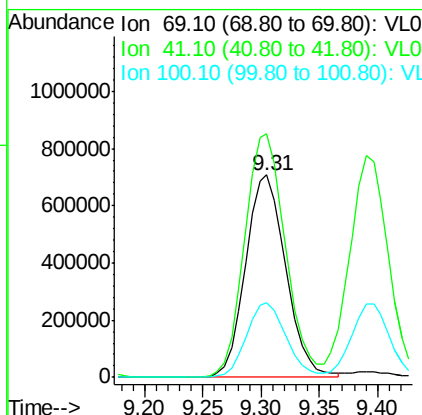
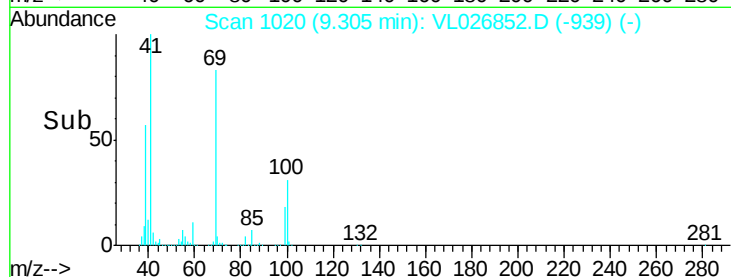
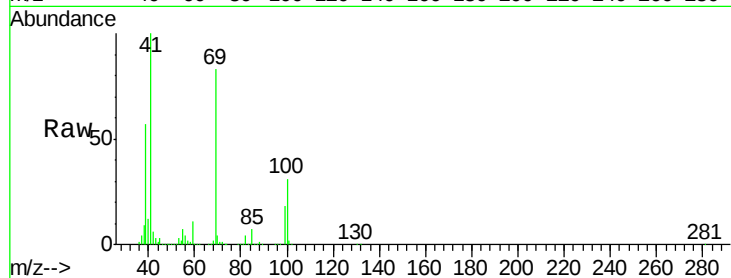
#43
Methvl Methacrilate
Concen: 12.13 ppbv
RT: 9.31 min Scan# 1020
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010EC

Tot Ion: 69 Resp: 1702621
Ion Ratio Lower Upper
69 100
41 121.1 106.5 159.7
100 36.4 27.2 40.8

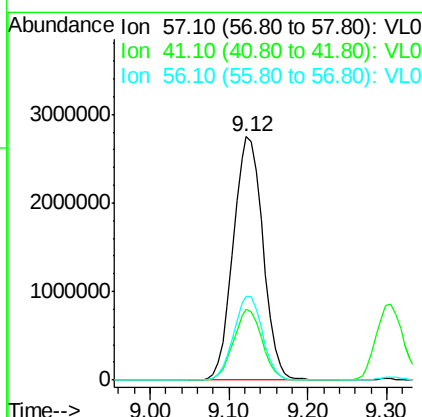
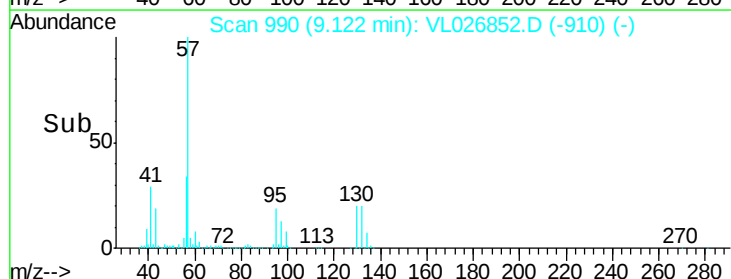
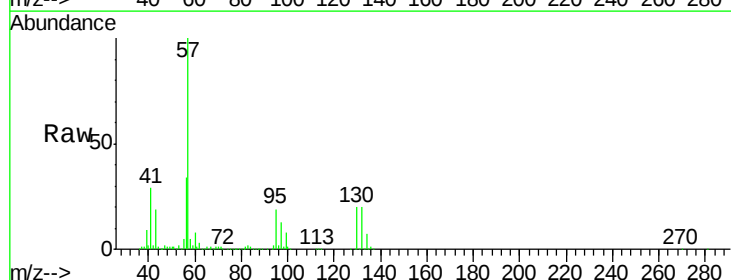
Manual Integrations
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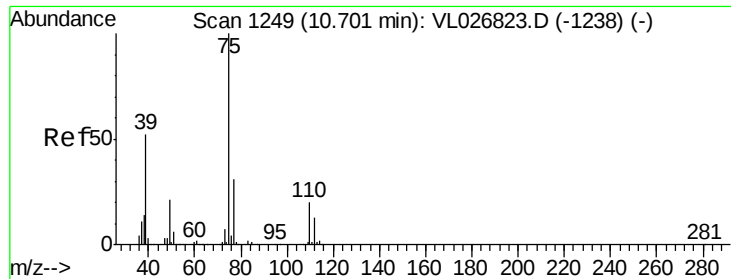
MMDadoda
2/11/2016 1:25:12 PM



#44
2,2,4-Trimethylpentane
Concen: 10.56 ppbv
RT: 9.12 min Scan# 990
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Tgt Ion: 57 Resp: 7225470
Ion Ratio Lower Upper
57 100
41 27.8 23.2 34.8
56 33.5 26.2 39.4





#45

t-1,3-Dichloropropene

Concen: 13.12 ppbv

RT: 10.70 min Scan# 1248

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010EC

Tot Ion: 75 Resp: 2476445

Ion Ratio Lower Upper

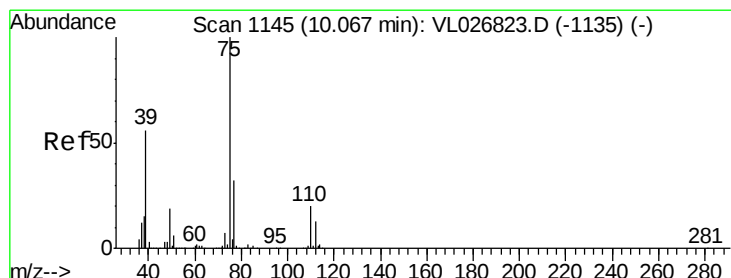
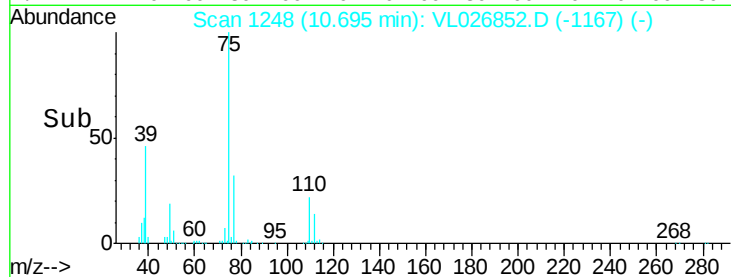
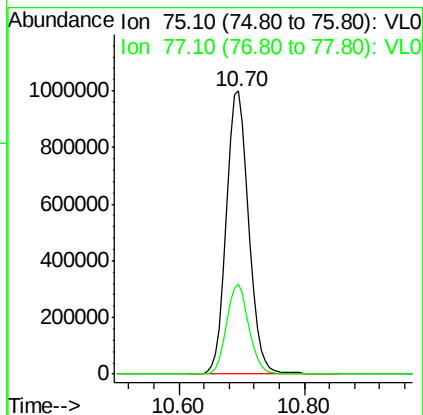
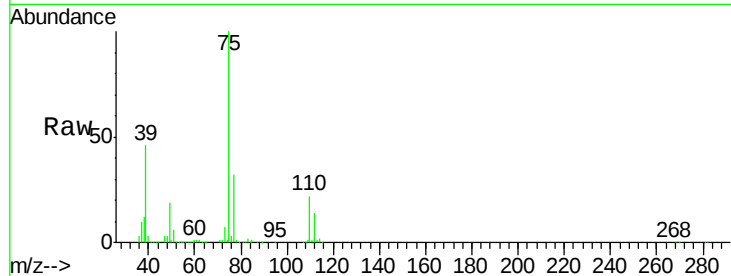
75 100

77 32.0 25.0 37.6

Manual Integrations
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#46

cis-1,3-Dichloropropene

Concen: 12.92 ppbv

RT: 10.06 min Scan# 1144

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

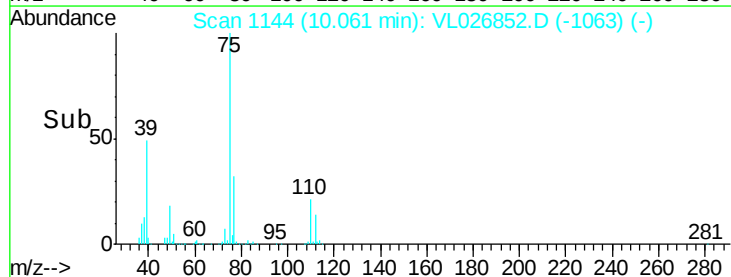
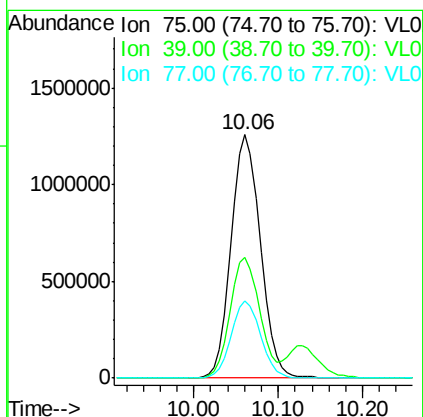
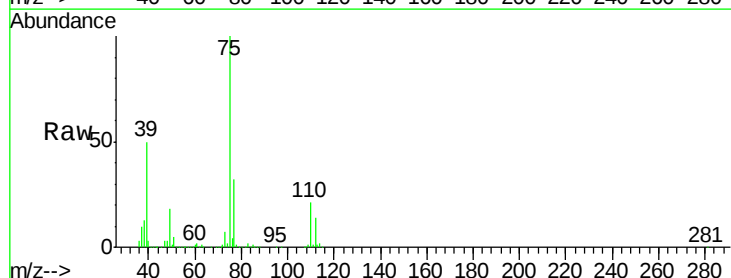
Tgt Ion: 75 Resp: 2969282

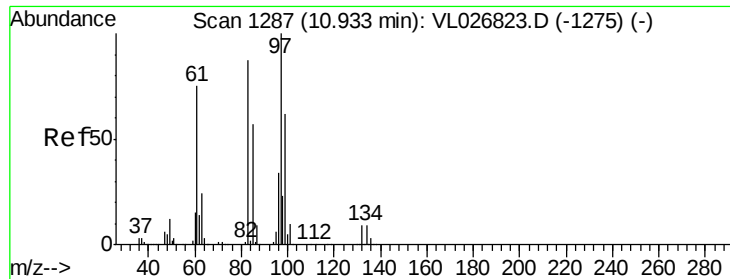
Ion Ratio Lower Upper

75 100

39 49.5 45.0 67.6

77 31.9 25.2 37.8





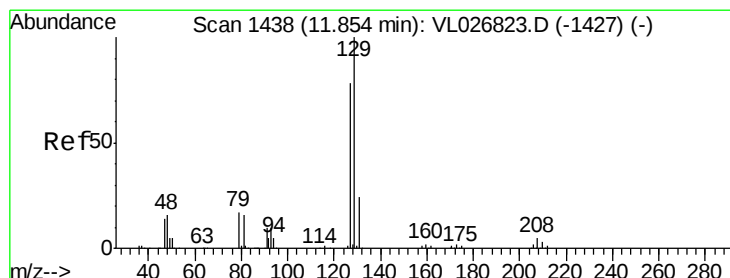
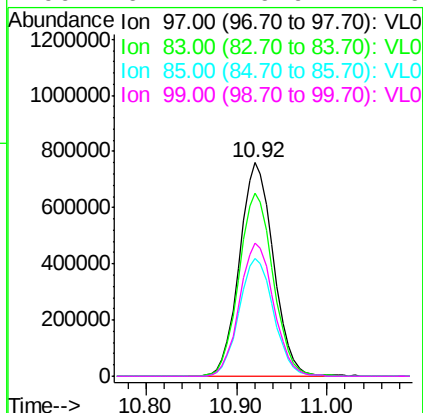
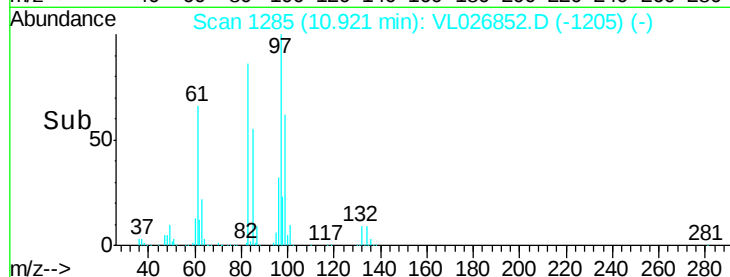
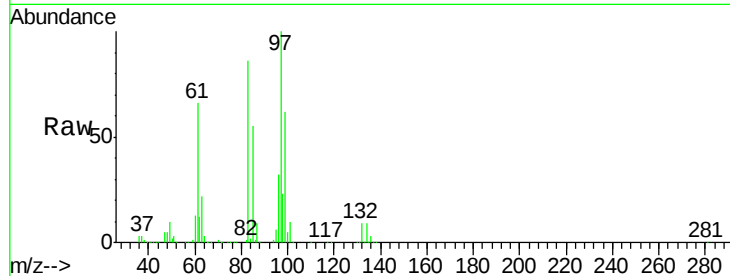
#47
 1,1,2-Trichloroethane
 Concen: 11.79 ppbv
 RT: 10.92 min Scan# 1285
 Delta R.T. -0.01 min
 Lab File: VL026852.D
 Acq: 10 Feb 2016 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCV010EC

Tot Ion	Ratio	Lower	Upper
97	100		
83	85.5	69.7	104.5
85	55.2	45.3	67.9
99	62.1	49.9	74.9

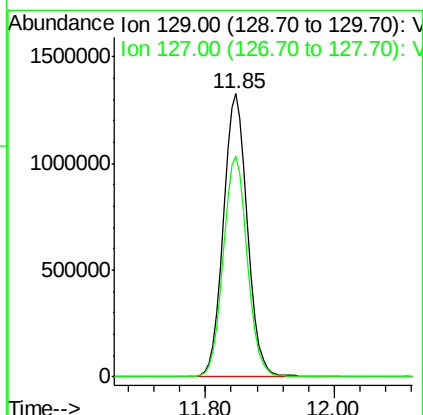
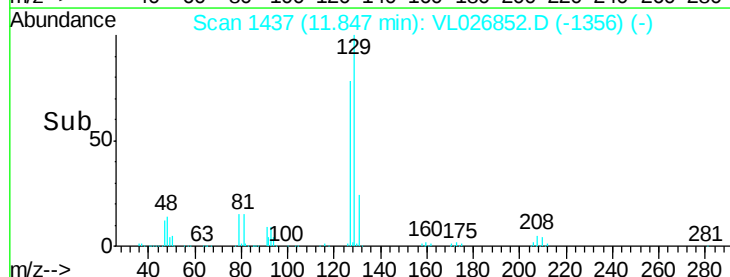
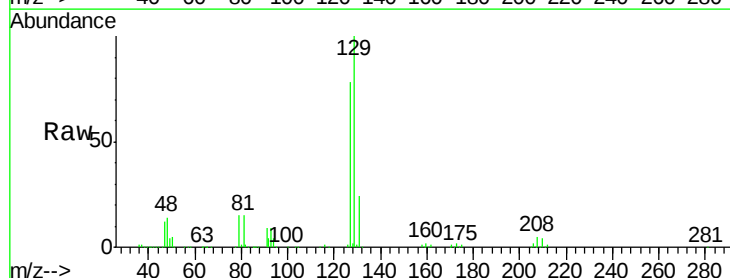
Manual Integrations
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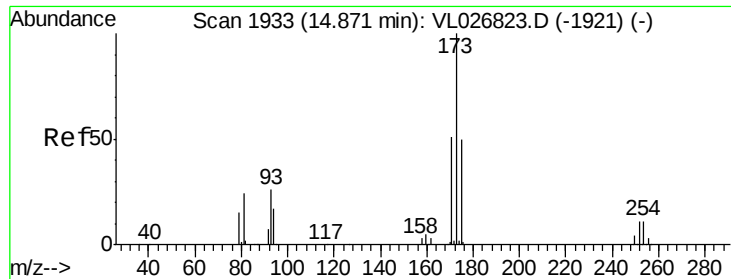
MMDadoda
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#48
 Dibromochloromethane
 Concen: 12.77 ppbv
 RT: 11.85 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: VL026852.D
 Acq: 10 Feb 2016 14:21

Tgt Ion	Ratio	Lower	Upper
129	100		
127	0.0	39.6	119.0#





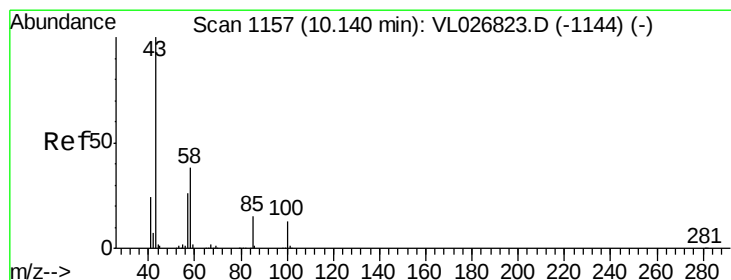
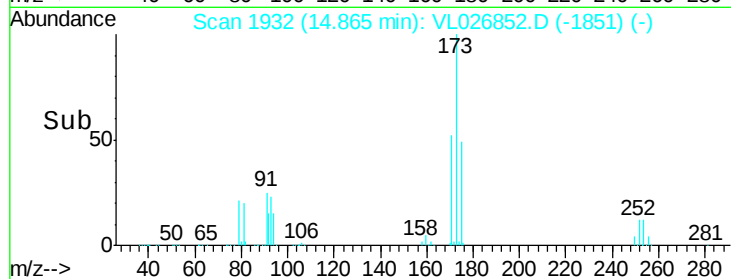
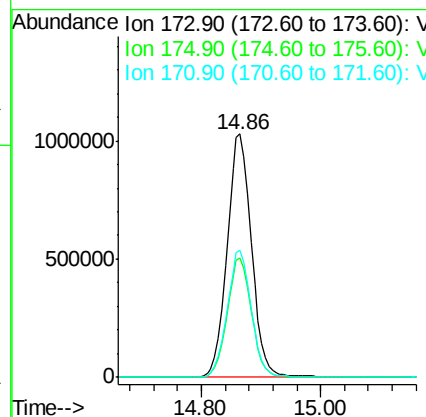
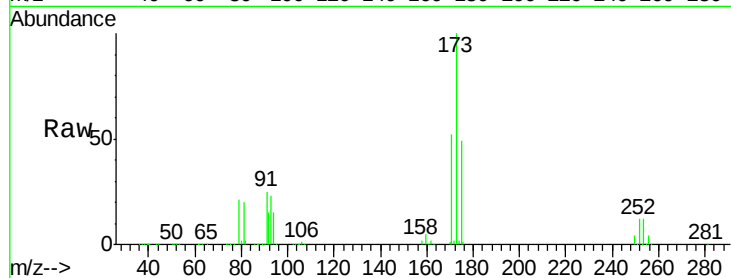
#49
Bromoform
Concen: 14.21 ppbv
RT: 14.86 min Scan# 1932
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010EC

Tot Ion:173 Resp: 2929070
Ion Ratio Lower Upper
173 100
175 48.9 39.2 58.8
171 51.7 41.4 62.0

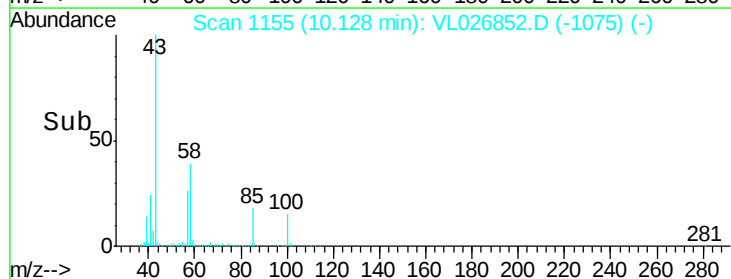
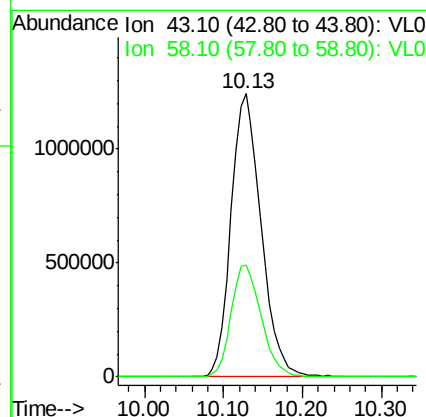
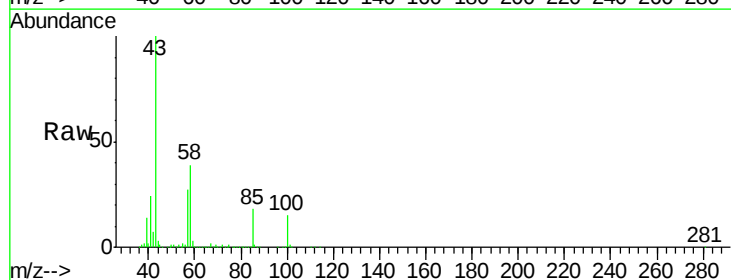
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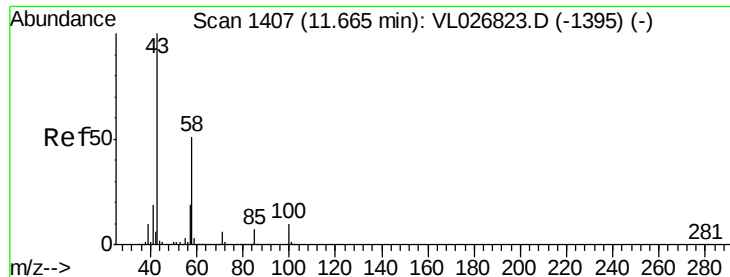
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#50
4-Methyl-2-Pentanone
Concen: 11.29 ppbv
RT: 10.13 min Scan# 1155
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Tgt Ion: 43 Resp: 3291612
Ion Ratio Lower Upper
43 100
58 40.0 30.3 45.5





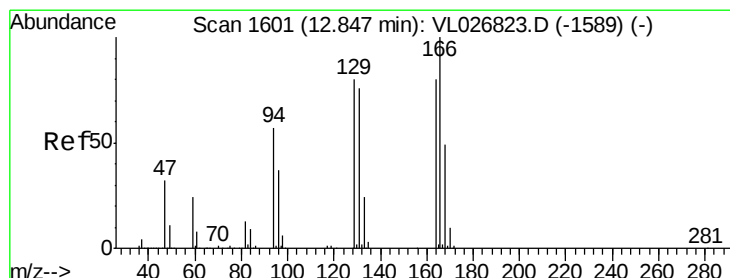
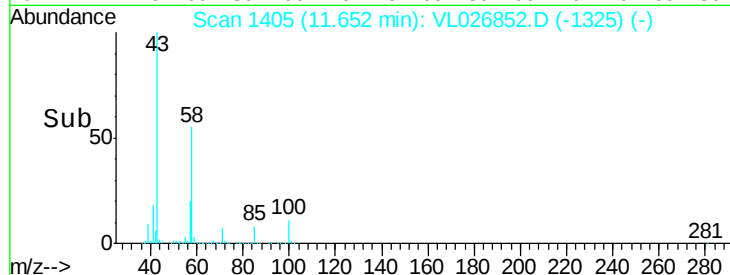
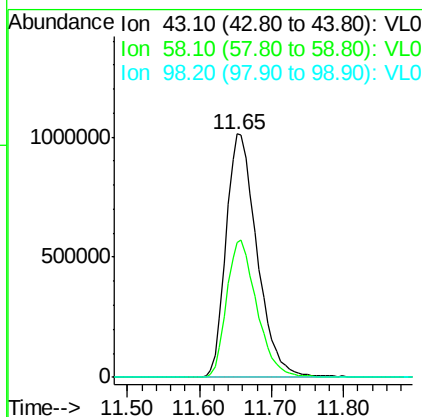
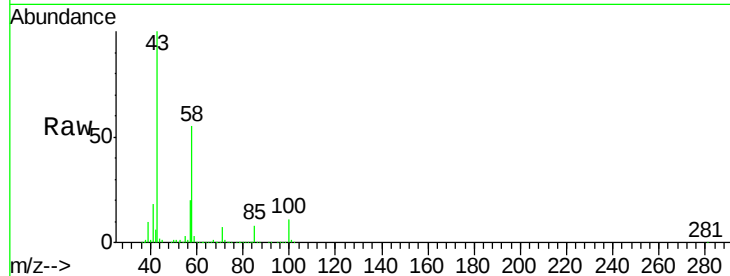
#51
2-Hexanone
Concen: 12.44 ppbv
RT: 11.65 min Scan# 1405
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010EC

Tot Ion: 43 Resp: 3041126
Ion Ratio Lower Upper
43 100
58 55.1 40.4 60.6
98 0.3 0.2 0.4

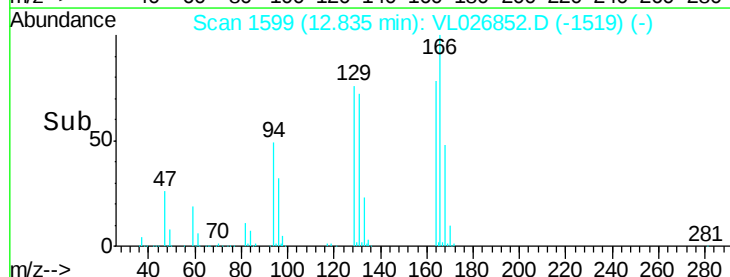
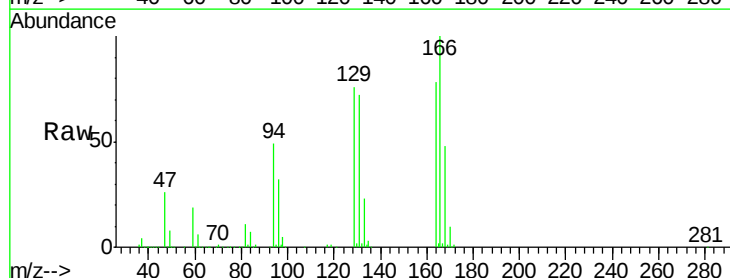
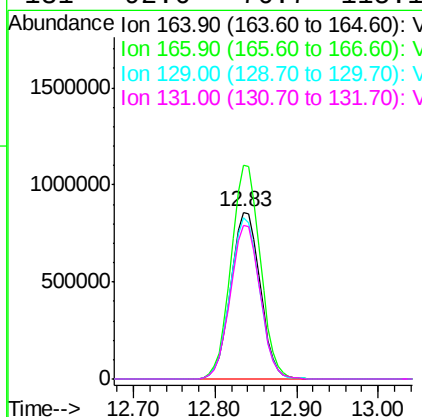
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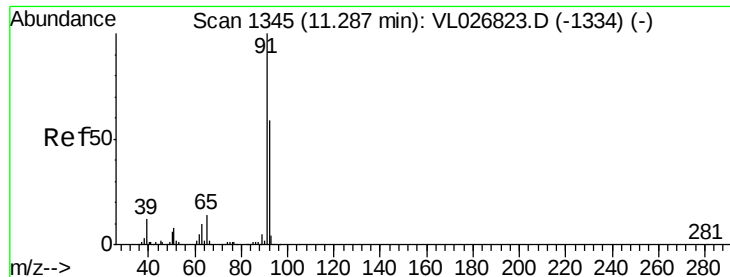
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#52
Tetrachloroethene
Concen: 13.57 ppbv
RT: 12.83 min Scan# 1599
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Tgt Ion: 164 Resp: 2137559
Ion Ratio Lower Upper
164 100
166 128.2 100.3 150.5
129 97.0 80.0 120.0
131 92.6 76.7 115.1





#53

Toluene

Concen: 12.74 ppbv

RT: 11.28 min Scan# 1344

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010EC

Tot Ion: 91 Resp: 5739050

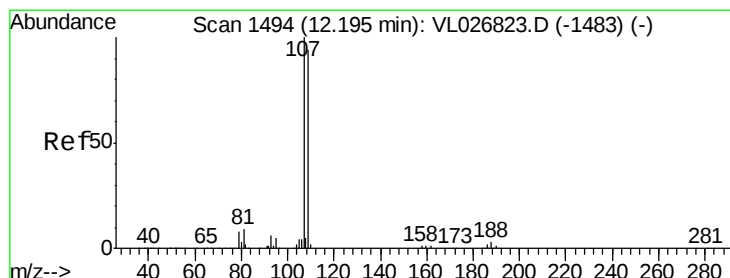
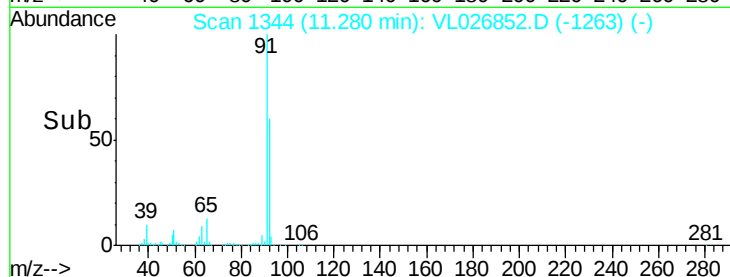
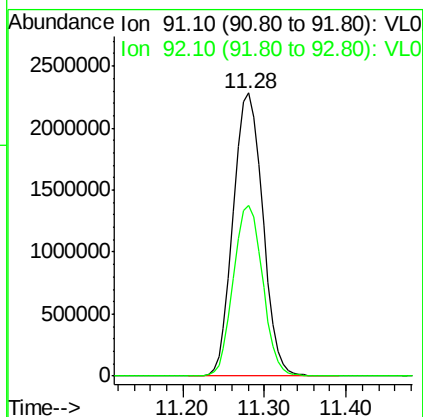
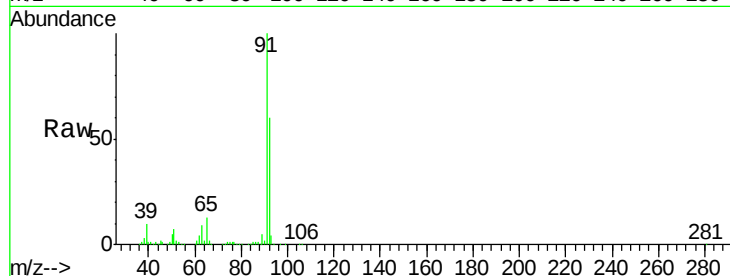
Ion Ratio Lower Upper

91 100

92 59.9 47.3 70.9

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 12.40 ppbv

RT: 12.19 min Scan# 1493

Delta R.T. -0.01 min

Lab File: VL026852.D

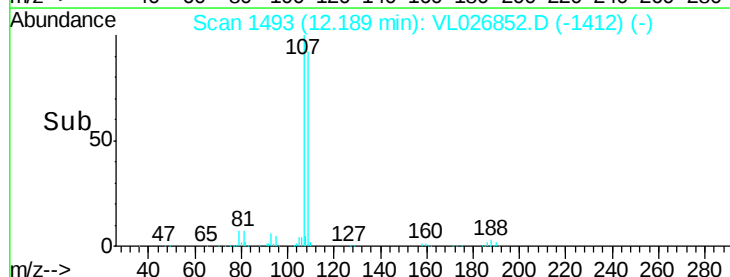
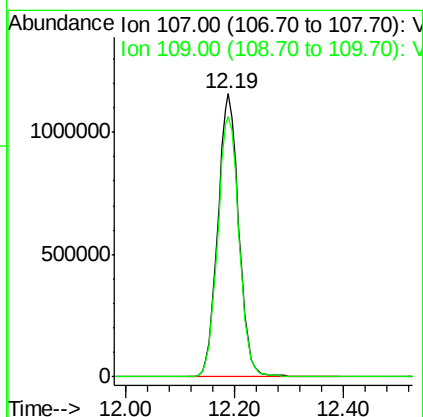
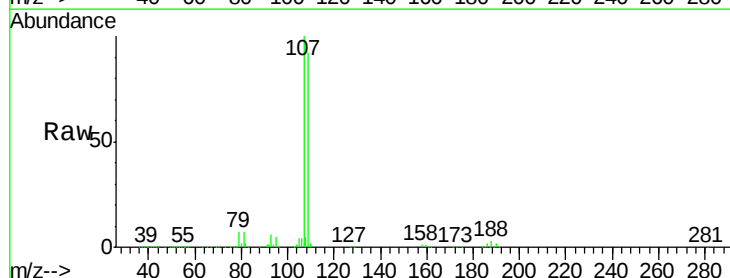
Acq: 10 Feb 2016 14:21

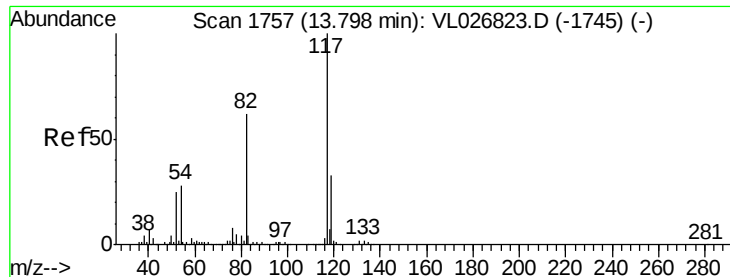
Tgt Ion: 107 Resp: 3090165

Ion Ratio Lower Upper

107 100

109 92.2 75.0 112.4





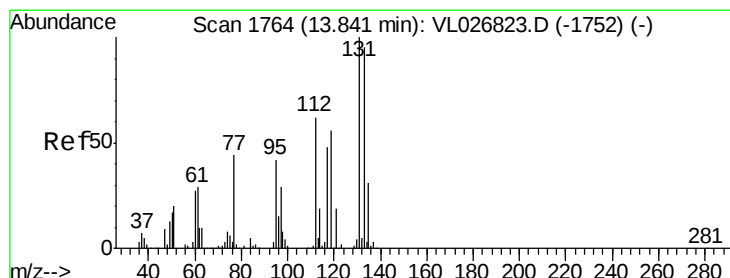
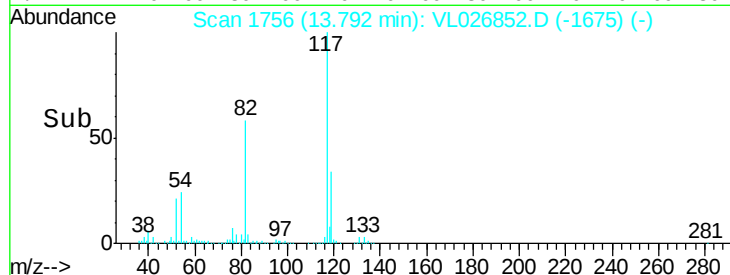
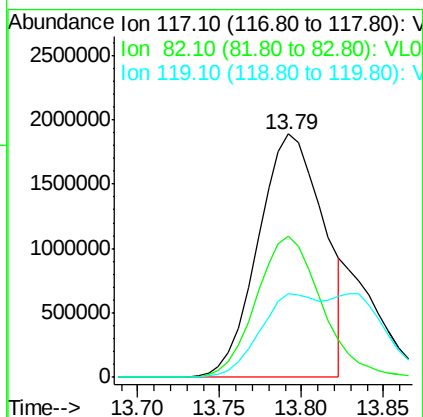
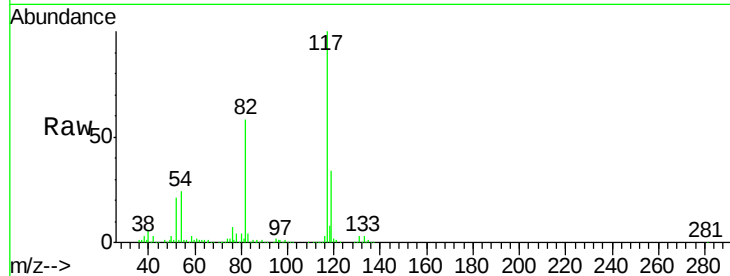
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 13.79 min Scan# 1756
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010EC

Tot Ion:117 Resp: 5248836
Ion Ratio Lower Upper
117 100
82 58.6 51.9 77.9
119 61.2 48.5 72.7

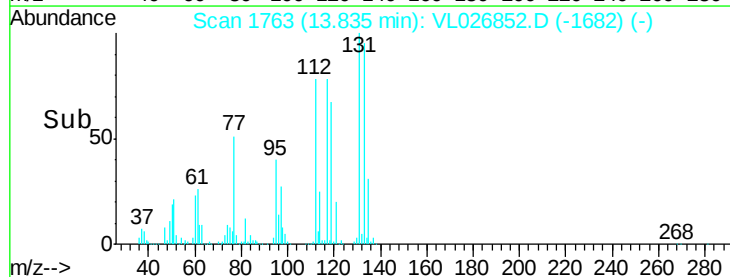
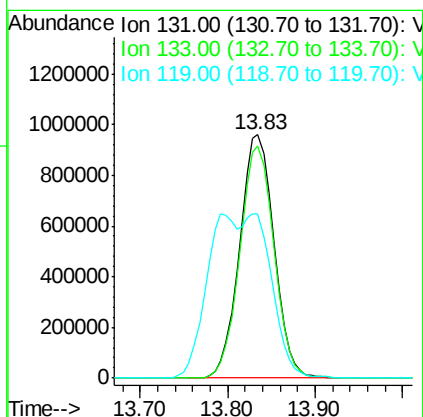
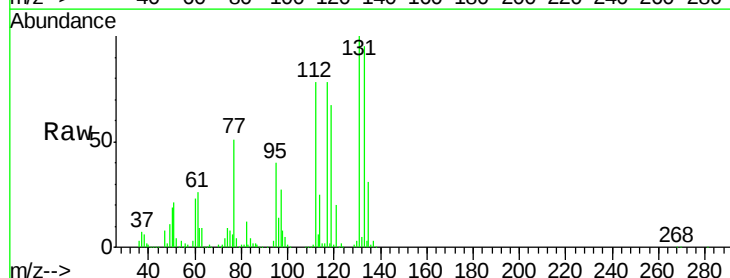
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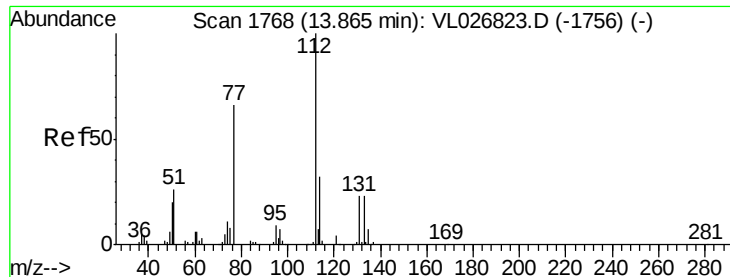
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#56
1,1,1,2-Tetrachloroethane
Concen: 11.37 ppbv
RT: 13.83 min Scan# 1763
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Tgt Ion:131 Resp: 2629405
Ion Ratio Lower Upper
131 100
133 95.3 76.4 114.6
119 122.1 99.8 149.8





#57

Chlorobenzene

Concen: 11.34 ppbv

RT: 13.86 min Scan# 1767

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010EC

Tot Ion:112 Resp: 4924211

Ion Ratio Lower Upper

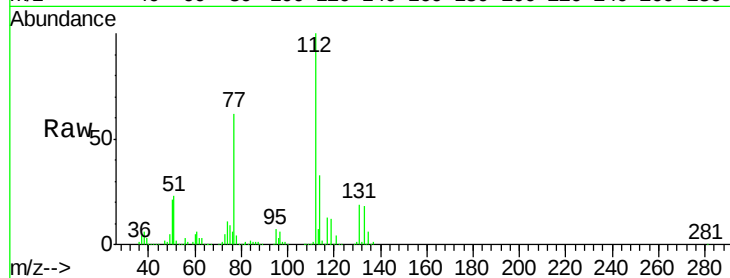
112 100

77 62.3 53.3 79.9

114 32.9 28.9 35.3

Manual Integrations
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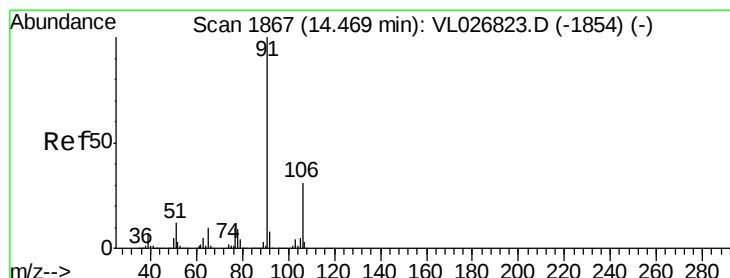
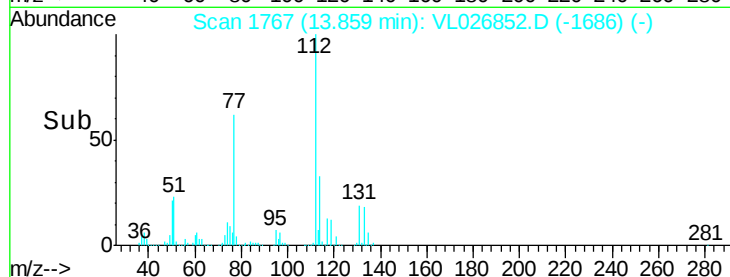
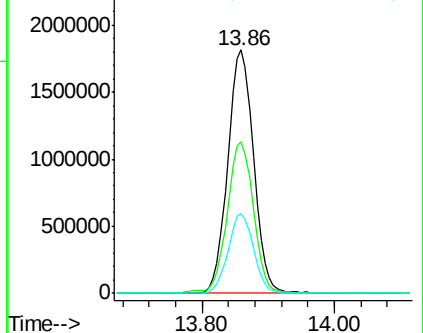
MMDadoda
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.95 ppbv

RT: 14.46 min Scan# 1865

Delta R.T. -0.01 min

Lab File: VL026852.D

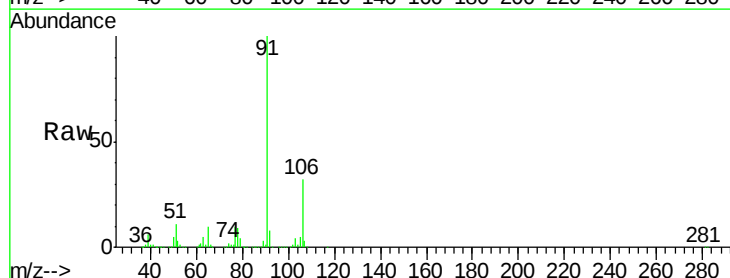
Acq: 10 Feb 2016 14:21

Tgt Ion: 91 Resp: 7552655

Ion Ratio Lower Upper

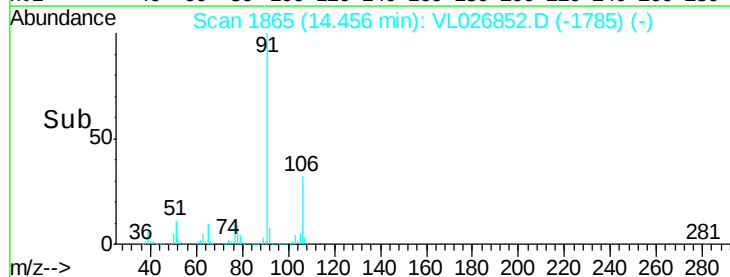
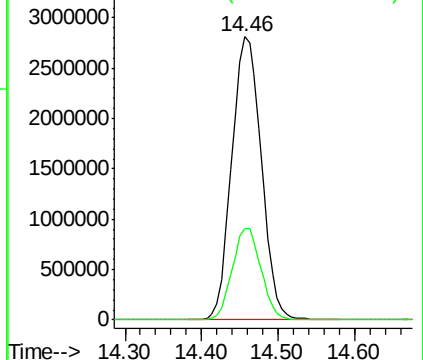
91 100

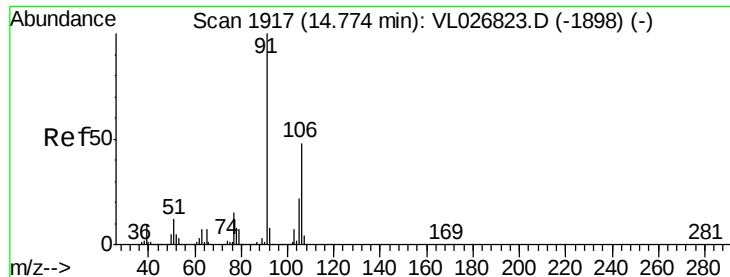
106 32.3 24.9 37.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





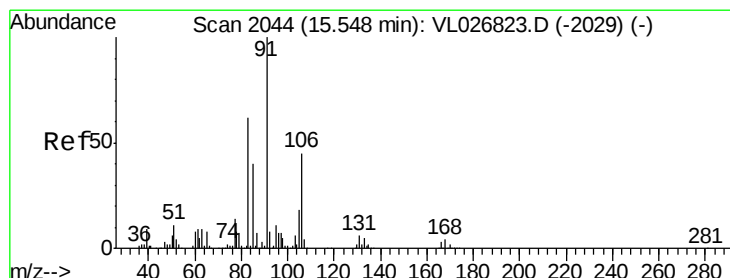
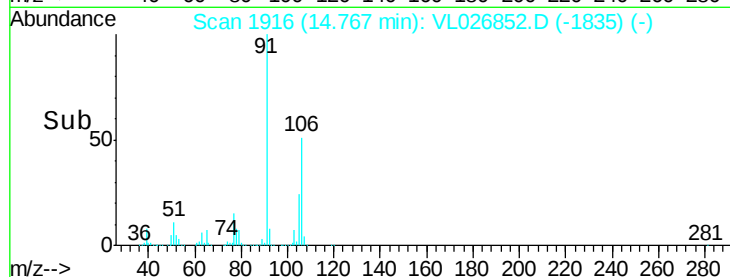
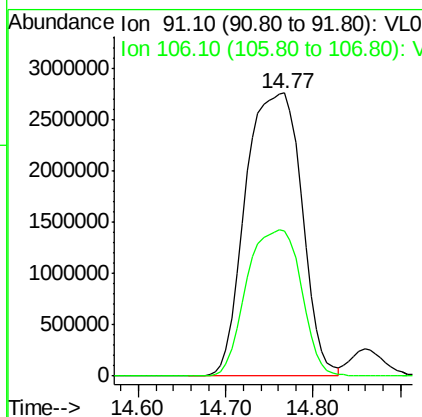
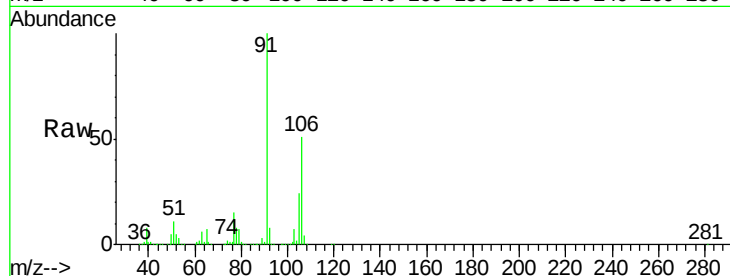
#59
m/p-Xylene
Concen: 22.76 ppbv
RT: 14.77 min Scan# 1916
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010EC

Tot Ion: 91 Resp:12287680
Ion Ratio Lower Upper
91 100
106 50.5 38.2 57.2

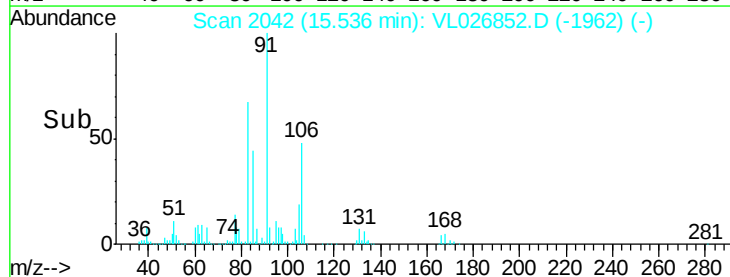
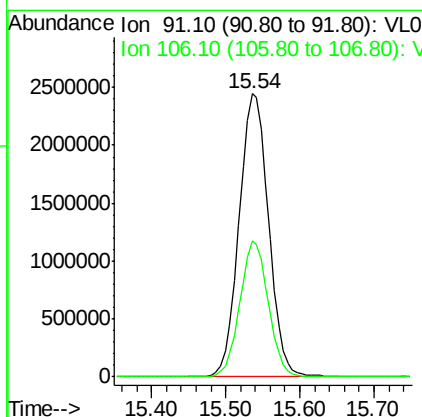
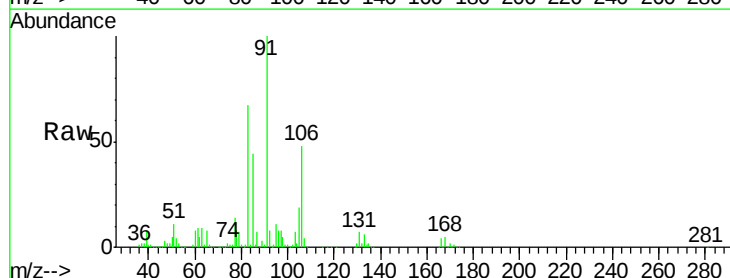
Manual Integrations
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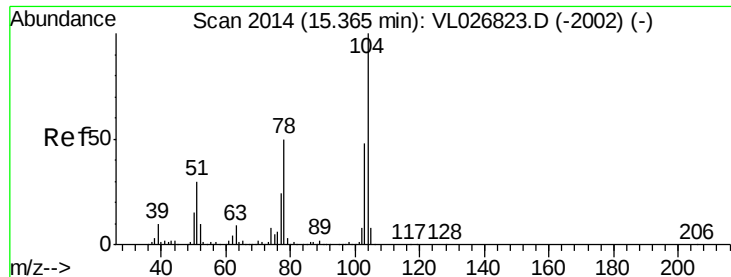
MMDadoda
2/11/2016 1:25:12 PM



#60
o-Xylene
Concen: 11.49 ppbv
RT: 15.54 min Scan# 2042
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Tgt Ion: 91 Resp: 6787156
Ion Ratio Lower Upper
91 100
106 46.5 22.3 66.8





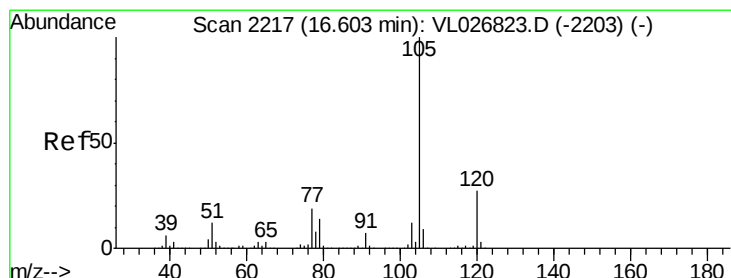
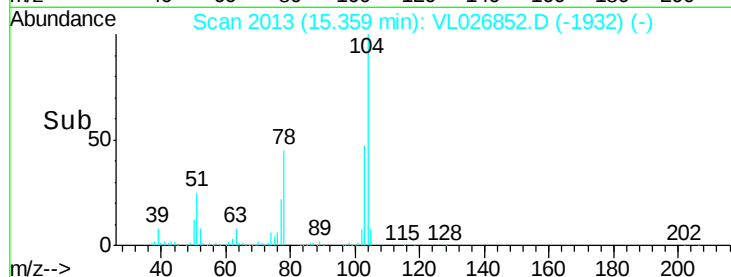
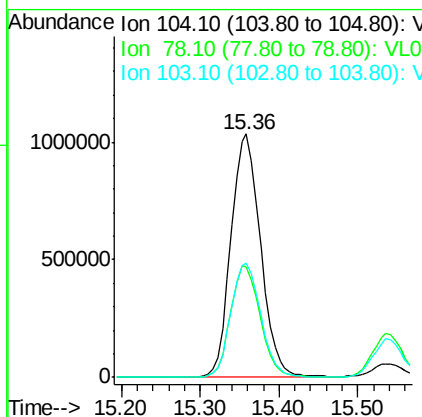
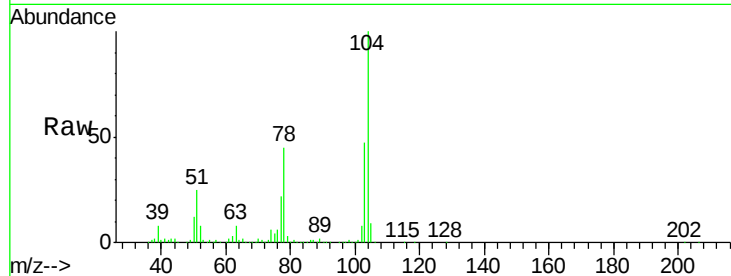
#61
Stvrene
Concen: 13.55 ppbv
RT: 15.36 min Scan# 2013
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	45.9	39.8	59.6
103	47.4	38.2	57.4

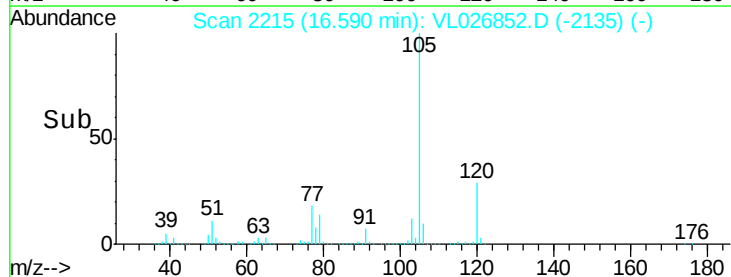
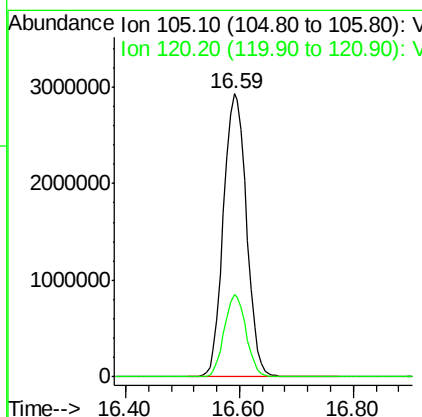
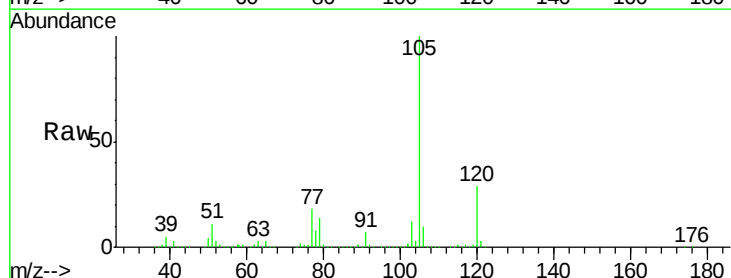
Manual Integrations
APPROVED

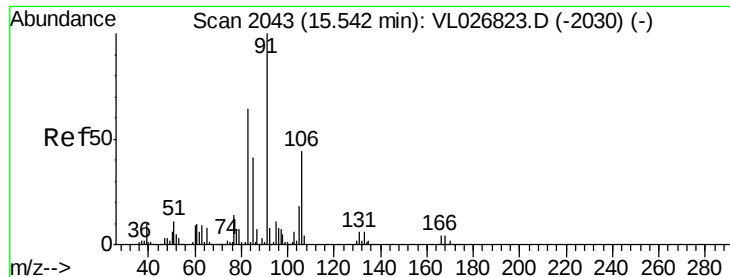
MMDadoda
2/11/2016 1:25:12 PM



#62
Isopropylbenzene
Concen: 11.65 ppbv
RT: 16.59 min Scan# 2215
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.6	21.0	31.4





#63

1,1,2,2-Tetrachloroethane

Concen: 11.53 ppbv

RT: 15.54 min Scan# 2042

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010EC

Tot Ion: 83 Resp: 4650736

Ion Ratio Lower Upper

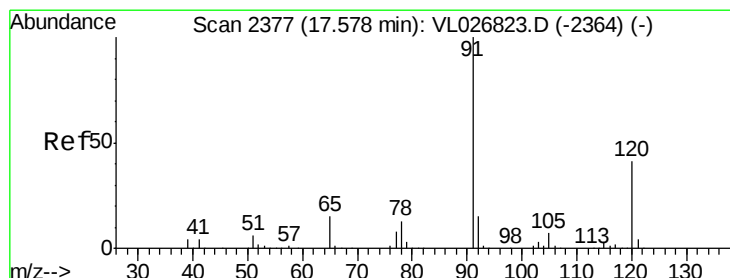
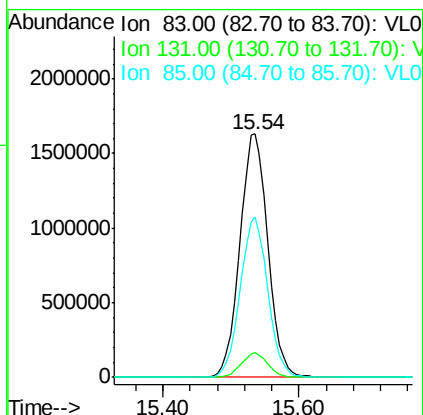
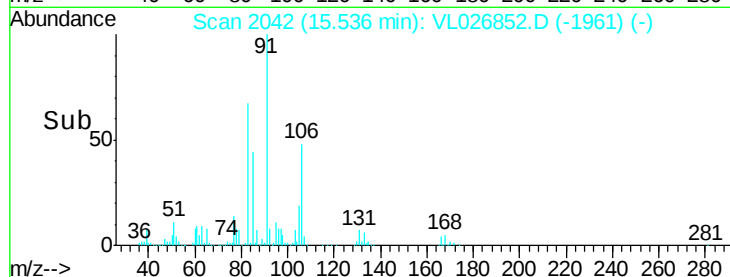
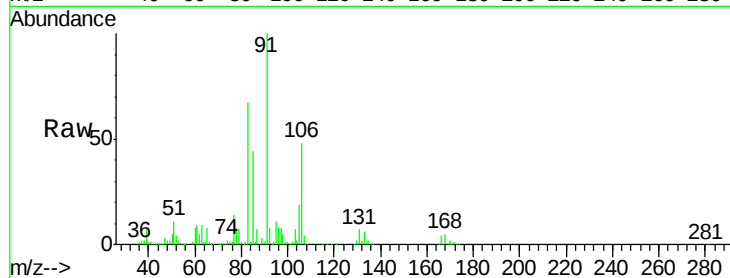
83 100

131 9.7 4.7 14.1

85 65.1 32.3 96.9

Manual Integrations
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#64

n-propylbenzene

Concen: 12.38 ppbv

RT: 17.57 min Scan# 2376

Delta R.T. -0.01 min

Lab File: VL026852.D

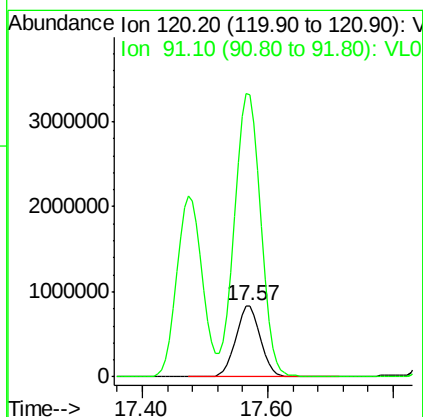
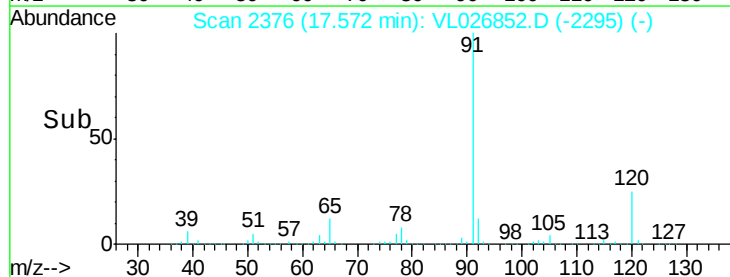
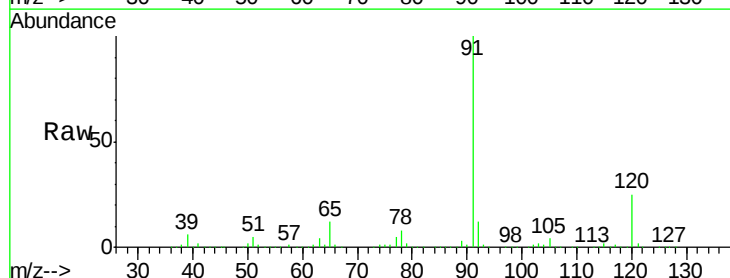
Acq: 10 Feb 2016 14:21

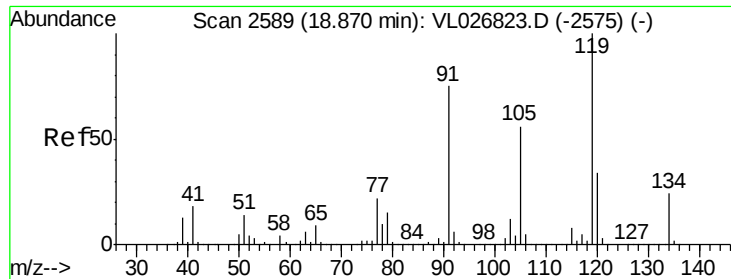
Tgt Ion:120 Resp: 2257330

Ion Ratio Lower Upper

120 100

91 433.6 363.0 544.6





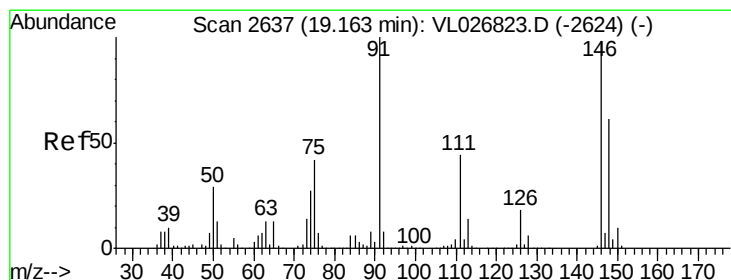
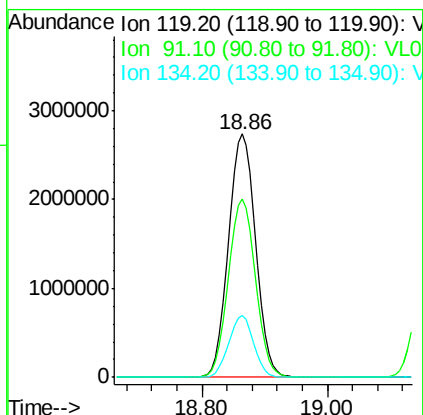
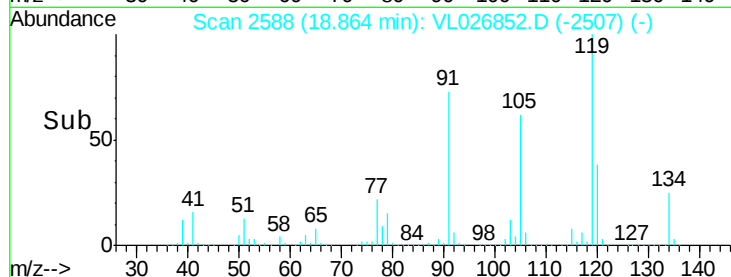
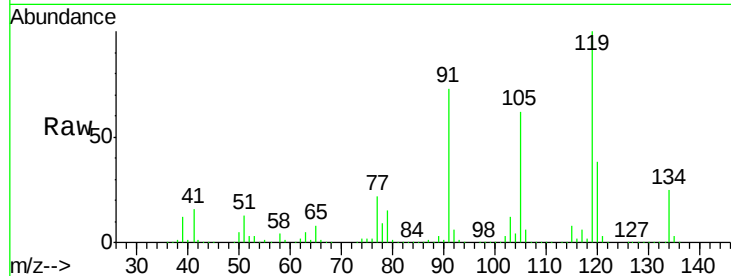
#65
tert-Butylbenzene
Concen: 12.57 ppbv
RT: 18.86 min Scan# 2588
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCV010EC

Tot Ion:119 Resp: 8210177
Ion Ratio Lower Upper
119 100
91 73.2 61.5 92.3
134 23.4 17.9 26.9

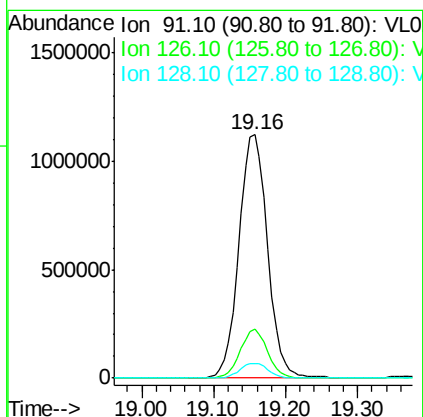
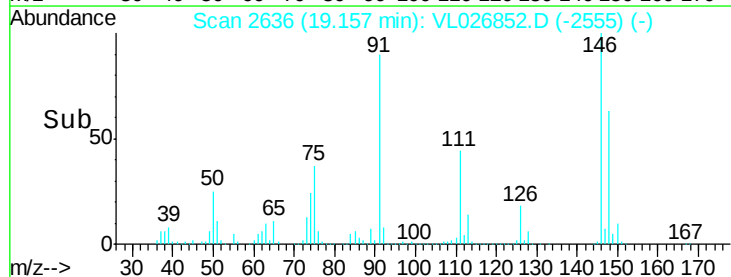
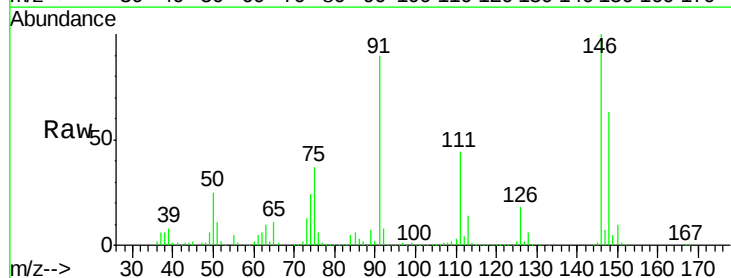
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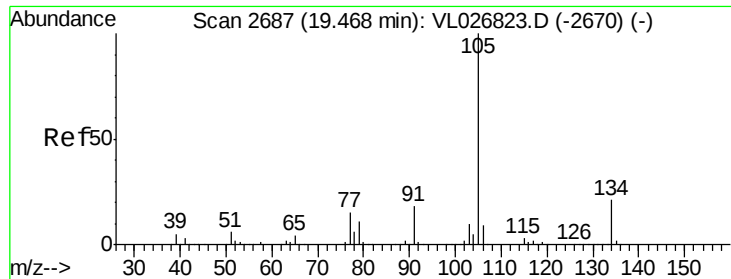
MMDadoda
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#66
Benzyl Chloride
Concen: 14.54 ppbv
RT: 19.16 min Scan# 2636
Delta R.T. -0.01 min
Lab File: VL026852.D
Acq: 10 Feb 2016 14:21

Tgt Ion: 91 Resp: 3083931
Ion Ratio Lower Upper
91 100
126 19.2 14.6 21.8
128 6.1 4.6 6.8





#67

sec-Butylbenzene

Concen: 11.91 ppbv

RT: 19.46 min Scan# 2686

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010EC

Tot Ion:105 Resp:10134008

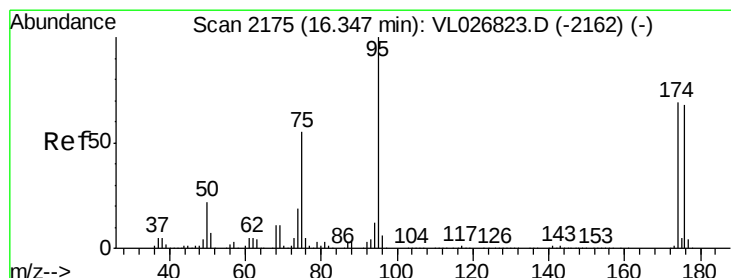
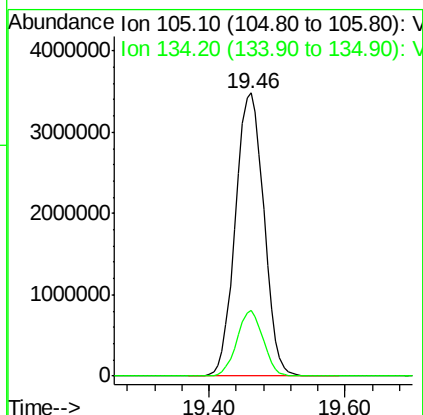
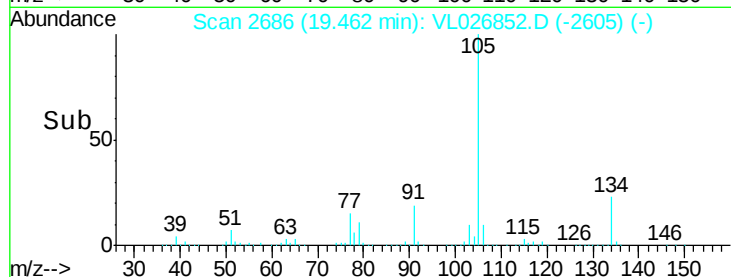
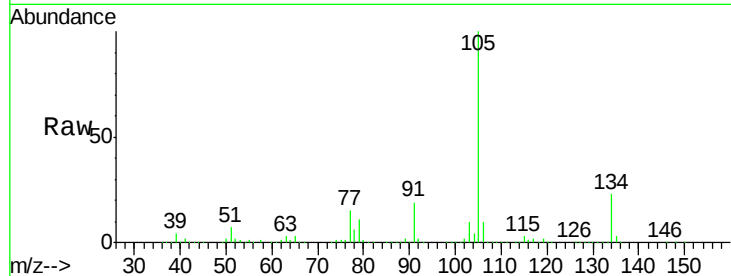
Ion Ratio Lower Upper

105 100

134 21.5 16.1 24.1

Manual Integrations
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2/11/2016 1:25:12 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.46 ppbv

RT: 16.33 min Scan# 2173

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

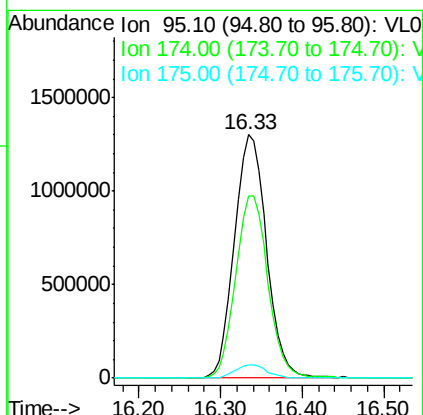
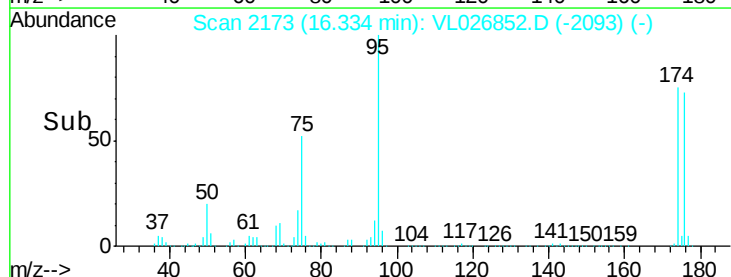
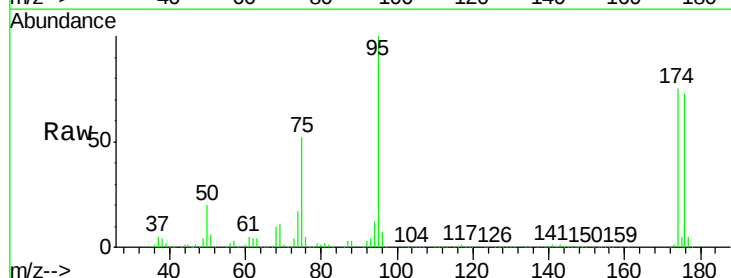
Tgt Ion: 95 Resp: 3564728

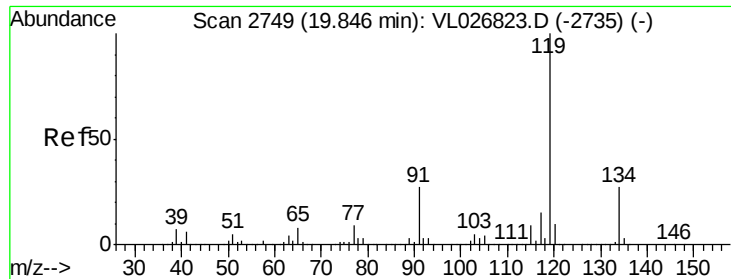
Ion Ratio Lower Upper

95 100

174 75.5 55.6 83.4

175 5.3 3.9 5.9





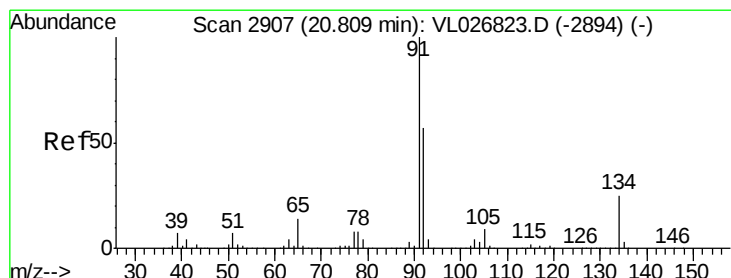
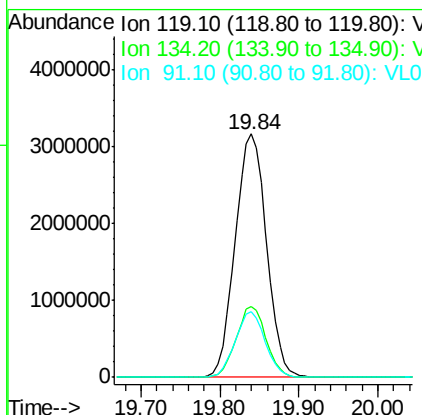
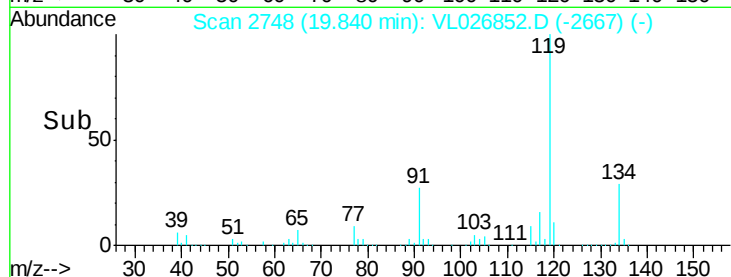
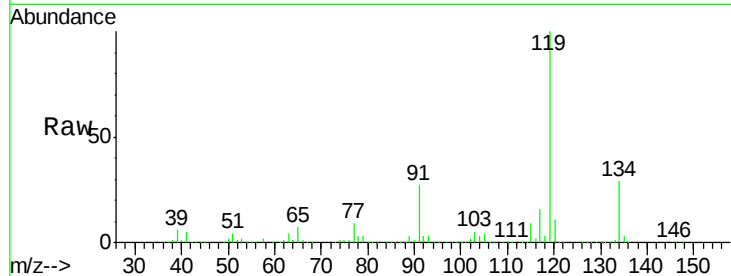
#69
 p-Isopropyltoluene
 Concen: 12.67 ppbv
 RT: 19.84 min Scan# 2748
 Delta R.T. -0.01 min
 Lab File: VL026852.D
 Acq: 10 Feb 2016 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCV010EC

Tot Ion: 119 Resp: 8732940
 Ion Ratio Lower Upper
 119 100
 134 27.9 21.3 31.9
 91 25.8 21.5 32.3

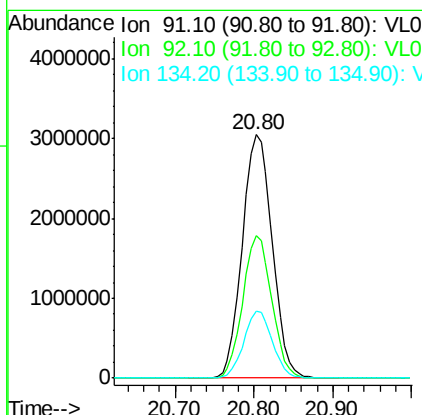
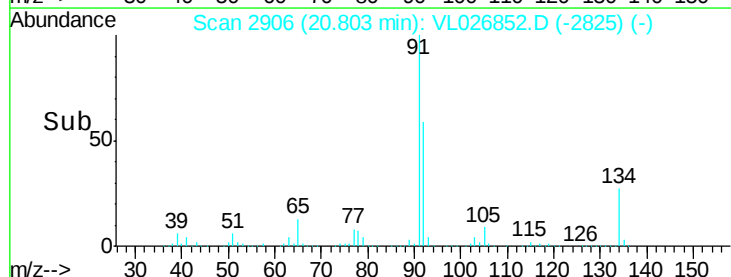
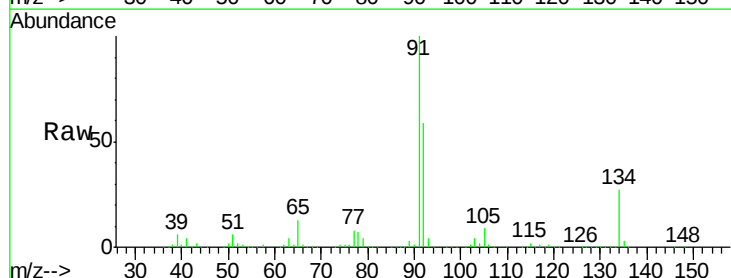
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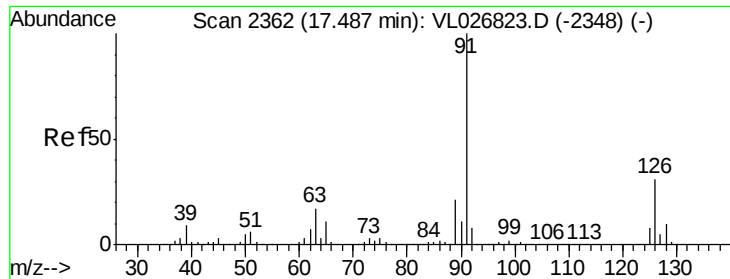
MMDadoda
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#70
 n-Butylbenzene
 Concen: 12.27 ppbv
 RT: 20.80 min Scan# 2906
 Delta R.T. -0.01 min
 Lab File: VL026852.D
 Acq: 10 Feb 2016 14:21

Tgt Ion: 91 Resp: 8062179
 Ion Ratio Lower Upper
 91 100
 92 56.7 44.2 66.4
 134 26.2 19.3 28.9





#71

2-Chlorotoluene

Concen: 12.26 ppbv

RT: 17.47 min Scan# 2360

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010EC

Tot Ion: 91 Resp: 5934548

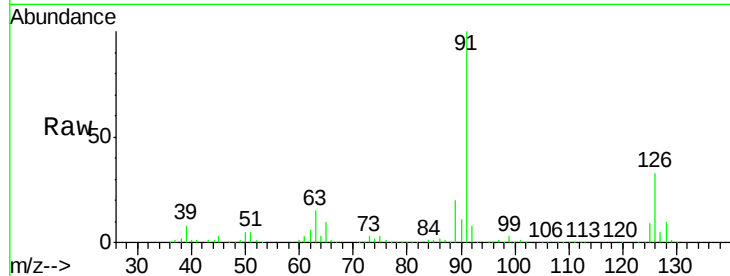
Ion Ratio Lower Upper

91 100

126 33.2 12.2 48.8

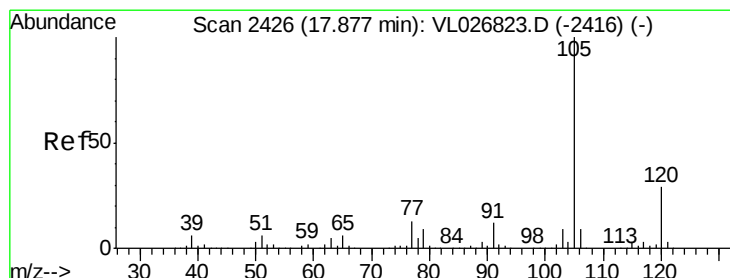
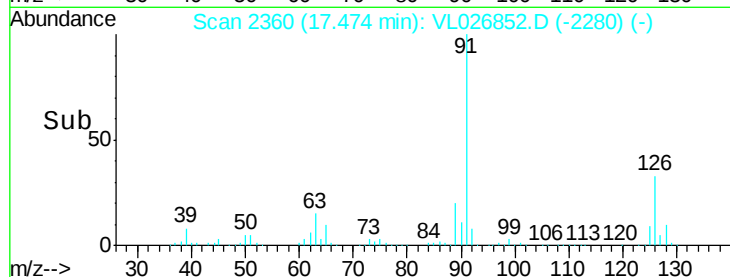
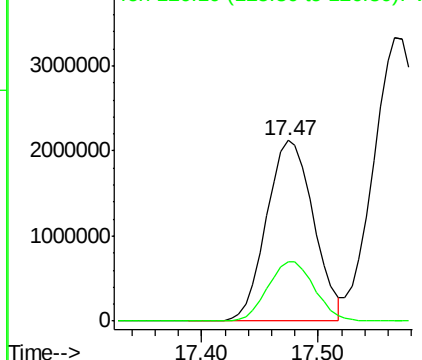
Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 12.69 ppbv

RT: 17.87 min Scan# 2425

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Tgt Ion: 105 Resp: 6906603

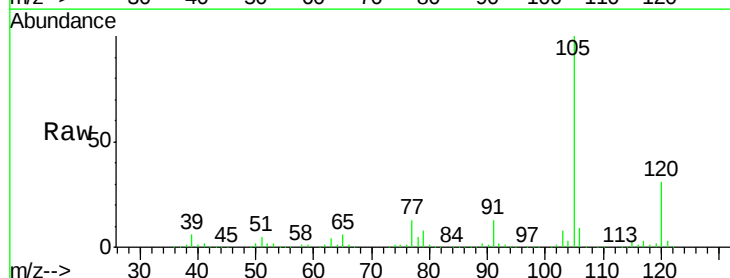
Ion Ratio Lower Upper

105 100

120 30.9 23.8 35.6

91 12.2 10.2 15.4

77 12.8 10.8 16.2

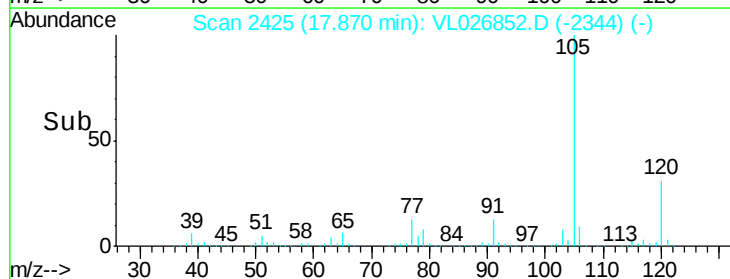
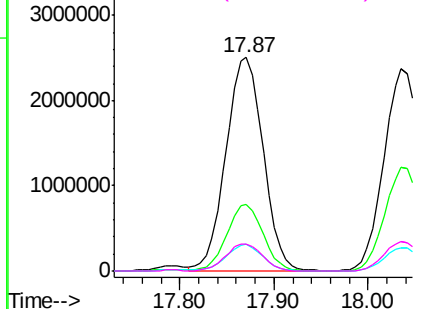


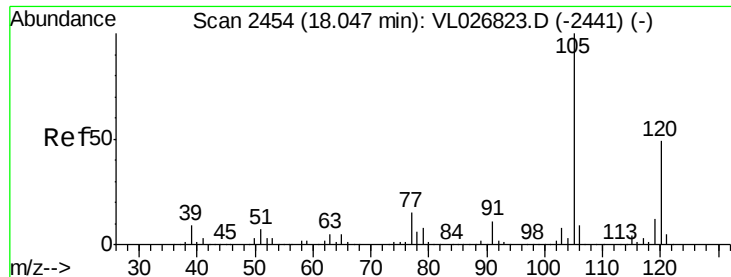
Abundance Ion 105.10 (104.80 to 105.80): V

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





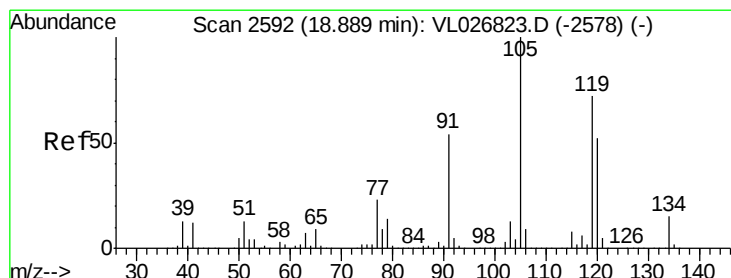
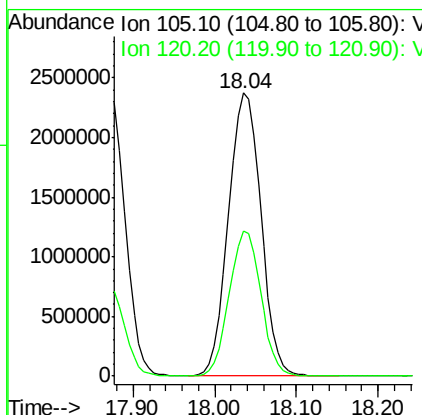
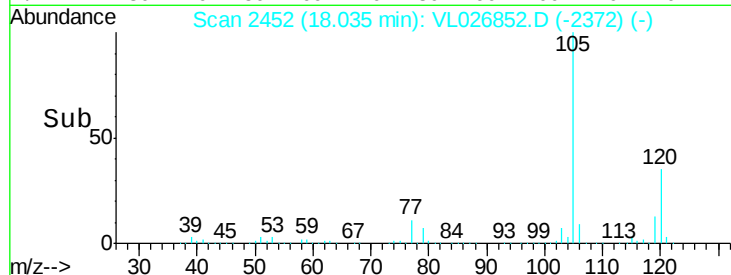
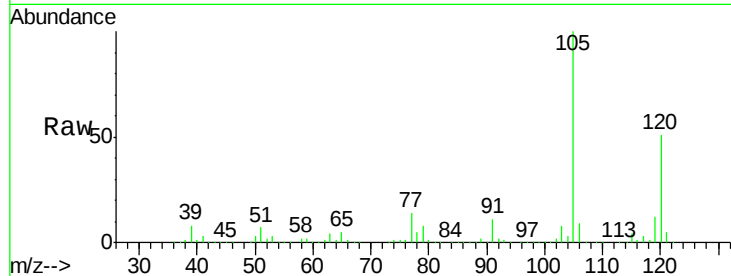
#73
 1,3,5-Trimethylbenzene
 Concen: 12.34 ppbv
 RT: 18.04 min Scan# 2452
 Delta R.T. -0.01 min
 Lab File: VL026852.D
 Acq: 10 Feb 2016 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCV010EC

Tot Ion:105 Resp: 6541616
 Ion Ratio Lower Upper
 105 100
 120 51.1 39.4 59.0

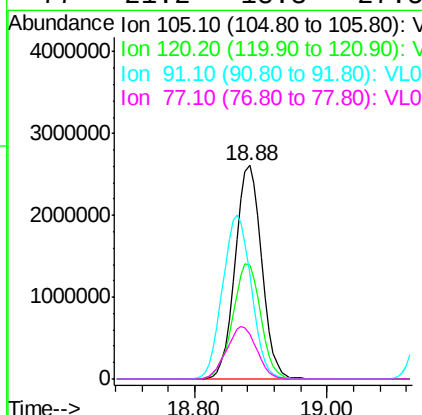
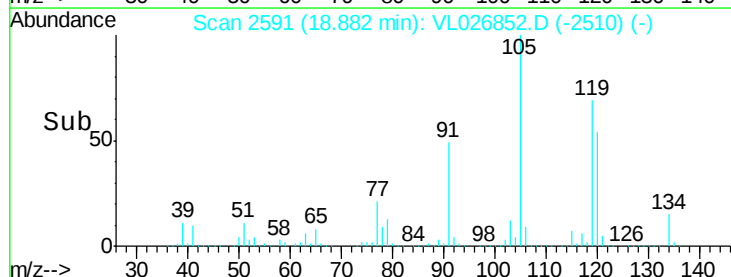
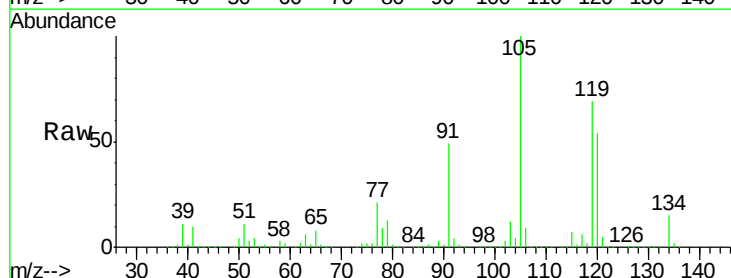
Manual Integrations
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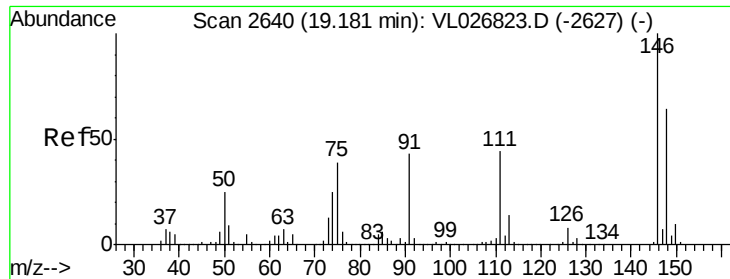
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 2/11/2016 1:25:12 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 12.04 ppbv
 RT: 18.88 min Scan# 2591
 Delta R.T. -0.01 min
 Lab File: VL026852.D
 Acq: 10 Feb 2016 14:21

Tgt Ion:105 Resp: 7258327
 Ion Ratio Lower Upper
 105 100
 120 53.5 41.3 61.9
 91 49.3 43.3 64.9
 77 21.2 18.3 27.5





#75

1,3-Dichlorobenzene

Concen: 12.63 ppbv

RT: 19.17 min Scan# 2638

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010EC

Tot Ion:146 Resp: 4612224

Ion Ratio Lower Upper

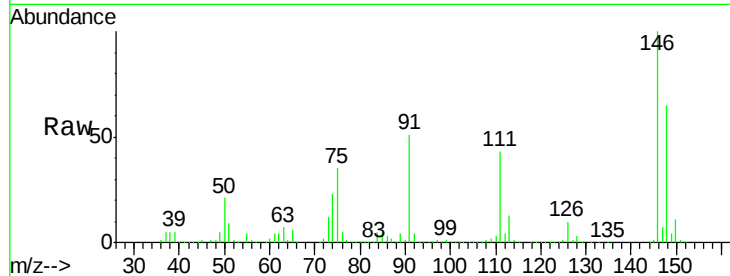
146 100

111 42.4 22.1 66.3

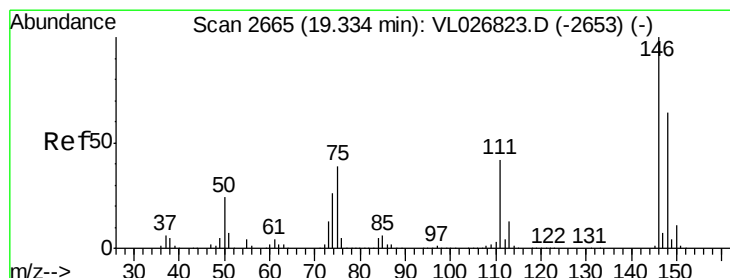
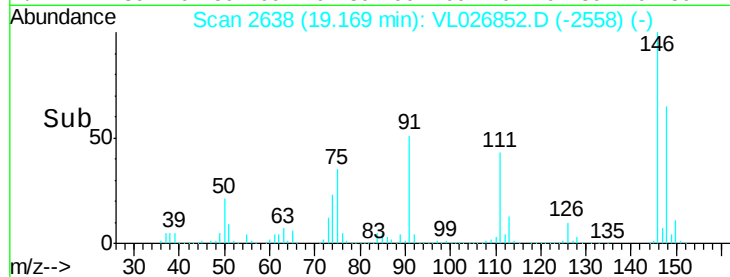
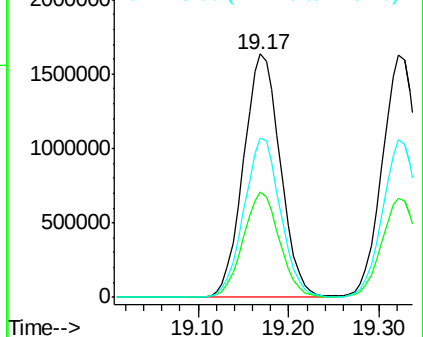
148 64.6 32.2 96.6

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



#76

1,4-Dichlorobenzene

Concen: 12.78 ppbv

RT: 19.32 min Scan# 2663

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

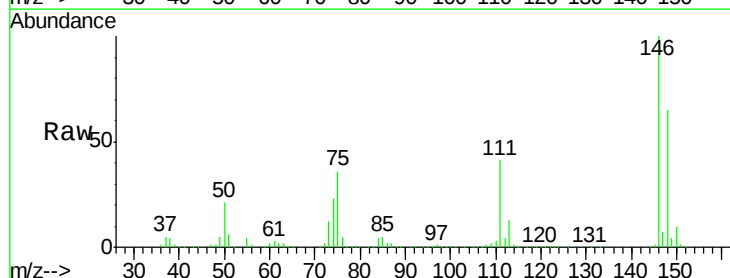
Tgt Ion:146 Resp: 4565435

Ion Ratio Lower Upper

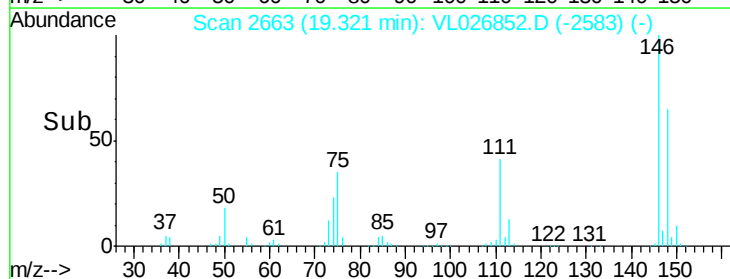
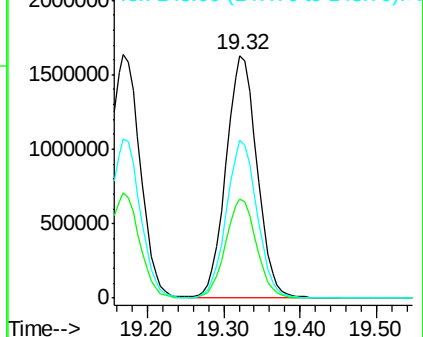
146 100

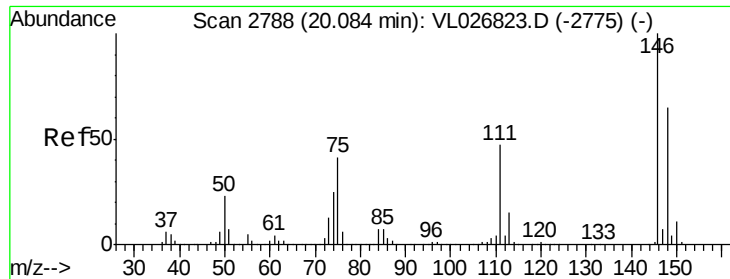
111 40.8 21.6 64.8

148 64.7 32.2 96.6



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





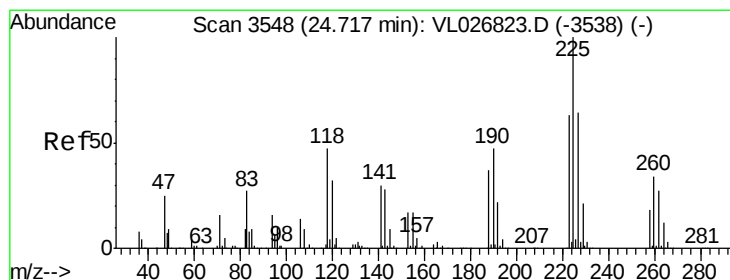
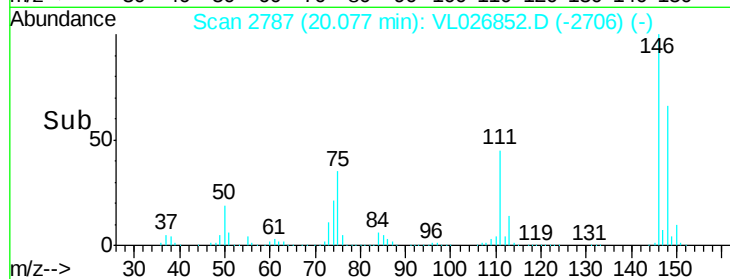
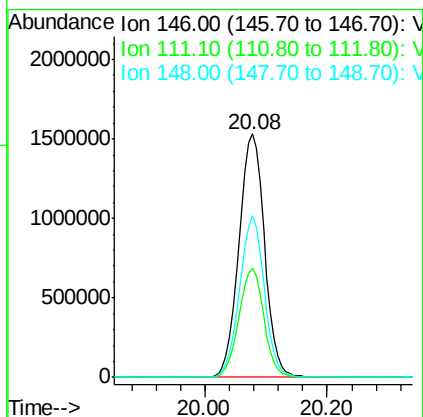
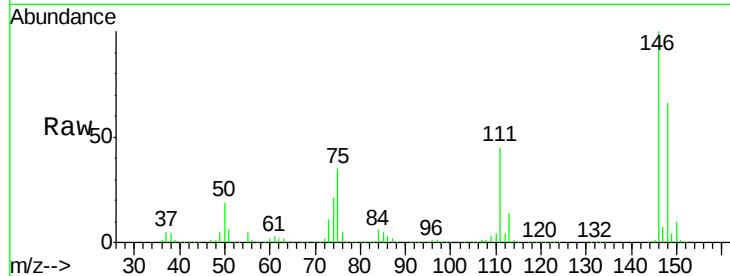
#77
 1,2-Dichlorobenzene
 Concen: 12.74 ppbv
 RT: 20.08 min Scan# 2787
 Delta R.T. -0.01 min
 Lab File: VL026852.D
 Acq: 10 Feb 2016 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCV010EC

Tot Ion:146 Resp: 4421928
 Ion Ratio Lower Upper
 146 100
 111 44.0 23.1 69.3
 148 64.3 32.1 96.5

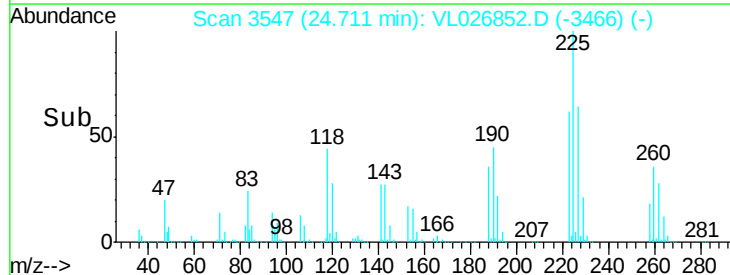
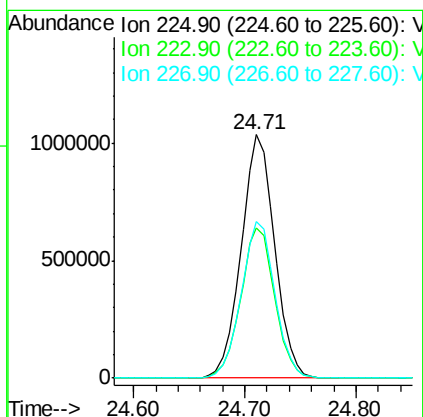
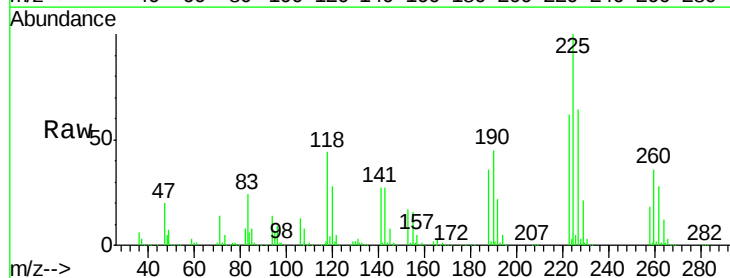
Manual Integrations
 APPROVED

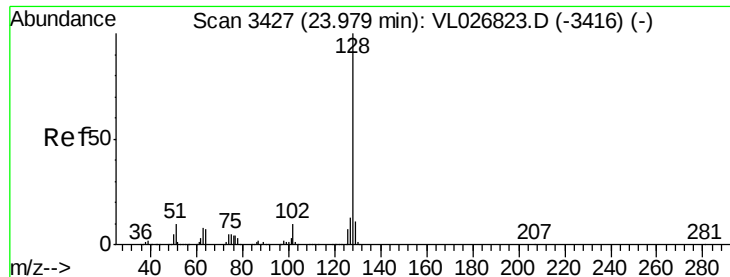
MMDadoda
 2/11/2016 1:25:12 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 13.13 ppbv
 RT: 24.71 min Scan# 3547
 Delta R.T. -0.01 min
 Lab File: VL026852.D
 Acq: 10 Feb 2016 14:21

Tgt Ion:225 Resp: 2164946
 Ion Ratio Lower Upper
 225 100
 223 62.6 50.2 75.2
 227 64.6 52.1 78.1





#79

Naphthalene

Concen: 15.39 ppbv

RT: 23.97 min Scan# 3426

Delta R.T. -0.01 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCV010EC

Tot Ion:128 Resp: 4455660

Ion Ratio Lower Upper

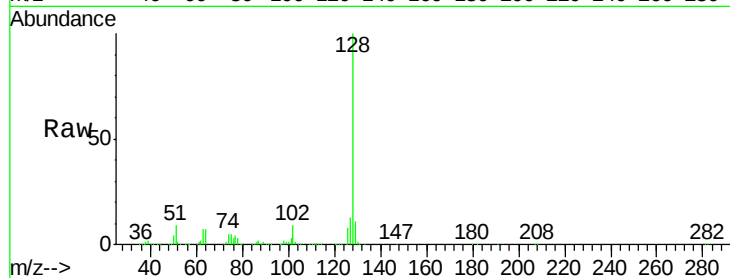
128 100

127 12.8 10.0 15.0

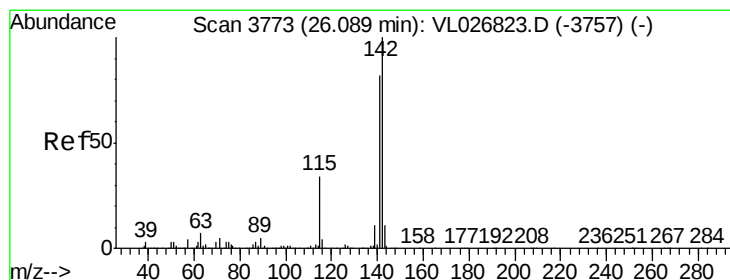
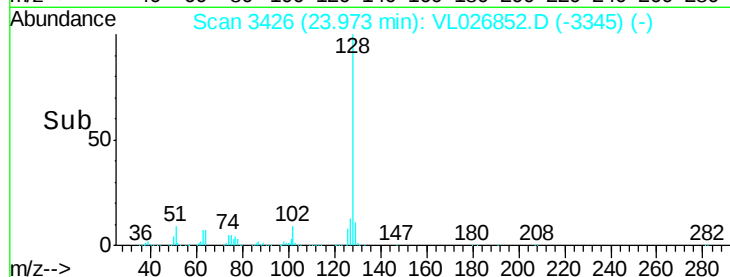
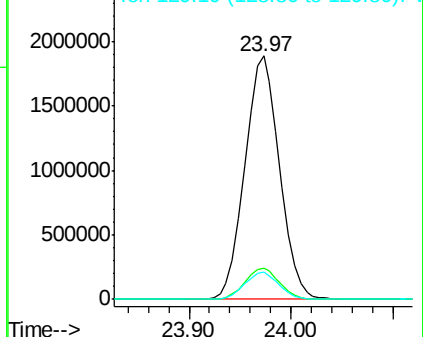
129 11.2 8.7 13.1

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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 8.30 ppbv

RT: 26.09 min Scan# 3773

Delta R.T. -0.00 min

Lab File: VL026852.D

Acq: 10 Feb 2016 14:21

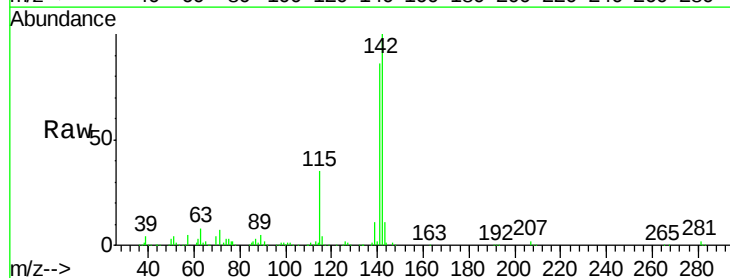
Tgt Ion:142 Resp: 975671

Ion Ratio Lower Upper

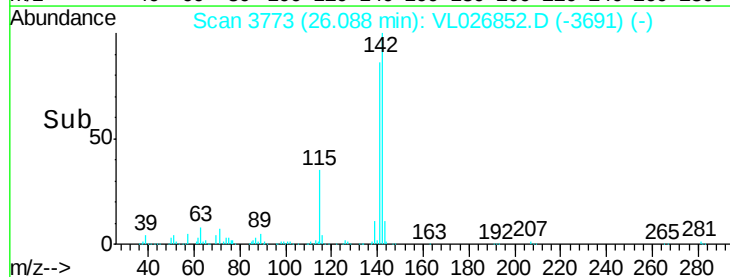
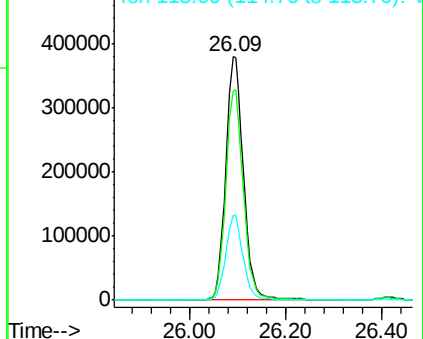
142 100

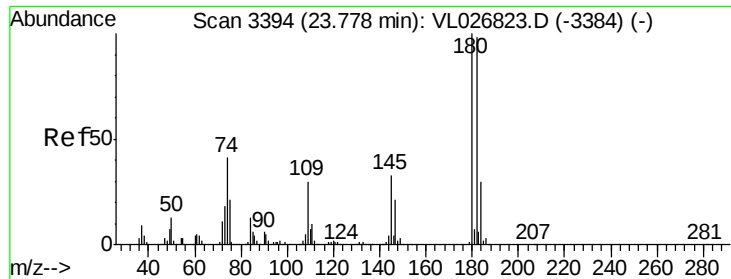
141 86.1 67.2 100.8

115 34.5 27.5 41.3



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





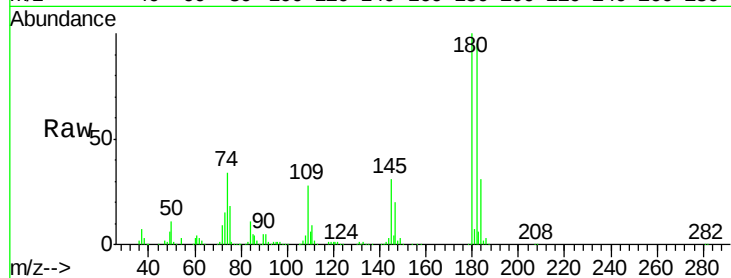
#81
 1,2,4-Trichlorobenzene
 Concen: 14.45 ppbv
 RT: 23.77 min Scan# 3393
 Delta R.T. -0.01 min
 Lab File: VL026852.D
 Acq: 10 Feb 2016 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCV010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.3	77.3	115.9
184	30.7	24.5	36.7

Manual Integrations
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Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

