

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL103018\
 Data File : VL032699.D
 Acq On : 30 Oct 2018 13:27
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 10/31/2018 10:39:57 AM

Quant Time: Oct 31 06:06:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 25 2018
 QLast Update : Thu Oct 25 05:15:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1482750	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3759030	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	4121355m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.60	95	2825941	9.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	1888268	12.499 ppbv	99
3) Chlorodifluoromethane	3.02	51	1122750	9.682 ppbv	99
4) Chloromethane	3.18	50	635722	9.810 ppbv	99
5) Vinyl Chloride	3.30	62	644837	9.187 ppbv	99
6) Bromomethane	3.53	94	402100	9.188 ppbv	94
7) Chloroethane	3.61	64	243708	9.429 ppbv	94
8) Dichlorotetrafluoroethane	3.23	85	1504765	9.450 ppbv	91
9) Propene	3.05	41	503424	10.549 ppbv	100
10) Heptane	8.26	43	1943308	10.567 ppbv	99
11) Trichlorofluoromethane	4.02	101	1682755	8.528 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.57	101	1619771	9.870 ppbv	92
13) Ethanol	3.66	45	121542	8.911 ppbv	95
14) Bromoethene	3.80	108	525196	9.470 ppbv	99
15) Acetone	3.91	43	1114455	8.139 ppbv	100
16) 1,3-Butadiene	3.37	39	511868	10.162 ppbv	84
17) tert-Butyl alcohol	4.37	59	462766	11.492 ppbv #	100
18) 1,1-Dichloroethene	4.36	96	760794	10.553 ppbv	95
19) Isopropyl Alcohol	4.04	45	803472	8.240 ppbv #	98
20) Methylene Chloride	4.42	84	661357	9.516 ppbv	96
21) Allyl Chloride	4.49	41	1264169	11.245 ppbv	99
22) trans-1,2-Dichloroethene	4.98	96	724483	9.797 ppbv	95
23) Vinyl Acetate	5.17	43	2638293	10.874 ppbv	99
24) 1,1-Dichloroethane	5.11	63	1932660	10.147 ppbv	98
25) Ethyl Acetate	5.79	43	3154635	10.010 ppbv	99
26) Hexane	5.80	57	1466456	9.834 ppbv	99
27) Carbon Disulfide	4.63	76	1756322	9.709 ppbv	99
28) Methyl tert-Butyl Ether	5.13	73	2413749	11.263 ppbv	100
29) Chloroform	5.87	83	2379883	9.991 ppbv	99
30) Cyclohexane	7.26	84	1329264	11.262 ppbv	97
31) cis-1,2-Dichloroethene	5.66	61	1451878	10.501 ppbv	97
32) 1,1,1-Trichloroethane	6.64	97	2377786	9.823 ppbv	98
34) 2-Butanone	5.35	43	2083088	10.337 ppbv	100
35) Carbon Tetrachloride	7.15	117	2549447	9.556 ppbv	99
36) Benzene	7.02	78	3117015	10.211 ppbv	100
37) 1,2-Dichloroethane	6.43	62	1798605	9.607 ppbv	97
38) Trichloroethene	7.98	130	1201343	10.631 ppbv	97
39) 1,2-Dichloropropane	7.76	63	1206245	10.233 ppbv	97
40) 1,4-Dioxane	7.98	88	409897	10.182 ppbv #	97
41) Tetrahydrofuran	6.17	42	1251383	11.144 ppbv	100
42) Bromodichloromethane	7.94	83	2609824	9.949 ppbv	99
43) Methyl Methacrylate	8.16	69	1268541	11.339 ppbv	97

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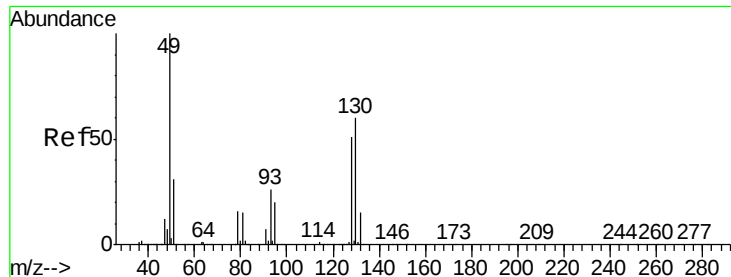
Manual Integrations
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 10/31/2018 10:39:57 AM

Quant Time: Oct 31 06:06:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 26 10:39:57 AM
 QLast Update : Thu Oct 25 05:15:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	5301475	10.174	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1814427	12.116	ppbv	99
46) cis-1,3-Dichloropropene	8.86	75	2040763	11.928	ppbv	99
47) 1,1,2-Trichloroethane	9.63	97	1421831	10.208	ppbv	96
48) Dibromochloromethane	10.47	129	2243692	9.664	ppbv	100
49) Bromoform	13.22	173	1957000	10.727	ppbv	99
50) 4-Methyl-2-Pentanone	8.89	43	3366970	11.278	ppbv	99
51) 2-Hexanone	10.29	43	2343761	10.561	ppbv	98
52) Tetrachloroethene	11.40	164	1077696	10.126	ppbv	97
53) Toluene	9.97	91	3990026	11.403	ppbv	99
54) 1,2-Dibromoethane	10.78	107	1941496	10.256	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.30	131	1615692	8.965	ppbv	98
57) Chlorobenzene	12.32	112	2741841	9.046	ppbv	96
58) Ethyl Benzene	12.88	91	4874304	10.180	ppbv	99
59) m/p-Xylene	13.15	91	8096463m	18.990	ppbv	
60) o-Xylene	13.87	91	3890534	9.460	ppbv	99
61) Styrene	13.71	104	2997792	10.871	ppbv	98
62) Isopropylbenzene	14.85	105	5501074	9.451	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.86	83	2727464	8.464	ppbv	100
64) n-propylbenzene	15.74	120	1421054	9.823	ppbv	93
65) tert-Butylbenzene	16.93	119	4747149	9.576	ppbv	96
66) Benzyl Chloride	17.18	91	2835744	11.079	ppbv	98
67) sec-Butylbenzene	17.48	105	6703211	9.507	ppbv	99
69) p-Isopropyltoluene	17.84	119	5516942	9.875	ppbv	98
70) n-Butylbenzene	18.73	91	5603962	9.743	ppbv	99
71) 2-Chlorotoluene	15.64	91	4103326	9.919	ppbv	98
72) 4-Ethyltoluene	16.02	105	4476394	10.219	ppbv	99
73) 1,3,5-Trimethylbenzene	16.18	105	4200680	9.845	ppbv	97
74) 1,2,4-Trimethylbenzene	16.95	105	4275479	9.383	ppbv	96
75) 1,3-Dichlorobenzene	17.19	146	2381628	9.090	ppbv	99
76) 1,4-Dichlorobenzene	17.33	146	2347800	9.710	ppbv	98
77) 1,2-Dichlorobenzene	18.01	146	2304082	9.282	ppbv	98
78) Hexachloro-1,3-Butadiene	23.56	225	896082	7.640	ppbv	98
79) Naphthalene	22.43	128	3344776	11.811	ppbv	100
80) Naphthalene, 2-methyl-	25.13	142	1186129	17.224	ppbv	99
81) 1,2,4-Trichlorobenzene	22.16	180	1630003	11.113	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

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MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1482750

Ion Ratio Lower Upper

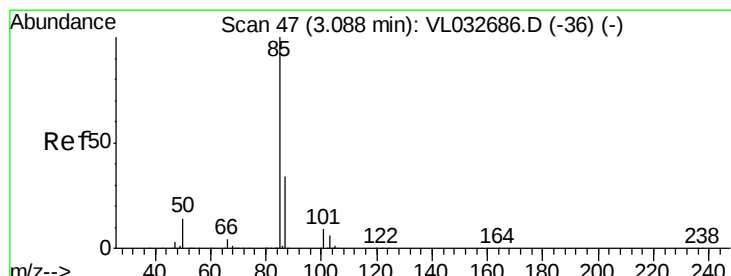
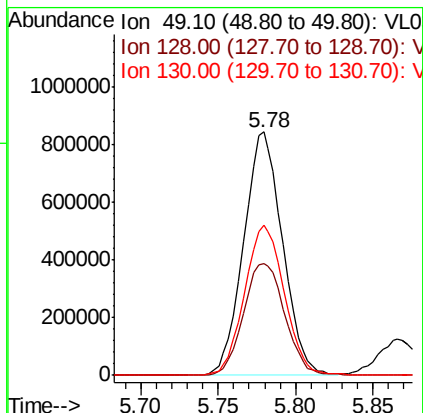
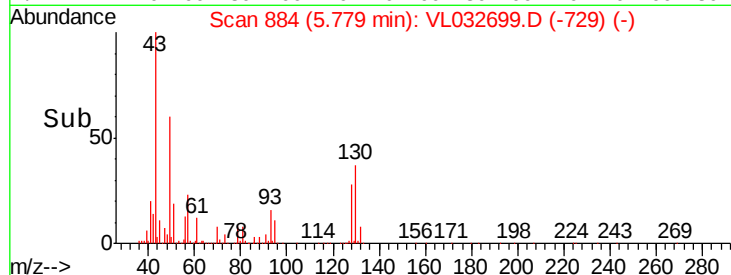
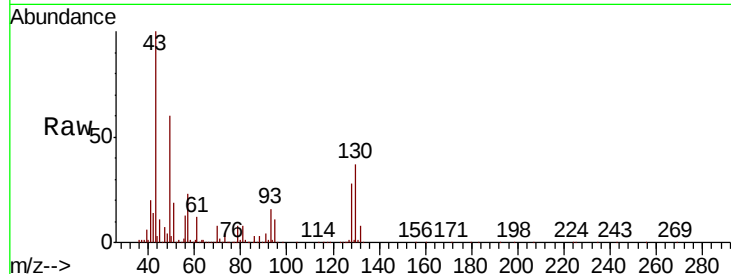
49 100

128 49.0 22.3 66.8

130 63.2 28.4 85.3

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#2

Dichlorodifluoromethane

Concen: 12.499 ppbv

RT: 3.08 min Scan# 46

Delta R.T. -0.00 min

Lab File: VL032699.D

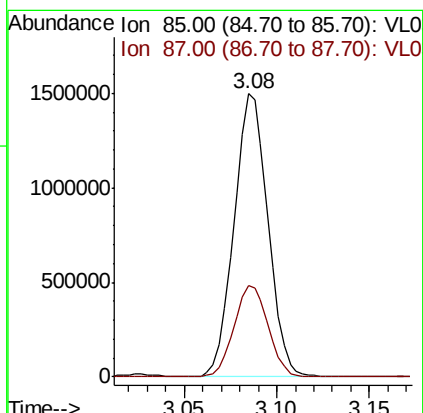
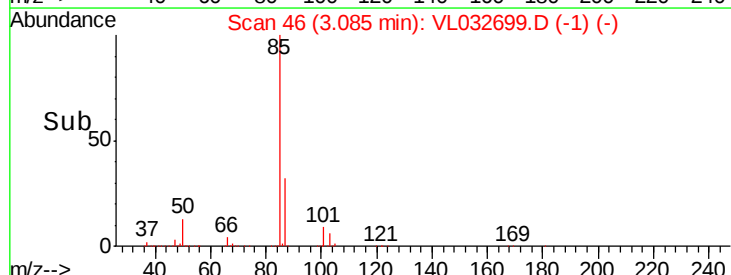
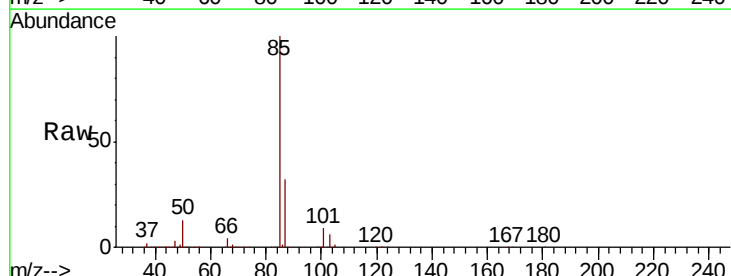
Acq: 30 Oct 2018 13:27

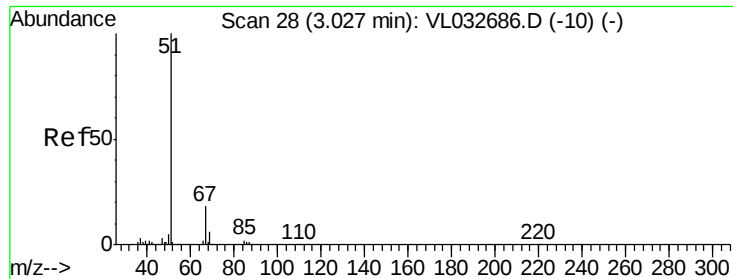
Tgt Ion: 85 Resp: 1888268

Ion Ratio Lower Upper

85 100

87 32.3 26.2 39.2





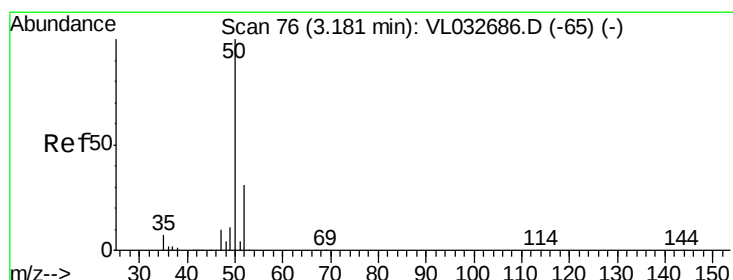
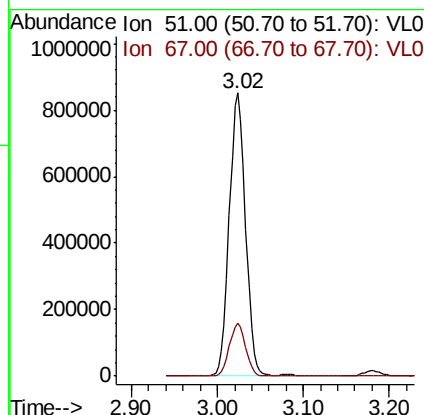
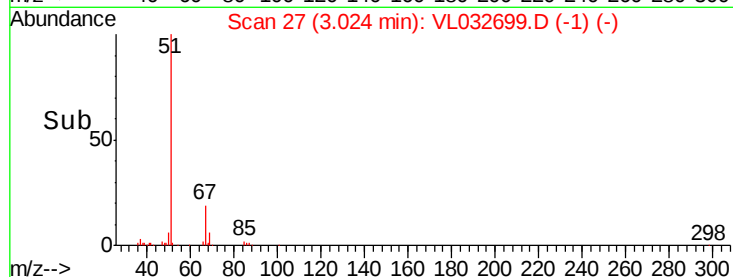
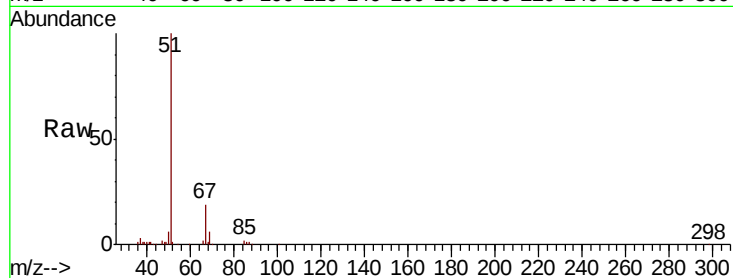
#3
Chlorodifluoromethane
Concen: 9.682 ppbv
RT: 3.02 min Scan# 27
Delta R.T. -0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 51 Resp: 1122750
Ion Ratio Lower Upper
51 100
67 18.6 15.2 22.8

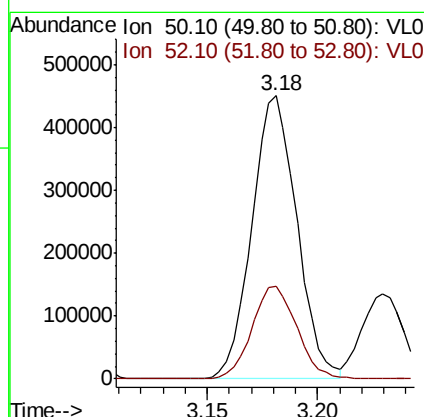
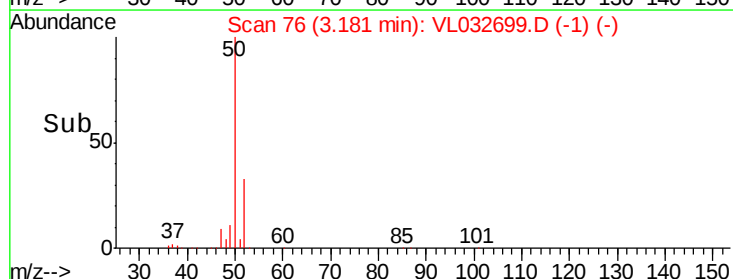
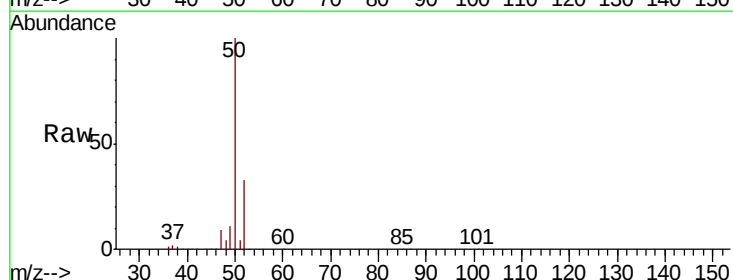
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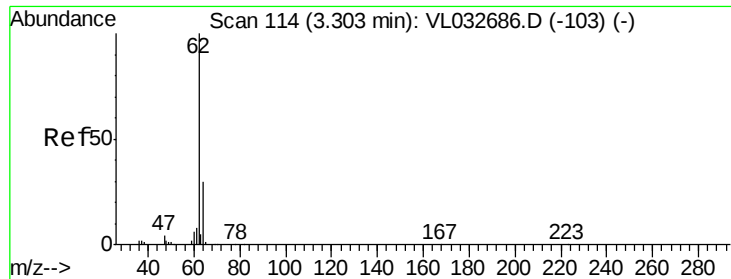
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#4
Chloromethane
Concen: 9.810 ppbv
RT: 3.18 min Scan# 76
Delta R.T. 0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Tgt Ion: 50 Resp: 635722
Ion Ratio Lower Upper
50 100
52 32.9 25.9 38.9





#5

Vinyl Chloride

Concen: 9.187 ppbv

RT: 3.30 min Scan# 113

Delta R.T. -0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 644837

Ion Ratio Lower Upper

62 100

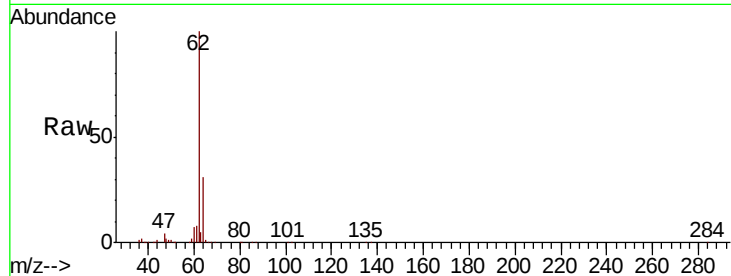
64 31.3 25.5 38.3

Manual Integrations

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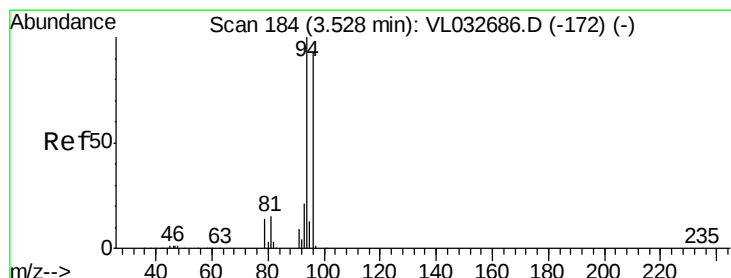
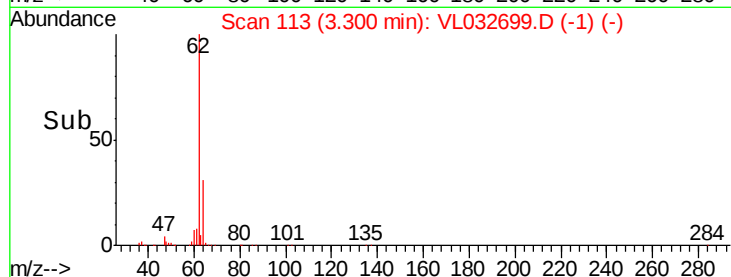
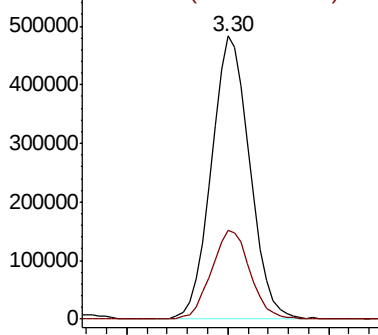
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10/31/2018 10:39:57 AM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.188 ppbv

RT: 3.53 min Scan# 183

Delta R.T. 0.00 min

Lab File: VL032699.D

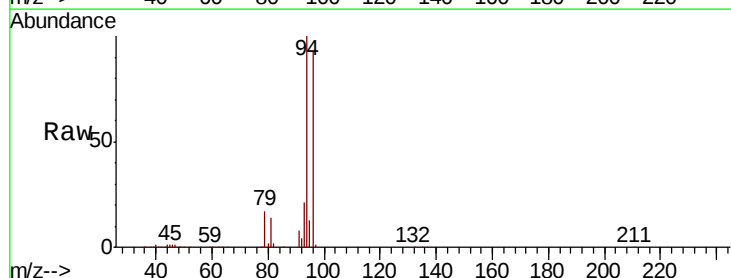
Acq: 30 Oct 2018 13:27

Tgt Ion: 94 Resp: 402100

Ion Ratio Lower Upper

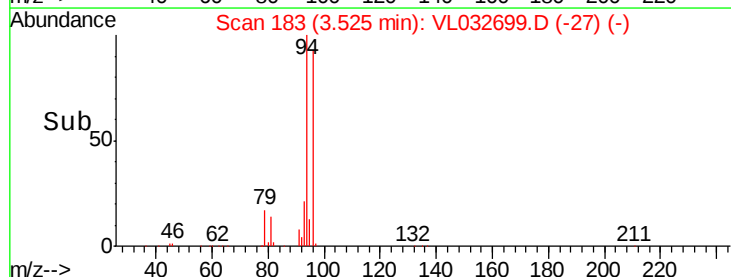
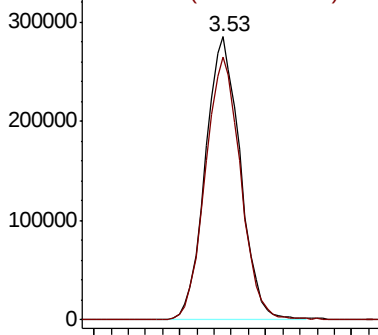
94 100

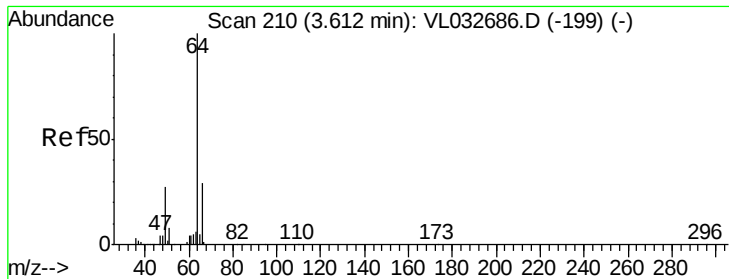
96 92.8 69.8 104.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.429 ppbv

RT: 3.61 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 243708

Ion Ratio Lower Upper

64 100

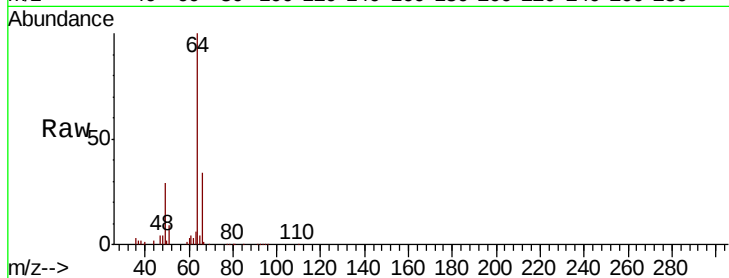
66 33.7 24.4 36.6

Manual Integrations

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10/31/2018 10:39:57 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.61

200000

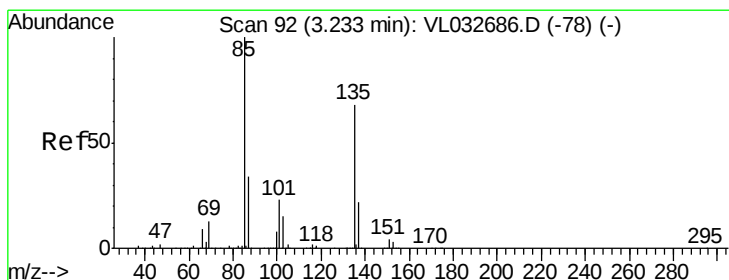
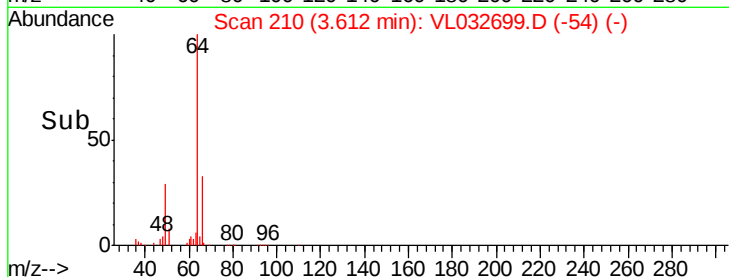
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.450 ppbv

RT: 3.23 min Scan# 91

Delta R.T. -0.00 min

Lab File: VL032699.D

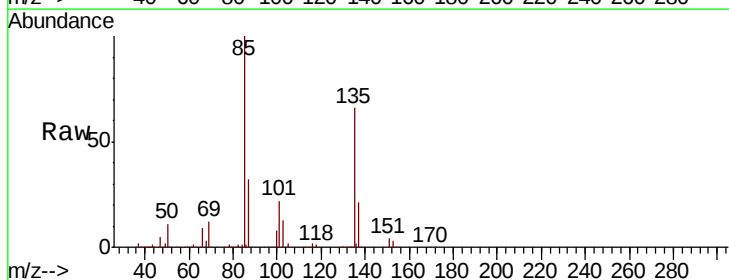
Acq: 30 Oct 2018 13:27

Tgt Ion: 85 Resp: 1504765

Ion Ratio Lower Upper

85 100

135 67.9 49.0 73.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

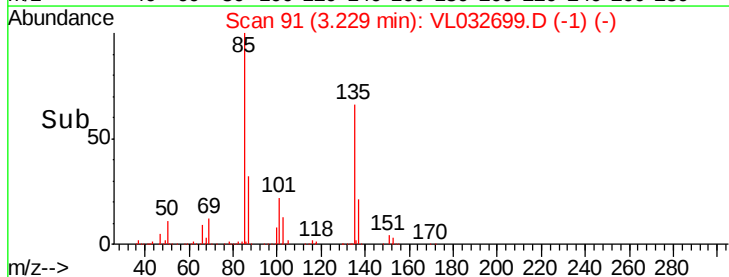
3.23

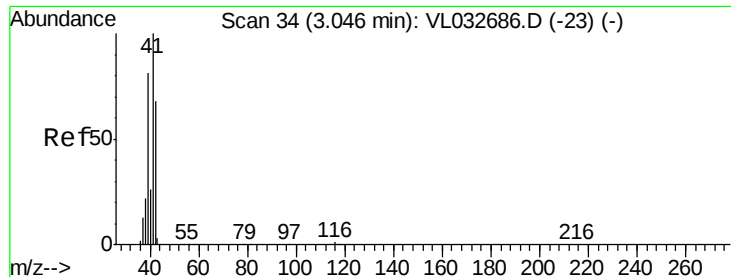
1000000

500000

0

Time-->





#9

Propene

Concen: 10.549 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 503424

Ion Ratio Lower Upper

41 100

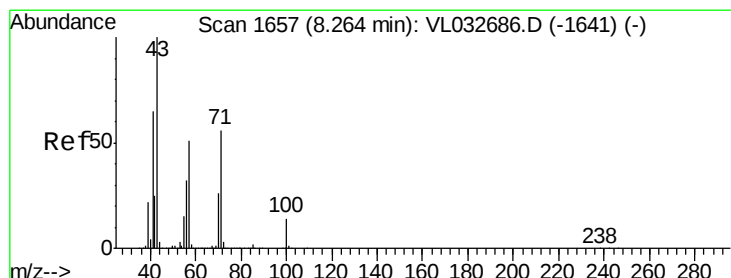
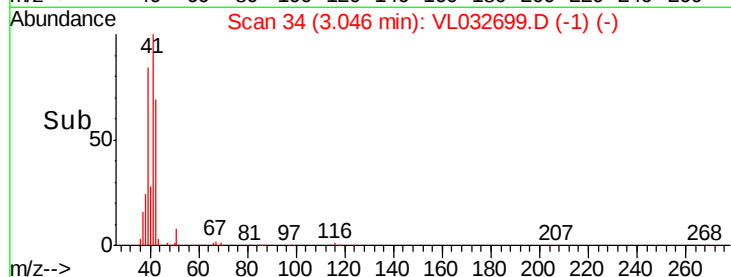
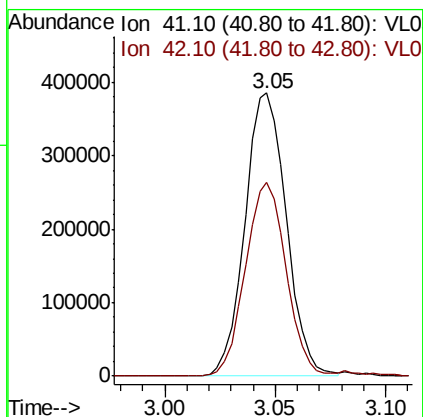
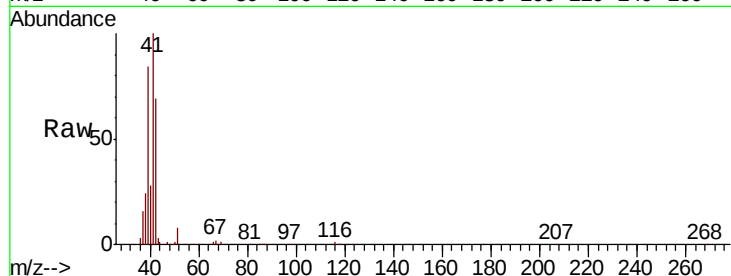
42 68.9 55.4 83.0

Manual Integrations

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10/31/2018 10:39:57 AM



#10

Heptane

Concen: 10.567 ppbv

RT: 8.26 min Scan# 1657

Delta R.T. 0.00 min

Lab File: VL032699.D

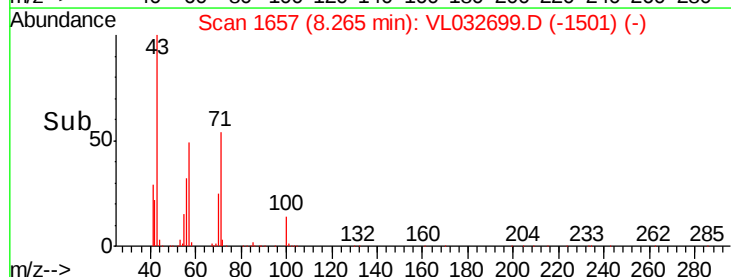
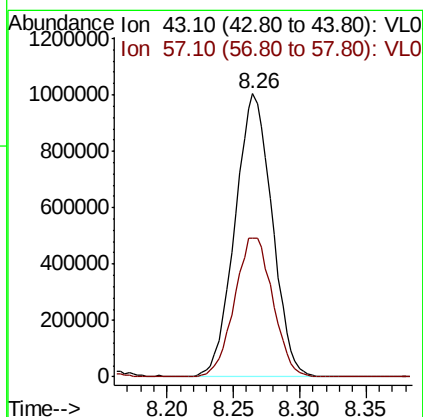
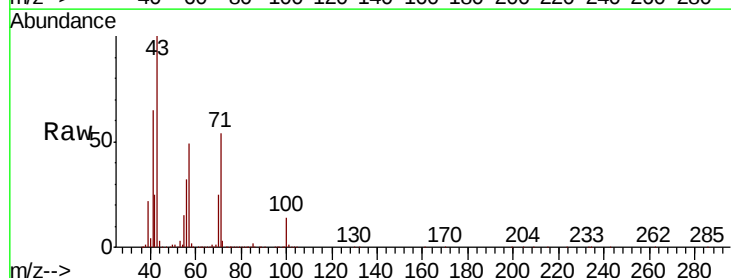
Acq: 30 Oct 2018 13:27

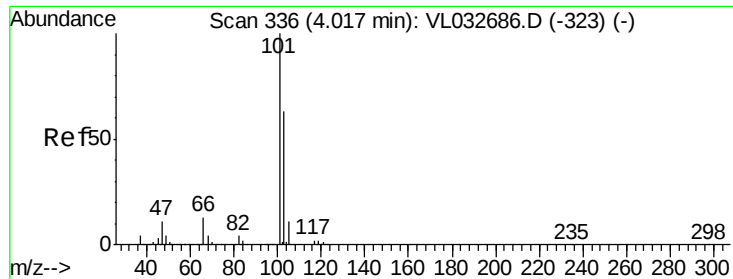
Tgt Ion: 43 Resp: 1943308

Ion Ratio Lower Upper

43 100

57 50.9 41.5 62.3





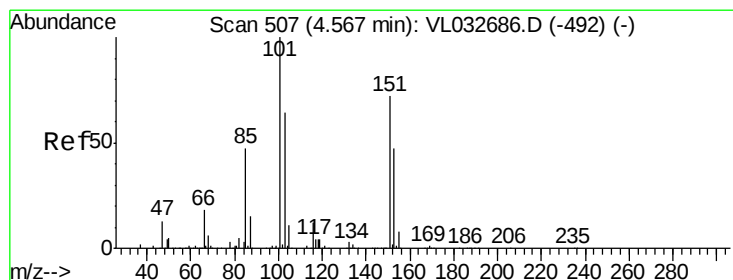
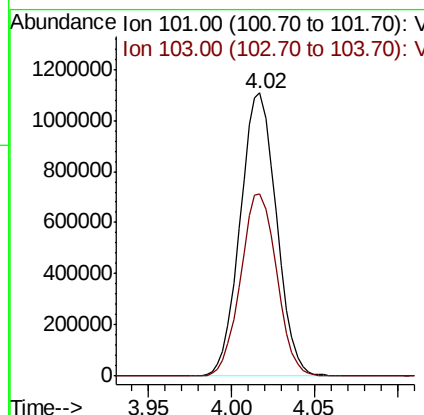
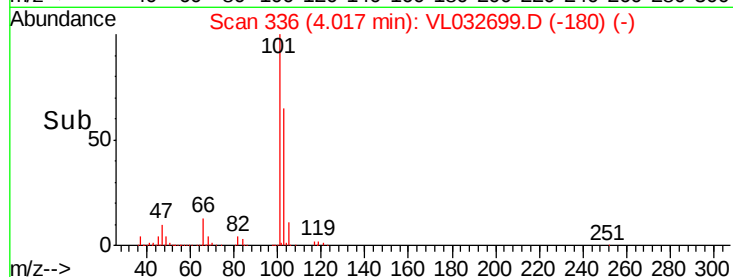
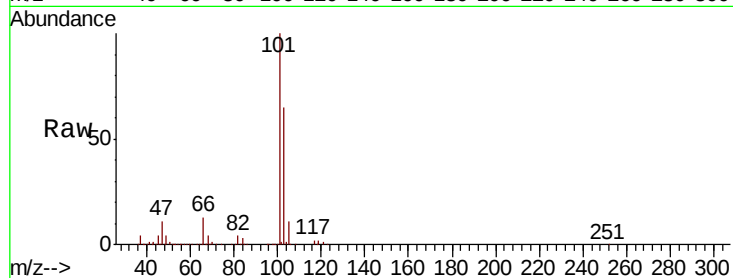
#11
 Trichlorofluoromethane
 Concen: 8.528 ppbv
 RT: 4.02 min Scan# 336
 Delta R.T. 0.00 min
 Lab File: VL032699.D
 Acq: 30 Oct 2018 13:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1682755
 Ion Ratio Lower Upper
 101 100
 103 64.6 51.4 77.2

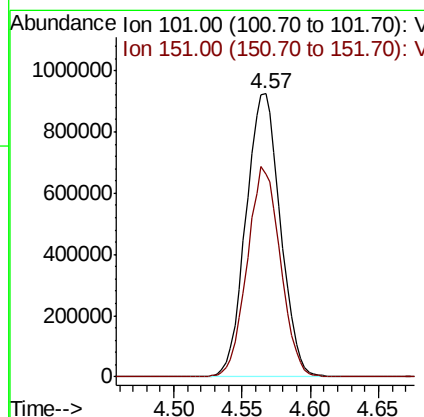
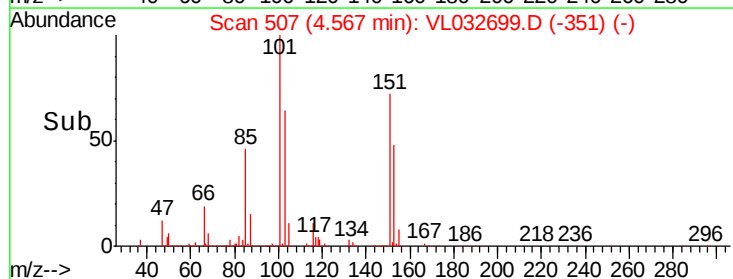
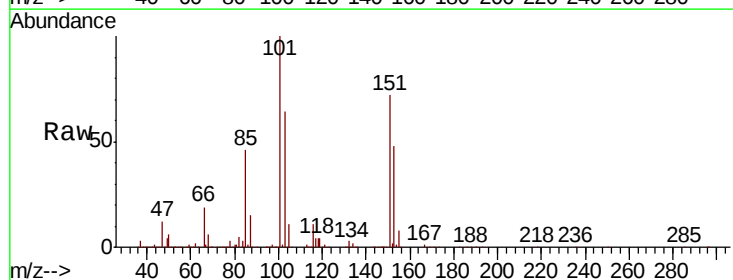
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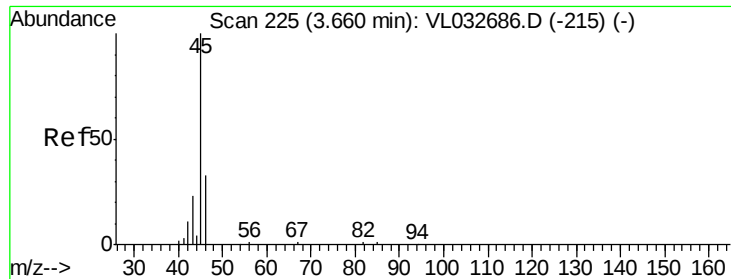
MMDadoda
 10/31/2018 10:39:57 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.870 ppbv
 RT: 4.57 min Scan# 507
 Delta R.T. 0.00 min
 Lab File: VL032699.D
 Acq: 30 Oct 2018 13:27

Tgt Ion:101 Resp: 1619771
 Ion Ratio Lower Upper
 101 100
 151 72.0 52.3 78.5





#13

Ethanol

Concen: 8.911 ppbv

RT: 3.66 min Scan# 225

Delta R.T. -0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 121542

Ion Ratio Lower Upper

45 100

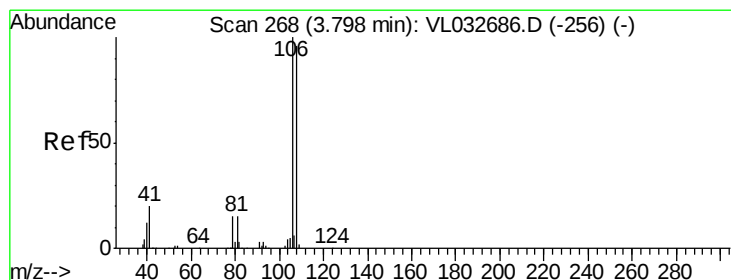
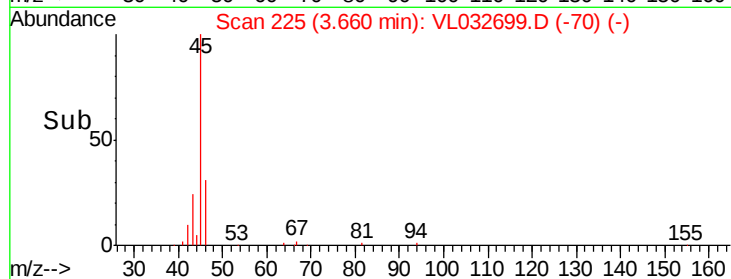
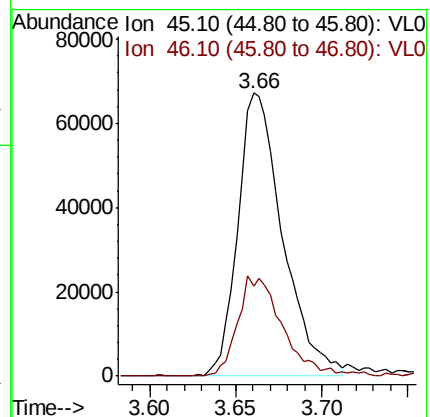
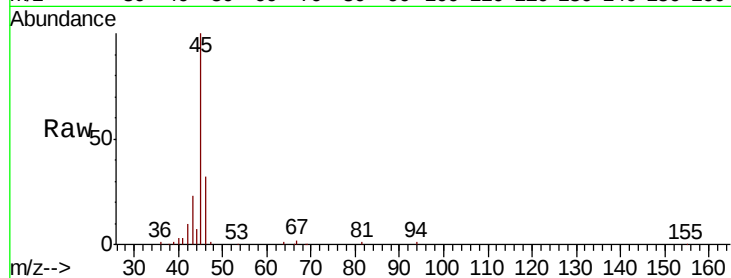
46 35.7 15.4 61.8

Manual Integrations

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10/31/2018 10:39:57 AM



#14

Bromoethene

Concen: 9.470 ppbv

RT: 3.80 min Scan# 268

Delta R.T. -0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

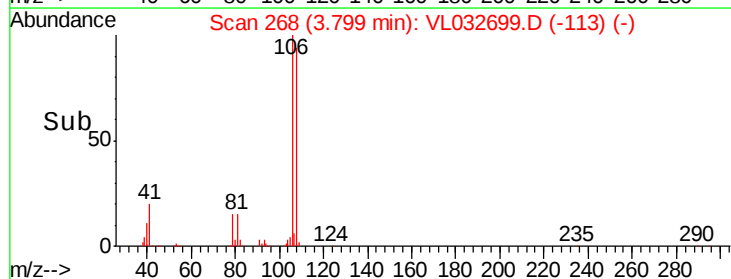
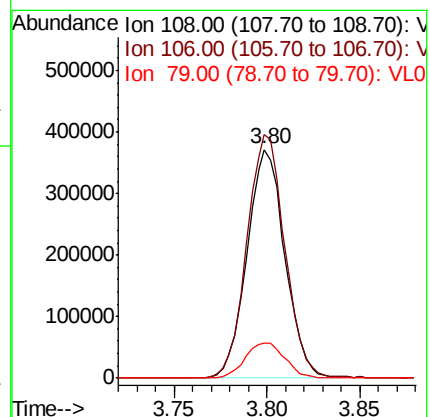
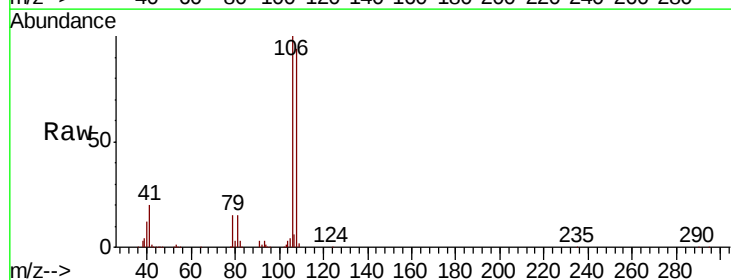
Tgt Ion: 108 Resp: 525196

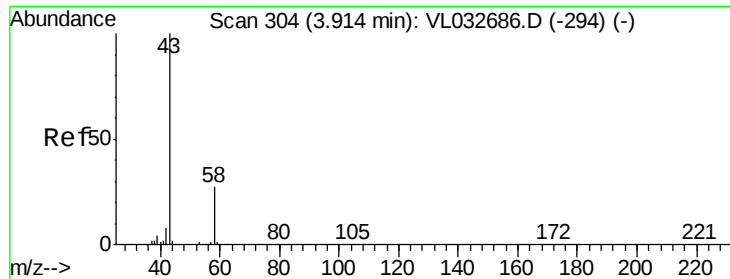
Ion Ratio Lower Upper

108 100

106 107.5 85.0 127.4

79 16.6 13.7 20.5





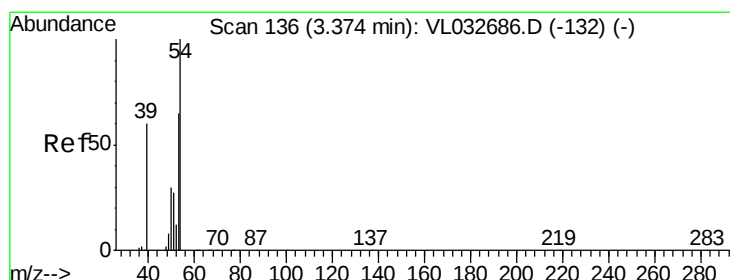
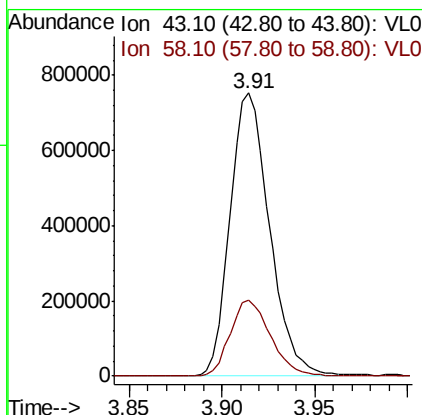
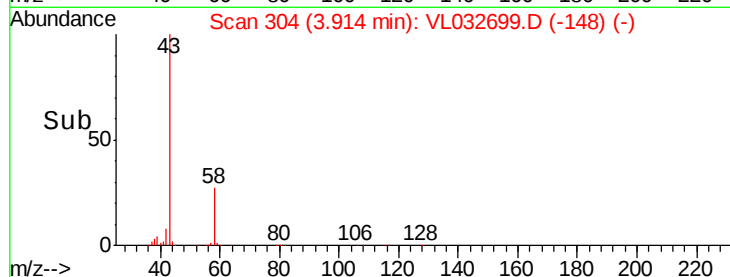
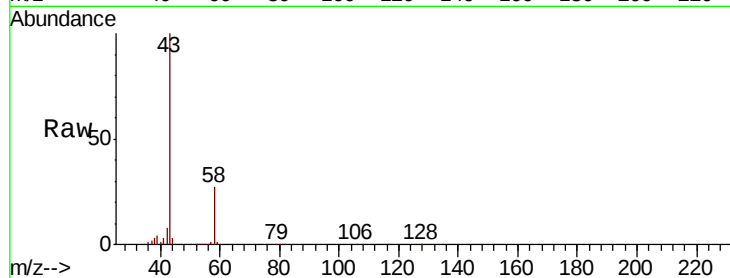
#15
Acetone
Concen: 8.139 ppbv
RT: 3.91 min Scan# 304
Delta R.T. 0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1114455
Ion Ratio Lower Upper
43 100
58 27.6 22.1 33.1

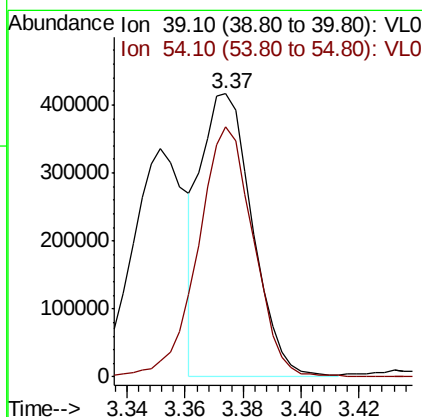
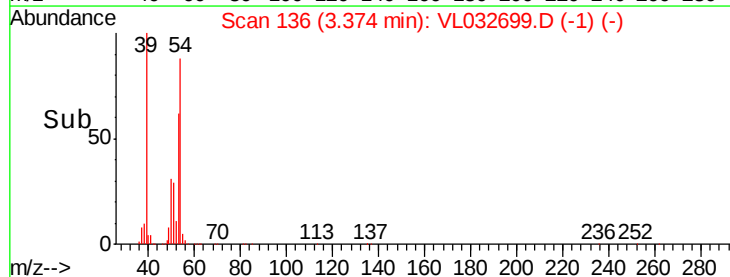
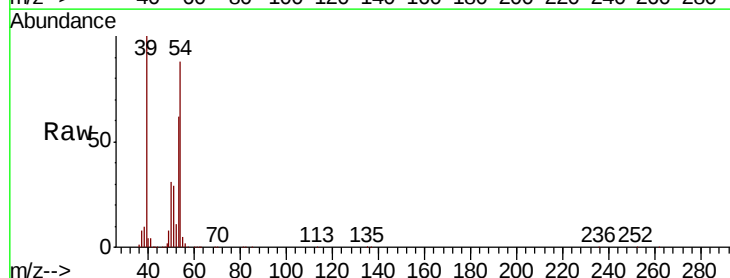
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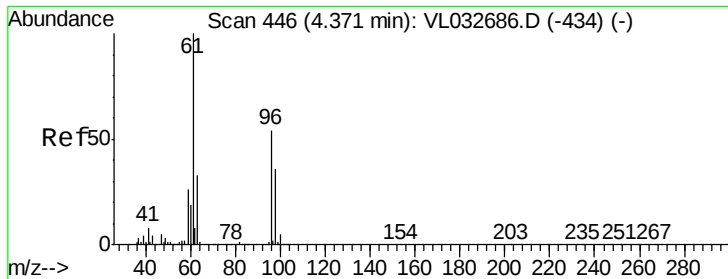
MMDadoda
10/31/2018 10:39:57 AM



#16
1,3-Butadiene
Concen: 10.162 ppbv
RT: 3.37 min Scan# 136
Delta R.T. -0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Tgt Ion: 39 Resp: 511868
Ion Ratio Lower Upper
39 100
54 96.0 90.4 135.6





#17

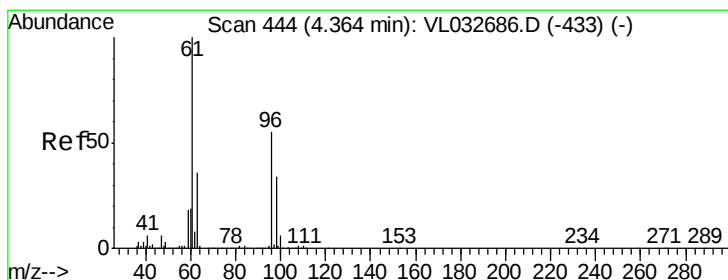
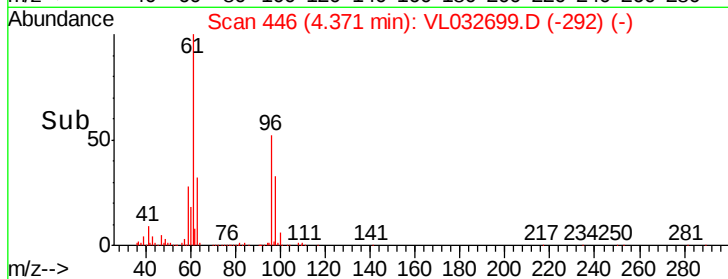
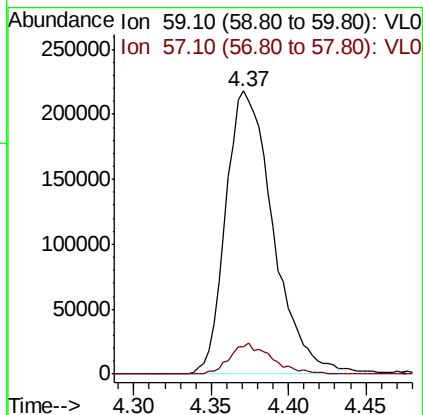
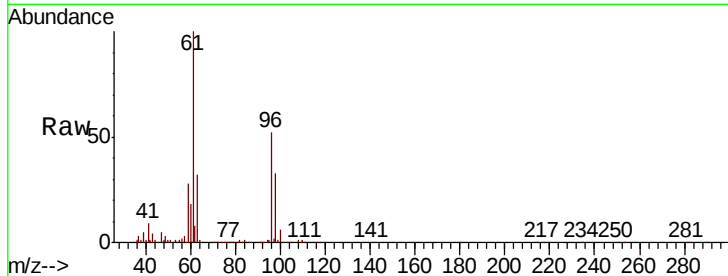
tert-Butyl alcohol
Concen: 11.492 ppbv
RT: 4.37 min Scan# 446
Delta R.T. -0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.9	0.0	0.0#

Manual Integrations
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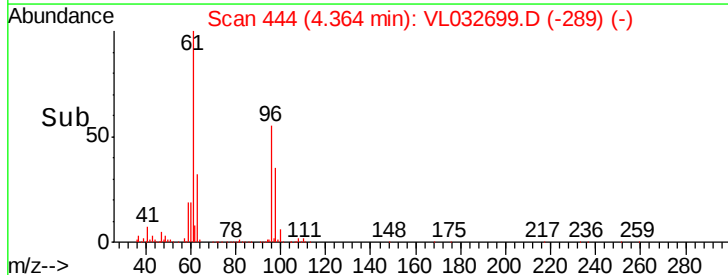
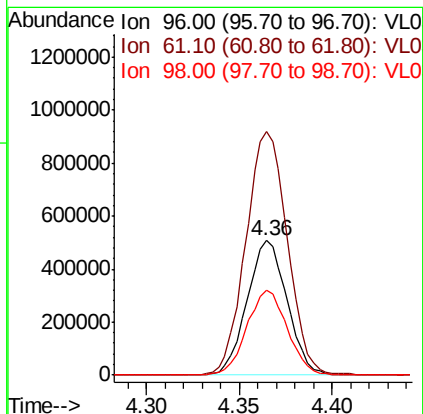
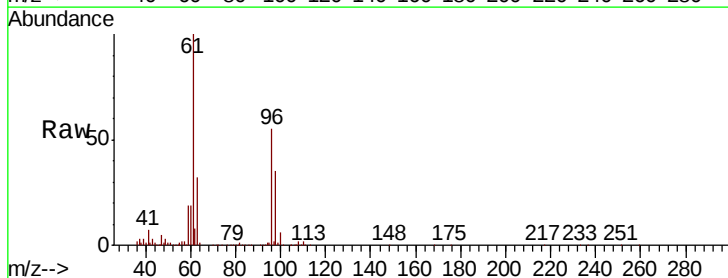
MMDadoda
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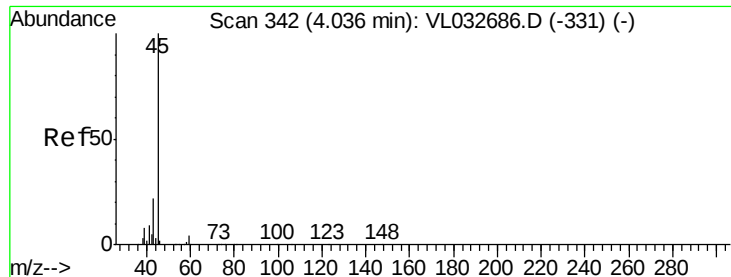


#18

1,1-Dichloroethene
Concen: 10.553 ppbv
RT: 4.36 min Scan# 444
Delta R.T. -0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Tgt Ion	Ratio	Lower	Upper
96	100		
61	180.6	151.6	227.4
98	62.9	50.6	75.8





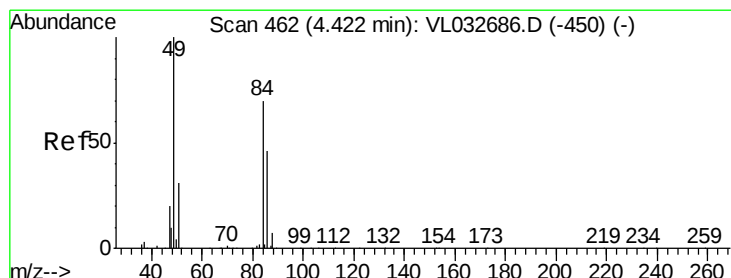
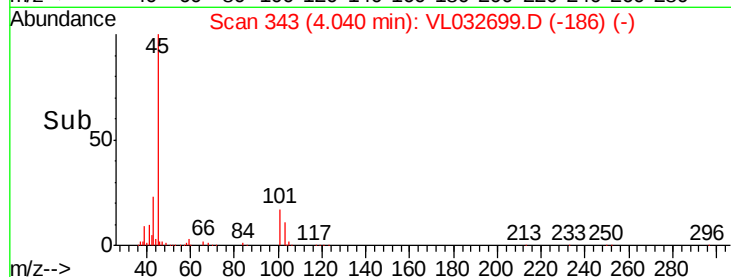
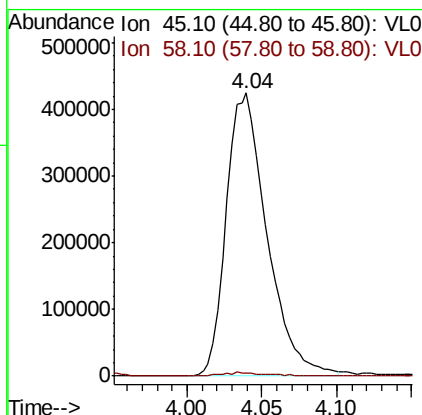
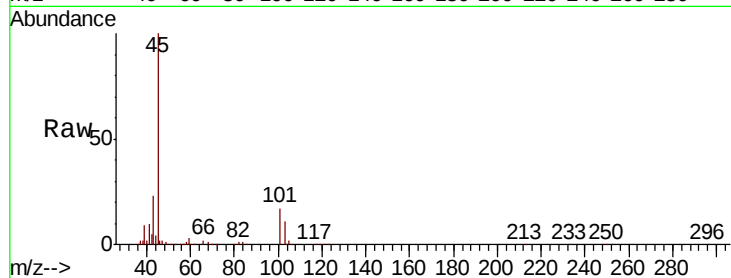
#19
Isopropyl Alcohol
Concen: 8.240 ppbv
RT: 4.04 min Scan# 343
Delta R.T. 0.01 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 45 Resp: 803472
Ion Ratio Lower Upper
45 100
58 1.9 2.0 3.0#

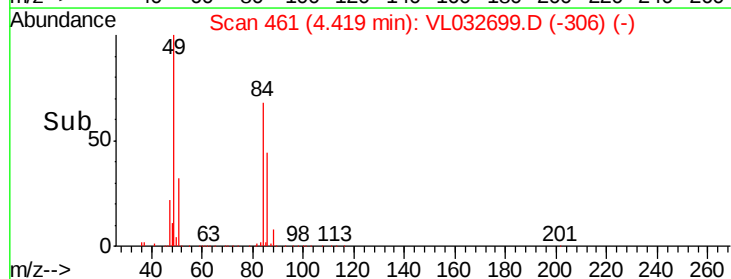
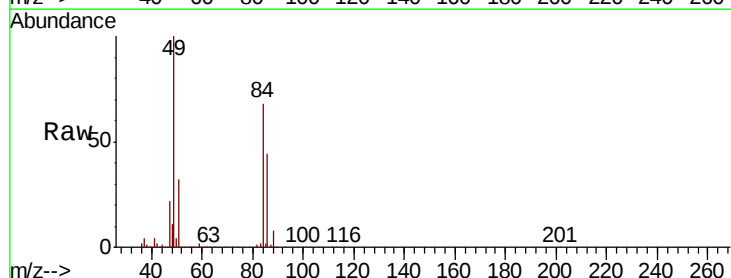
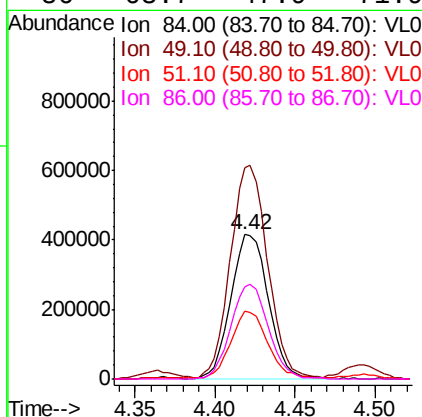
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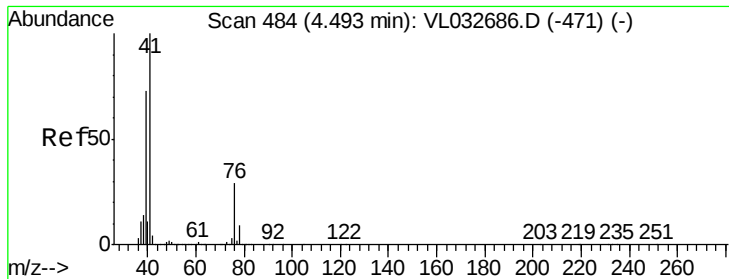
MMDadoda
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#20
Methylene Chloride
Concen: 9.516 ppbv
RT: 4.42 min Scan# 461
Delta R.T. -0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Tgt Ion: 84 Resp: 661357
Ion Ratio Lower Upper
84 100
49 145.2 113.5 170.3
51 46.1 34.8 52.2
86 63.7 47.9 71.9





#21

Allvl Chloride

Concen: 11.245 ppbv

RT: 4.49 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 1264169

Ion Ratio Lower Upper

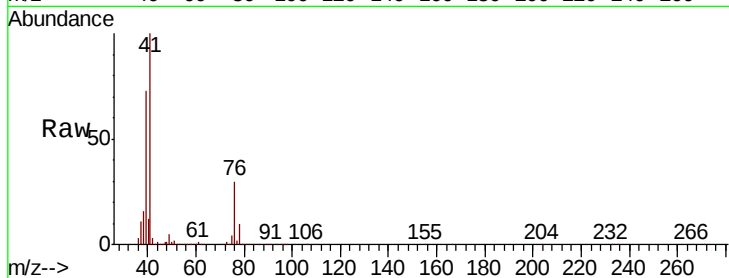
41 100

76 30.5 24.3 36.5

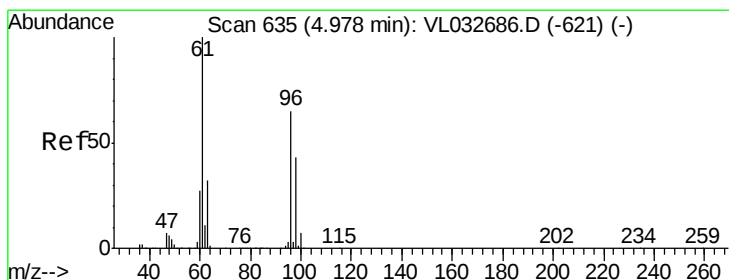
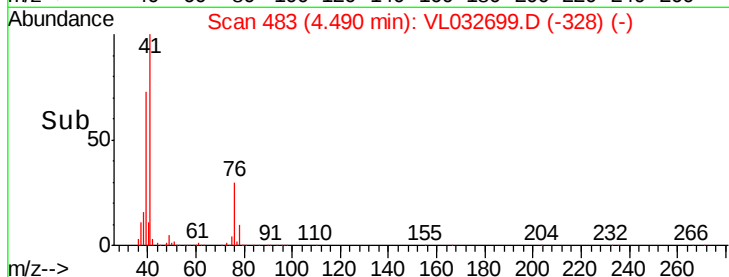
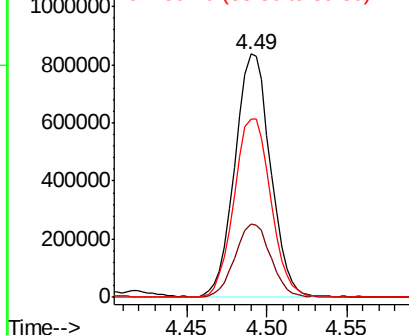
39 76.3 60.3 90.5

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Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 9.797 ppbv

RT: 4.98 min Scan# 635

Delta R.T. 0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

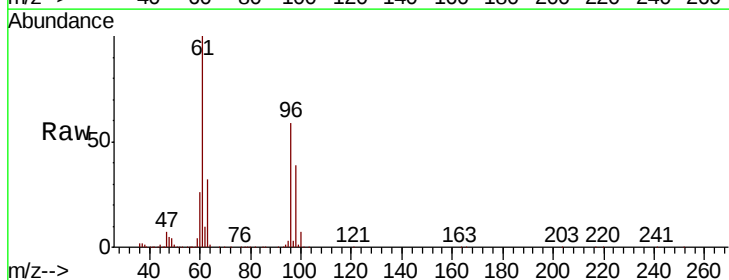
Tgt Ion: 96 Resp: 724483

Ion Ratio Lower Upper

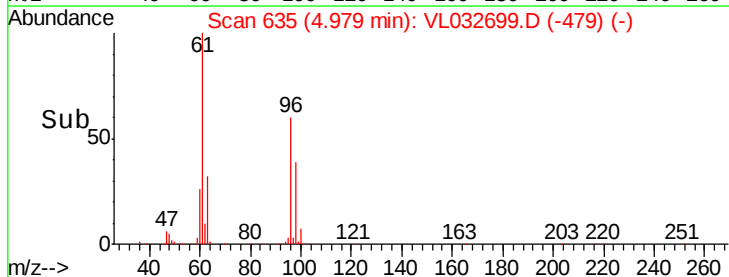
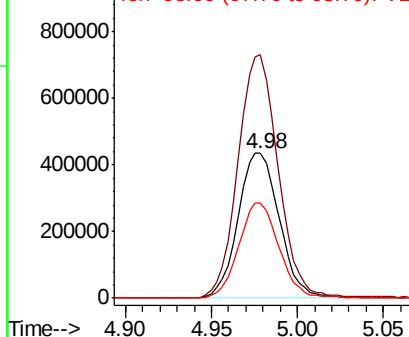
96 100

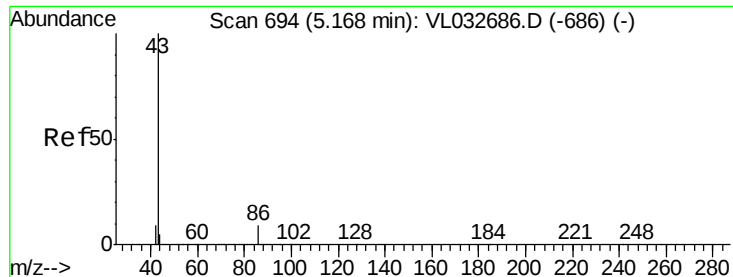
61 168.1 140.4 210.6

98 65.7 55.0 82.6



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





#23

Vinyl Acetate

Concen: 10.874 ppbv

RT: 5.17 min Scan# 694

Delta R.T. -0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2638293

Ion Ratio Lower Upper

43 100

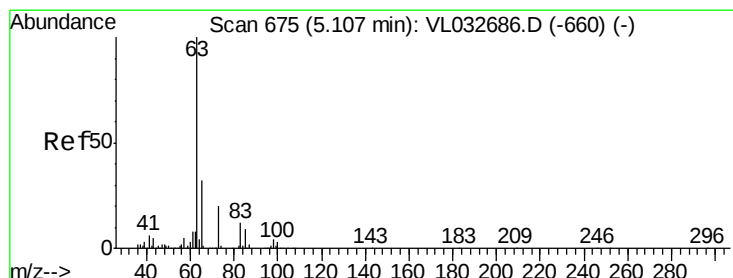
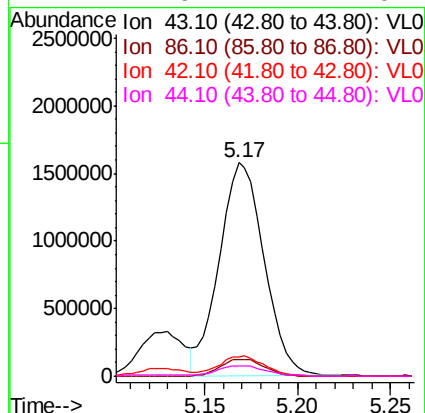
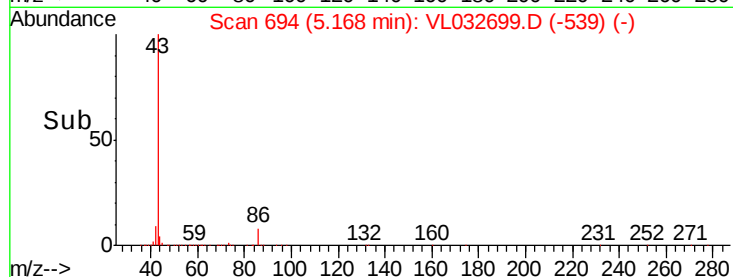
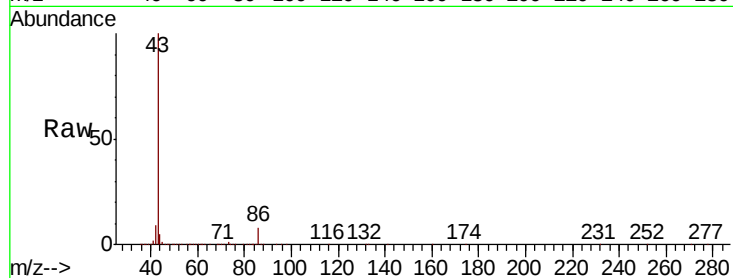
86 7.5 6.1 9.1

42 9.2 7.4 11.2

44 4.6 4.2 6.2

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#24

1,1-Dichloroethane

Concen: 10.147 ppbv

RT: 5.11 min Scan# 675

Delta R.T. 0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

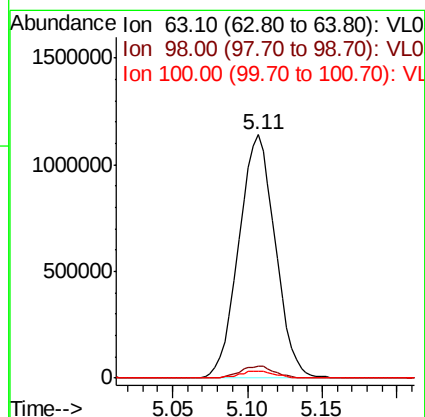
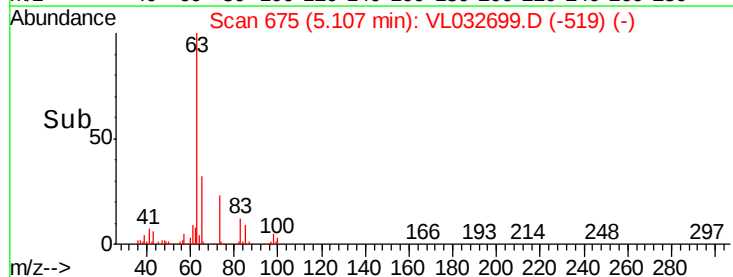
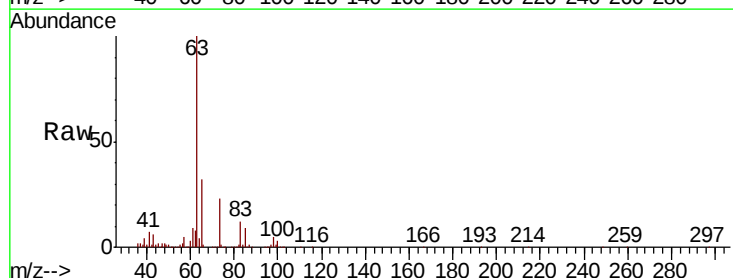
Tgt Ion: 63 Resp: 1932660

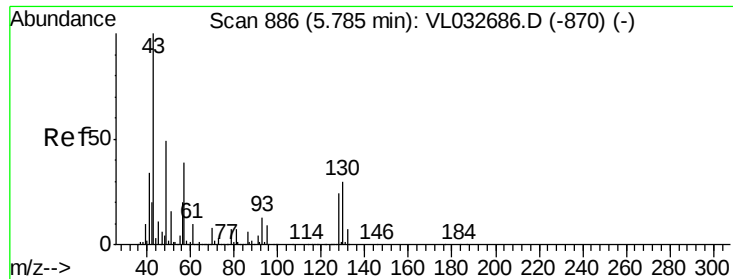
Ion Ratio Lower Upper

63 100

98 5.0 2.1 6.3

100 2.7 1.2 3.6





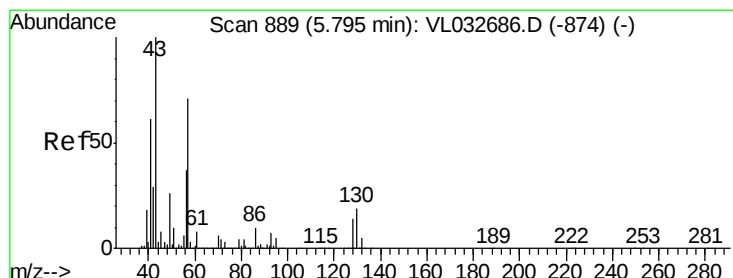
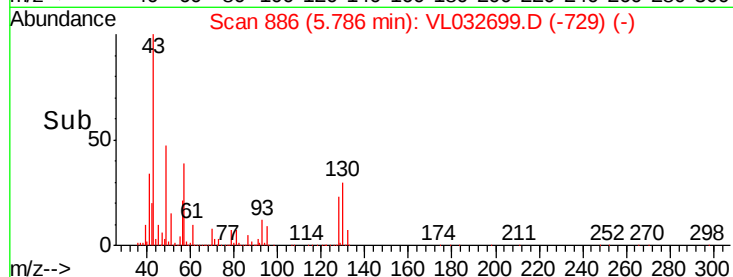
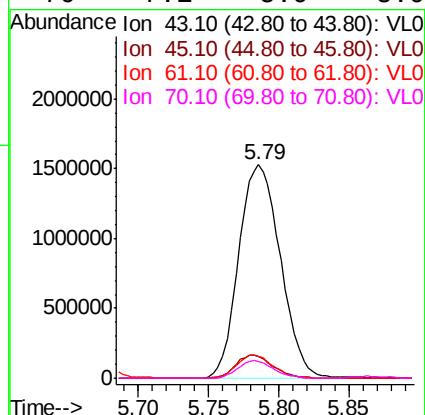
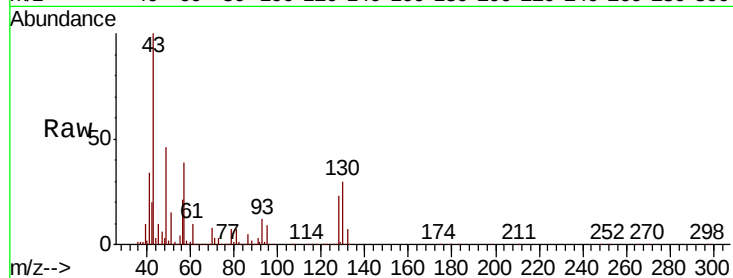
#25
Ethyl Acetate
Concen: 10.010 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.01 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.8	8.0	12.0
61	9.6	8.0	12.0
70	7.1	5.9	8.9

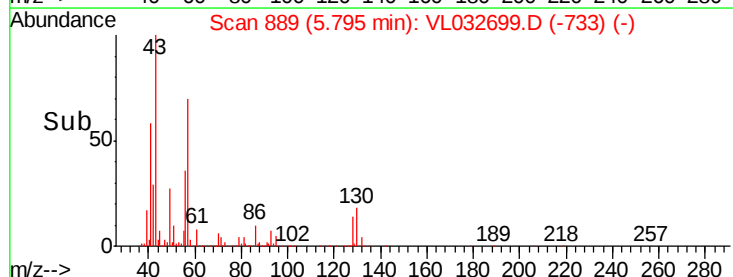
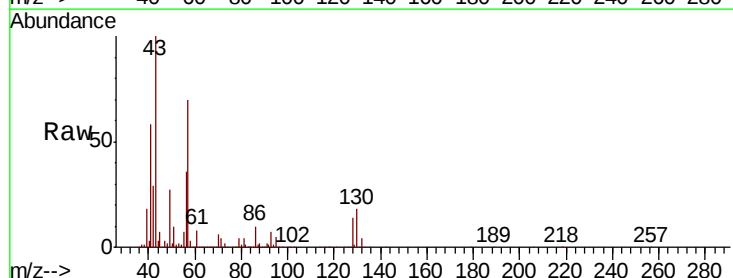
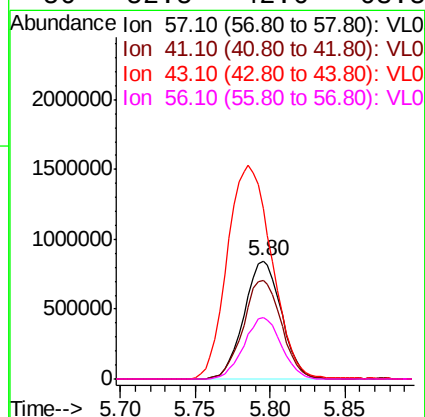
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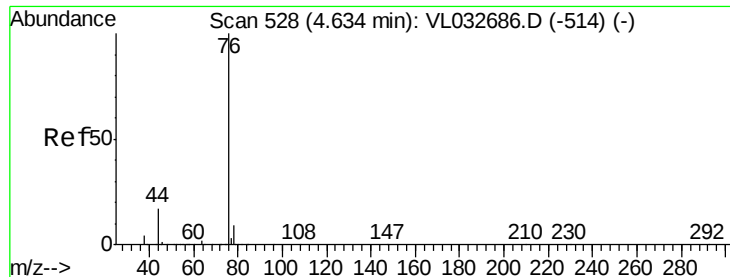
MMDadoda
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#26
Hexane
Concen: 9.834 ppbv
RT: 5.80 min Scan# 889
Delta R.T. 0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Tgt Ion	Ratio	Lower	Upper
57	100		
41	85.5	67.4	101.0
43	216.0	171.9	257.9
56	52.5	42.6	63.8





#27

Carbon Disulfide

Concen: 9.709 ppbv

RT: 4.63 min Scan# 528

Delta R.T. 0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1756322

Ion Ratio Lower Upper

76 100

44 17.9 13.7 20.5

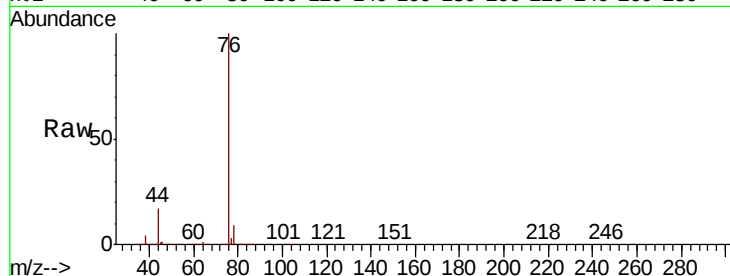
78 9.4 7.4 11.2

Manual Integrations

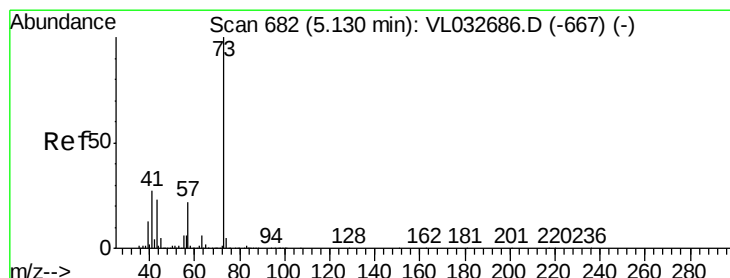
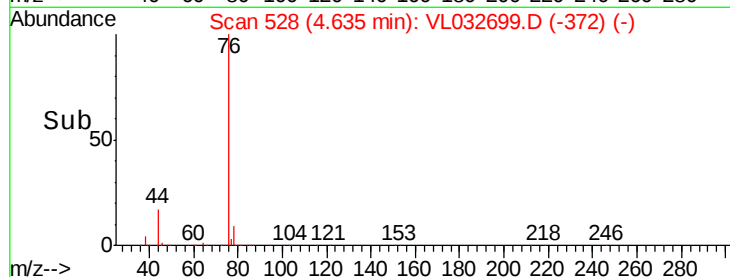
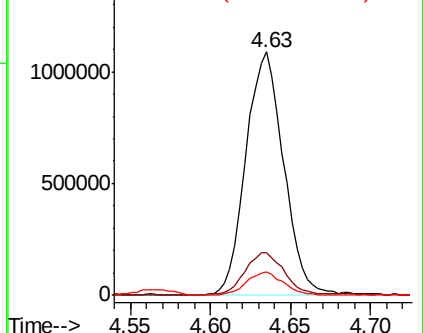
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 11.263 ppbv

RT: 5.13 min Scan# 681

Delta R.T. -0.00 min

Lab File: VL032699.D

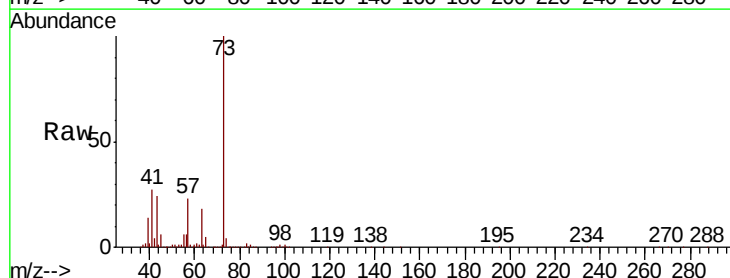
Acq: 30 Oct 2018 13:27

Tgt Ion: 73 Resp: 2413749

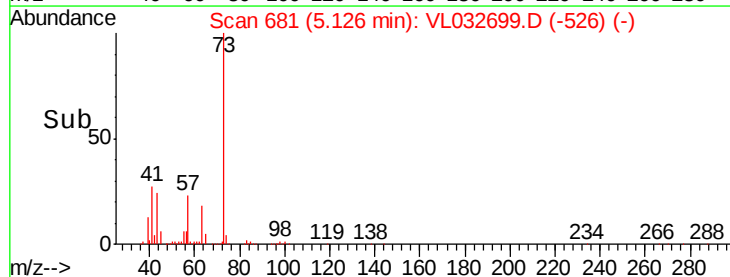
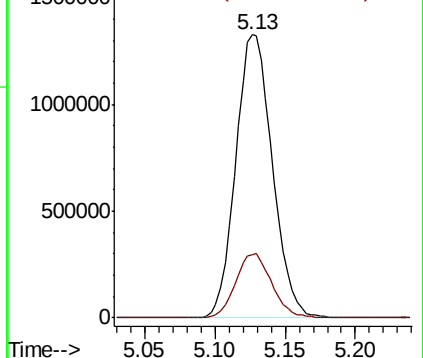
Ion Ratio Lower Upper

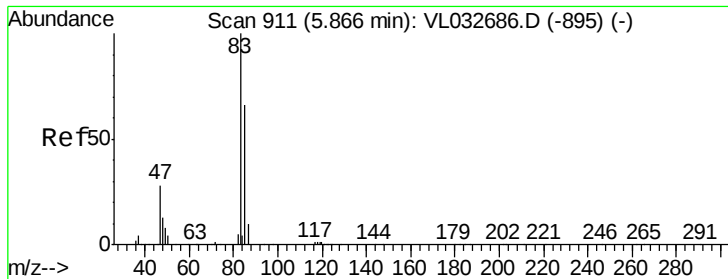
73 100

57 22.4 18.0 27.0



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





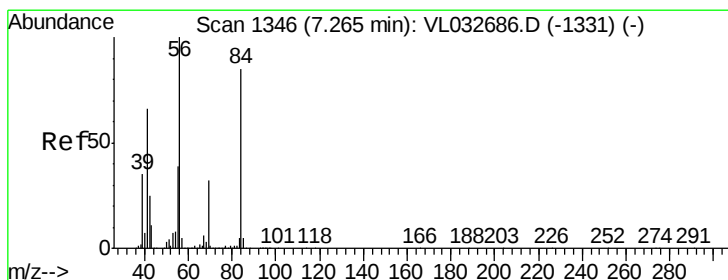
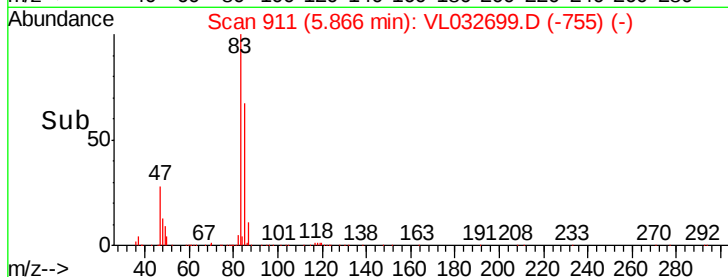
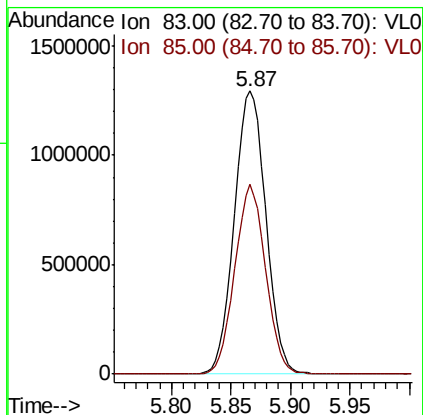
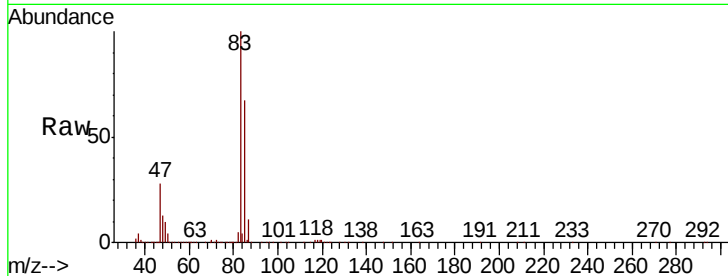
#29
Chloroform
Concen: 9.991 ppbv
RT: 5.87 min Scan# 911
Delta R.T. 0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 2379883
Ion Ratio Lower Upper
83 100
85 67.0 53.0 79.6

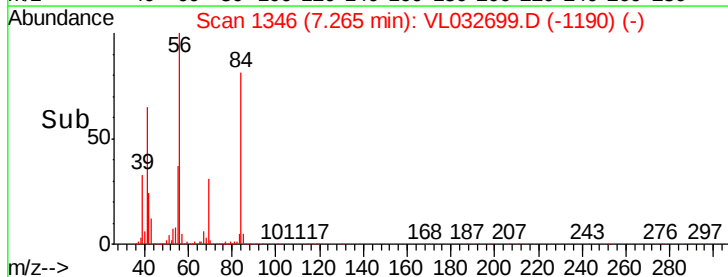
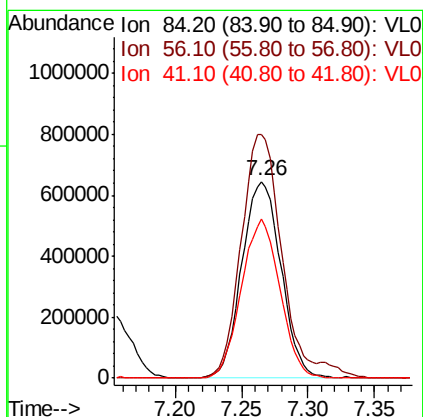
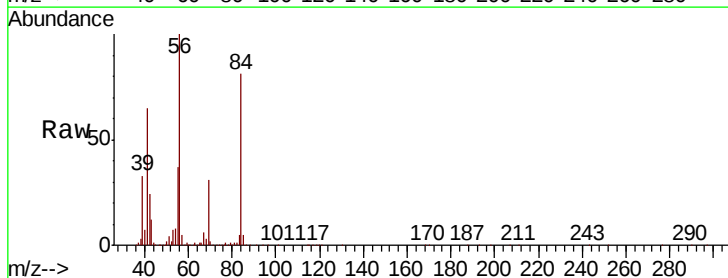
Manual Integrations
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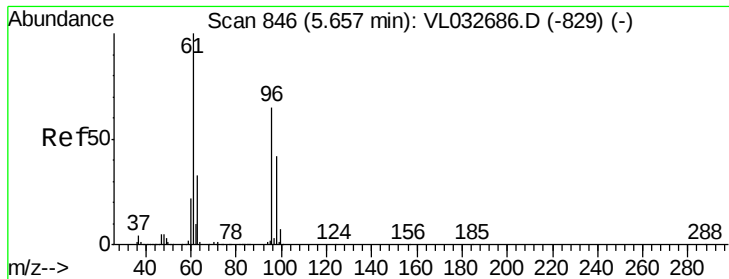
MMDadoda
10/31/2018 10:39:57 AM



#30
Cyclohexane
Concen: 11.262 ppbv
RT: 7.26 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Tgt Ion: 84 Resp: 1329264
Ion Ratio Lower Upper
84 100
56 130.4 108.3 162.5
41 79.7 64.8 97.2





#31

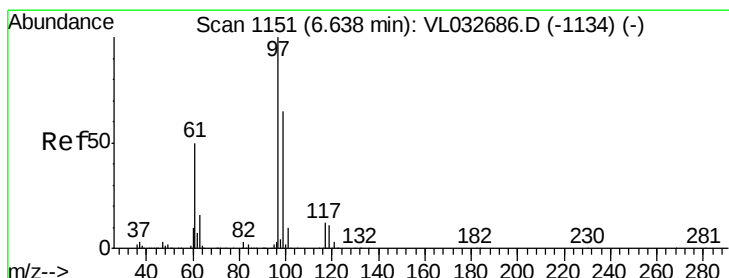
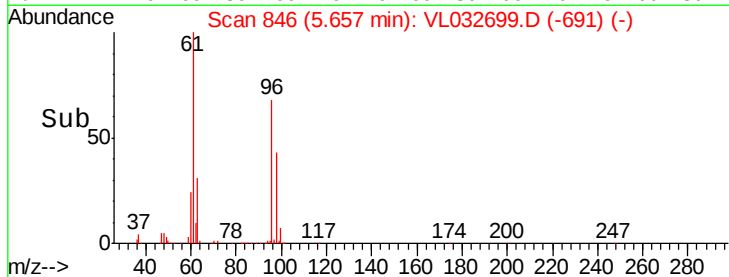
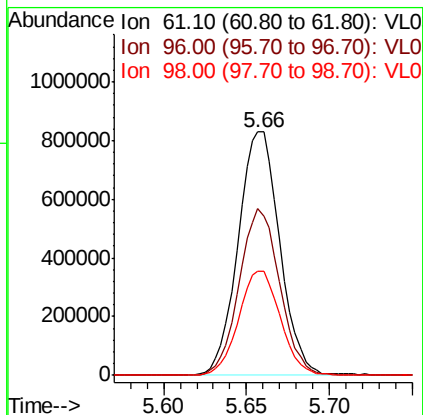
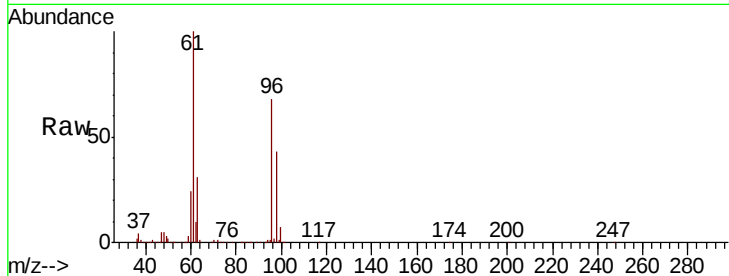
cis-1,2-Dichloroethene
Concen: 10.501 ppbv
RT: 5.66 min Scan# 846
Delta R.T. -0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 61 Resp: 1451878
Ion Ratio Lower Upper
61 100
96 68.2 51.8 77.6
98 42.8 33.8 50.6

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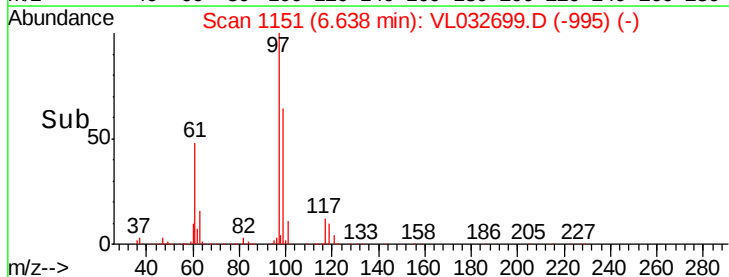
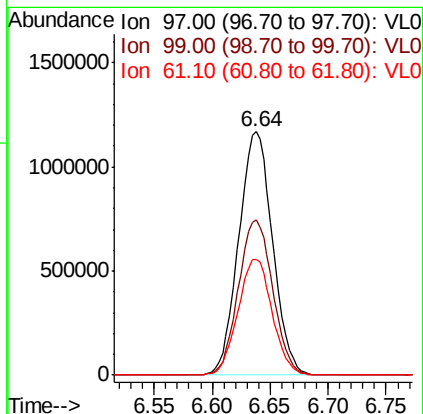
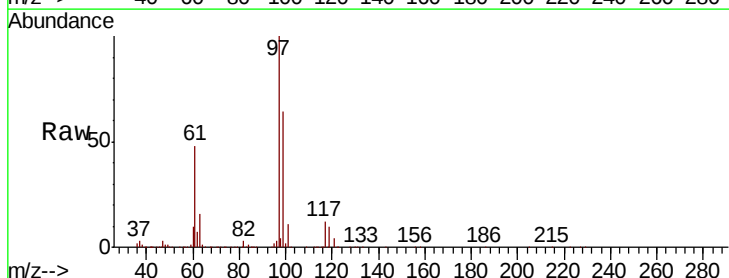
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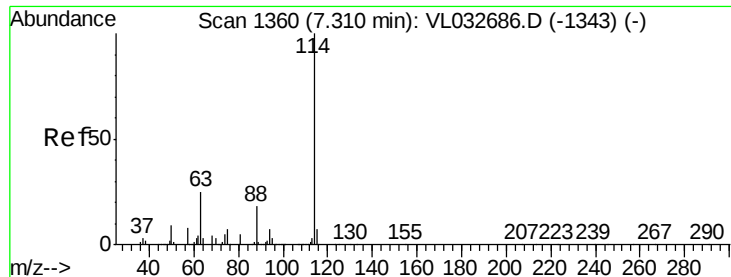


#32

1,1,1-Trichloroethane
Concen: 9.823 ppbv
RT: 6.64 min Scan# 1151
Delta R.T. 0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Tgt Ion: 97 Resp: 2377786
Ion Ratio Lower Upper
97 100
99 64.7 52.0 78.0
61 48.2 40.7 61.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.31 min Scan# 1361

Delta R.T. 0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:114 Resp: 3759030

Ion Ratio Lower Upper

114 100

63 25.2 21.7 32.5

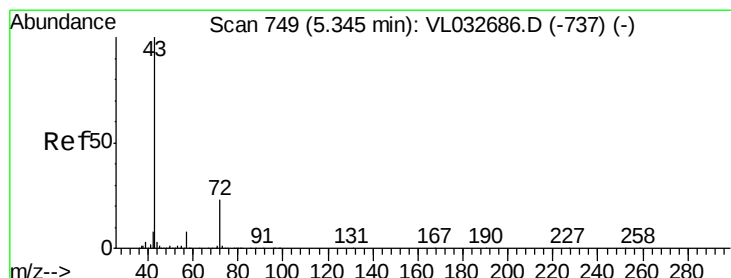
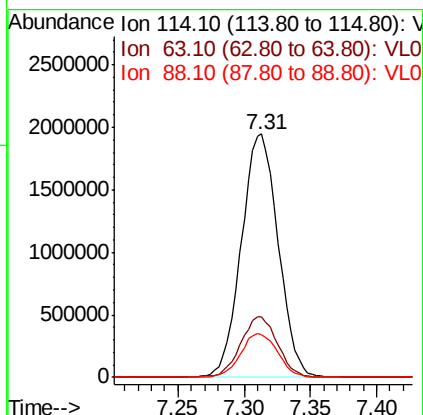
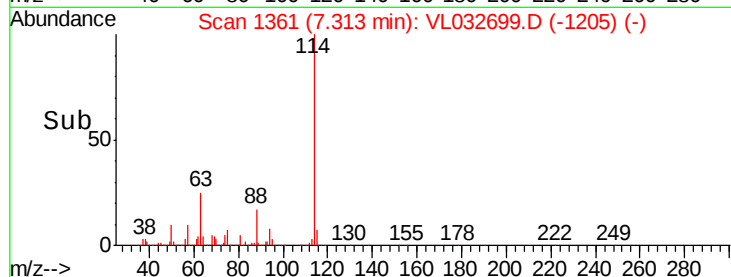
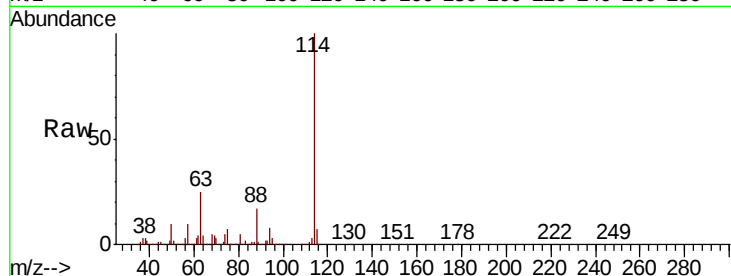
88 18.0 14.9 22.3

Manual Integrations

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#34

2-Butanone

Concen: 10.337 ppbv

RT: 5.35 min Scan# 749

Delta R.T. 0.01 min

Lab File: VL032699.D

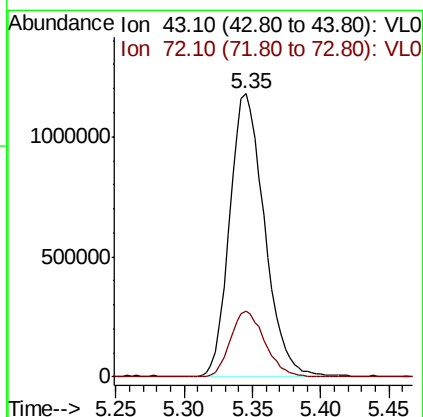
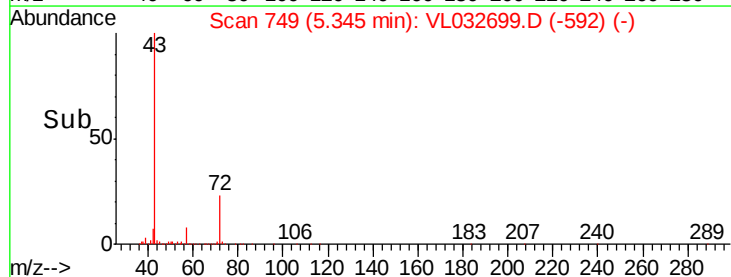
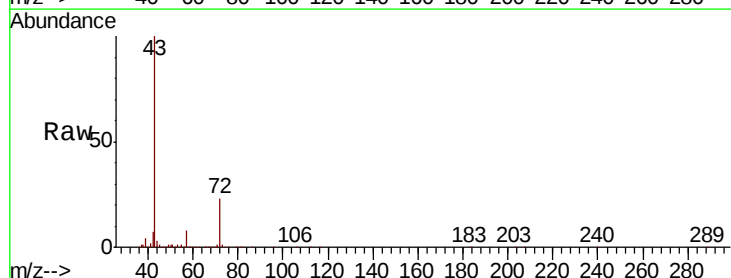
Acq: 30 Oct 2018 13:27

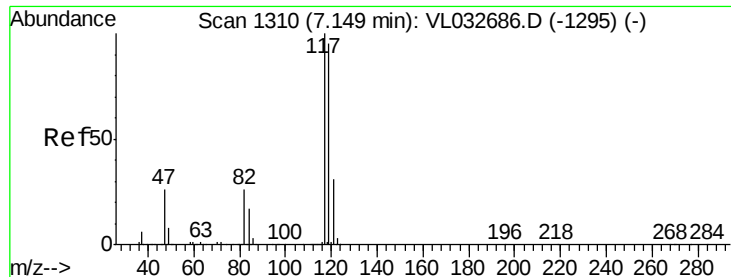
Tgt Ion: 43 Resp: 2083088

Ion Ratio Lower Upper

43 100

72 23.3 18.6 27.8





#35

Carbon Tetrachloride

Concen: 9.556 ppbv

RT: 7.15 min Scan# 1311

Delta R.T. 0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 2549447

Ion Ratio Lower Upper

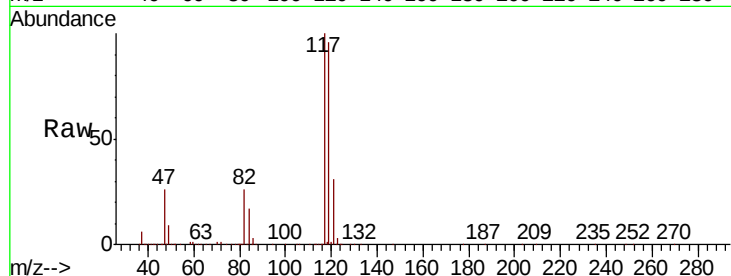
117 100

119 95.7 75.7 113.5

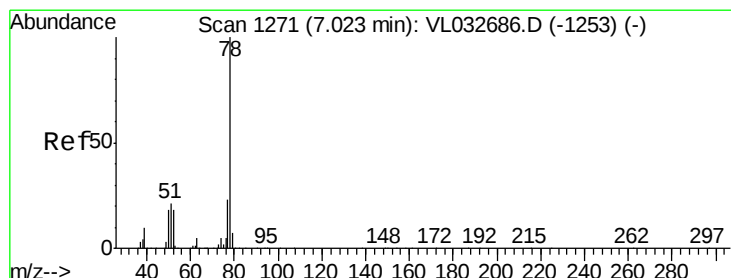
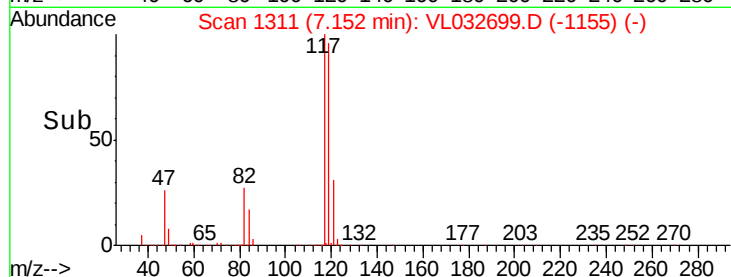
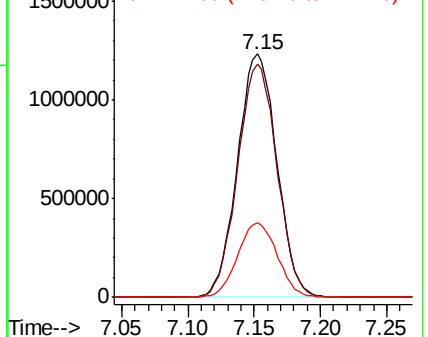
121 30.9 24.7 37.1

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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: 10.211 ppbv

RT: 7.02 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

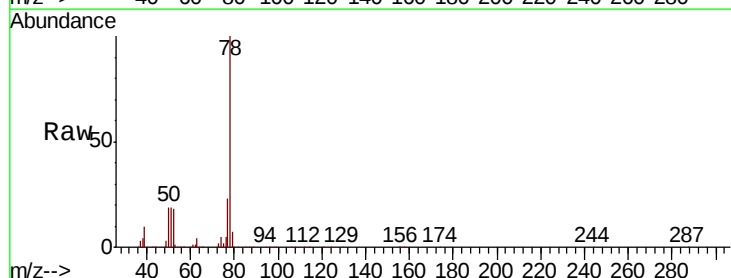
Tgt Ion: 78 Resp: 3117015

Ion Ratio Lower Upper

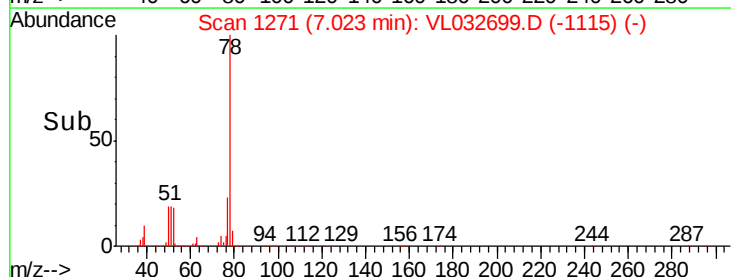
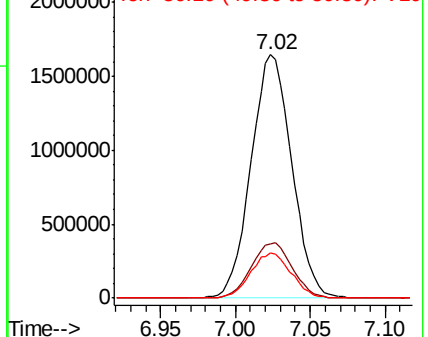
78 100

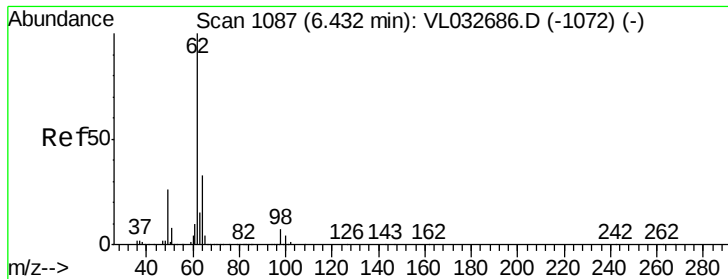
77 22.5 18.1 27.1

50 18.7 15.1 22.7



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: 9.607 ppbv

RT: 6.43 min Scan# 1086

Delta R.T. -0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 1798605

Ion Ratio Lower Upper

62 100

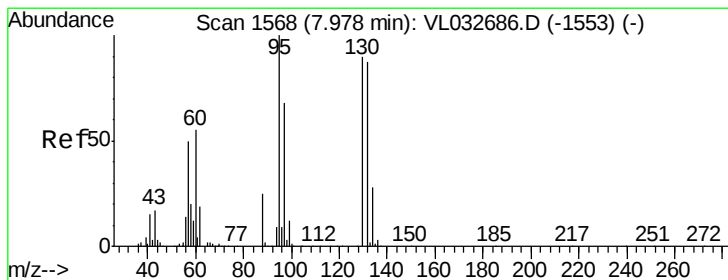
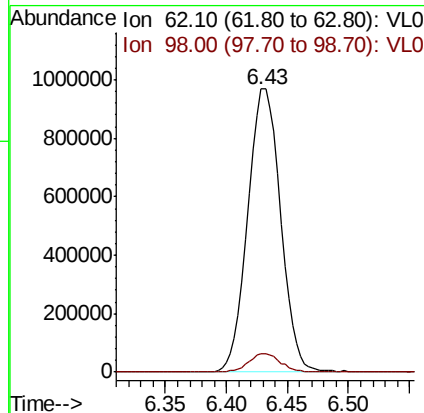
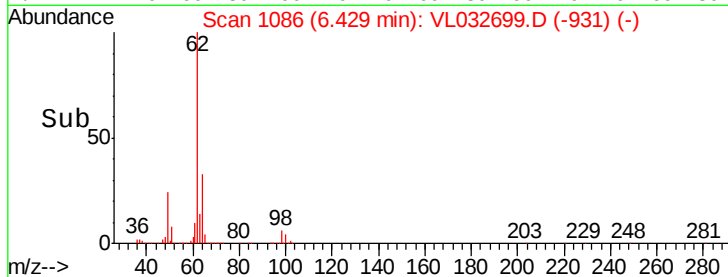
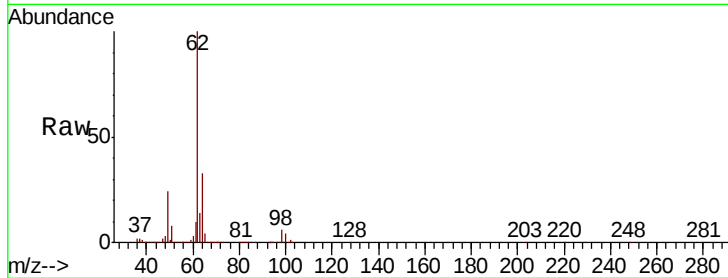
98 6.4 4.4 6.6

Manual Integrations

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#38

Trichloroethene

Concen: 10.631 ppbv

RT: 7.98 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

Tgt Ion: 130 Resp: 1201343

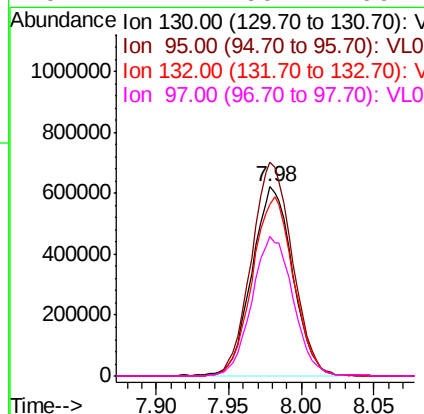
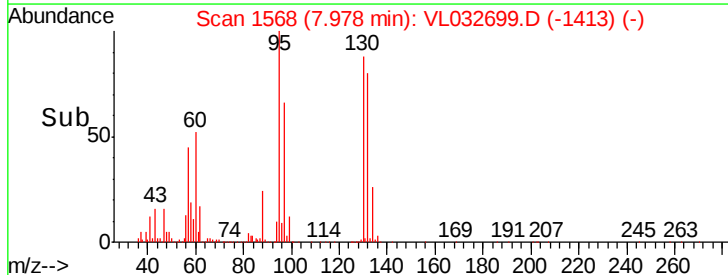
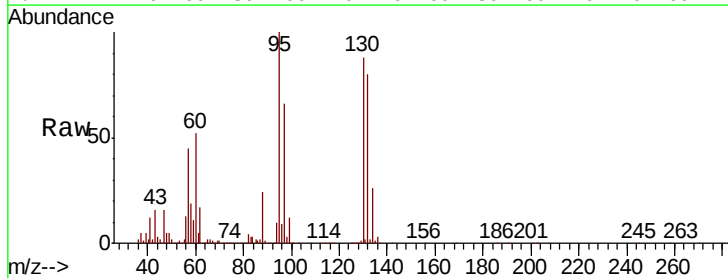
Ion Ratio Lower Upper

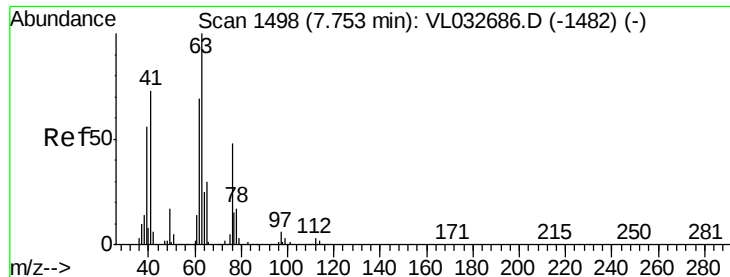
130 100

95 113.4 93.4 140.0

132 91.0 76.5 114.7

97 74.4 60.2 90.2





#39

1,2-Dichloropropane

Concen: 10.233 ppbv

RT: 7.76 min Scan# 1499

Delta R.T. 0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 63 Resp: 1206245

Ion Ratio Lower Upper

63 100

41 72.9 56.2 84.4

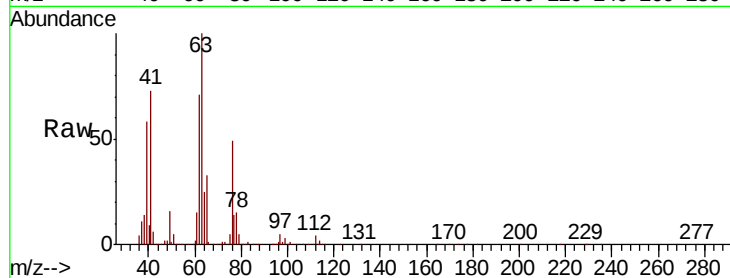
62 70.9 54.4 81.6

Manual Integrations

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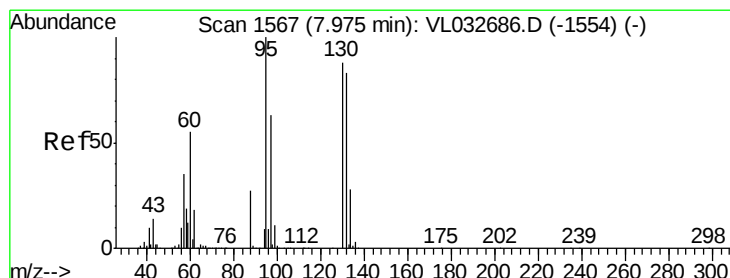
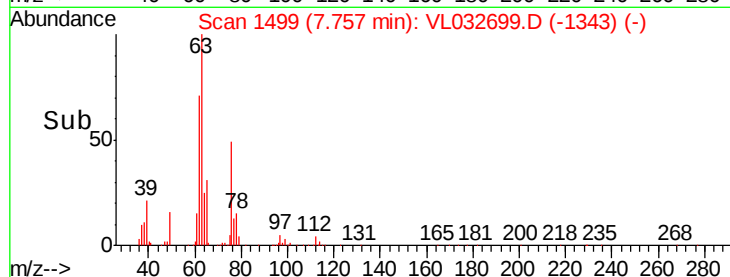
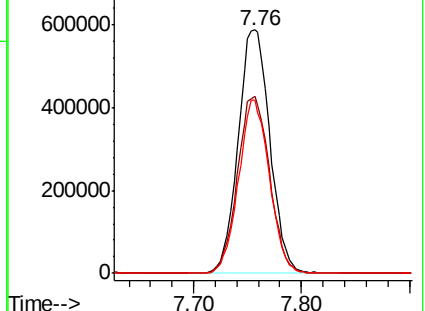
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Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 10.182 ppbv

RT: 7.98 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

Tgt Ion: 88 Resp: 409897

Ion Ratio Lower Upper

88 100

58 133.0 104.0 156.0

43 284.4 0.0 0.0#

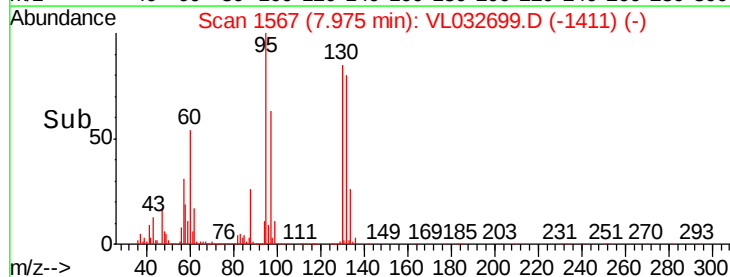
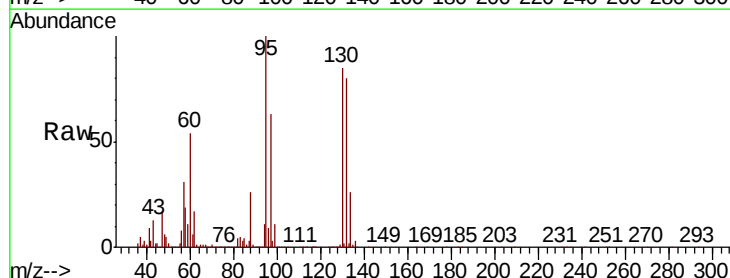
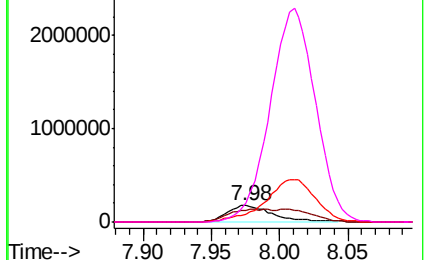
57 1295.0 0.0 0.0#

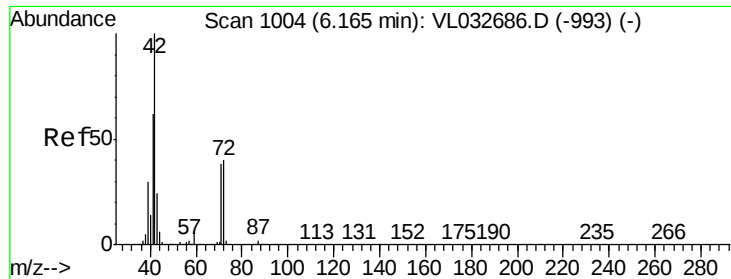
Abundance Ion 88.10 (87.80 to 88.80): VL0

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





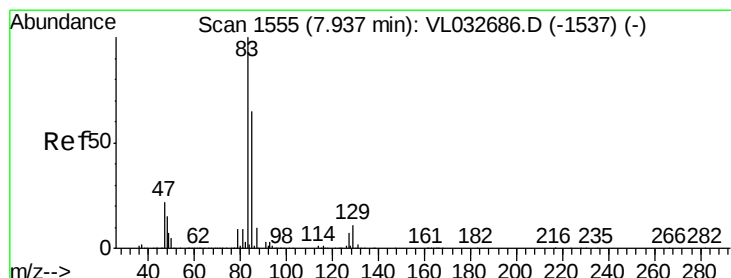
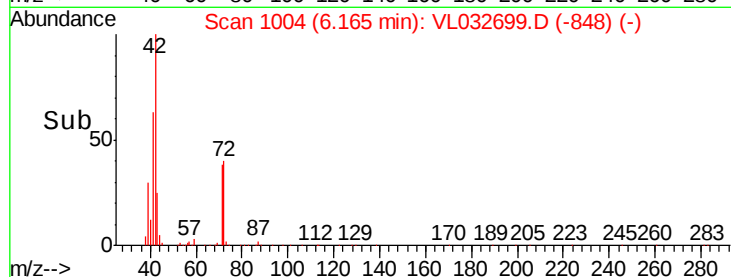
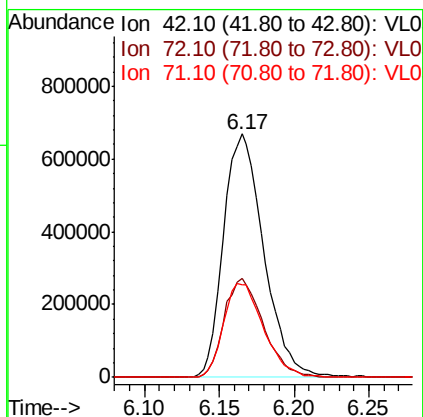
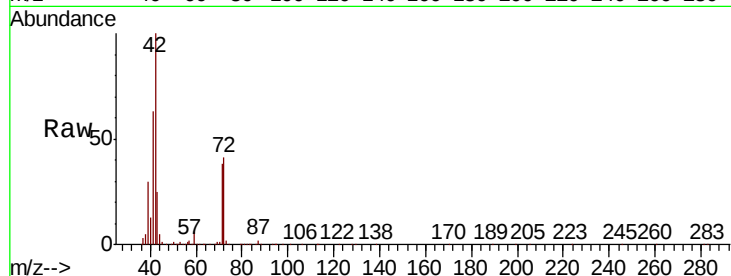
#41
Tetrahydrofuran
Concen: 11.144 ppbv
RT: 6.17 min Scan# 1004
Delta R.T. 0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.2	32.4	48.6
71	38.8	31.3	46.9

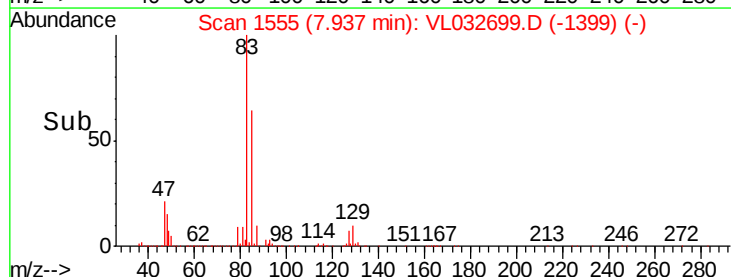
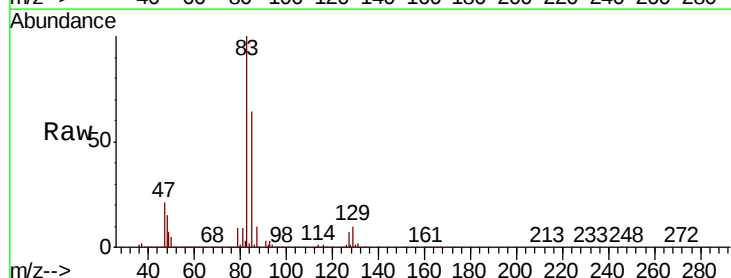
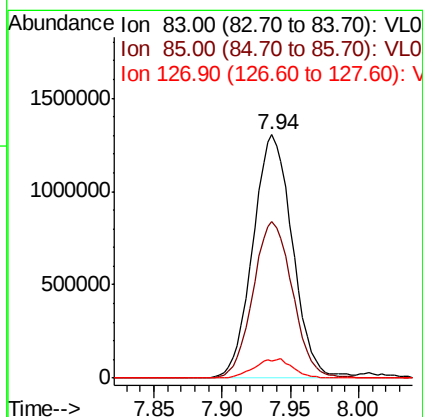
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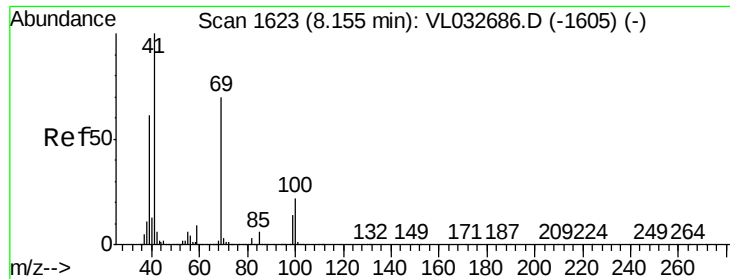
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#42
Bromodichloromethane
Concen: 9.949 ppbv
RT: 7.94 min Scan# 1555
Delta R.T. 0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.4	78.6
127	7.1	6.1	9.1





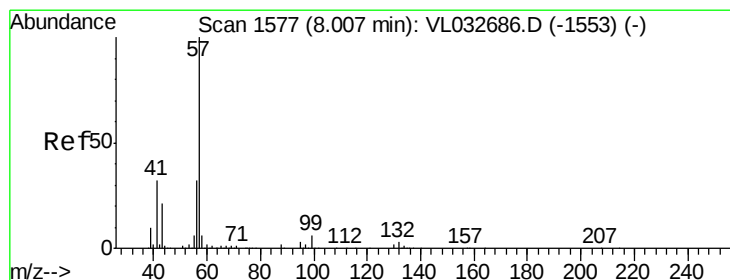
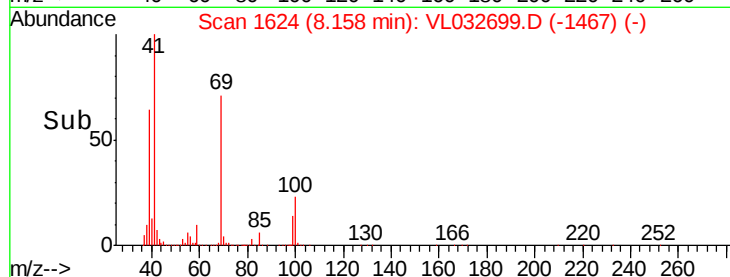
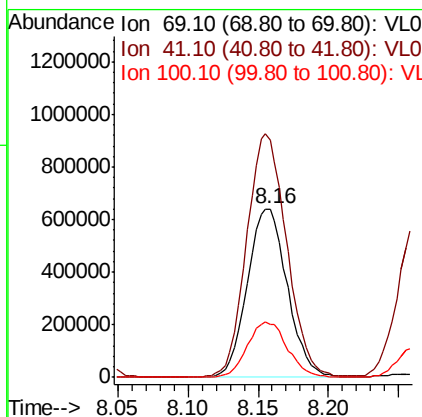
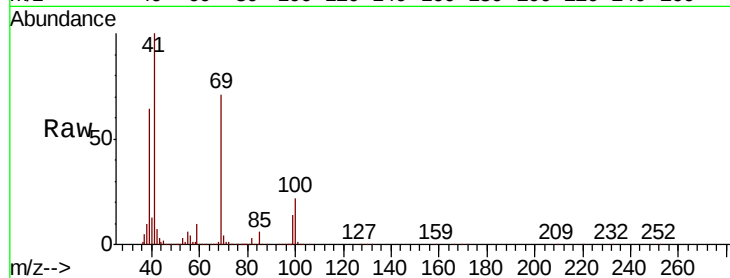
#43
Methyl Methacrylate
Concen: 11.339 ppbv
RT: 8.16 min Scan# 1624
Delta R.T. 0.01 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 69 Resp: 1268541
Ion Ratio Lower Upper
69 100
41 144.8 113.2 169.8
100 33.0 24.4 36.6

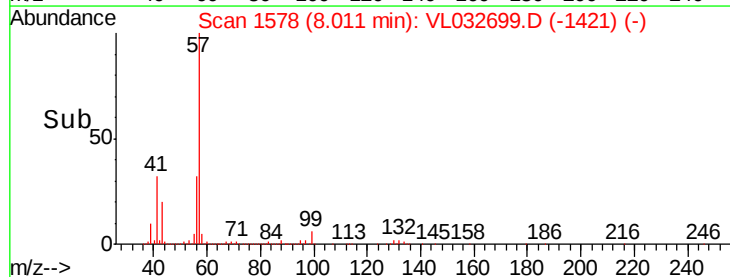
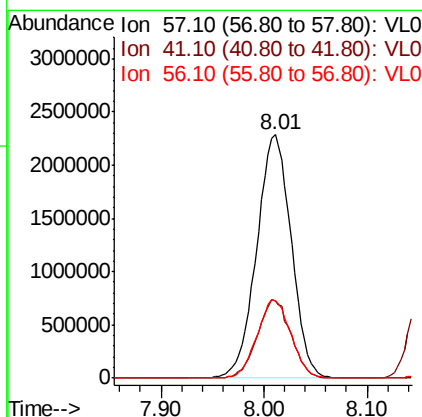
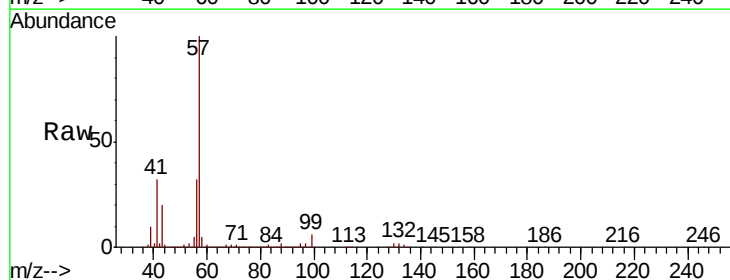
Manual Integrations
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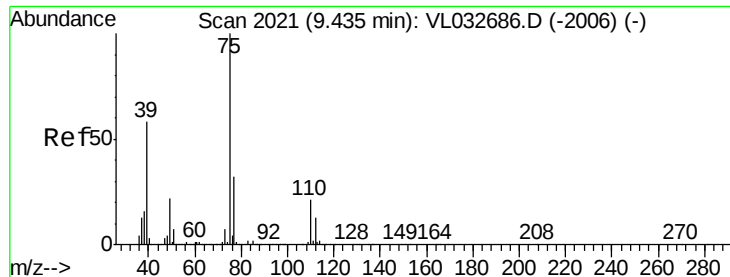
MMDadoda
10/31/2018 10:39:57 AM



#44
2,2,4-Trimethylpentane
Concen: 10.174 ppbv
RT: 8.01 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Tgt Ion: 57 Resp: 5301475
Ion Ratio Lower Upper
57 100
41 31.3 24.7 37.1
56 31.6 25.0 37.4





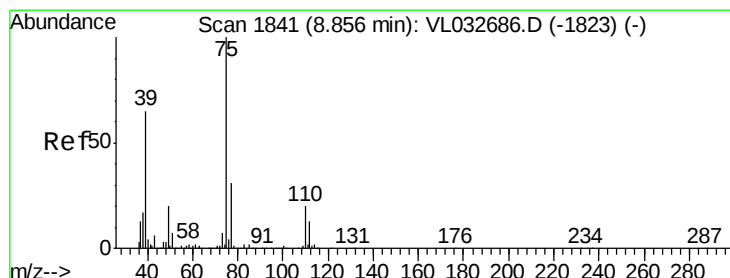
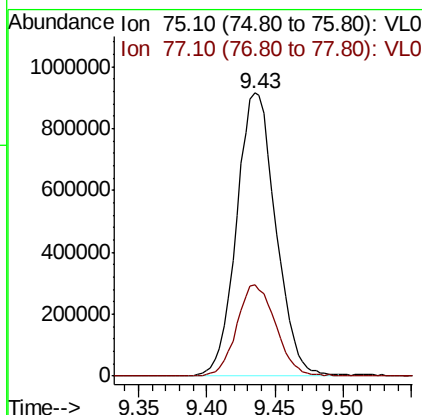
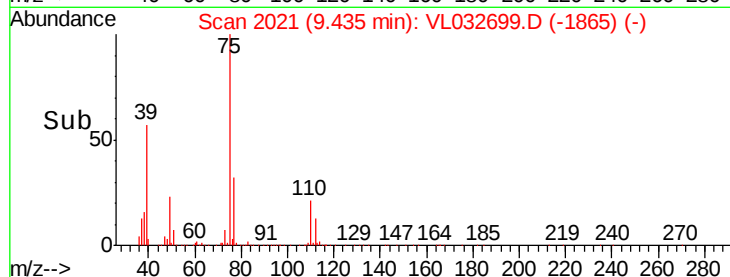
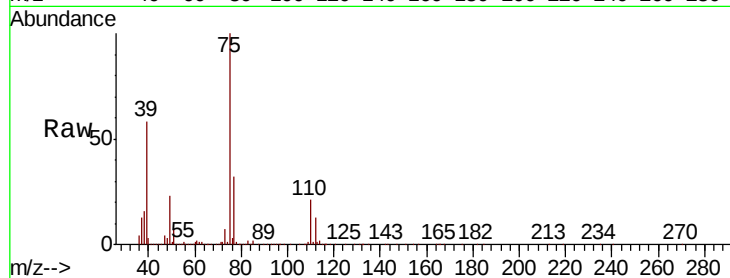
#45
t-1,3-Dichloropropene
Concen: 12.116 ppbv
RT: 9.43 min Scan# 2021
Delta R.T. 0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 75 Resp: 1814427
Ion Ratio Lower Upper
75 100
77 32.2 25.3 37.9

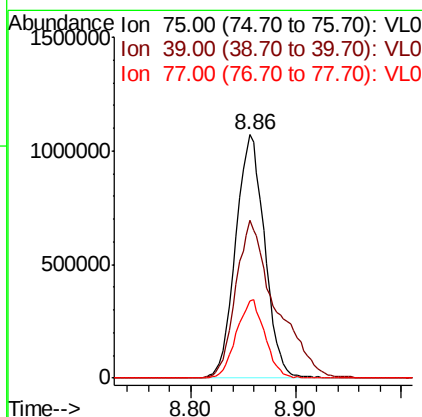
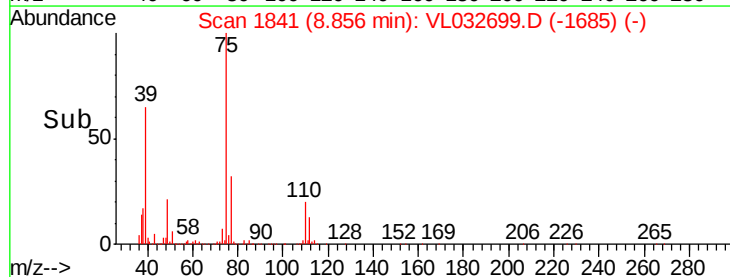
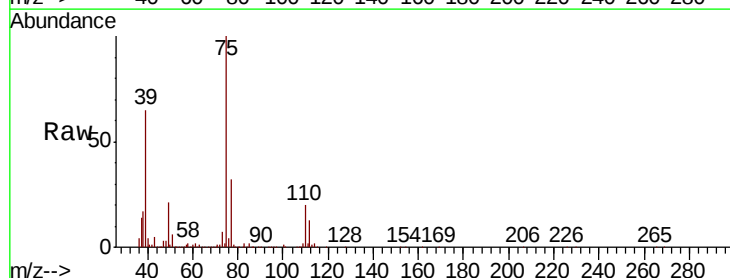
Manual Integrations
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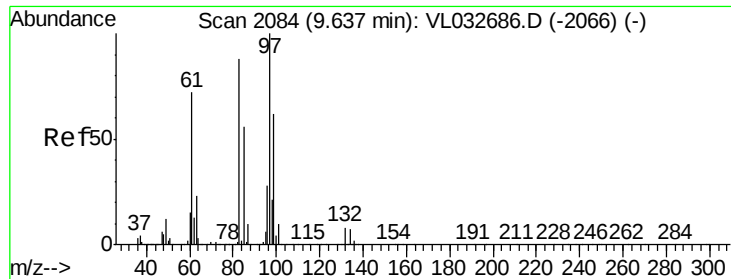
MMDadoda
10/31/2018 10:39:57 AM



#46
cis-1,3-Dichloropropene
Concen: 11.928 ppbv
RT: 8.86 min Scan# 1841
Delta R.T. 0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Tgt Ion: 75 Resp: 2040763
Ion Ratio Lower Upper
75 100
39 64.9 50.9 76.3
77 31.6 25.8 38.6





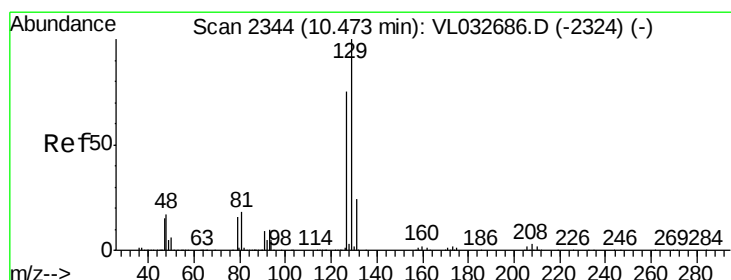
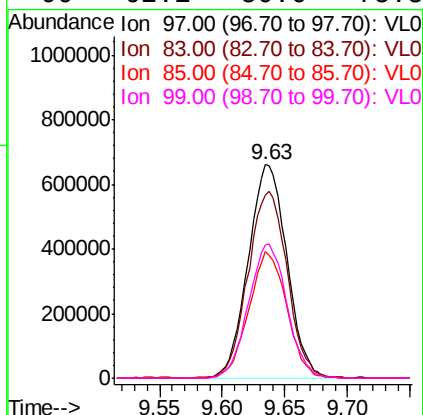
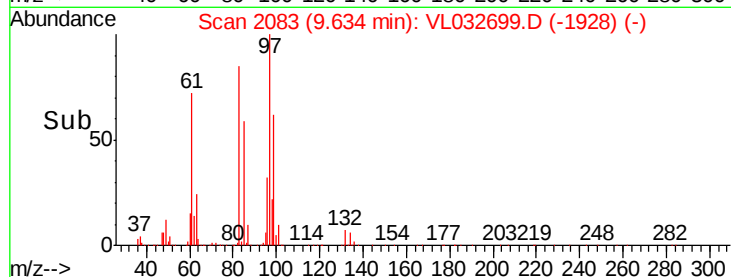
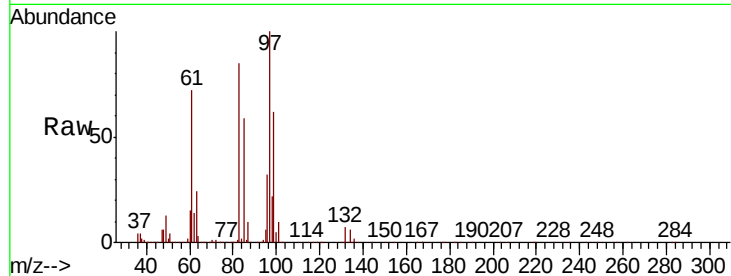
#47
1,1,2-Trichloroethane
Concen: 10.208 ppbv
RT: 9.63 min Scan# 2083
Delta R.T. -0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	85.4	73.5	110.3	
85	59.0	45.8	68.6	
99	62.1	50.6	75.8	

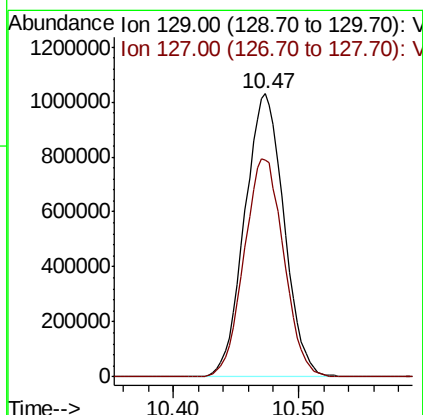
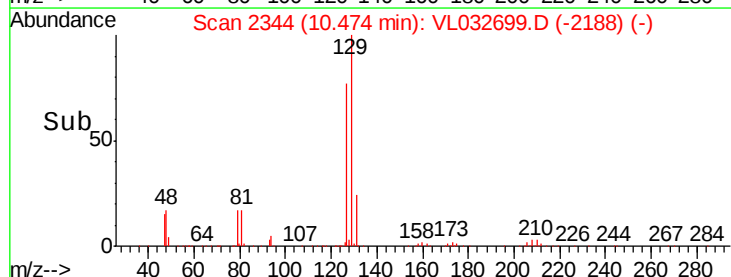
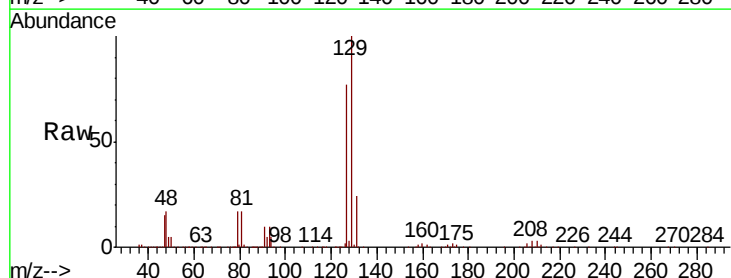
Manual Integrations
APPROVED

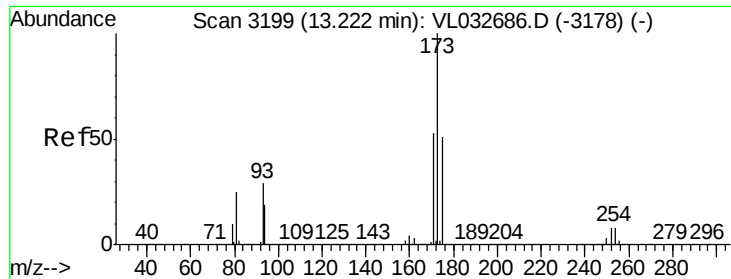
MMDadoda
10/31/2018 10:39:57 AM



#48
Dibromochloromethane
Concen: 9.664 ppbv
RT: 10.47 min Scan# 2344
Delta R.T. 0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.0	39.1	117.5	





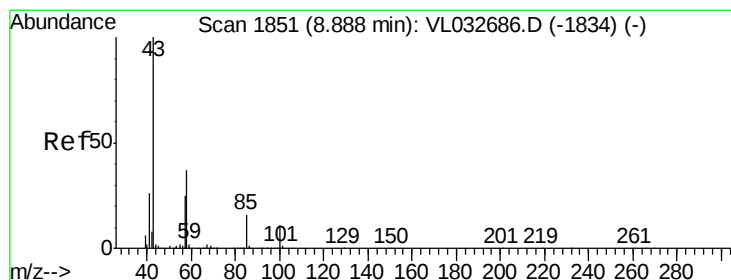
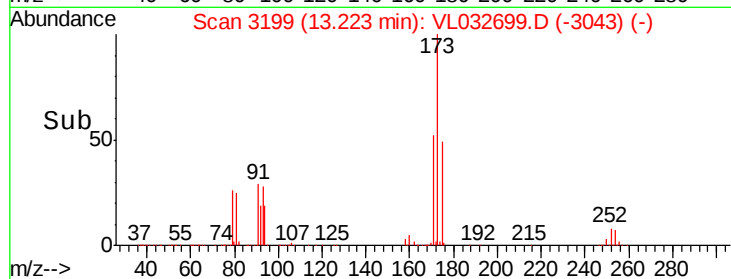
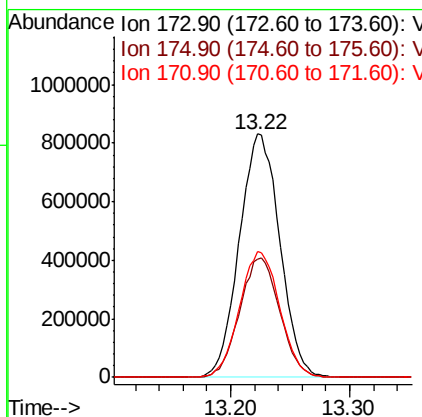
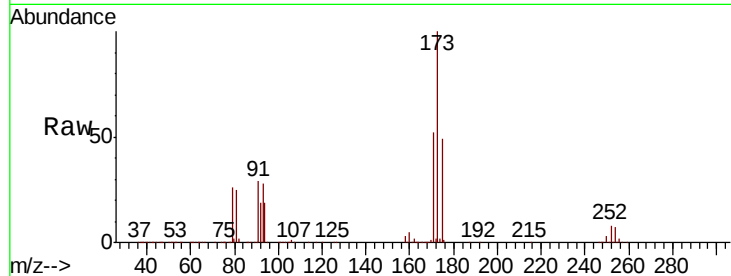
#49
Bromoform
Concen: 10.727 ppbv
RT: 13.22 min Scan# 3199
Delta R.T. 0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:173 Resp: 1957000
Ion Ratio Lower Upper
173 100
175 48.7 39.0 58.4
171 51.5 42.2 63.2

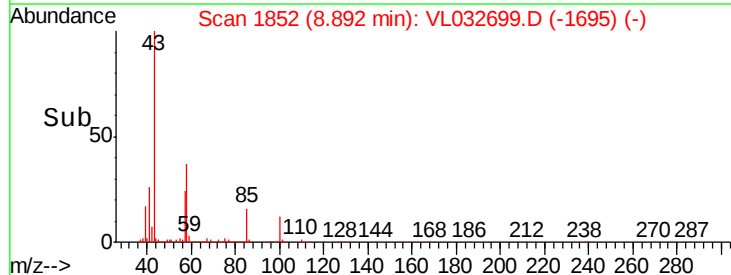
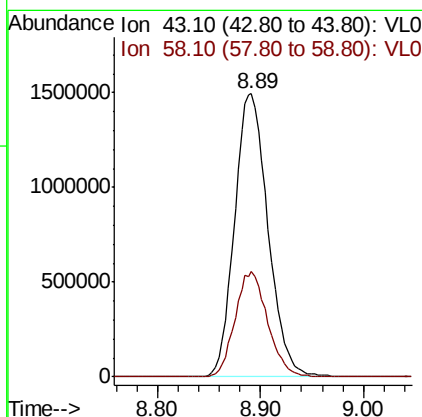
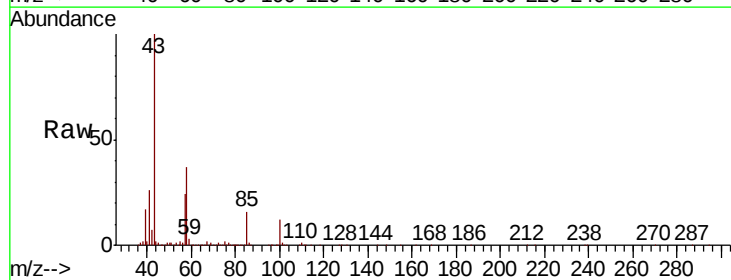
Manual Integrations
APPROVED

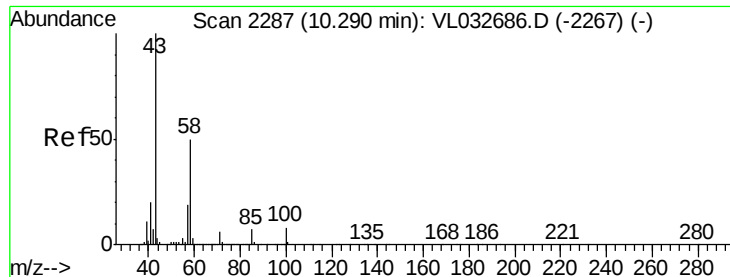
MMDadoda
10/31/2018 10:39:57 AM



#50
4-Methyl-2-Pentanone
Concen: 11.278 ppbv
RT: 8.89 min Scan# 1852
Delta R.T. 0.01 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Tgt Ion: 43 Resp: 3366970
Ion Ratio Lower Upper
43 100
58 36.3 29.7 44.5





#51

2-Hexanone

Concen: 10.561 ppbv

RT: 10.29 min Scan# 2288

Delta R.T. 0.01 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2343761

Ion Ratio Lower Upper

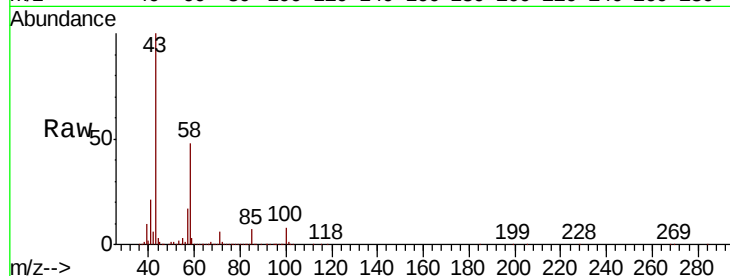
43 100

58 49.1 40.4 60.6

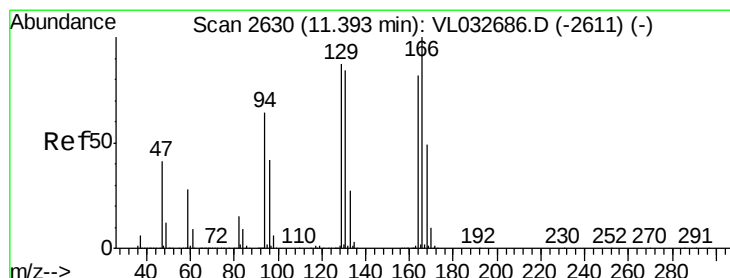
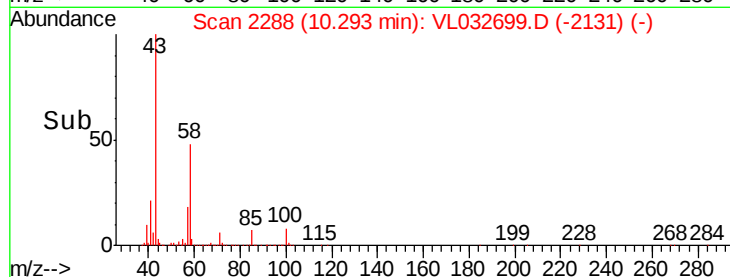
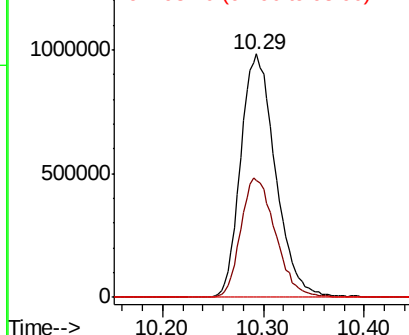
98 0.4 0.4 0.6

Manual Integrations
APPROVED

MMDadoda
10/31/2018 10:39:57 AM



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



#52

Tetrachloroethene

Concen: 10.126 ppbv

RT: 11.40 min Scan# 2631

Delta R.T. 0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

Tgt Ion: 164 Resp: 1077696

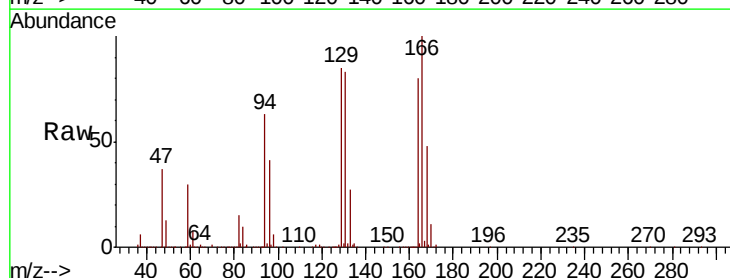
Ion Ratio Lower Upper

164 100

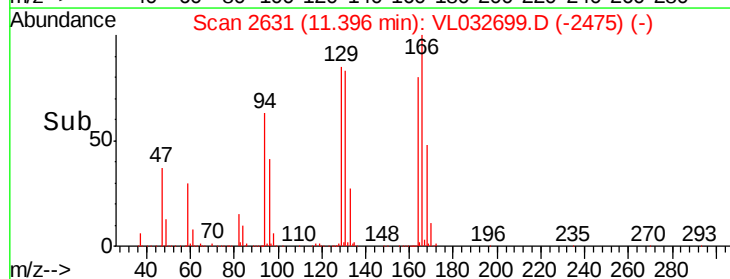
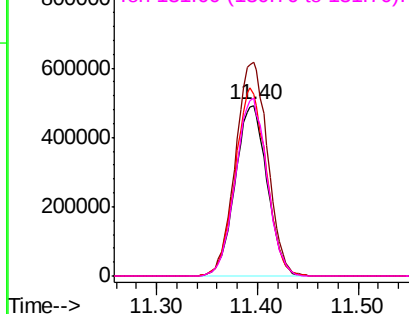
166 125.2 100.5 150.7

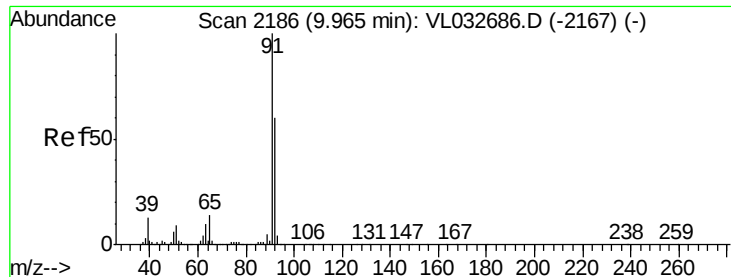
129 106.3 90.0 135.0

131 103.9 86.6 129.8



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 11.403 ppbv

RT: 9.97 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3990026

Ion Ratio Lower Upper

91 100

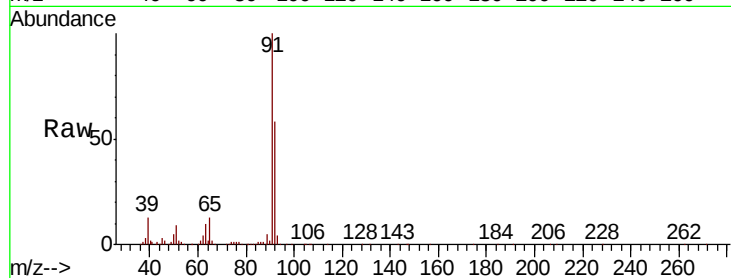
92 59.4 48.4 72.6

Manual Integrations

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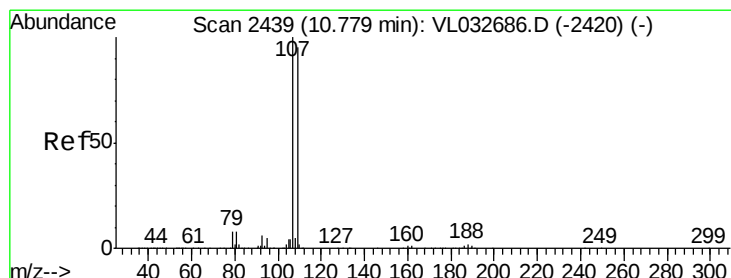
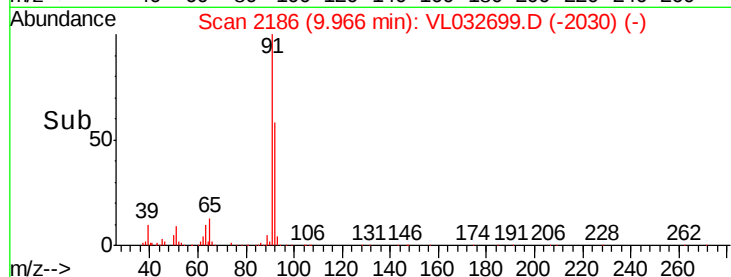
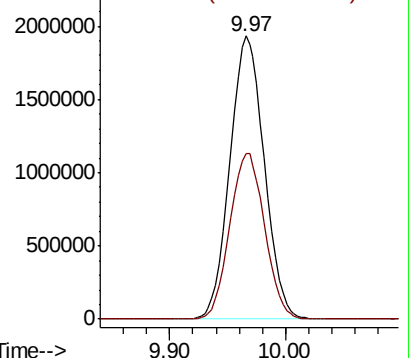
MMDadoda

10/31/2018 10:39:57 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 10.256 ppbv

RT: 10.78 min Scan# 2439

Delta R.T. 0.00 min

Lab File: VL032699.D

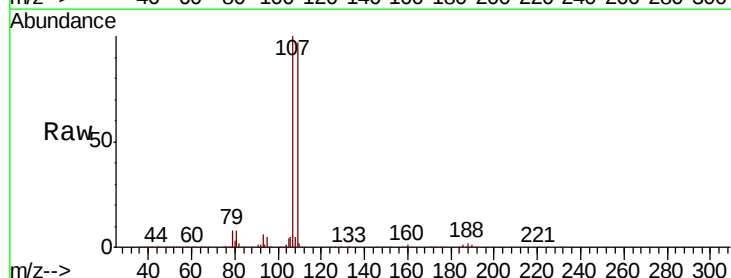
Acq: 30 Oct 2018 13:27

Tgt Ion: 107 Resp: 1941496

Ion Ratio Lower Upper

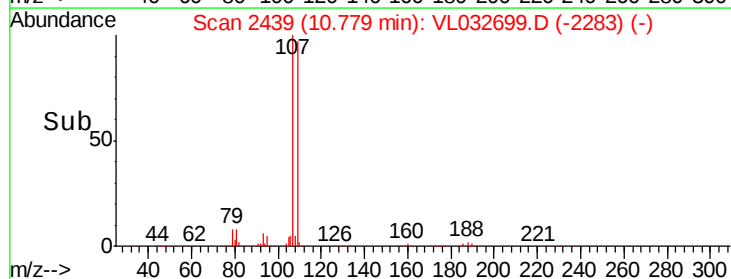
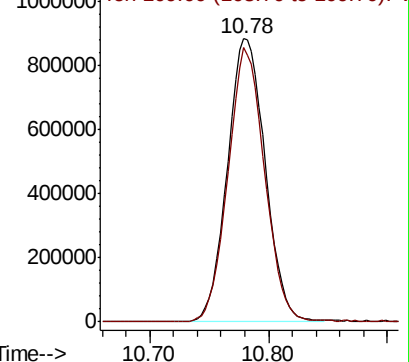
107 100

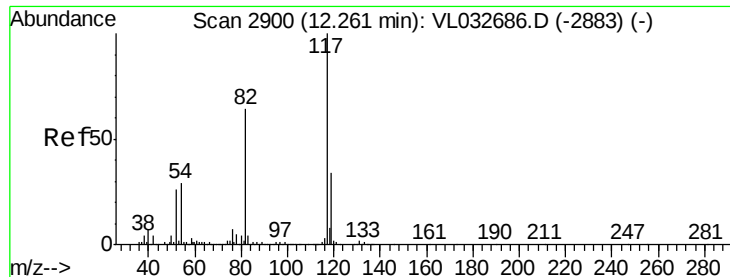
109 96.8 75.3 112.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





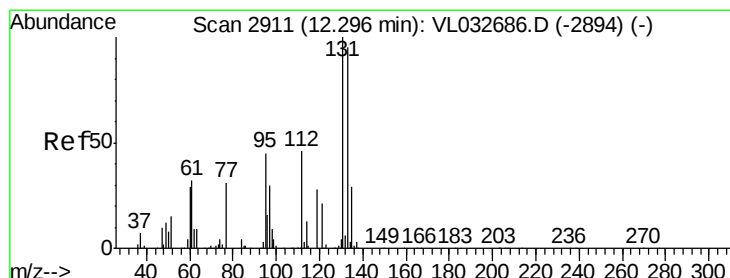
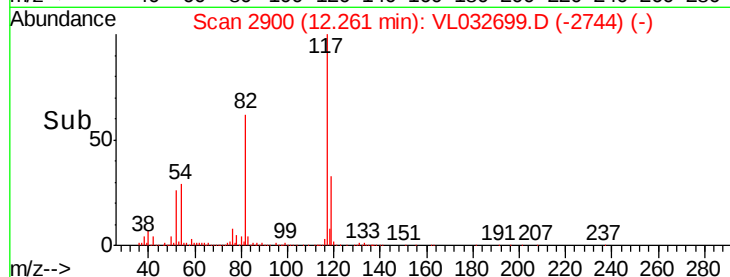
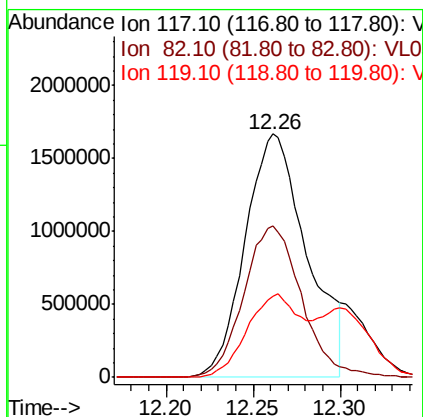
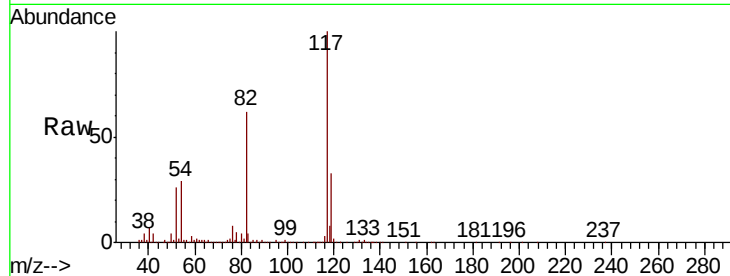
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.26 min Scan# 2900
Delta R.T. 0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:117 Resp: 4121355
Ion Ratio Lower Upper
117 100
82 58.4 52.7 79.1
119 30.7 26.7 40.1

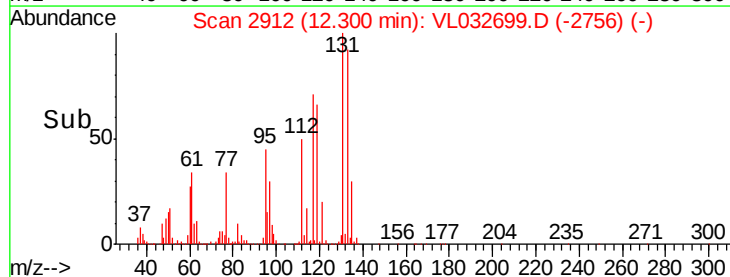
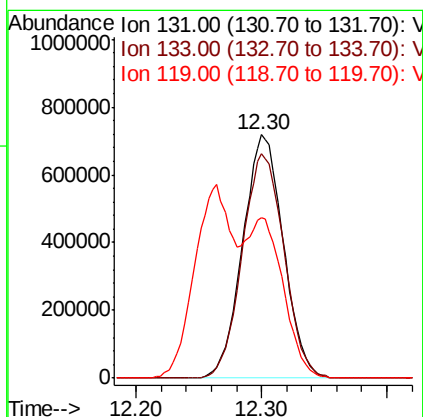
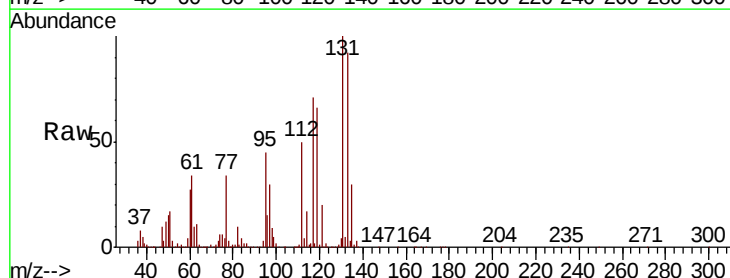
Manual Integrations
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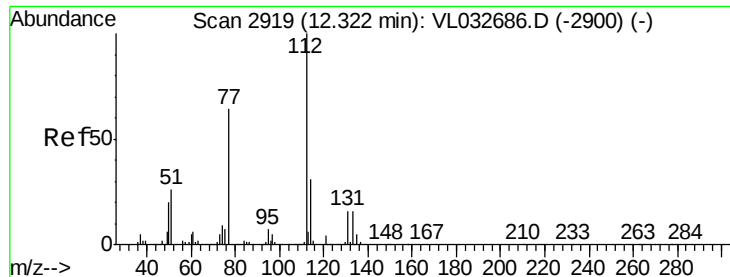
MMDadoda
10/31/2018 10:39:57 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.965 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. 0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Tgt Ion:131 Resp: 1615692
Ion Ratio Lower Upper
131 100
133 94.9 75.4 113.2
119 64.2 49.1 73.7





#57

Chlorobenzene

Concen: 9.046 ppbv

RT: 12.32 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:112 Resp: 2741841

Ion Ratio Lower Upper

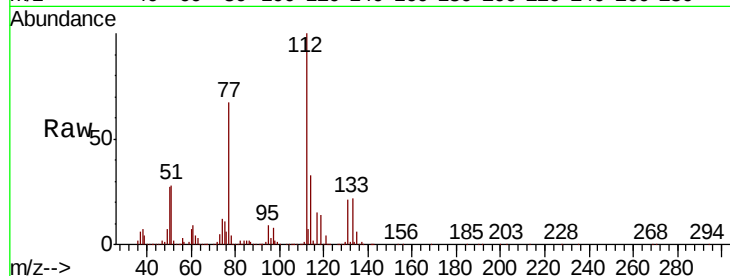
112 100

77 67.0 56.8 85.2

114 32.5 30.3 37.1

Manual Integrations
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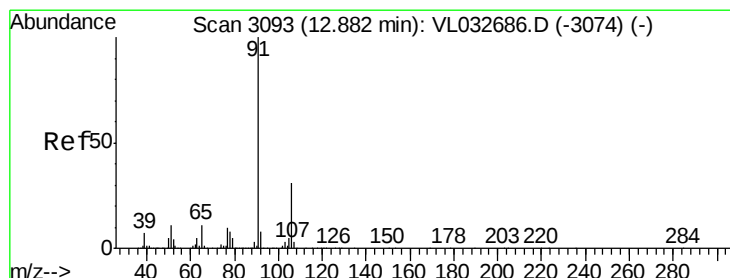
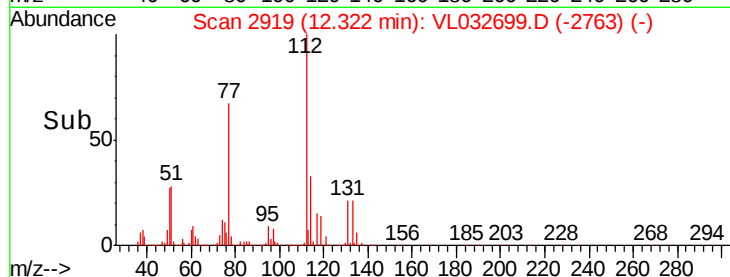
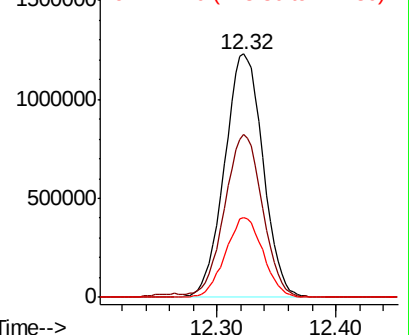
MMDadoda
10/31/2018 10:39:57 AM



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: 10.180 ppbv

RT: 12.88 min Scan# 3094

Delta R.T. 0.00 min

Lab File: VL032699.D

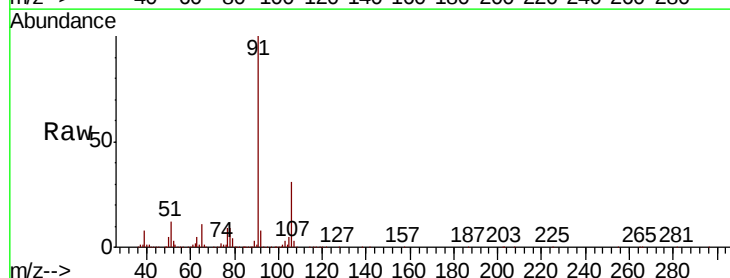
Acq: 30 Oct 2018 13:27

Tgt Ion: 91 Resp: 4874304

Ion Ratio Lower Upper

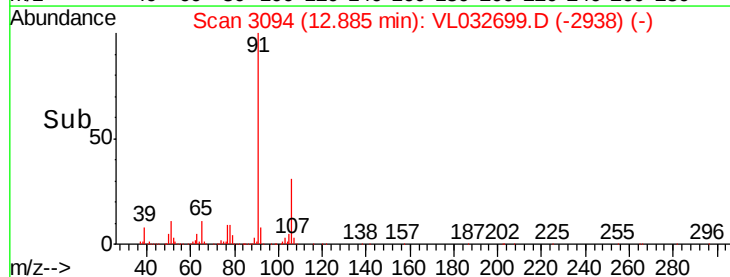
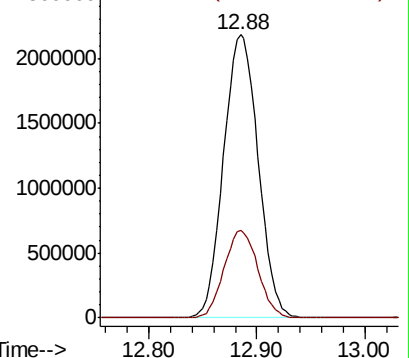
91 100

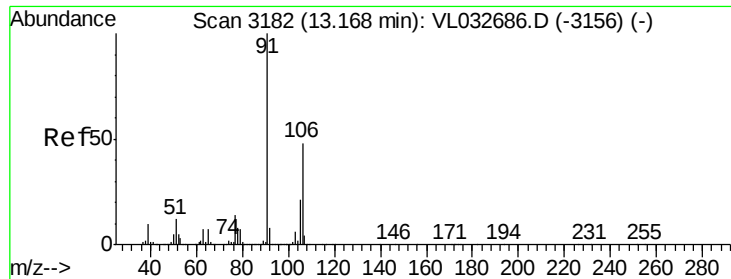
106 31.0 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





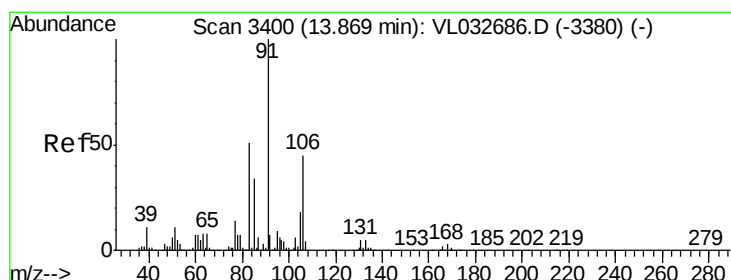
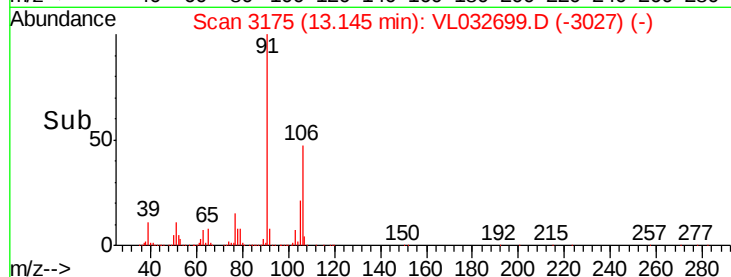
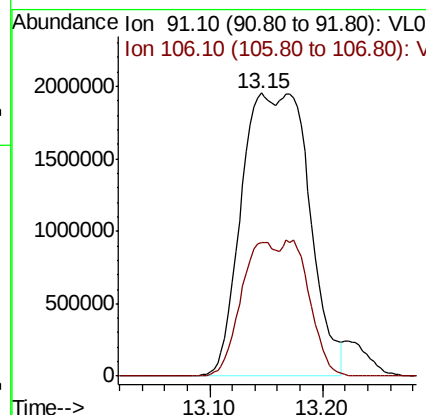
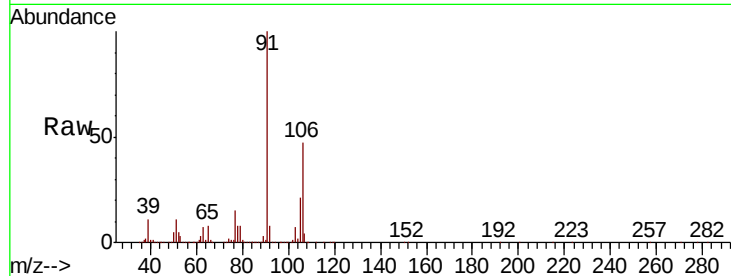
#59
m/p-Xylene
Concen: 18.990 ppbv m
RT: 13.15 min Scan# 3175
Delta R.T. -0.02 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 8096463
Ion Ratio Lower Upper
91 100
106 46.0 35.9 53.9

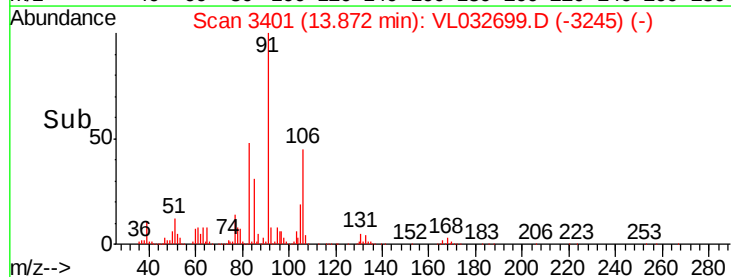
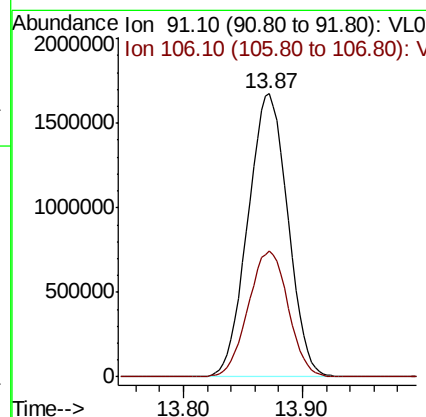
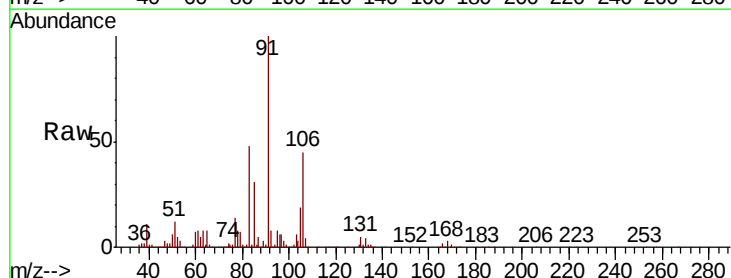
Manual Integrations
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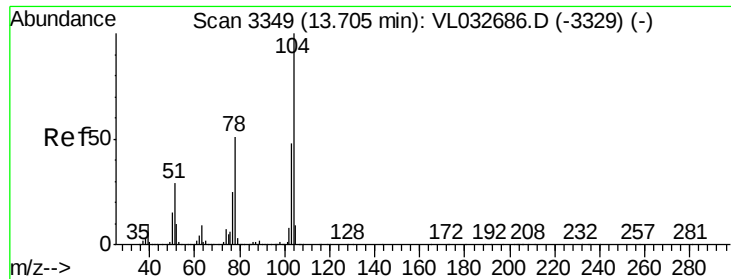
MMDadoda
10/31/2018 10:39:57 AM



#60
o-Xylene
Concen: 9.460 ppbv
RT: 13.87 min Scan# 3401
Delta R.T. 0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Tgt Ion: 91 Resp: 3890534
Ion Ratio Lower Upper
91 100
106 44.4 22.1 66.1





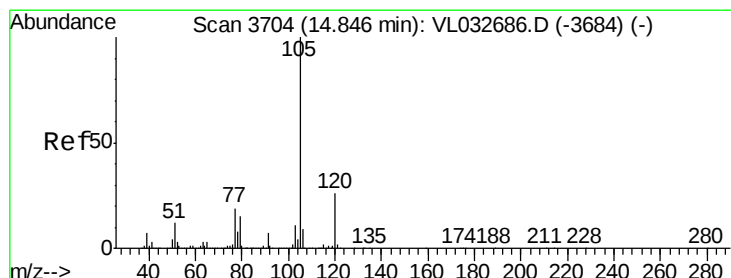
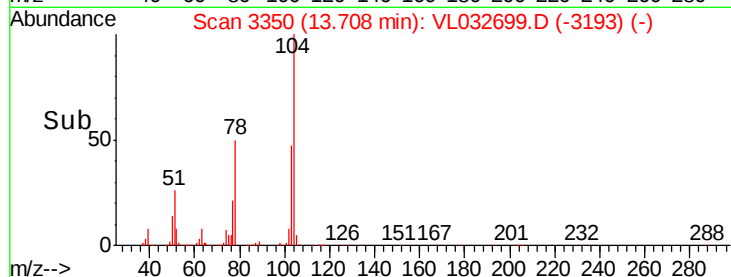
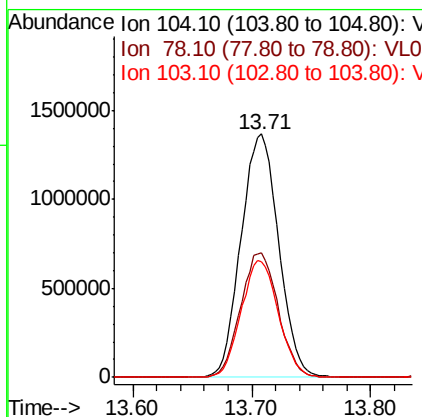
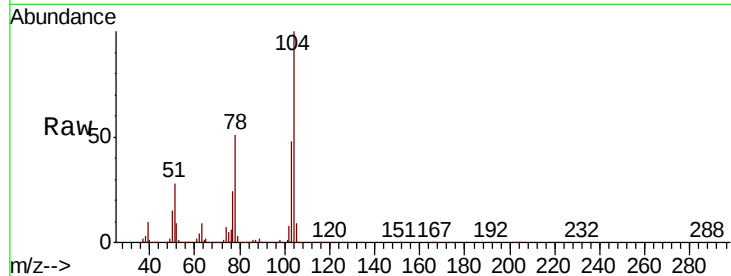
#61
Stvrene
Concen: 10.871 ppbv
RT: 13.71 min Scan# 3350
Delta R.T. 0.01 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	51.2	42.8	64.2
103	47.6	37.4	56.0

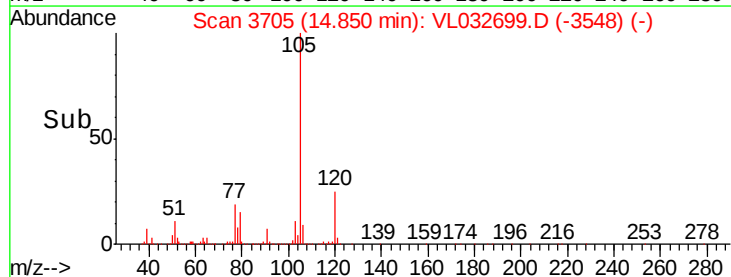
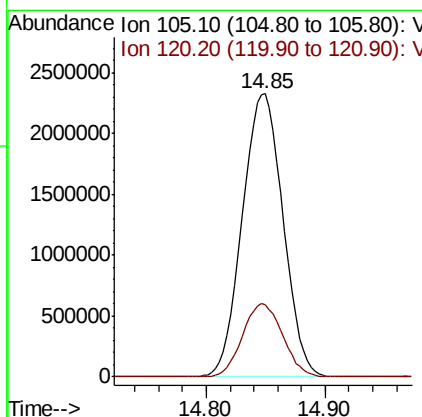
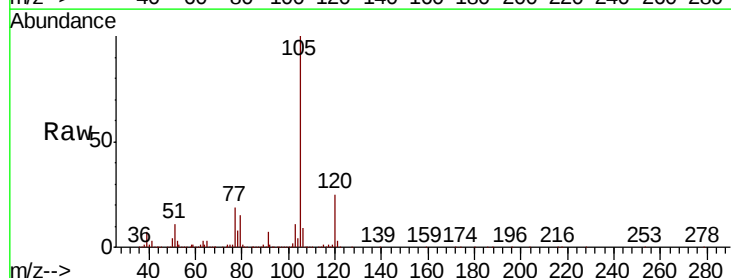
Manual Integrations
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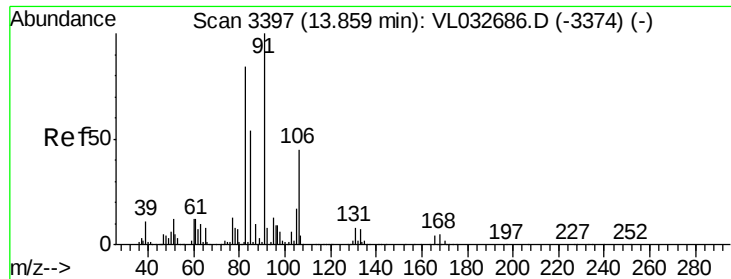
MMDadoda
10/31/2018 10:39:57 AM



#62
Isopropylbenzene
Concen: 9.451 ppbv
RT: 14.85 min Scan# 3705
Delta R.T. 0.01 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.5	30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 8.464 ppbv

RT: 13.86 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2727464

Ion Ratio Lower Upper

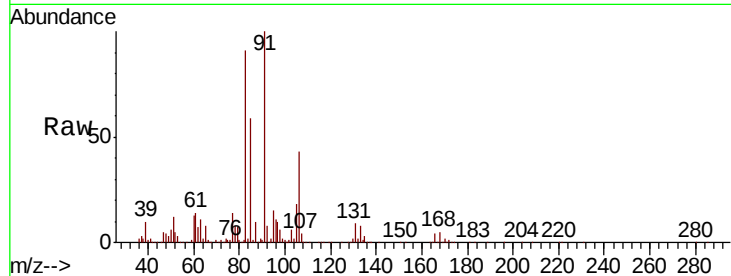
83 100

131 9.3 4.3 12.9

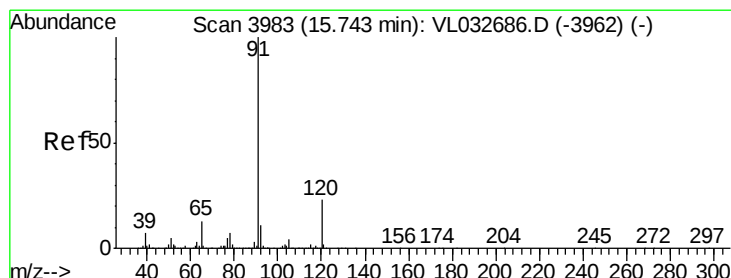
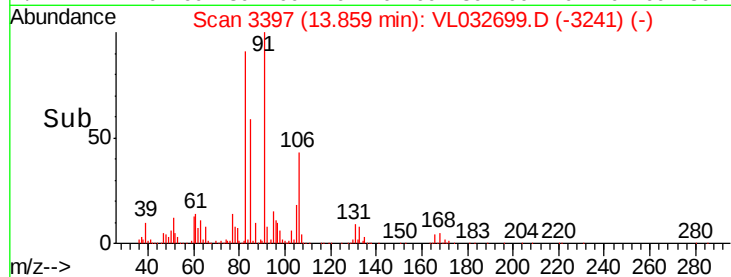
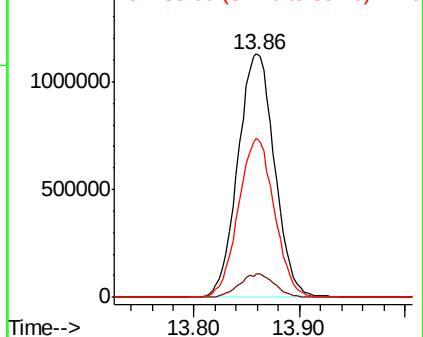
85 64.4 32.3 96.9

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Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.823 ppbv

RT: 15.74 min Scan# 3983

Delta R.T. 0.00 min

Lab File: VL032699.D

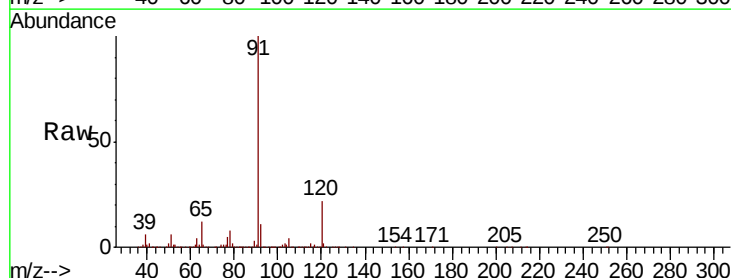
Acq: 30 Oct 2018 13:27

Tgt Ion: 120 Resp: 1421054

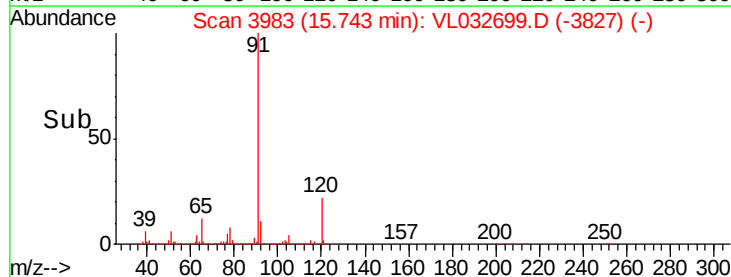
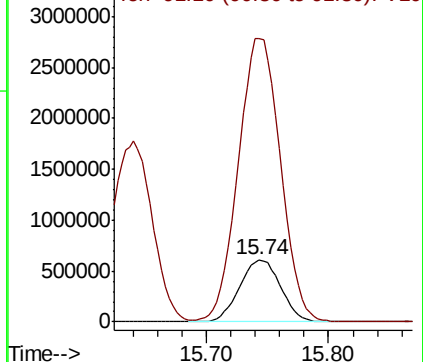
Ion Ratio Lower Upper

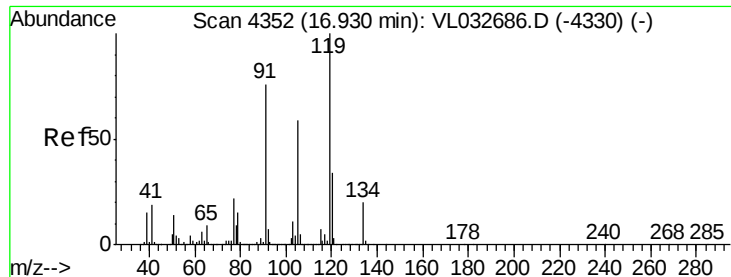
120 100

91 469.9 390.2 585.2



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





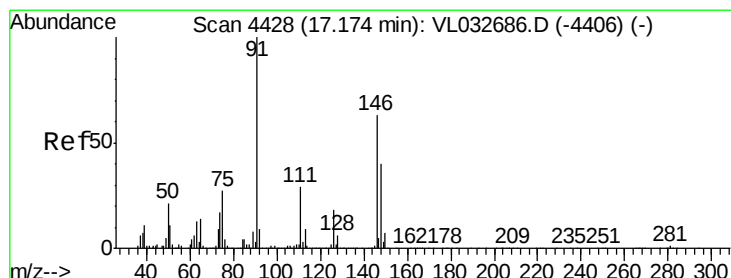
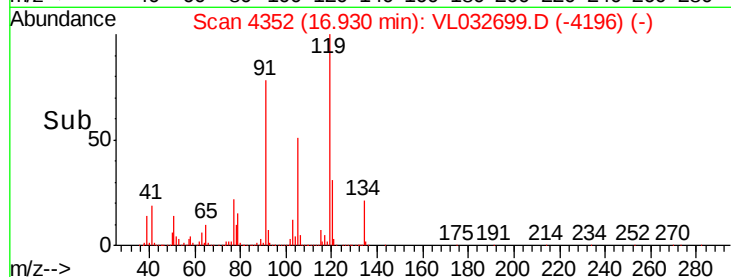
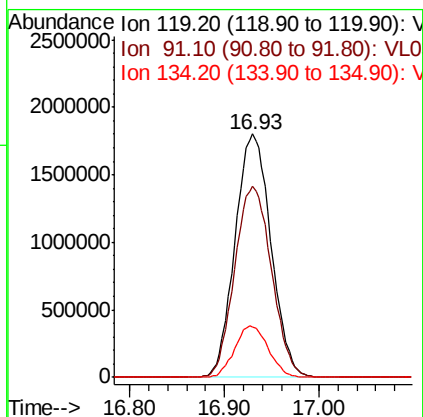
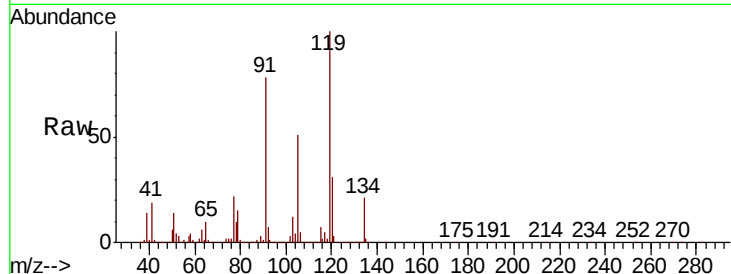
#65
tert-Butylbenzene
Concen: 9.576 ppbv
RT: 16.93 min Scan# 4352
Delta R.T. 0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
91	80.7	67.8	101.8
134	19.9	15.8	23.8

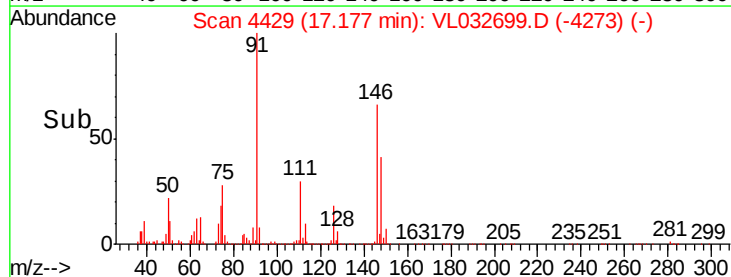
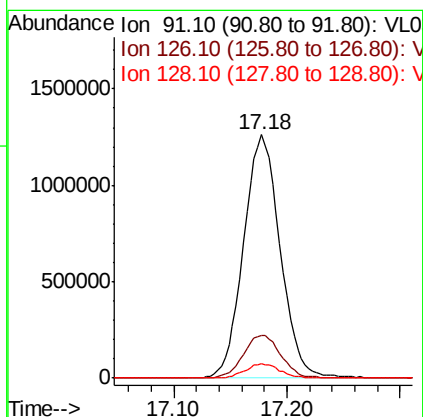
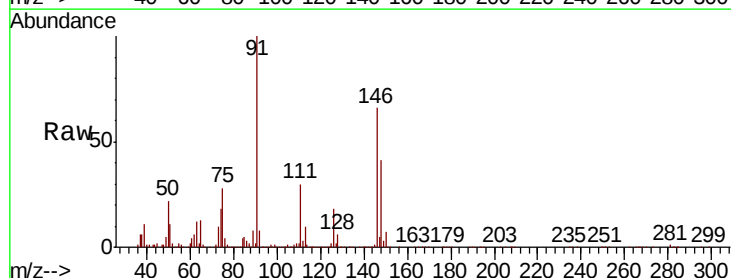
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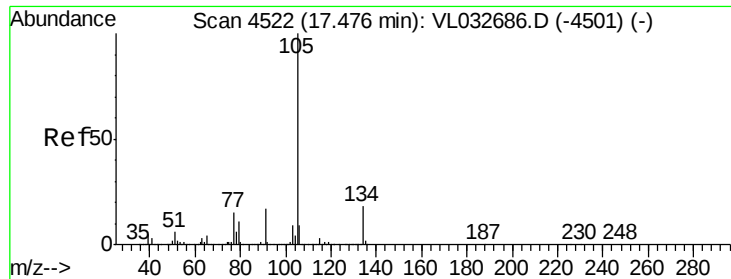
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#66
Benzyl Chloride
Concen: 11.079 ppbv
RT: 17.18 min Scan# 4429
Delta R.T. 0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Tgt Ion	Ratio	Lower	Upper
91	100		
126	18.2	13.9	20.9
128	5.7	4.3	6.5





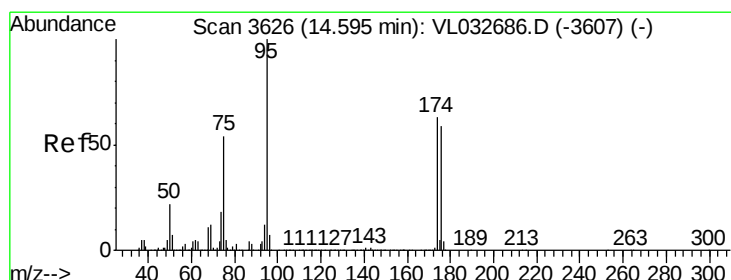
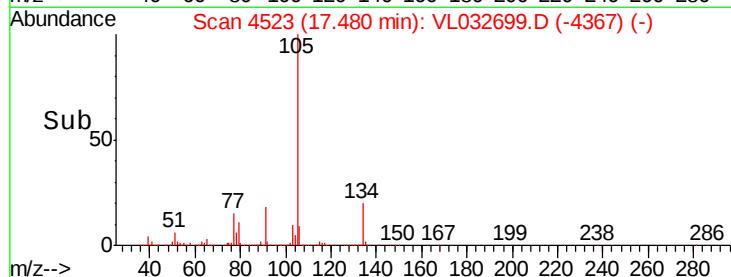
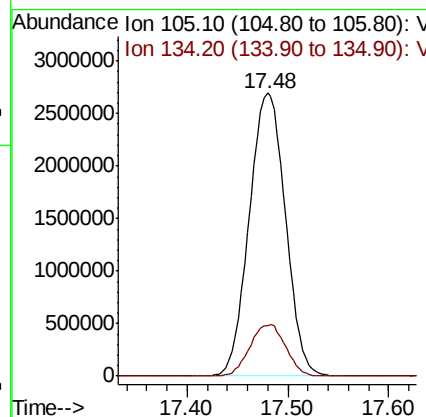
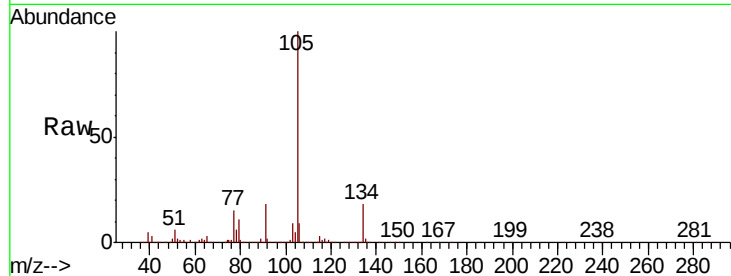
#67
 sec-Butylbenzene
 Concen: 9.507 ppbv
 RT: 17.48 min Scan# 4523
 Delta R.T. 0.00 min
 Lab File: VL032699.D
 Acq: 30 Oct 2018 13:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 105 Resp: 6703211
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.2 21.2

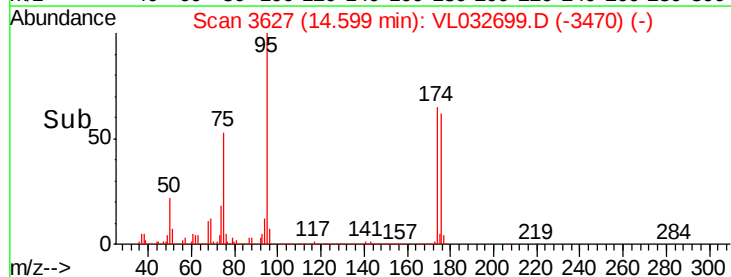
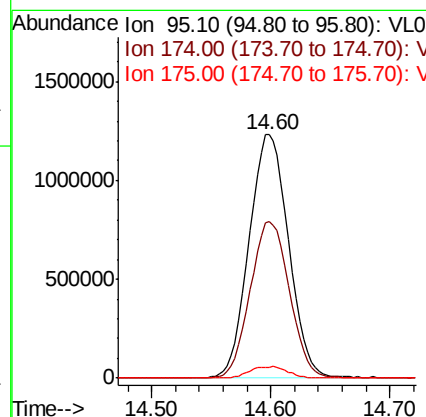
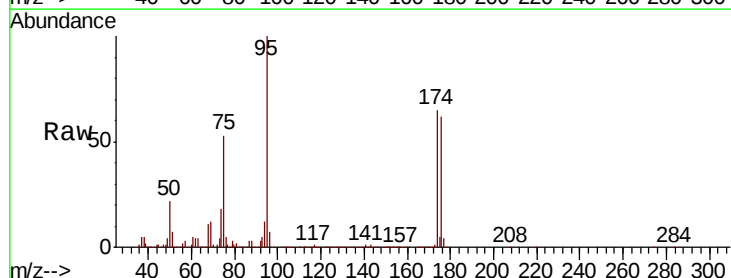
Manual Integrations
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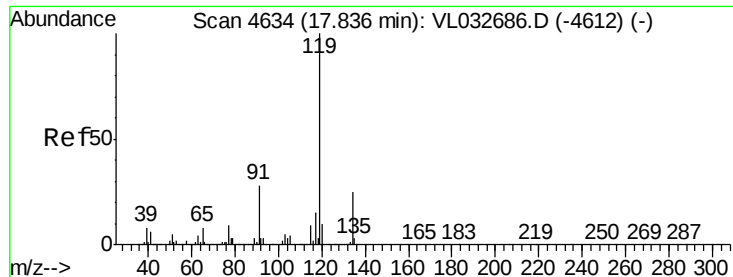
MMDadoda
 10/31/2018 10:39:57 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.209 ppbv
 RT: 14.60 min Scan# 3627
 Delta R.T. 0.01 min
 Lab File: VL032699.D
 Acq: 30 Oct 2018 13:27

Tgt Ion: 95 Resp: 2825941
 Ion Ratio Lower Upper
 95 100
 174 64.3 46.0 69.0
 175 4.7 3.4 5.0





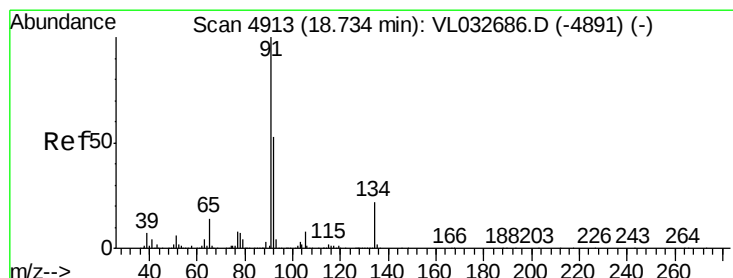
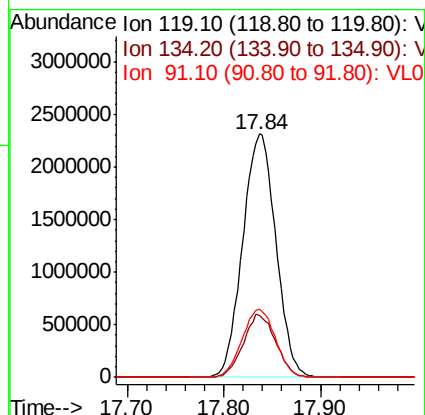
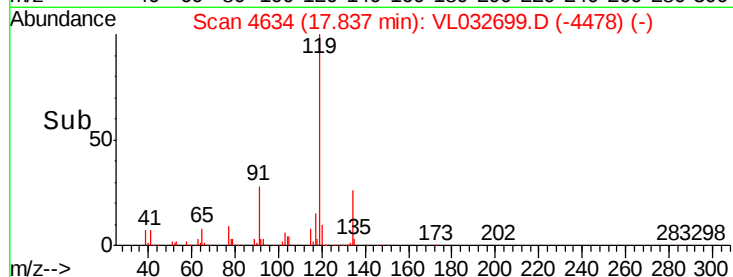
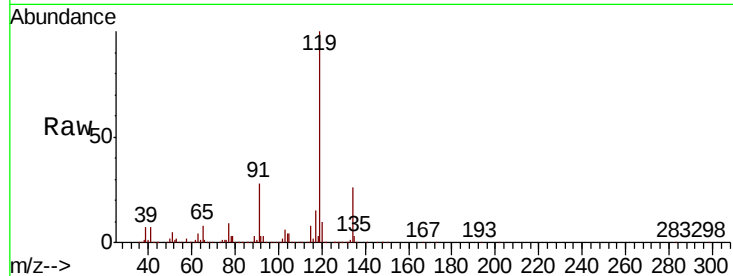
#69
p-Isopropyltoluene
Concen: 9.875 ppbv
RT: 17.84 min Scan# 4634
Delta R.T. 0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.2	30.2
91	28.1	24.0	36.0

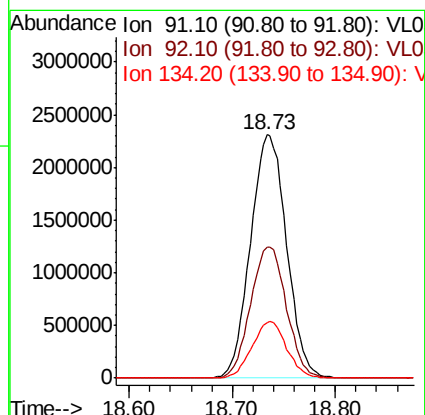
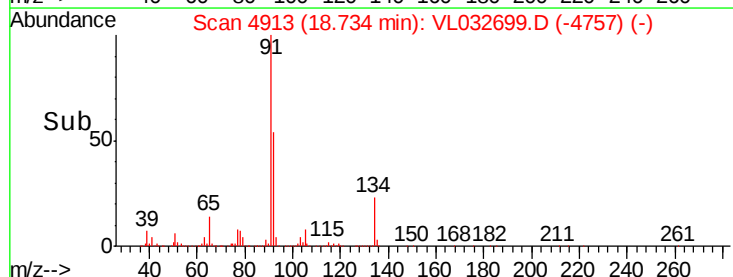
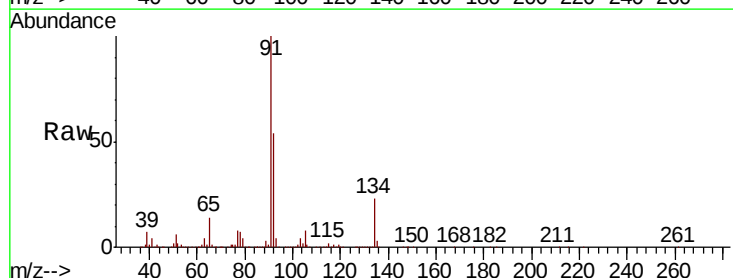
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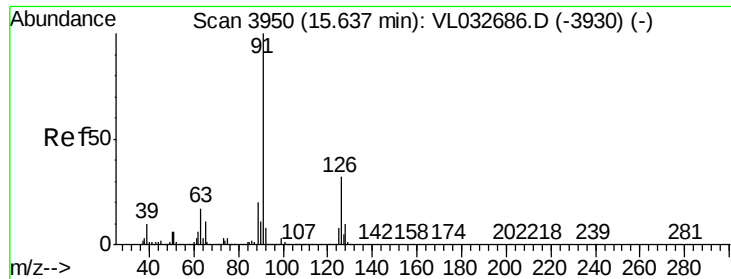
MMDadoda
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#70
n-Butylbenzene
Concen: 9.743 ppbv
RT: 18.73 min Scan# 4913
Delta R.T. 0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.7	43.0	64.4
134	22.5	17.0	25.6





#71

2-Chlorotoluene

Concen: 9.919 ppbv

RT: 15.64 min Scan# 3951

Delta R.T. 0.01 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 4103326

Ion Ratio Lower Upper

91 100

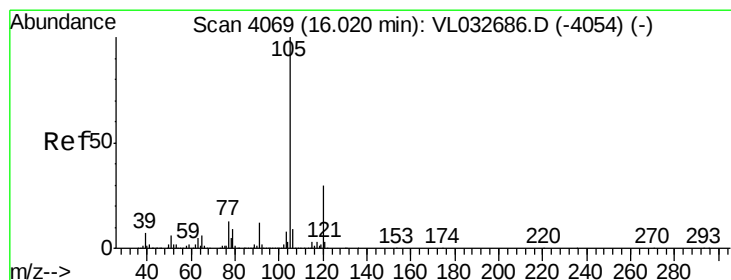
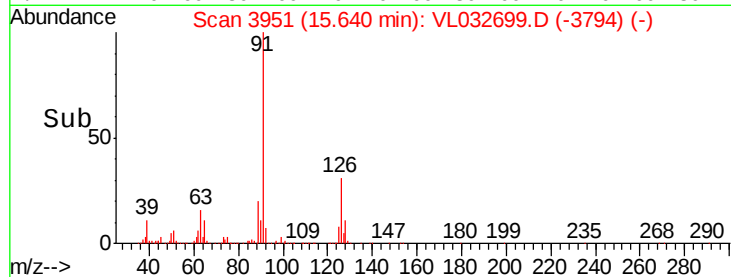
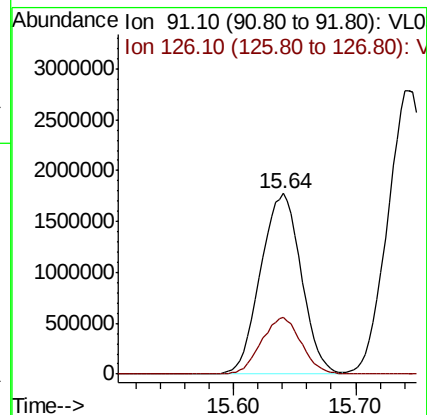
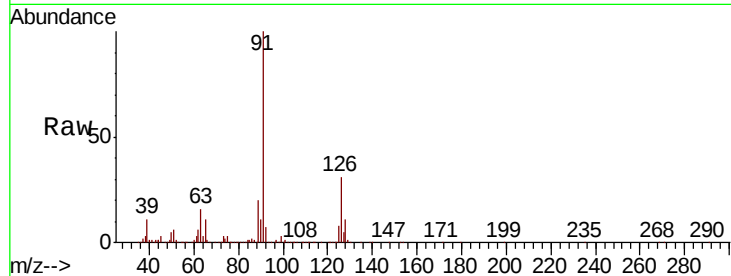
126 30.8 11.8 47.4

Manual Integrations

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#72

4-Ethyltoluene

Concen: 10.219 ppbv

RT: 16.02 min Scan# 4070

Delta R.T. 0.01 min

Lab File: VL032699.D

Acq: 30 Oct 2018 13:27

Tgt Ion: 105 Resp: 4476394

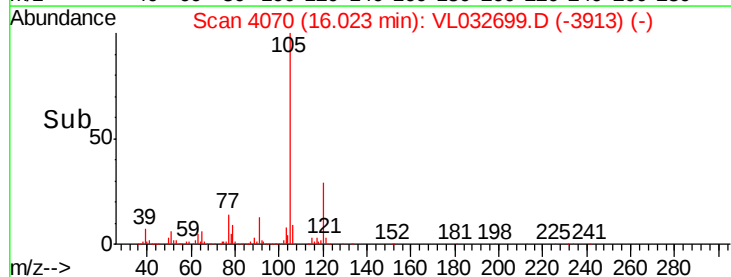
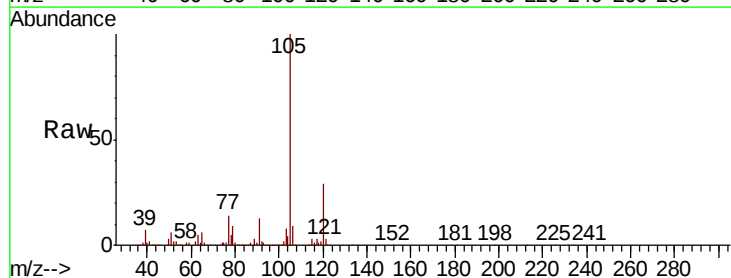
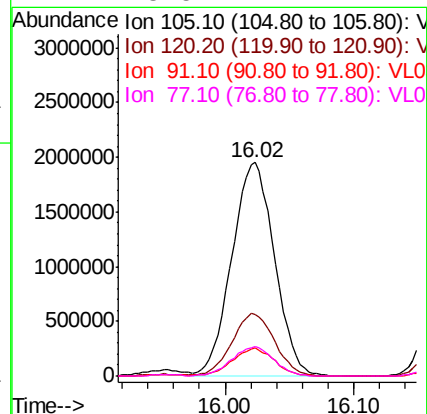
Ion Ratio Lower Upper

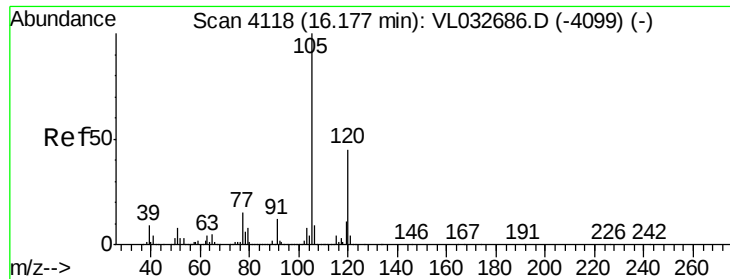
105 100

120 29.1 23.7 35.5

91 12.7 10.4 15.6

77 13.5 11.4 17.2





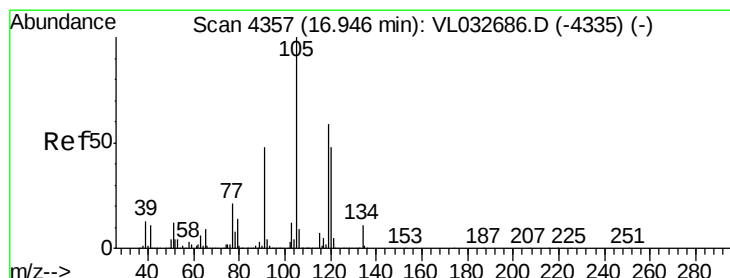
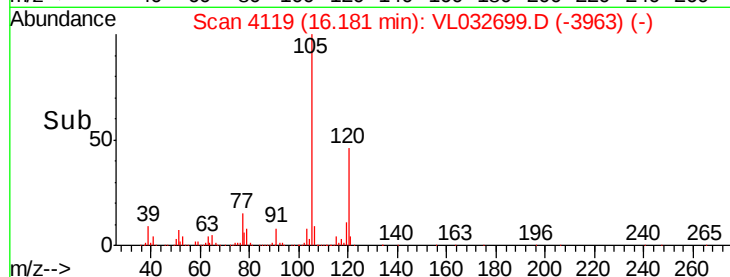
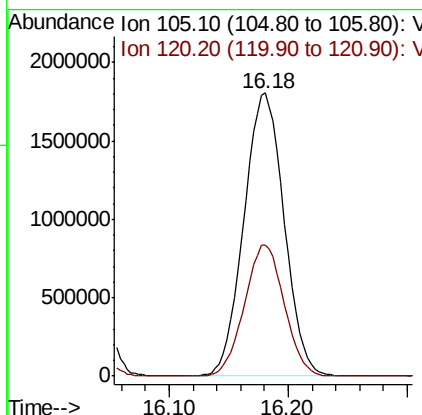
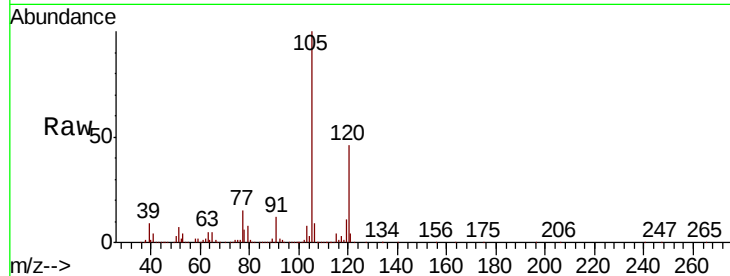
#73
 1,3,5-Trimethylbenzene
 Concen: 9.845 ppbv
 RT: 16.18 min Scan# 4119
 Delta R.T. 0.00 min
 Lab File: VL032699.D
 Acq: 30 Oct 2018 13:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:105 Resp: 4200680
 Ion Ratio Lower Upper
 105 100
 120 46.5 35.4 53.2

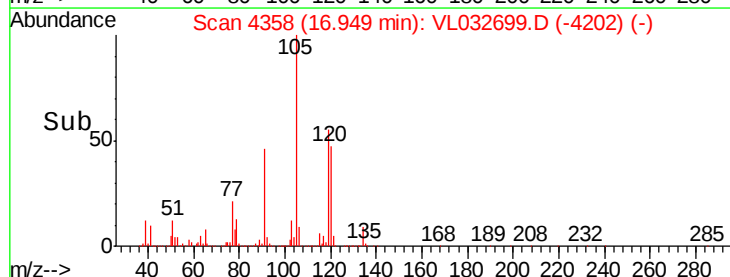
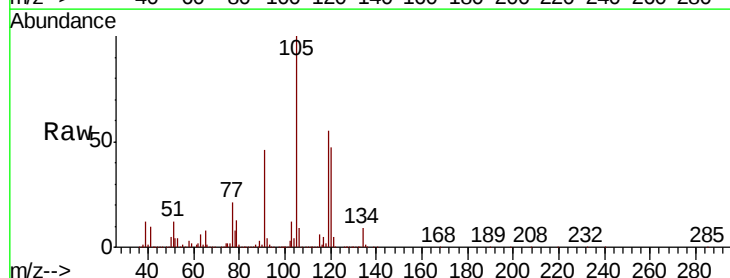
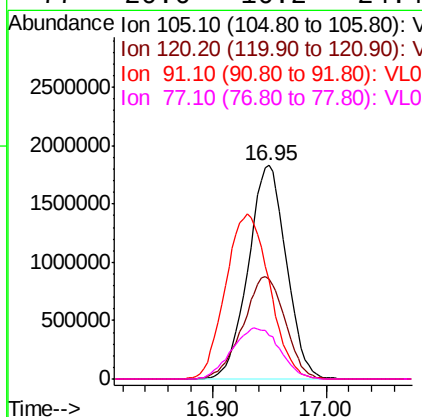
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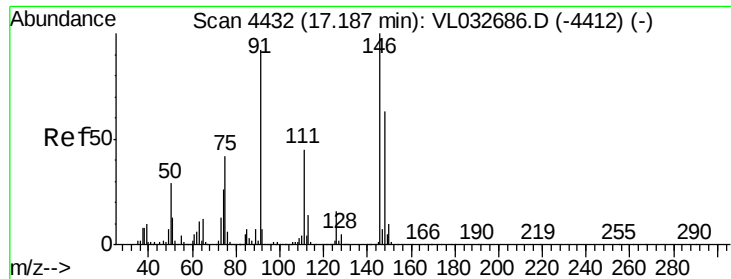
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#74
 1,2,4-Trimethylbenzene
 Concen: 9.383 ppbv
 RT: 16.95 min Scan# 4358
 Delta R.T. 0.00 min
 Lab File: VL032699.D
 Acq: 30 Oct 2018 13:27

Tgt Ion:105 Resp: 4275479
 Ion Ratio Lower Upper
 105 100
 120 46.8 35.8 53.8
 91 46.0 33.2 49.8
 77 20.6 16.2 24.4





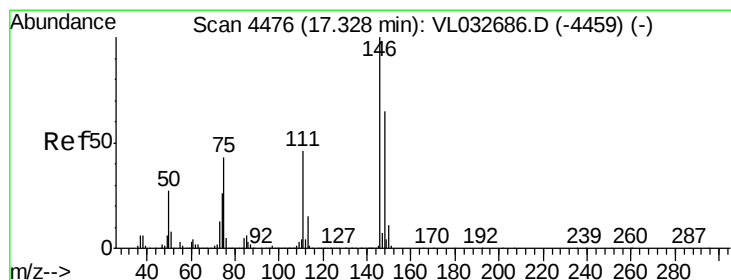
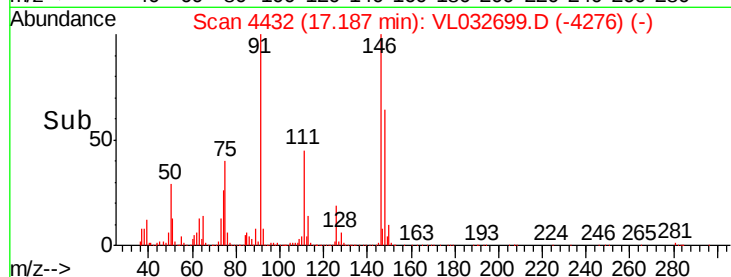
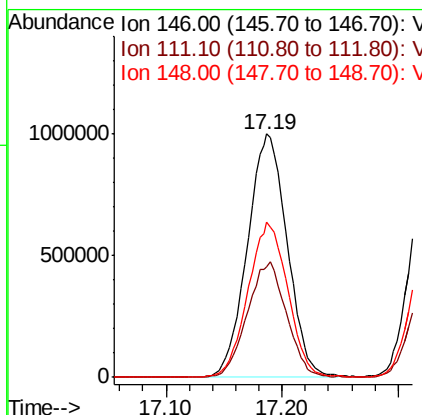
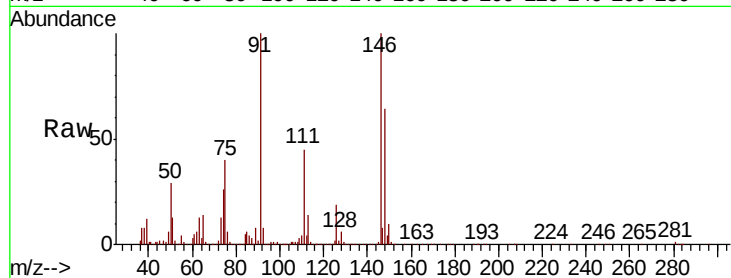
#75
 1,3-Dichlorobenzene
 Concen: 9.090 ppbv
 RT: 17.19 min Scan# 4432
 Delta R.T. 0.00 min
 Lab File: VL032699.D
 Acq: 30 Oct 2018 13:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.8	24.4	73.2
148	63.9	31.9	95.9

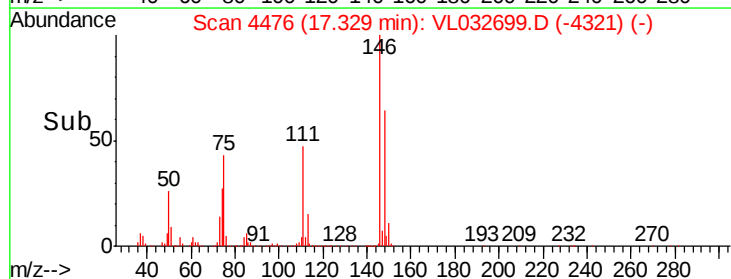
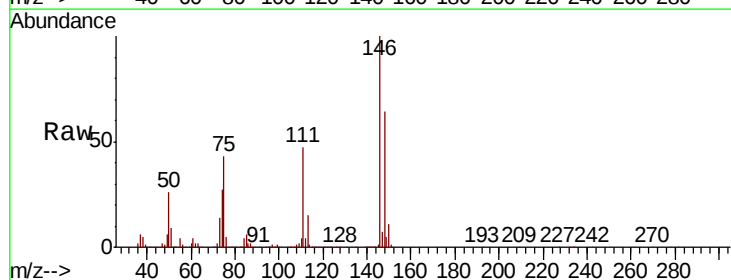
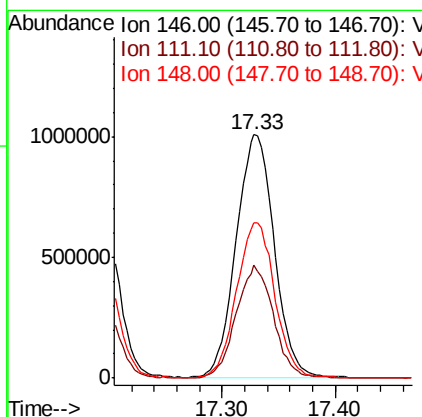
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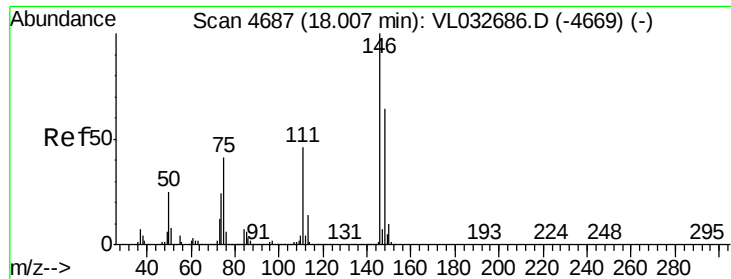
MMDadoda
 10/31/2018 10:39:57 AM



#76
 1,4-Dichlorobenzene
 Concen: 9.710 ppbv
 RT: 17.33 min Scan# 4476
 Delta R.T. -0.00 min
 Lab File: VL032699.D
 Acq: 30 Oct 2018 13:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.4	23.7	71.1
148	64.7	32.1	96.3





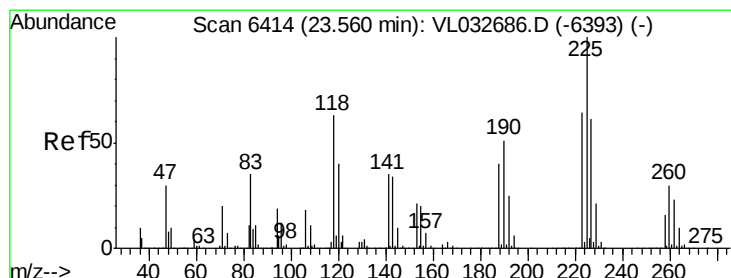
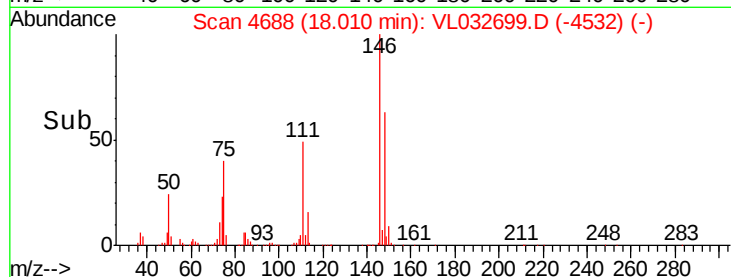
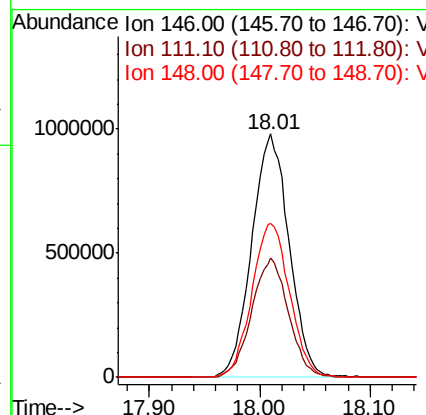
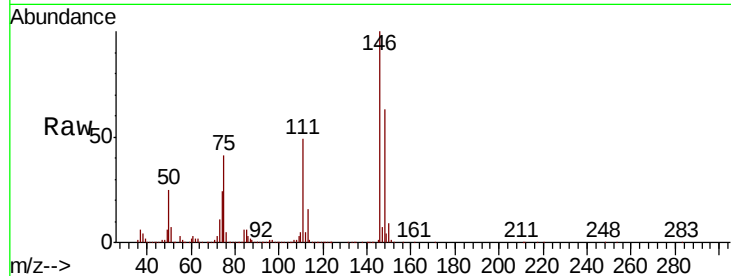
#77
 1,2-Dichlorobenzene
 Concen: 9.282 ppbv
 RT: 18.01 min Scan# 4688
 Delta R.T. 0.00 min
 Lab File: VL032699.D
 Acq: 30 Oct 2018 13:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.2	25.3	75.8
148	64.0	31.9	95.9

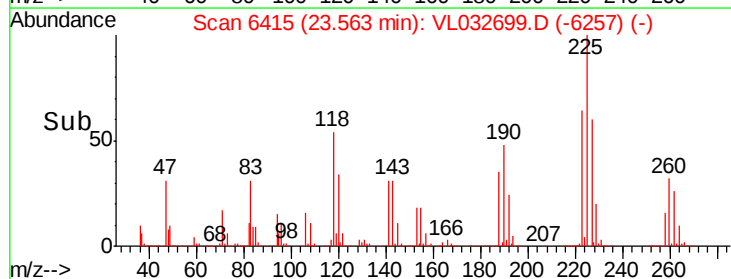
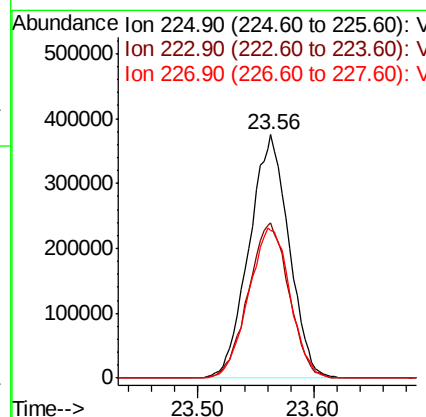
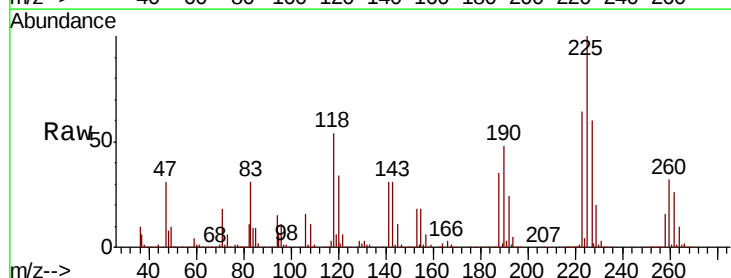
Manual Integrations
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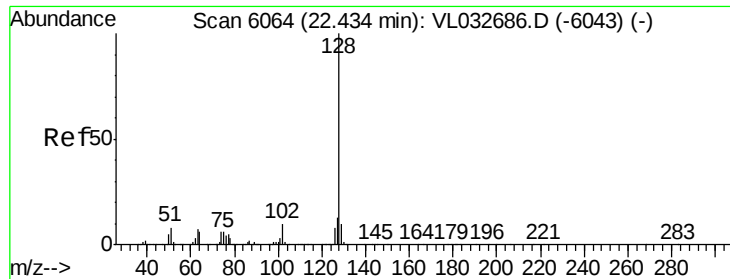
MMDadoda
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#78
 Hexachloro-1,3-Butadiene
 Concen: 7.640 ppbv
 RT: 23.56 min Scan# 6415
 Delta R.T. 0.01 min
 Lab File: VL032699.D
 Acq: 30 Oct 2018 13:27

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.2	50.7	76.1
227	64.2	50.7	76.1





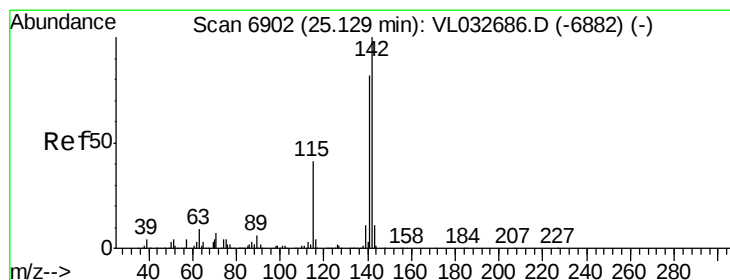
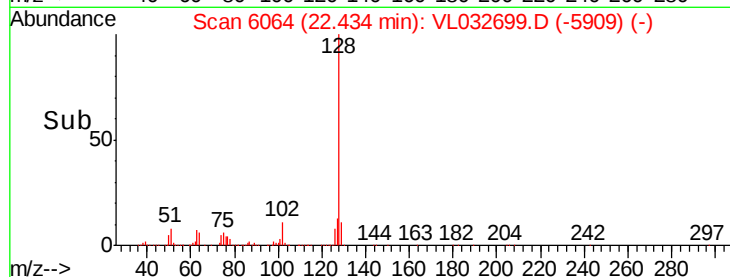
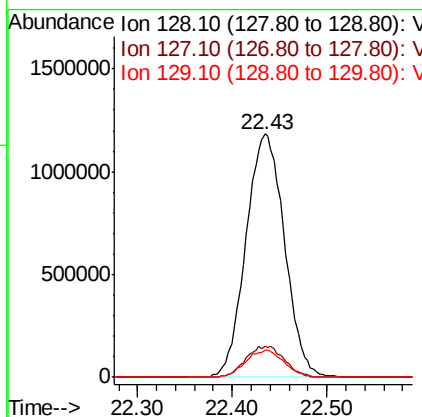
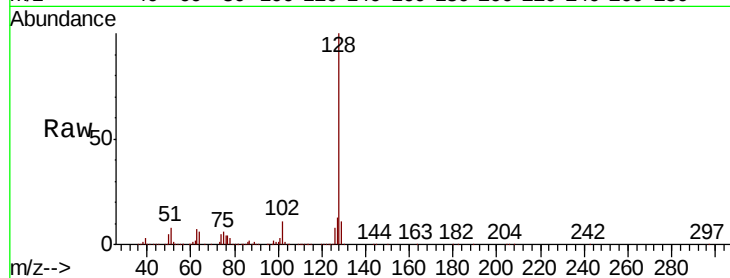
#79
Naphthalene
Concen: 11.811 ppbv
RT: 22.43 min Scan# 6064
Delta R.T. -0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	11.0	8.6	13.0

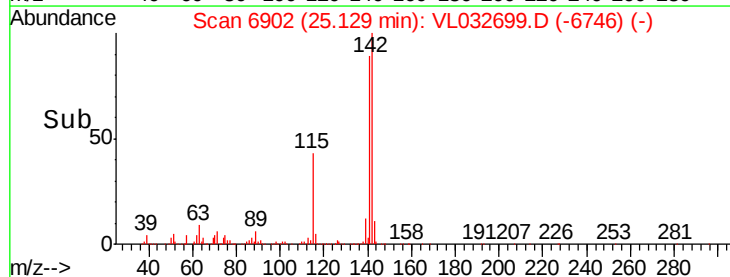
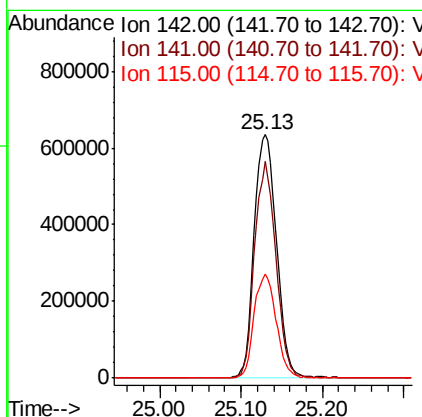
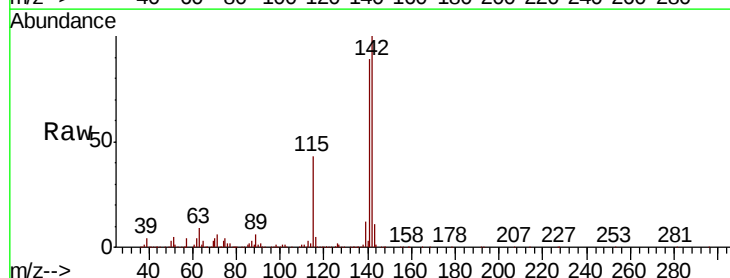
Manual Integrations
APPROVED

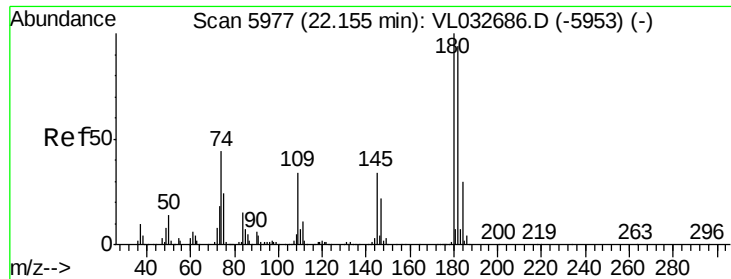
MMDadoda
10/31/2018 10:39:57 AM



#80
Naphthalene, 2-methyl-
Concen: 17.224 ppbv
RT: 25.13 min Scan# 6902
Delta R.T. 0.00 min
Lab File: VL032699.D
Acq: 30 Oct 2018 13:27

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.1	67.5	101.3
115	42.4	33.5	50.3





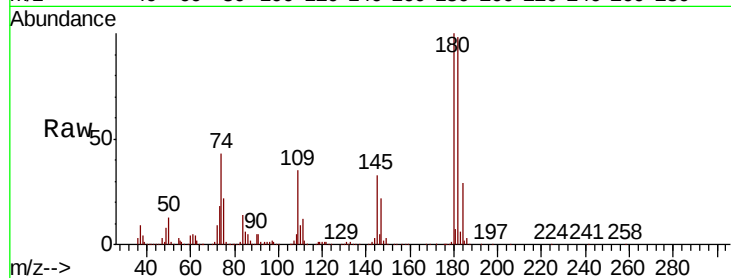
#81
 1,2,4-Trichlorobenzene
 Concen: 11.113 ppbv
 RT: 22.16 min Scan# 5979
 Delta R.T. 0.01 min
 Lab File: VL032699.D
 Acq: 30 Oct 2018 13:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.6	76.5	114.7
184	30.6	24.7	37.1

Manual Integrations
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MMDadoda
 10/31/2018 10:39:57 AM



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

