

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111418\
 Data File : VL032771.D
 Acq On : 14 Nov 2018 23:02
 Operator : SY/AP
 Sample : VL1114ABS03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS03

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:30:14 PM

Quant Time: Nov 15 07:20:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:20:22 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1587079	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3969783	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3893192m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2845672	9.77	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1985795	8.704	ppbv	99
3) Chlorodifluoromethane	3.02	51	1156105	9.188	ppbv	98
4) Chloromethane	3.18	50	627629	8.996	ppbv	100
5) Vinyl Chloride	3.30	62	645589	8.733	ppbv	95
6) Bromomethane	3.52	94	411920	9.108	ppbv	94
7) Chloroethane	3.61	64	245254	9.204	ppbv	98
8) Dichlorotetrafluoroethane	3.23	85	1555546	8.653	ppbv	99
9) Propene	3.04	41	494965	9.830	ppbv	100
10) Heptane	8.25	43	1910310	9.937	ppbv	98
11) Trichlorofluoromethane	4.01	101	2612276	12.150	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1491220	8.492	ppbv	100
13) Ethanol	3.66	45	116773	7.080	ppbv	98
14) Bromoethene	3.80	108	541362	9.292	ppbv	100
15) Acetone	3.91	43	1121776	7.740	ppbv	100
16) 1,3-Butadiene	3.37	39	504118	8.982	ppbv	87
17) tert-Butyl alcohol	4.37	59	453436	9.975	ppbv	99
18) 1,1-Dichloroethene	4.36	96	833758	9.655	ppbv	99
19) Isopropyl Alcohol	4.03	45	1233354	12.774	ppbv	100
20) Methylene Chloride	4.42	84	702568	9.363	ppbv	97
21) Allyl Chloride	4.48	41	1332014	10.936	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	758027	8.990	ppbv	99
23) Vinyl Acetate	5.16	43	2680818	10.147	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1969693	9.378	ppbv	100
25) Ethyl Acetate	5.78	43	3194315	9.456	ppbv	100
26) Hexane	5.79	57	1469331	9.771	ppbv	99
27) Carbon Disulfide	4.63	76	1950277	10.228	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2441486	10.181	ppbv	99
29) Chloroform	5.86	83	2403016	8.966	ppbv	99
30) Cyclohexane	7.25	84	1310980	9.968	ppbv	99
31) cis-1,2-Dichloroethene	5.65	61	1530005	10.120	ppbv	98
32) 1,1,1-Trichloroethane	6.63	97	2581344	8.787	ppbv	100
34) 2-Butanone	5.34	43	2071703	10.062	ppbv	100
35) Carbon Tetrachloride	7.14	117	2789018	8.739	ppbv	98
36) Benzene	7.01	78	3134393	9.915	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1989221	9.348	ppbv	100
38) Trichloroethene	7.97	130	1237175	9.671	ppbv	99
39) 1,2-Dichloropropane	7.74	63	1186152	9.848	ppbv	98
40) 1,4-Dioxane	7.97	88	425467	9.890	ppbv	92
41) Tetrahydrofuran	6.16	42	1241469	10.512	ppbv	99
42) Bromodichloromethane	7.92	83	2731322	9.468	ppbv	97
43) Methyl Methacrylate	8.15	69	1256258	10.645	ppbv	99

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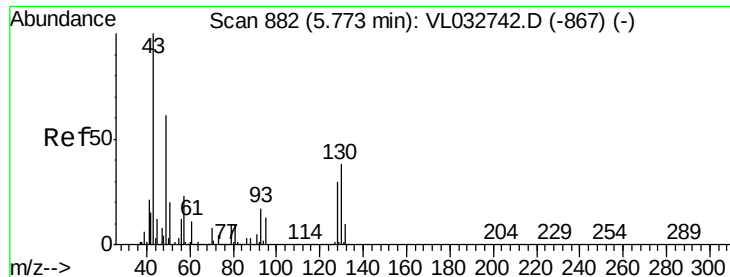
Manual Integrations
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 11/16/2018 1:30:14 PM

Quant Time: Nov 15 07:20:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:20:22 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5183464	9.812	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1820083	11.493	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	2107854	11.017	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	1367945	9.605	ppbv	98
48) Dibromochloromethane	10.46	129	2284552	9.438	ppbv	99
49) Bromoform	13.21	173	1848215	9.245	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	3220203	10.013	ppbv	100
51) 2-Hexanone	10.28	43	2260878	10.912	ppbv	100
52) Tetrachloroethene	11.38	164	1081132	9.831	ppbv	97
53) Toluene	9.96	91	3568833	10.822	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1966145	9.766	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1594617	8.782	ppbv	99
57) Chlorobenzene	12.31	112	2637628	8.850	ppbv	97
58) Ethyl Benzene	12.87	91	4742418	10.122	ppbv	98
59) m/p-Xylene	13.13	91	7820150m	18.749	ppbv	
60) o-Xylene	13.86	91	3814527	9.095	ppbv	100
61) Styrene	13.69	104	2864631	10.493	ppbv	100
62) Isopropylbenzene	14.83	105	5326222	9.396	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2560378	7.832	ppbv	100
64) n-propylbenzene	15.73	120	1332841	8.939	ppbv	98
65) tert-Butylbenzene	16.92	119	4568539	8.990	ppbv	100
66) Benzyl Chloride	17.16	91	2632097	9.369	ppbv	100
67) sec-Butylbenzene	17.46	105	6485912	8.856	ppbv	100
69) p-Isopropyltoluene	17.82	119	5356304	9.199	ppbv	100
70) n-Butylbenzene	18.72	91	5504640	9.310	ppbv	100
71) 2-Chlorotoluene	15.62	91	3960317	9.368	ppbv	99
72) 4-Ethyltoluene	16.01	105	4293755	9.341	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	4082067	9.082	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	4165748	8.661	ppbv	98
75) 1,3-Dichlorobenzene	17.17	146	2344376	8.498	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2327505	9.032	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2291881	8.980	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1289540	9.362	ppbv	99
79) Naphthalene	22.42	128	3998874	12.657	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	938896	11.865	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1869060	11.780	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS03

Tot Ion: 49 Resp: 1587079

Ion Ratio Lower Upper

49 100

128 49.5 24.9 74.6

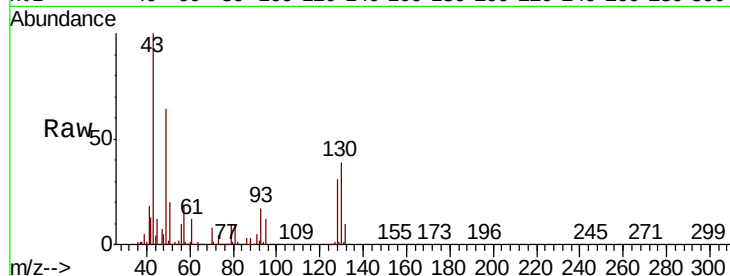
130 63.1 31.4 94.2

Manual Integrations

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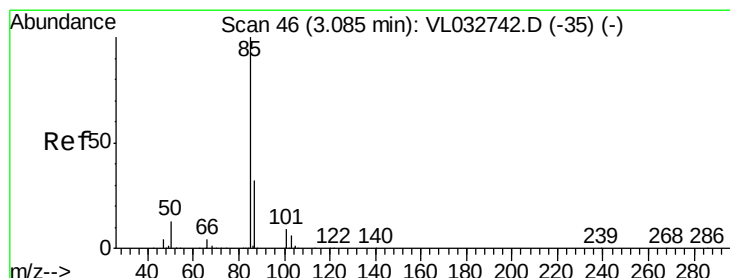
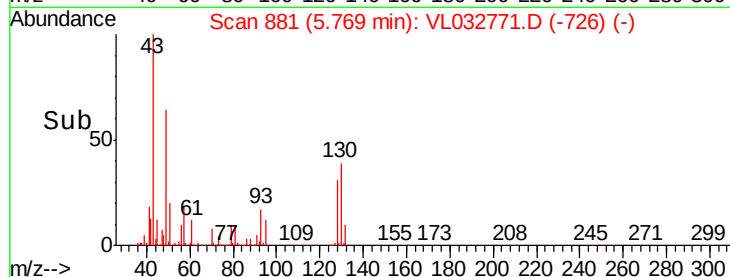
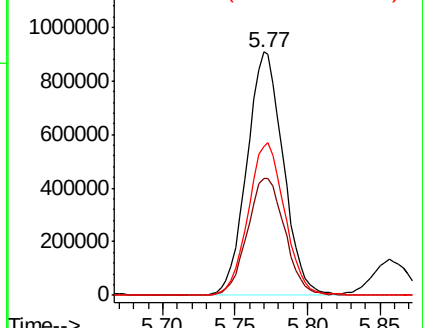
11/16/2018 1:30:14 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 8.704 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032771.D

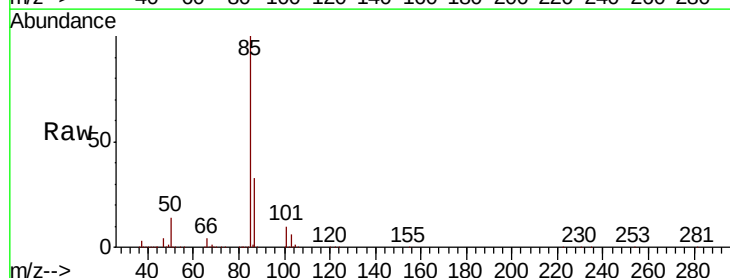
Acq: 14 Nov 2018 23:02

Tgt Ion: 85 Resp: 1985795

Ion Ratio Lower Upper

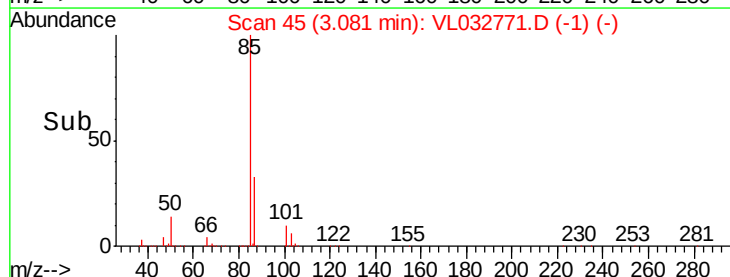
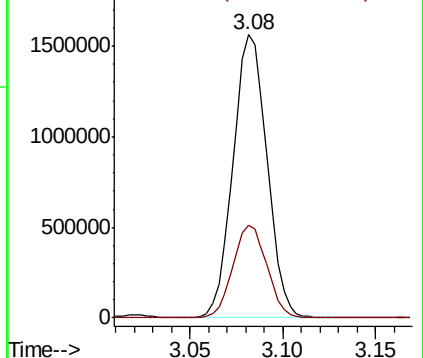
85 100

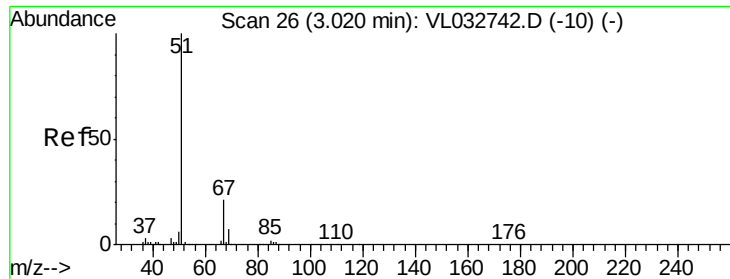
87 32.8 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.188 ppbv

RT: 3.02 min Scan# 26

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

Tot Ion: 51 Resp: 1156105

Ion Ratio Lower Upper

51 100

67 19.2 16.1 24.1

Instrument :

MSVOA_L

ClientSampleId :

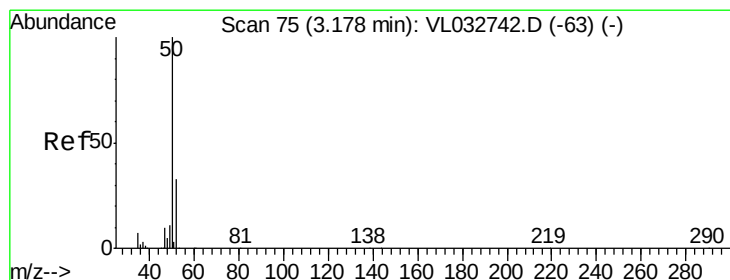
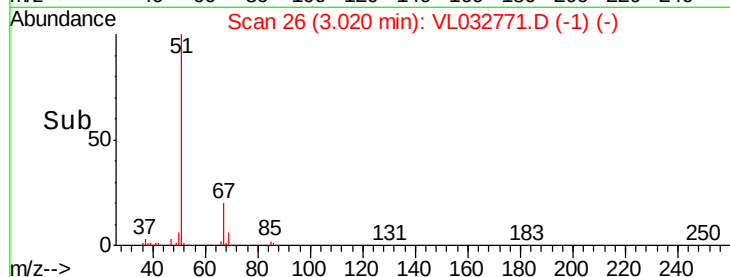
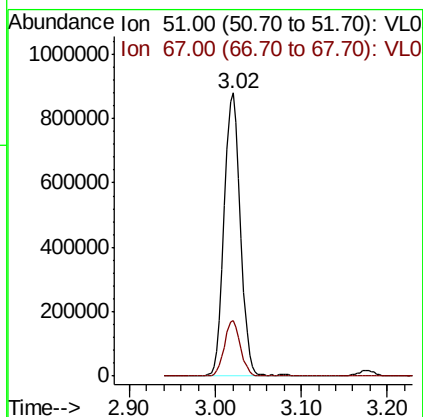
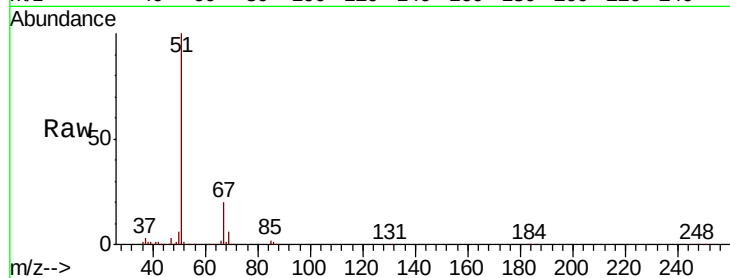
VL1114ABS03

Manual Integrations

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#4

Chloromethane

Concen: 8.996 ppbv

RT: 3.18 min Scan# 75

Delta R.T. -0.00 min

Lab File: VL032771.D

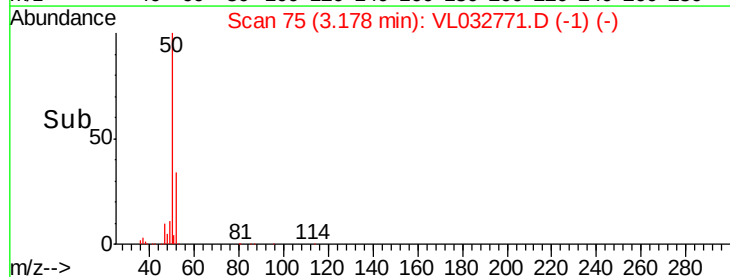
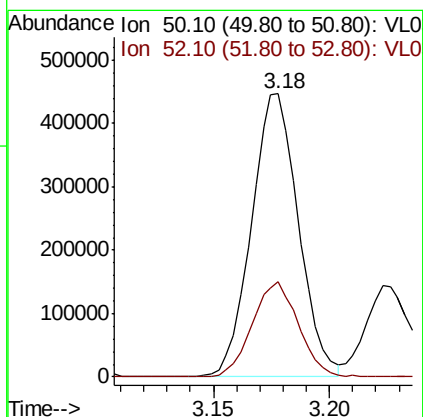
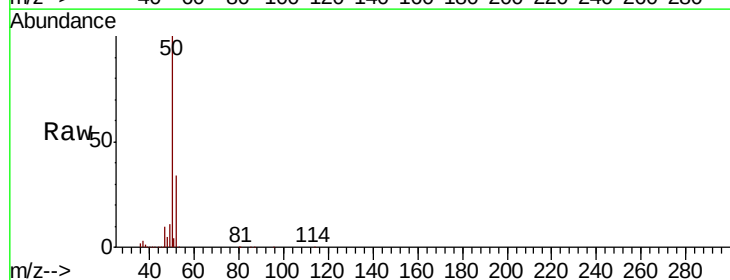
Acq: 14 Nov 2018 23:02

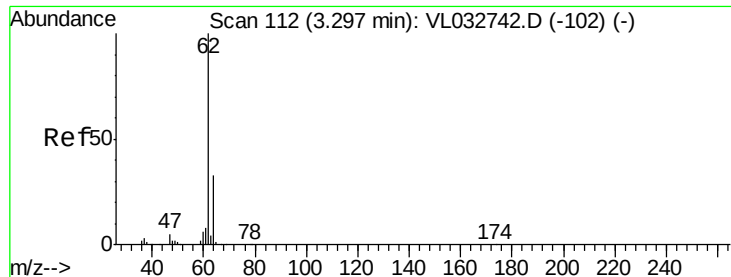
Tgt Ion: 50 Resp: 627629

Ion Ratio Lower Upper

50 100

52 33.6 26.6 40.0





#5

Vinyl Chloride

Concen: 8.733 ppbv

RT: 3.30 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS03

Tot Ion: 62 Resp: 645589

Ion Ratio Lower Upper

62 100

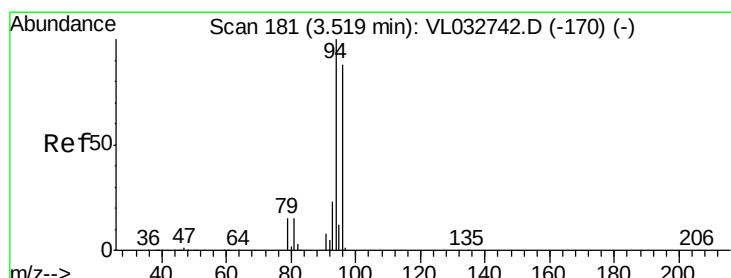
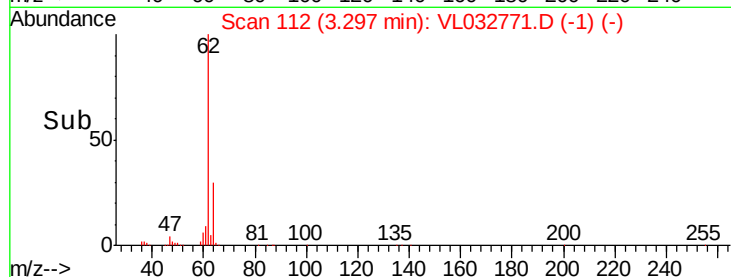
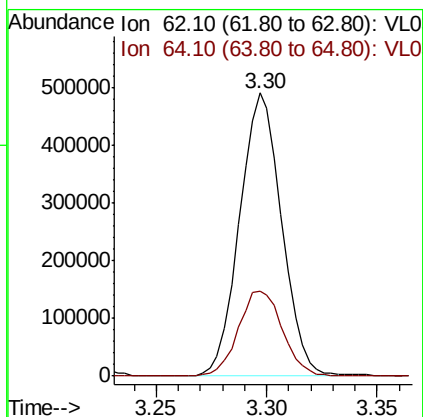
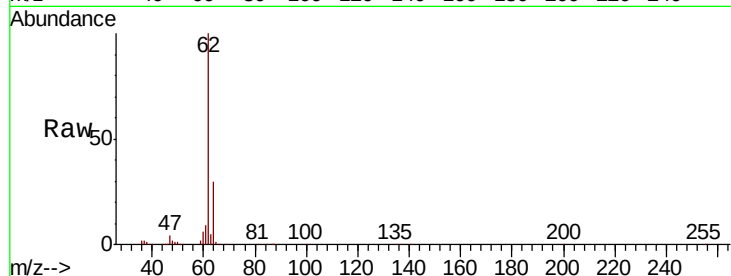
64 29.9 26.2 39.4

Manual Integrations

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#6

Bromomethane

Concen: 9.108 ppbv

RT: 3.52 min Scan# 182

Delta R.T. 0.00 min

Lab File: VL032771.D

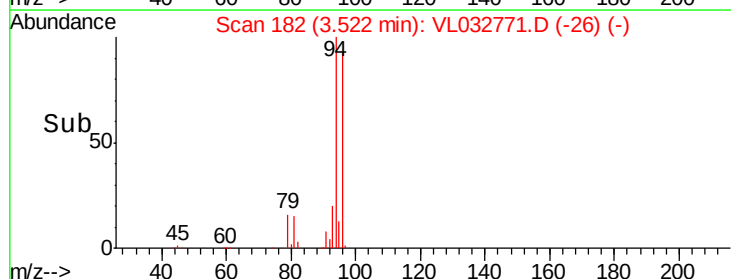
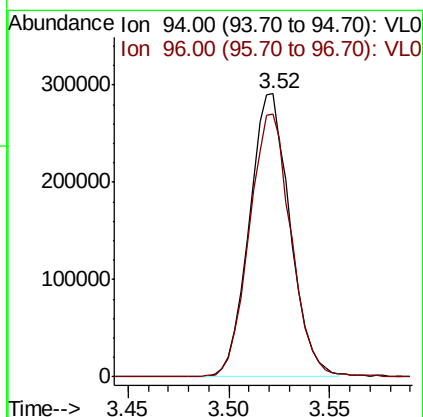
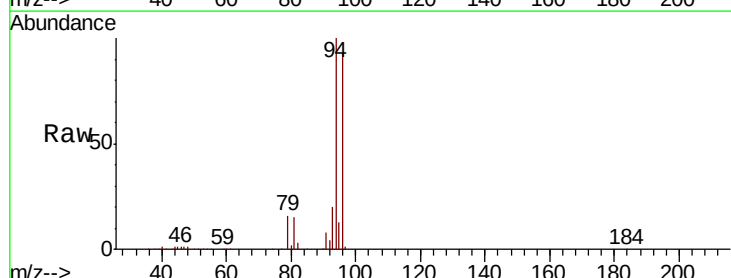
Acq: 14 Nov 2018 23:02

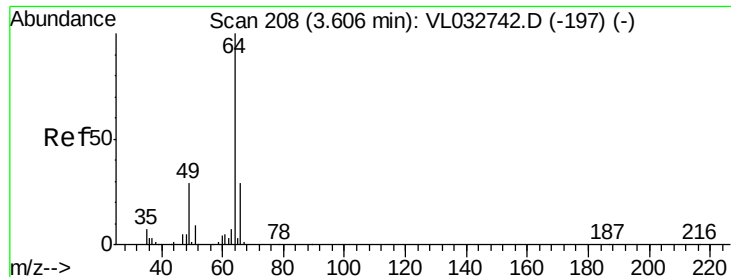
Tgt Ion: 94 Resp: 411920

Ion Ratio Lower Upper

94 100

96 93.1 70.2 105.2





#7

Chloroethane

Concen: 9.204 ppbv

RT: 3.61 min Scan# 209

Delta R.T. 0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS03

Tot Ion: 64 Resp: 245254

Ion Ratio Lower Upper

64 100

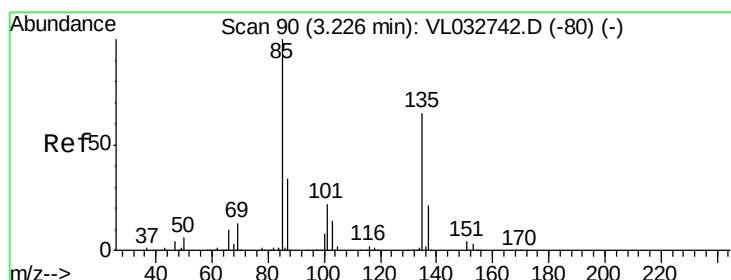
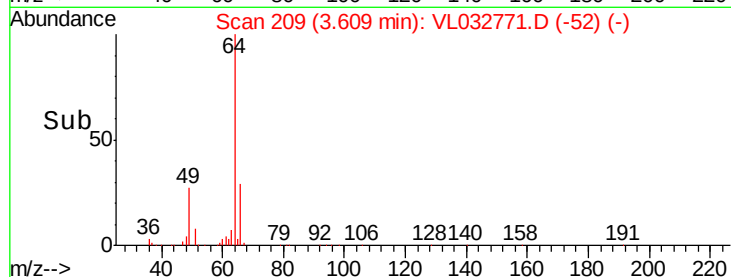
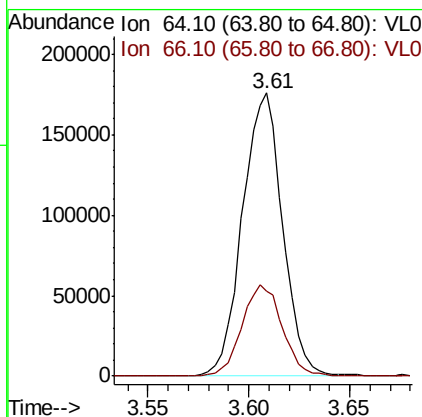
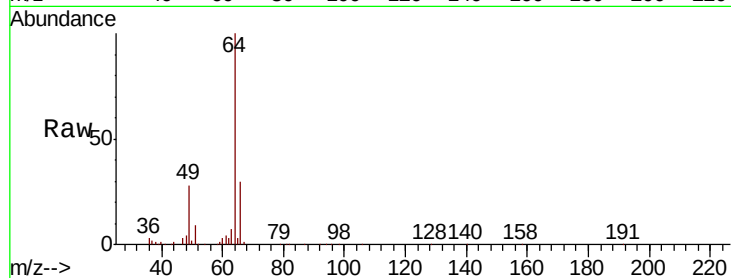
66 30.0 23.2 34.8

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 8.653 ppbv

RT: 3.23 min Scan# 90

Delta R.T. -0.00 min

Lab File: VL032771.D

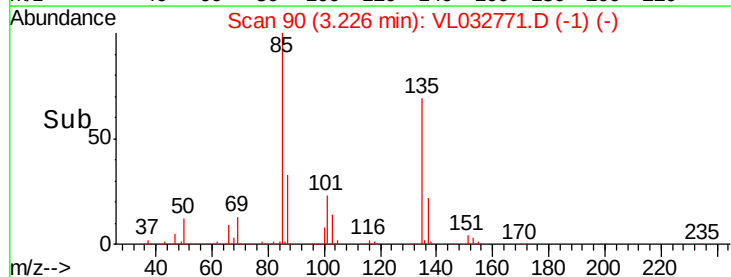
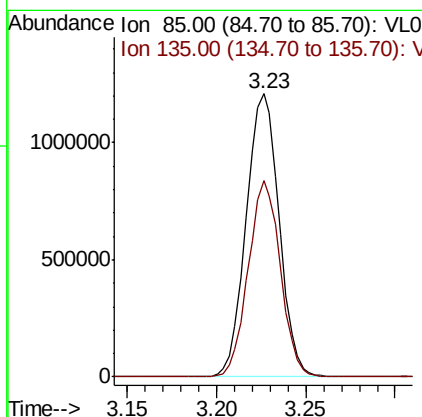
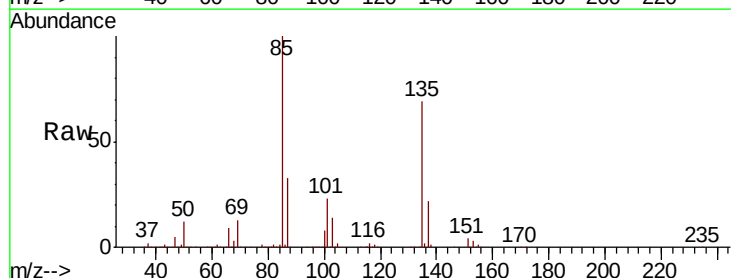
Acq: 14 Nov 2018 23:02

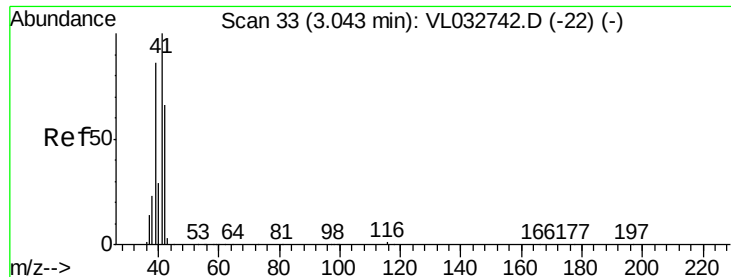
Tgt Ion: 85 Resp: 1555546

Ion Ratio Lower Upper

85 100

135 68.0 53.8 80.8





#9

Propene

Concen: 9.830 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS03

Tot Ion: 41 Resp: 494965

Ion Ratio Lower Upper

41 100

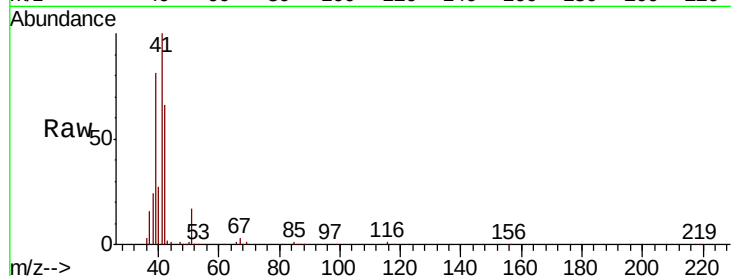
42 68.5 55.0 82.6

Manual Integrations

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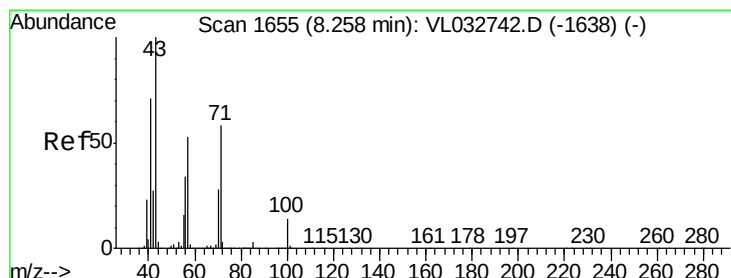
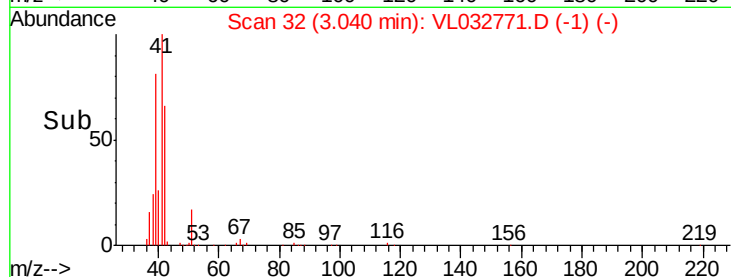
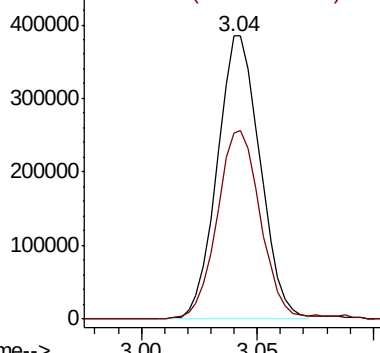
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.937 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VL032771.D

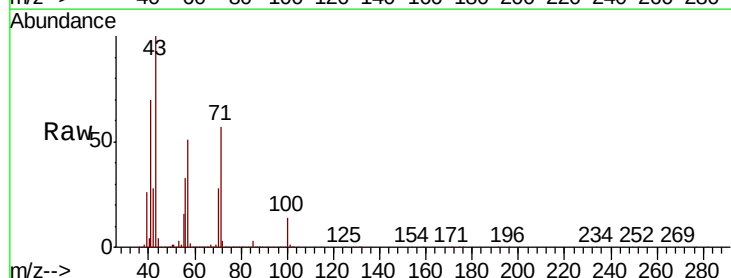
Acq: 14 Nov 2018 23:02

Tgt Ion: 43 Resp: 1910310

Ion Ratio Lower Upper

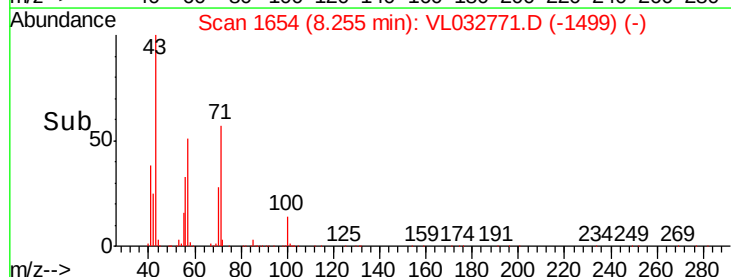
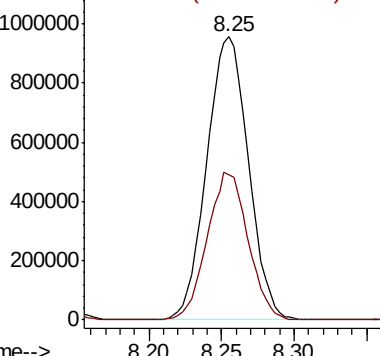
43 100

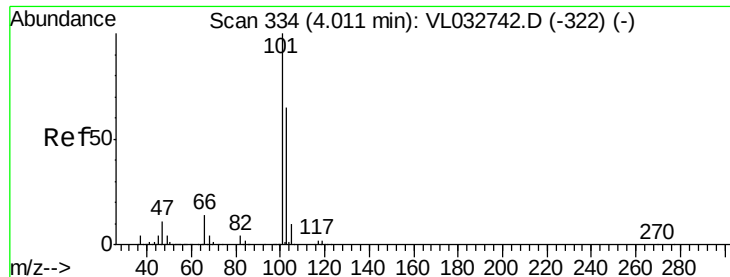
57 51.0 41.8 62.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





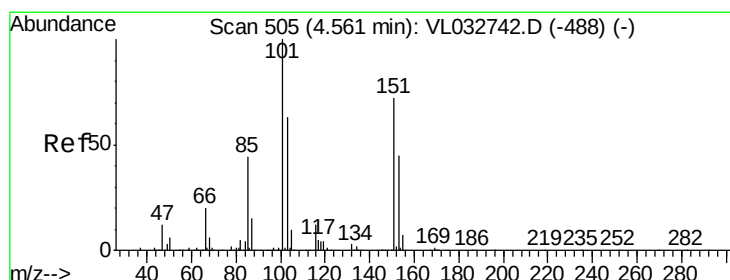
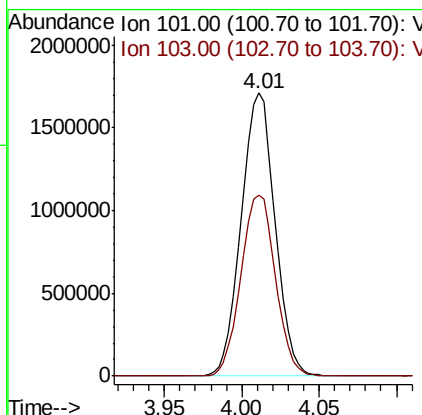
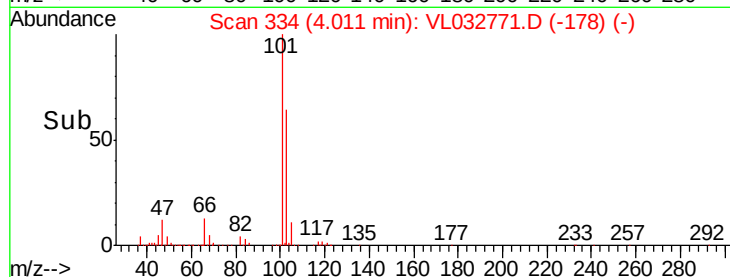
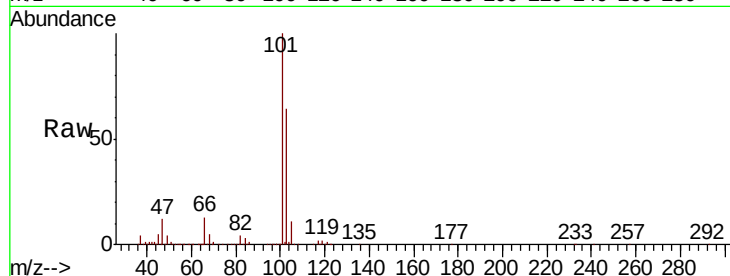
#11
 Trichlorofluoromethane
 Concen: 12.150 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. -0.00 min
 Lab File: VL032771.D
 Acq: 14 Nov 2018 23:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS03

Tot Ion:101 Resp: 2612276
 Ion Ratio Lower Upper
 101 100
 103 63.9 51.6 77.4

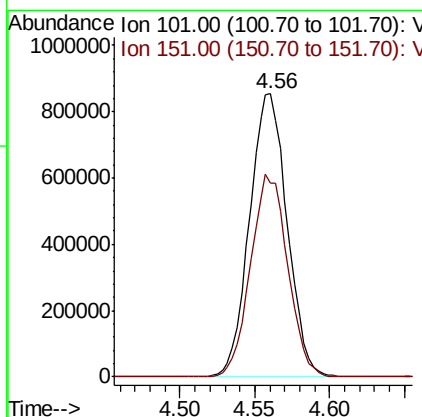
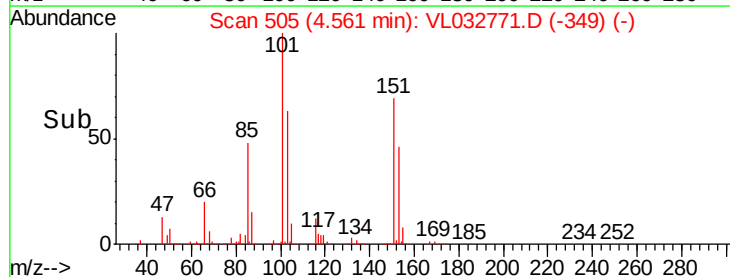
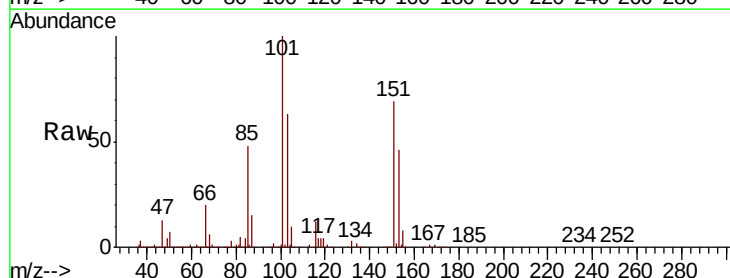
Manual Integrations
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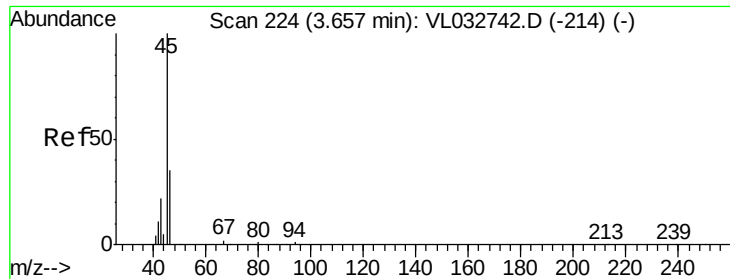
MMDadoda
 11/16/2018 1:30:14 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.492 ppbv
 RT: 4.56 min Scan# 505
 Delta R.T. -0.00 min
 Lab File: VL032771.D
 Acq: 14 Nov 2018 23:02

Tgt Ion:101 Resp: 1491220
 Ion Ratio Lower Upper
 101 100
 151 71.2 56.7 85.1





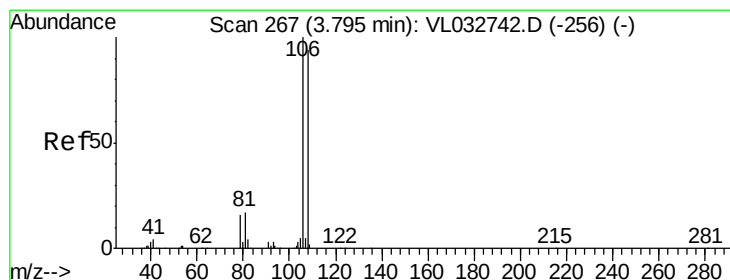
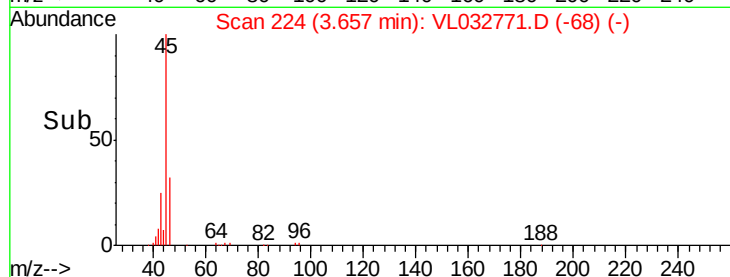
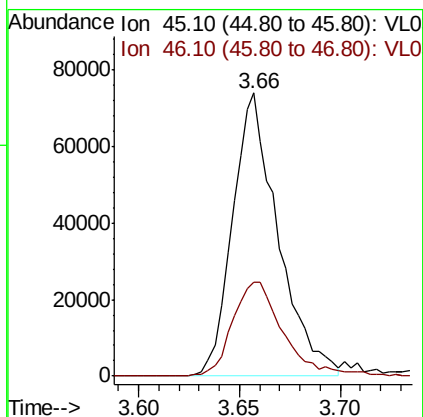
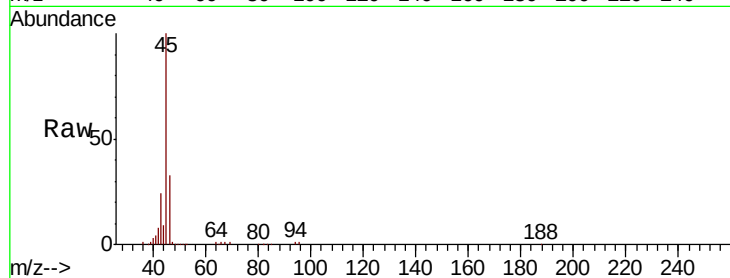
#13
Ethanol
Concen: 7.080 ppbv
RT: 3.66 min Scan# 224
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS03

Tot Ion: 45 Resp: 116773
Ion Ratio Lower Upper
45 100
46 37.2 14.5 57.9

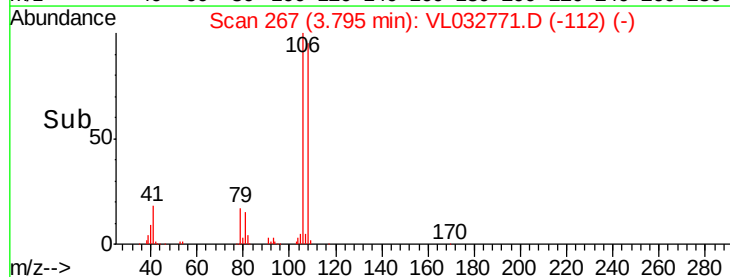
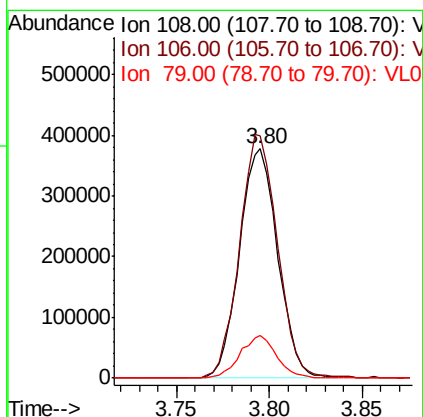
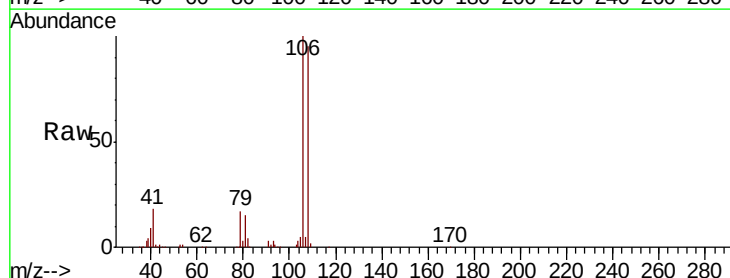
Manual Integrations
APPROVED

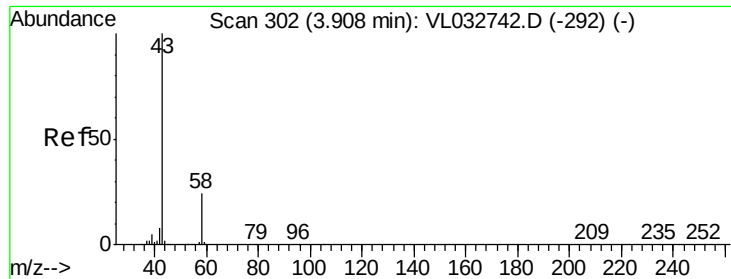
MMDadoda
11/16/2018 1:30:14 PM



#14
Bromoethene
Concen: 9.292 ppbv
RT: 3.80 min Scan# 267
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Tgt Ion: 108 Resp: 541362
Ion Ratio Lower Upper
108 100
106 105.9 84.9 127.3
79 17.8 14.2 21.4





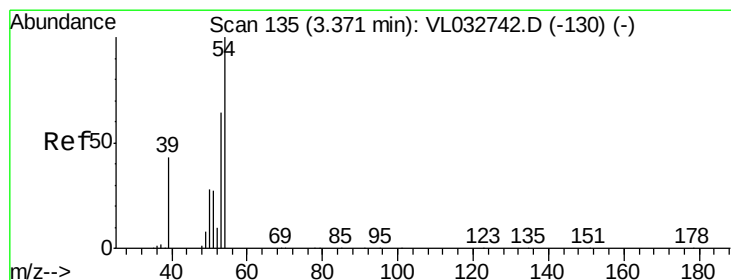
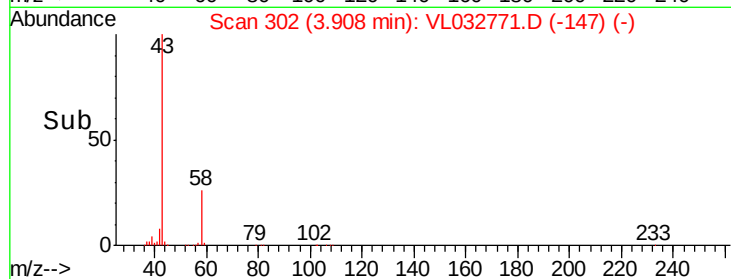
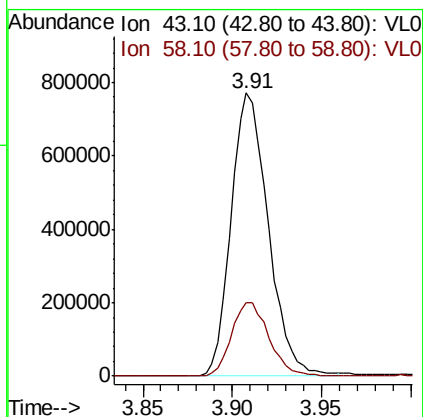
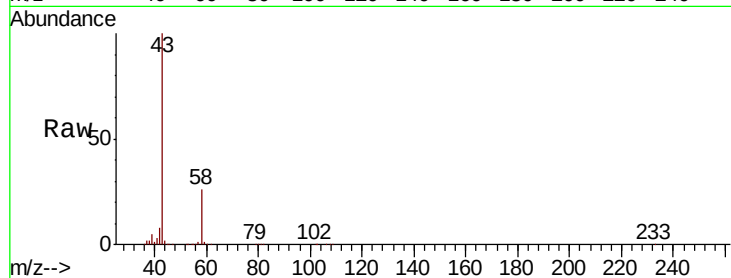
#15
Acetone
Concen: 7.740 ppbv
RT: 3.91 min Scan# 302
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS03

Tot Ion: 43 Resp: 1121776
Ion Ratio Lower Upper
43 100
58 26.3 21.1 31.7

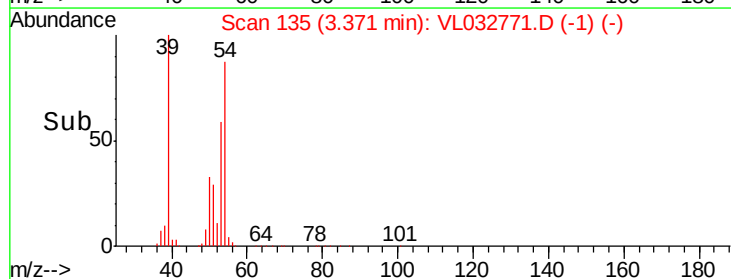
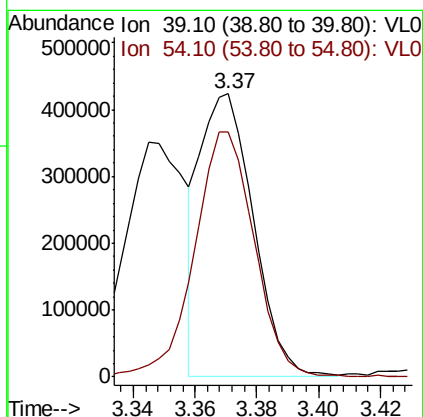
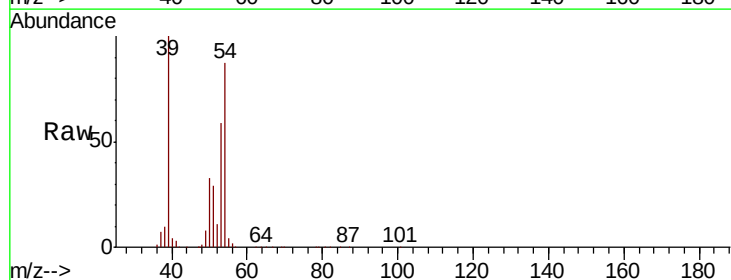
Manual Integrations
APPROVED

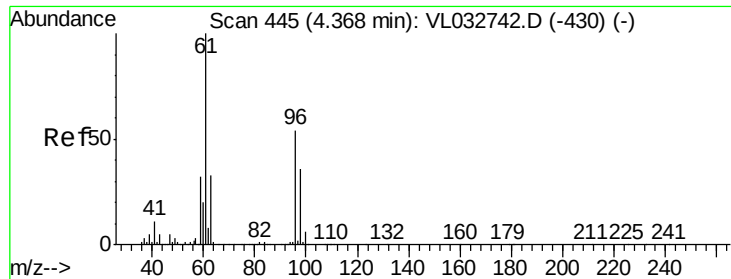
MMDadoda
11/16/2018 1:30:14 PM



#16
1,3-Butadiene
Concen: 8.982 ppbv
RT: 3.37 min Scan# 135
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Tgt Ion: 39 Resp: 504118
Ion Ratio Lower Upper
39 100
54 98.4 68.9 103.3





#17

tert-Butyl alcohol

Concen: 9.975 ppbv

RT: 4.37 min Scan# 445

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS03

Tot Ion: 59 Resp: 453436

Ion Ratio Lower Upper

59 100

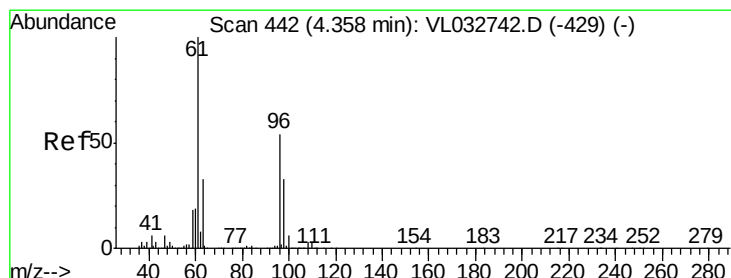
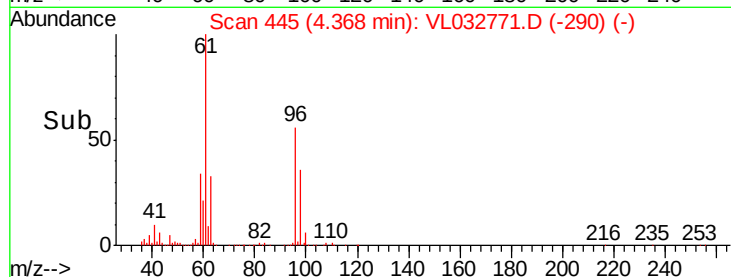
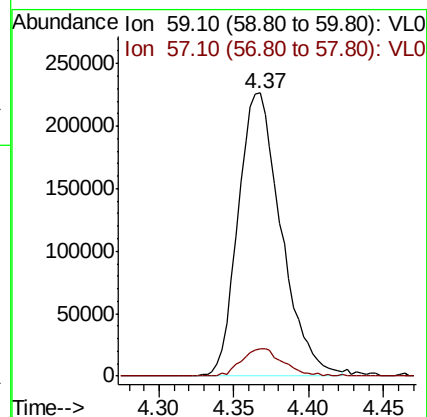
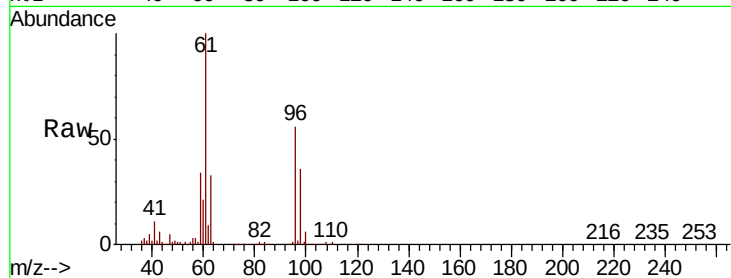
57 9.6 7.8 11.8

Manual Integrations

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MMDadoda

11/16/2018 1:30:14 PM



#18

1,1-Dichloroethene

Concen: 9.655 ppbv

RT: 4.36 min Scan# 442

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

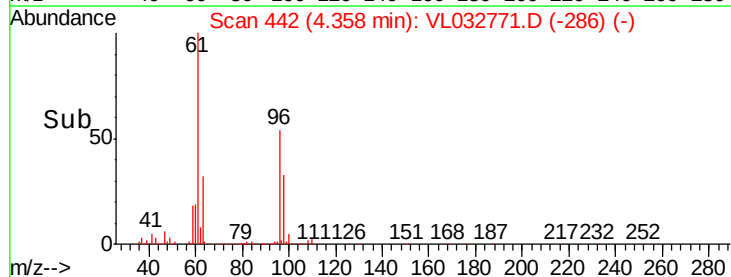
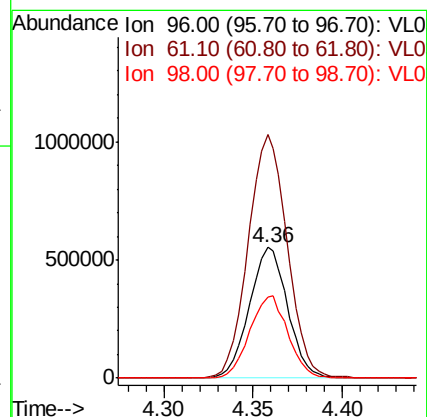
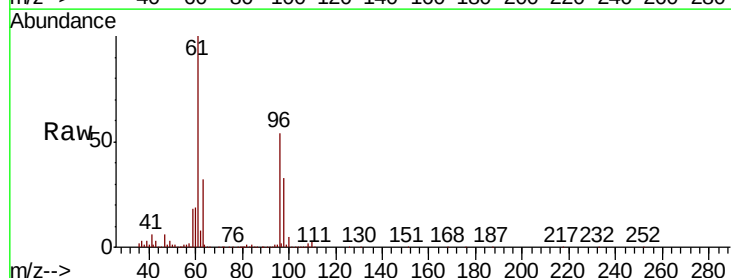
Tgt Ion: 96 Resp: 833758

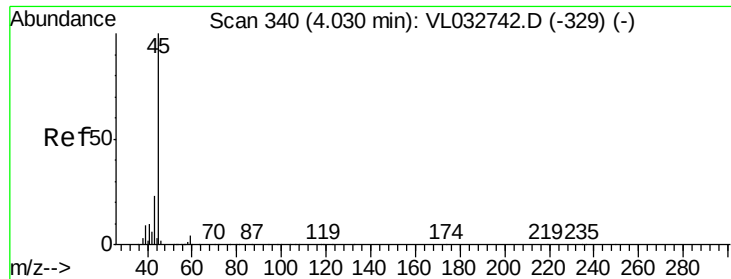
Ion Ratio Lower Upper

96 100

61 186.4 148.5 222.7

98 61.8 48.6 72.8





#19

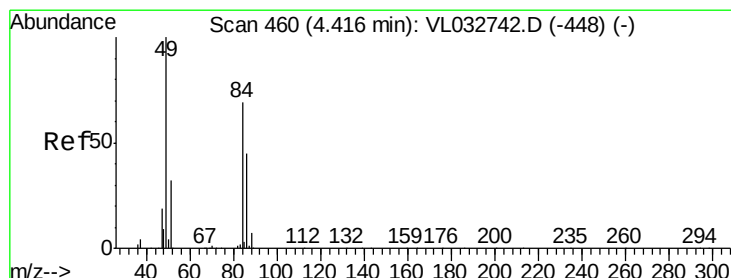
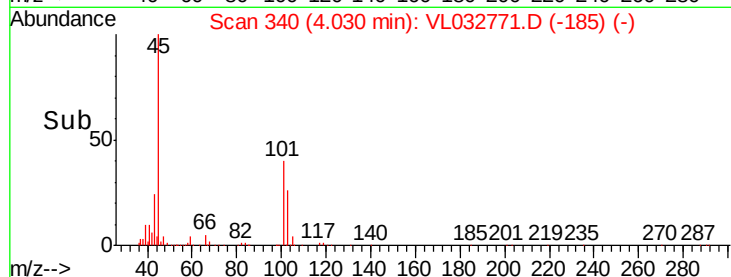
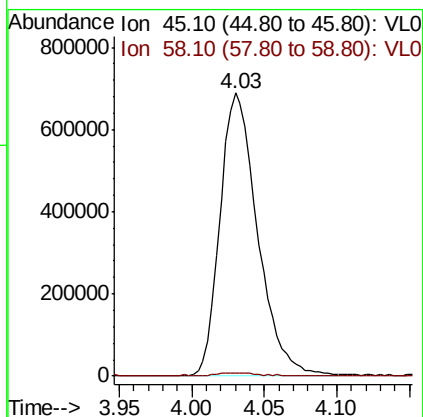
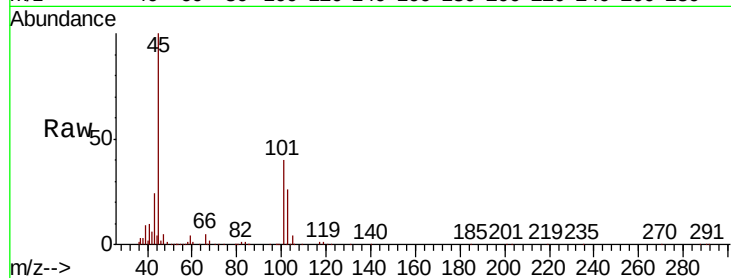
Isopropyl Alcohol
 Concen: 12.774 ppbv
 RT: 4.03 min Scan# 340
 Delta R.T. -0.00 min
 Lab File: VL032771.D
 Acq: 14 Nov 2018 23:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS03

Tot Ion	Ratio	Lower	Upper
45	100		
58	1.5	1.4	2.0

Manual Integrations
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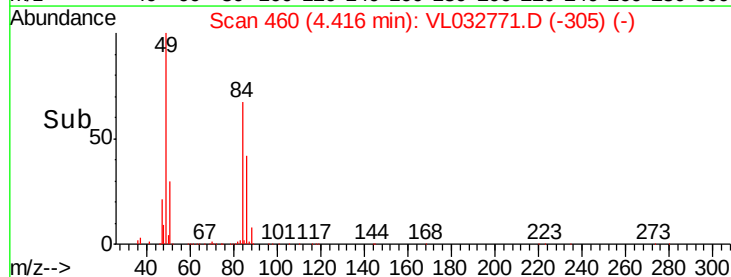
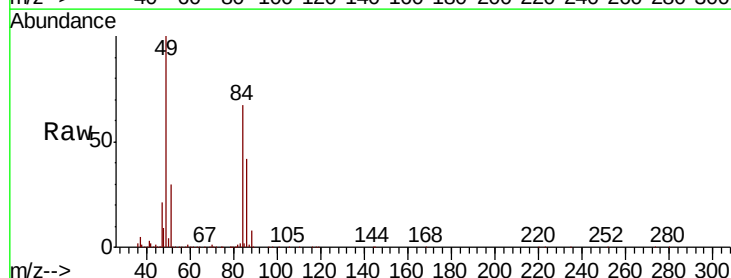
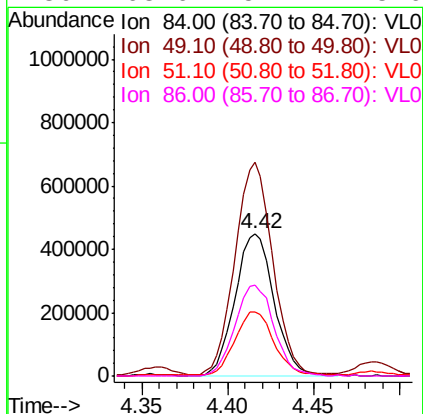
MMDadoda
 11/16/2018 1:30:14 PM

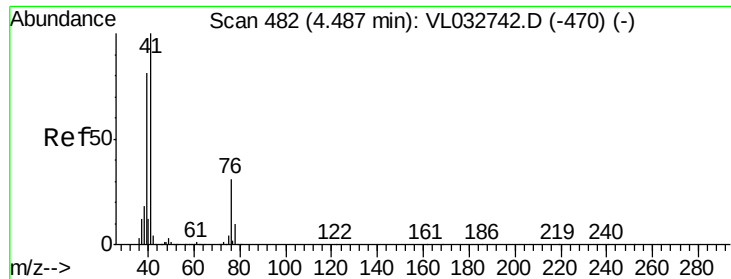


#20

Methylene Chloride
 Concen: 9.363 ppbv
 RT: 4.42 min Scan# 460
 Delta R.T. -0.00 min
 Lab File: VL032771.D
 Acq: 14 Nov 2018 23:02

Tgt Ion	Ratio	Lower	Upper
84	100		
49	148.8	115.8	173.6
51	44.5	36.9	55.3
86	63.6	52.4	78.6





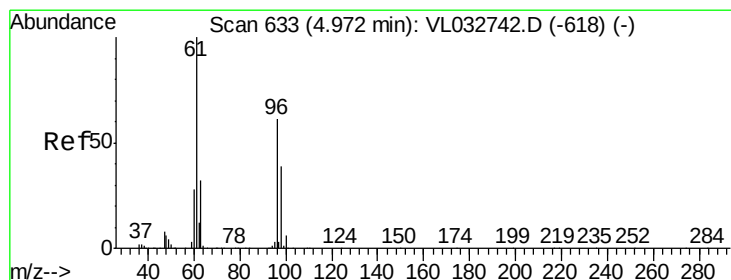
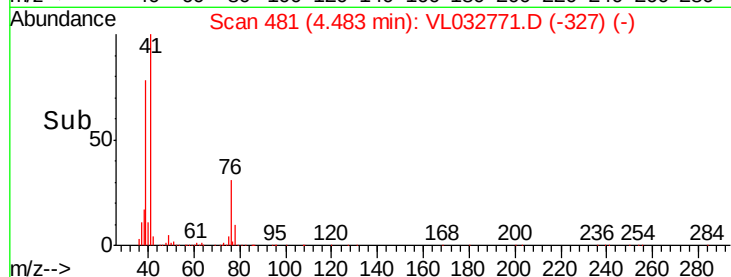
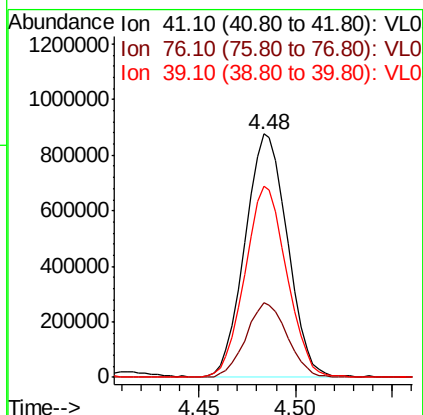
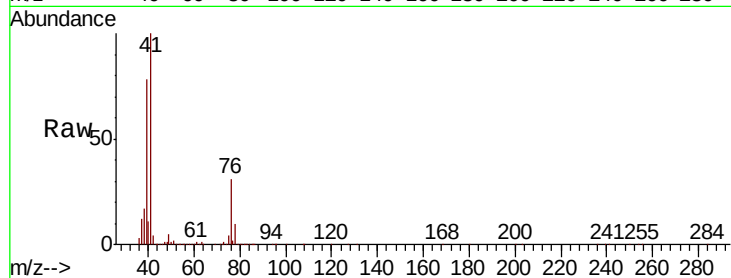
#21
Allvl Chloride
Concen: 10.936 ppbv
RT: 4.48 min Scan# 481
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS03

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.2	24.4	36.6
39	78.0	63.5	95.3

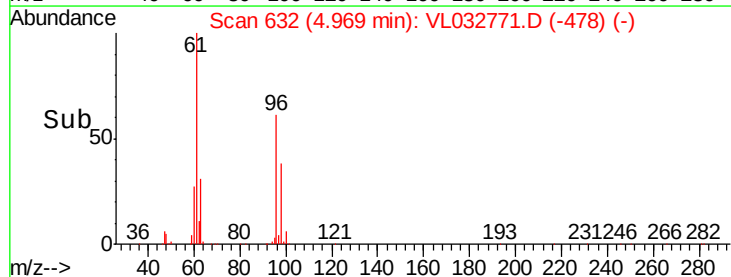
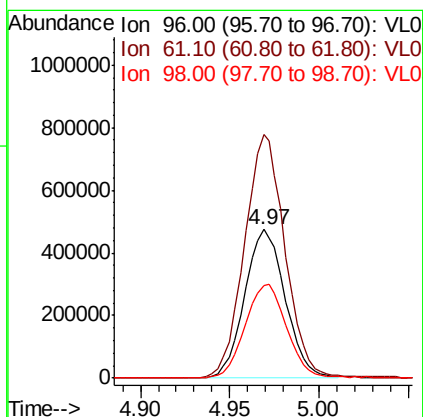
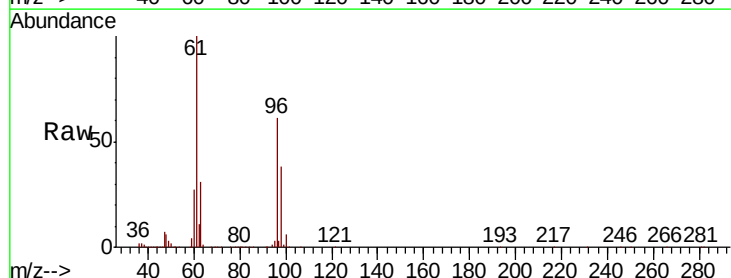
Manual Integrations
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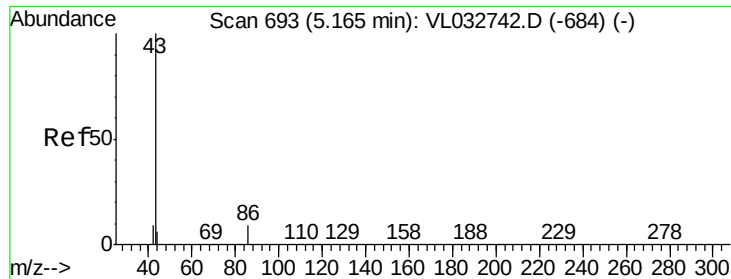
MMDadoda
11/16/2018 1:30:14 PM



#22
trans-1,2-Dichloroethene
Concen: 8.990 ppbv
RT: 4.97 min Scan# 632
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Tgt Ion	Ratio	Lower	Upper
96	100		
61	163.8	130.2	195.2
98	62.0	50.2	75.2





#23

Vinyl Acetate

Concen: 10.147 ppbv

RT: 5.16 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

Instrument :

MSVOA_L

ClientSampleID :

VL1114ABS03

Tot Ion: 43 Resp: 2680818

Ion Ratio Lower Upper

43 100

86 8.3 6.2 9.4

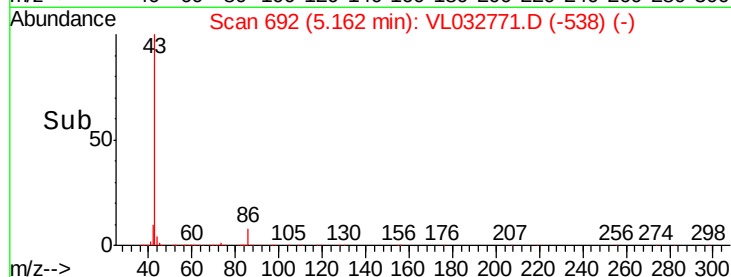
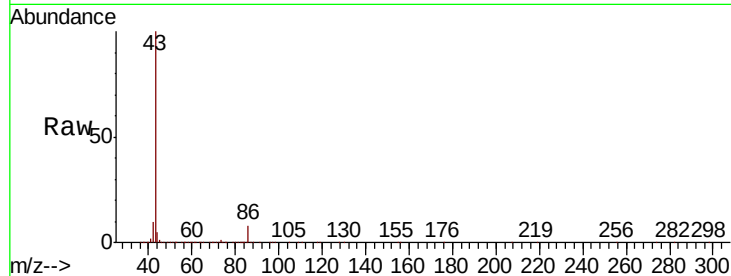
42 9.6 7.8 11.6

44 4.8 4.4 6.6

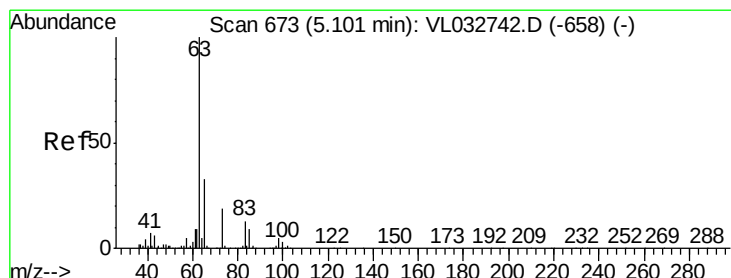
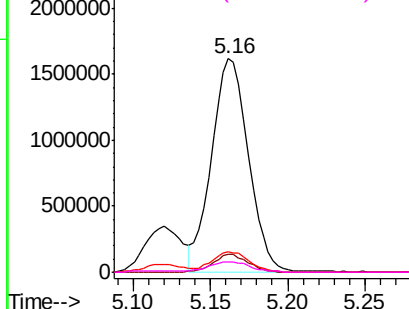
Manual Integrations
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11/16/2018 1:30:14 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0
2500000 Ion 86.10 (85.80 to 86.80): VL0
2000000 Ion 42.10 (41.80 to 42.80): VL0
1500000 Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.378 ppbv

RT: 5.10 min Scan# 672

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

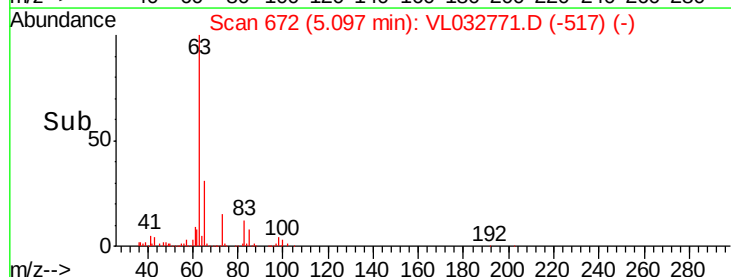
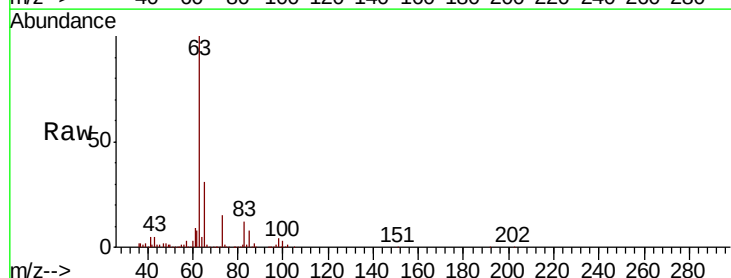
Tgt Ion: 63 Resp: 1969693

Ion Ratio Lower Upper

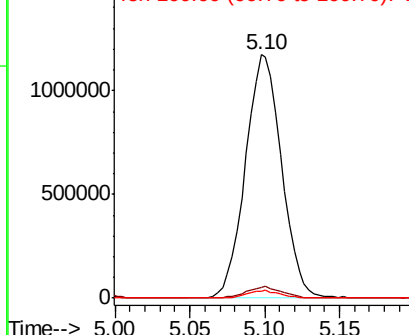
63 100

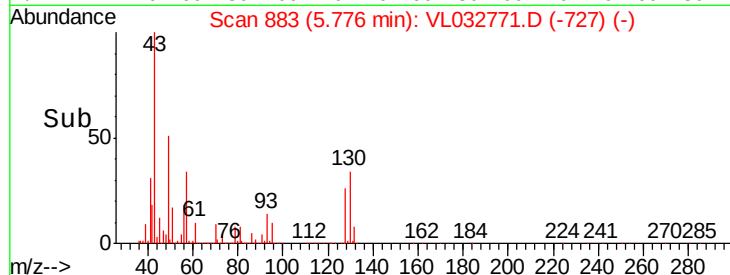
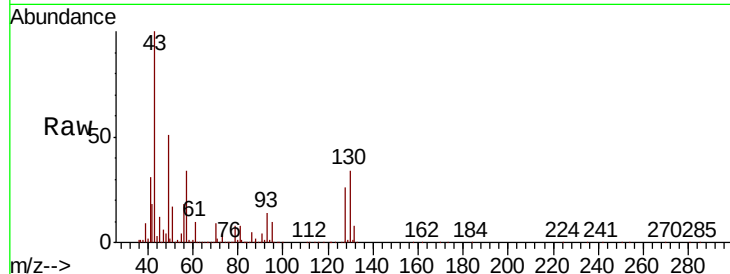
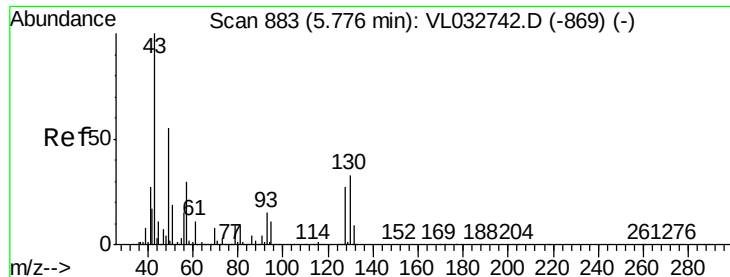
98 4.4 2.3 6.8

100 2.7 1.4 4.2



Abundance Ion 63.10 (62.80 to 63.80): VL0
1500000 Ion 98.00 (97.70 to 98.70): VL0
1000000 Ion 100.00 (99.70 to 100.70): VL0





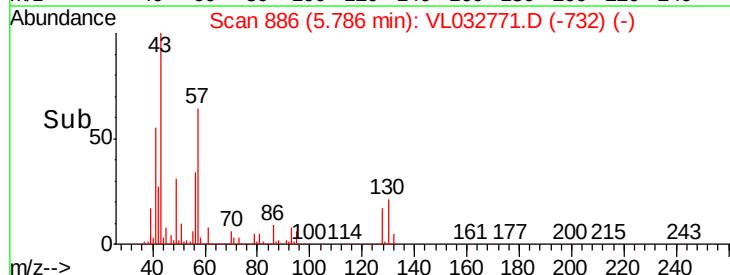
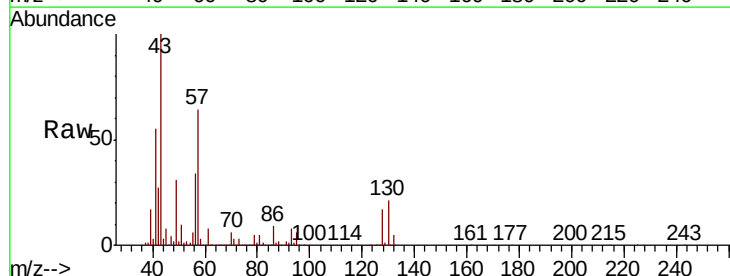
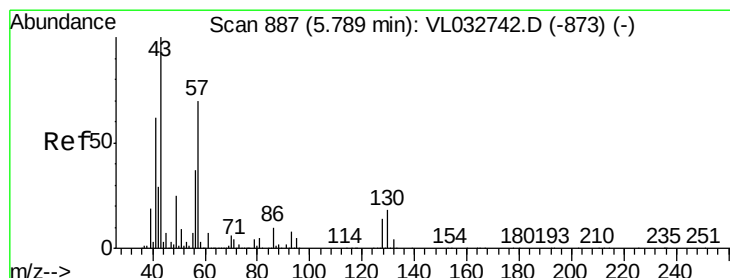
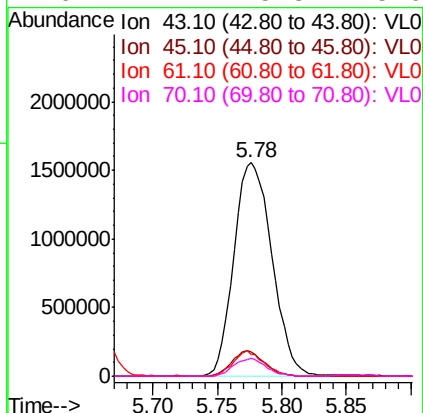
#25
Ethyl Acetate
Concen: 9.456 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Tot Ion	43	Resp	3194315
Ion	Ratio	Lower	Upper
43	100		
45	10.1	7.9	11.9
61	9.6	7.8	11.6
70	7.2	5.8	8.6

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS03

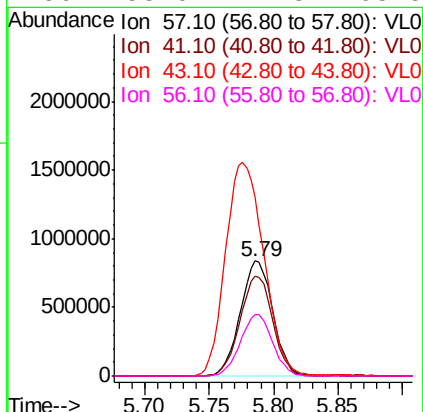
Manual Integrations
APPROVED

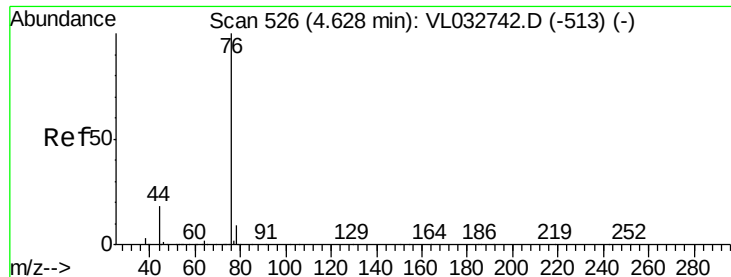
MMDadoda
11/16/2018 1:30:14 PM



#26
Hexane
Concen: 9.771 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Tgt Ion	57	Resp	1469331
Ion	Ratio	Lower	Upper
57	100		
41	87.7	70.3	105.5
43	219.0	174.0	261.0
56	53.0	42.3	63.5





#27

Carbon Disulfide

Concen: 10.228 ppbv

RT: 4.63 min Scan# 526

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS03

Tot Ion: 76 Resp: 1950277

Ion Ratio Lower Upper

76 100

44 18.3 14.4 21.6

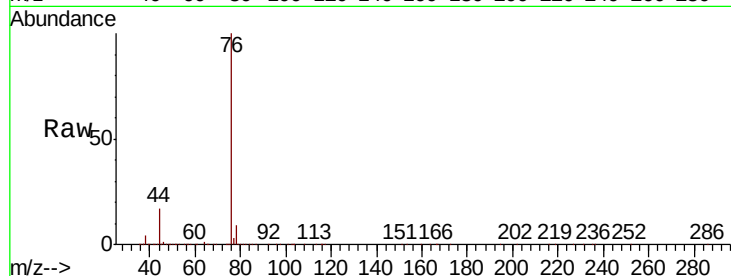
78 9.4 7.7 11.5

Manual Integrations

APPROVED

MMDadoda

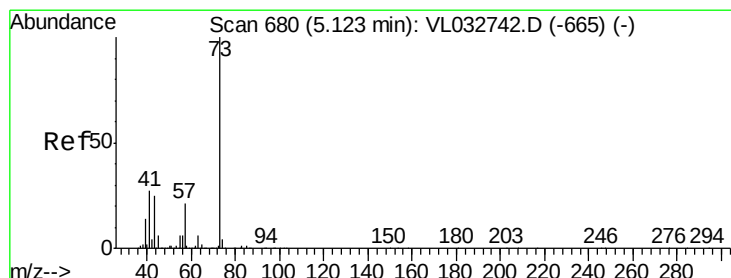
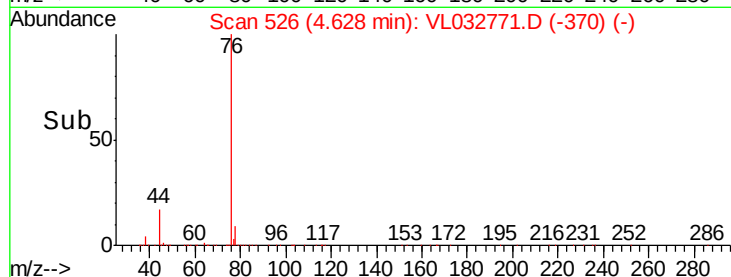
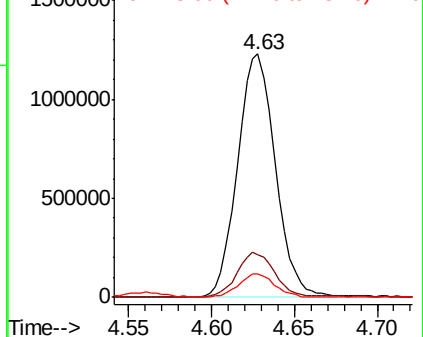
11/16/2018 1:30:14 PM



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: 10.181 ppbv

RT: 5.12 min Scan# 679

Delta R.T. -0.00 min

Lab File: VL032771.D

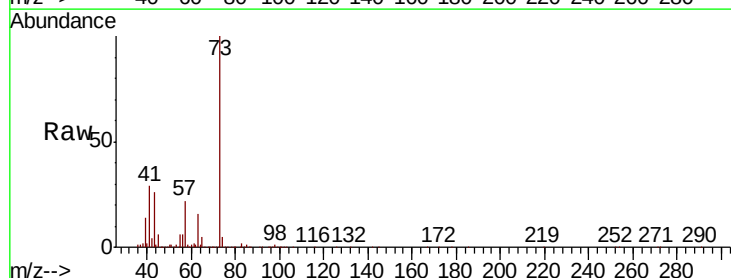
Acq: 14 Nov 2018 23:02

Tgt Ion: 73 Resp: 2441486

Ion Ratio Lower Upper

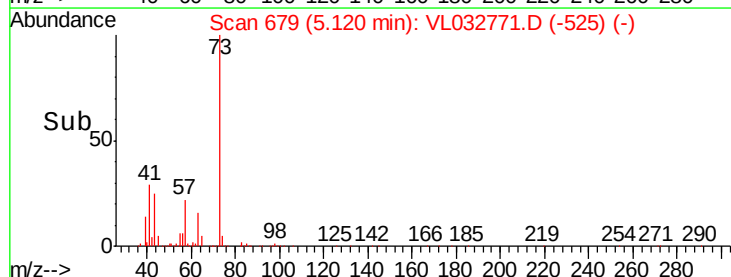
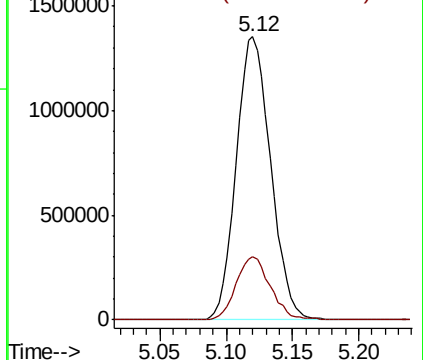
73 100

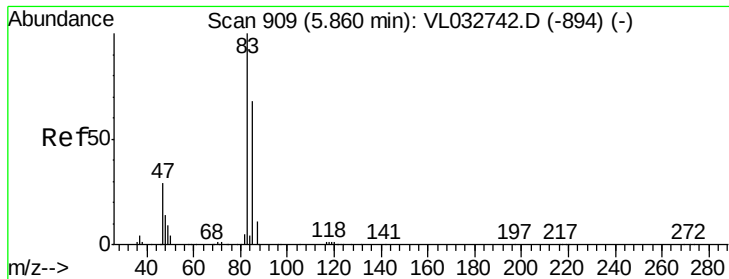
57 22.2 17.5 26.3



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





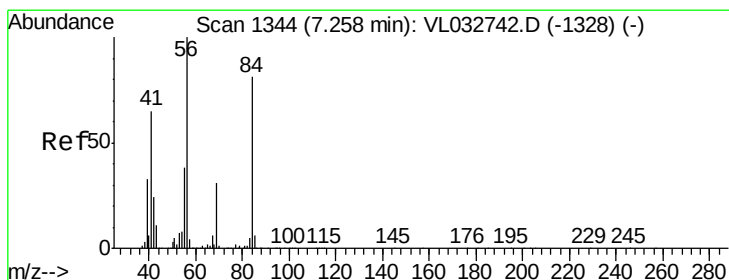
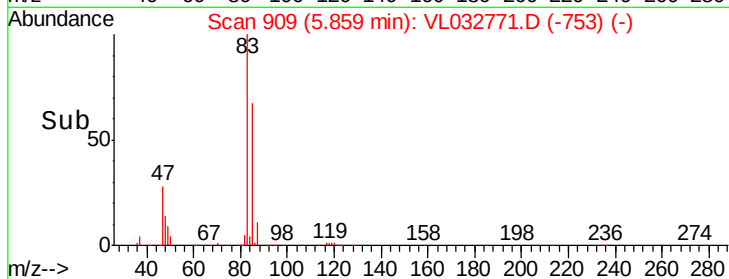
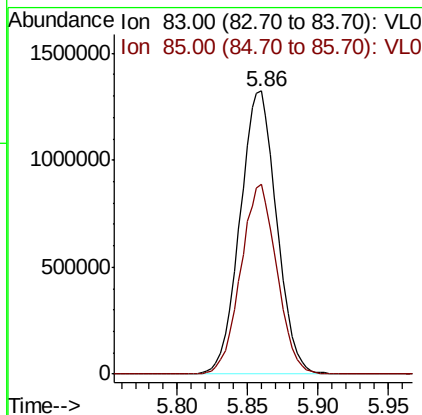
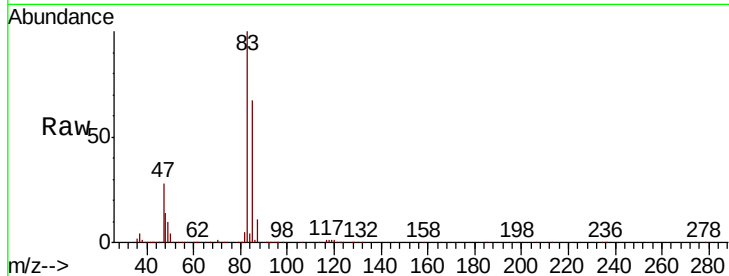
#29
Chloroform
Concen: 8.966 ppbv
RT: 5.86 min Scan# 909
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS03

Tot Ion: 83 Resp: 2403016
Ion Ratio Lower Upper
83 100
85 67.0 54.2 81.4

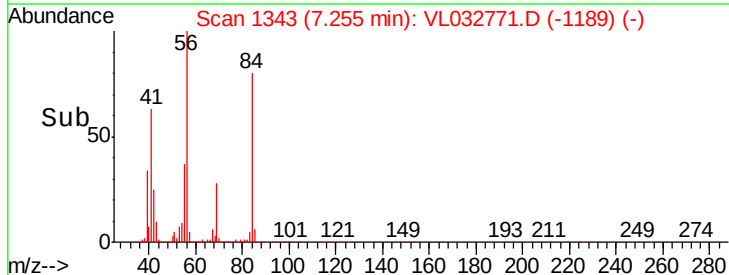
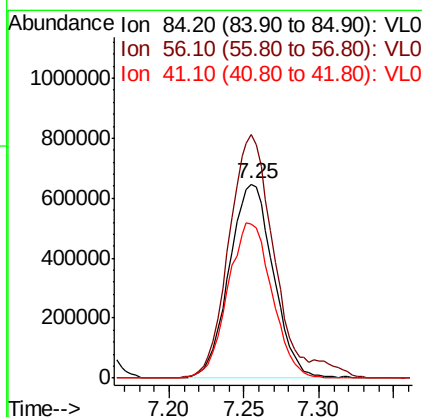
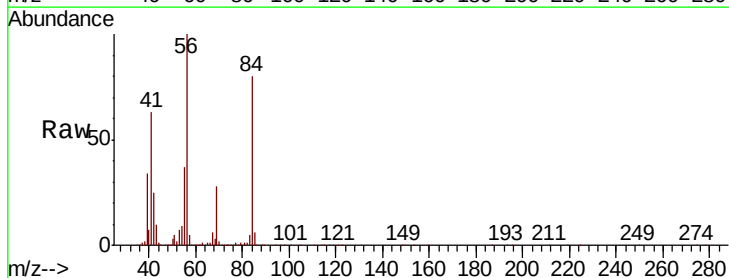
Manual Integrations
APPROVED

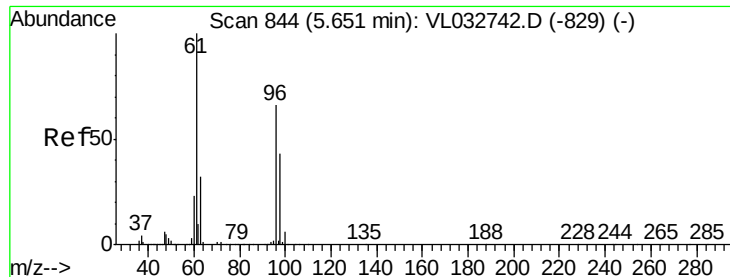
MMDadoda
11/16/2018 1:30:14 PM



#30
Cyclohexane
Concen: 9.968 ppbv
RT: 7.25 min Scan# 1343
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Tgt Ion: 84 Resp: 1310980
Ion Ratio Lower Upper
84 100
56 132.1 105.0 157.4
41 81.4 65.3 97.9





#31

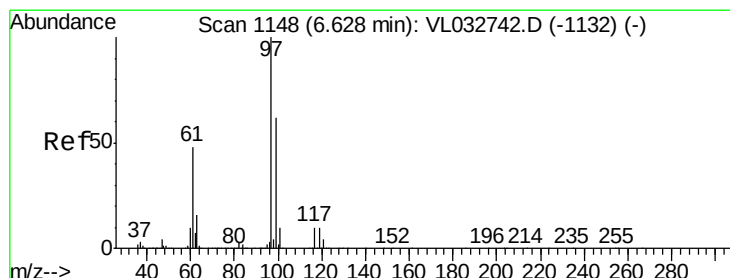
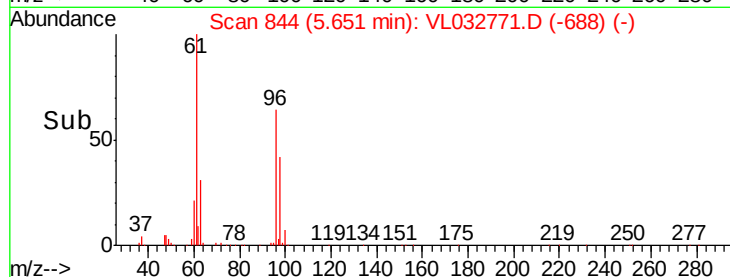
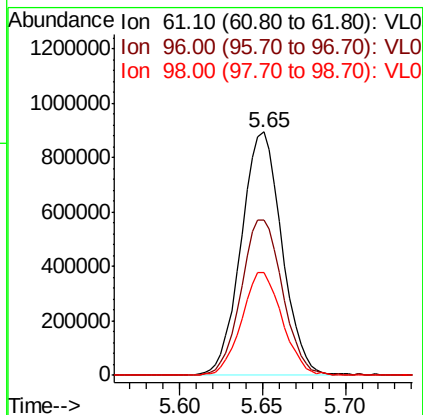
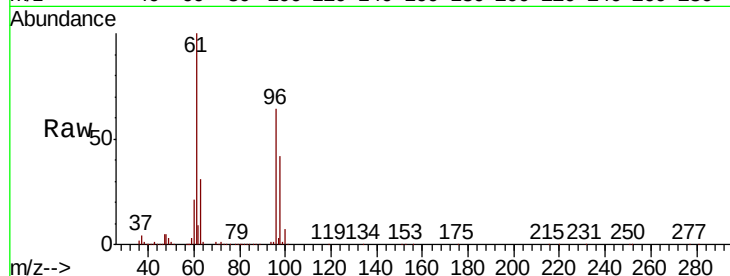
cis-1,2-Dichloroethene
Concen: 10.120 ppbv
RT: 5.65 min Scan# 844
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS03

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.0	53.2	79.8
98	42.1	34.4	51.6

Manual Integrations
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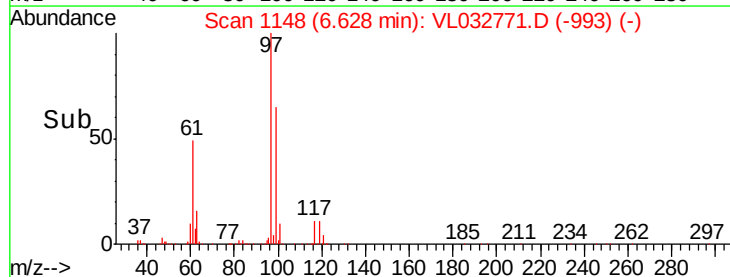
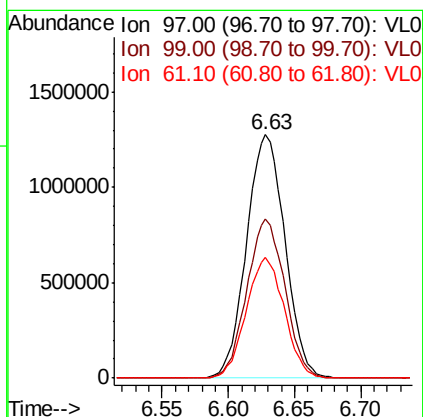
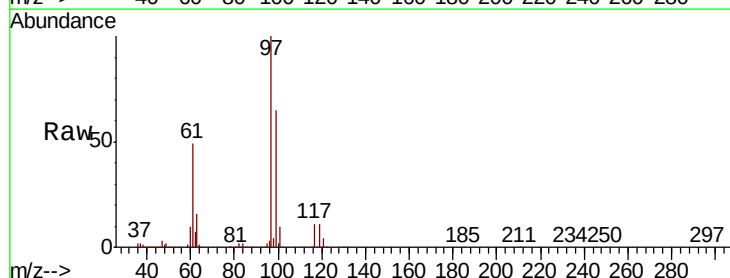
MMDadoda
11/16/2018 1:30:14 PM

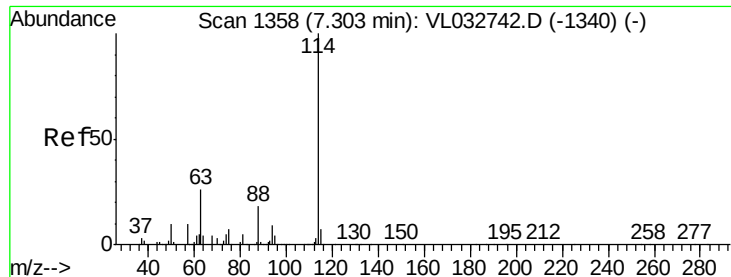


#32

1,1,1-Trichloroethane
Concen: 8.787 ppbv
RT: 6.63 min Scan# 1148
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.8	77.6
61	49.1	39.7	59.5





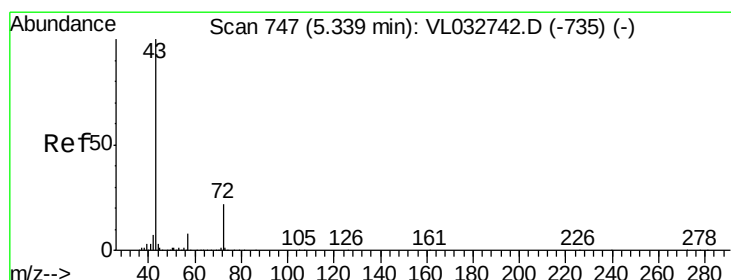
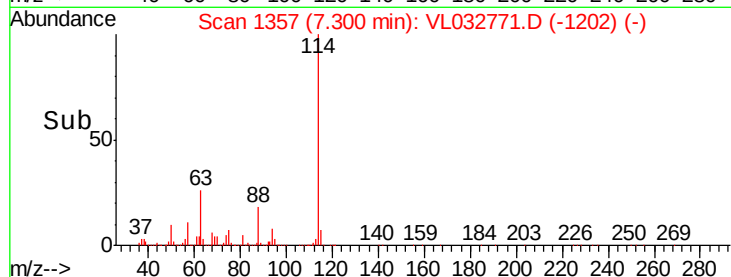
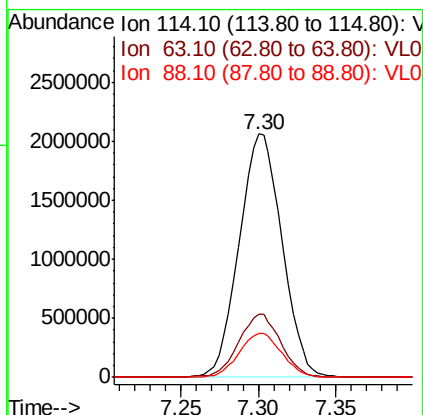
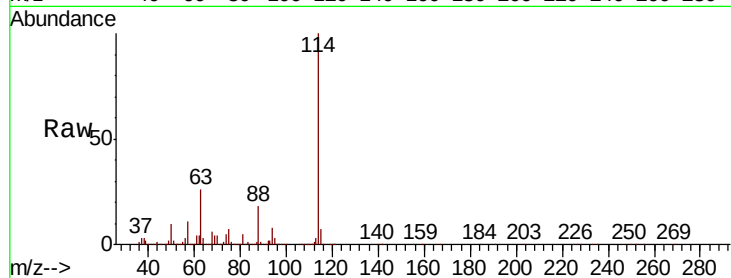
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. -0.00 min
 Lab File: VL032771.D
 Acq: 14 Nov 2018 23:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS03

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.6	20.9	31.3
88	18.0	14.4	21.6

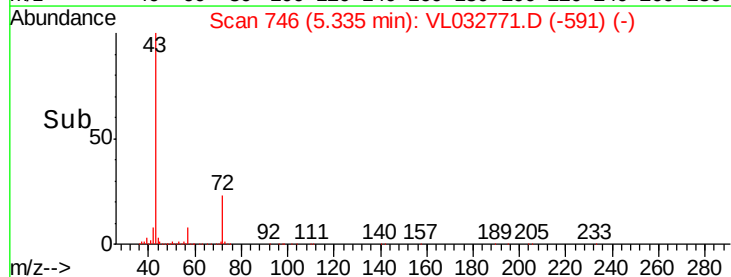
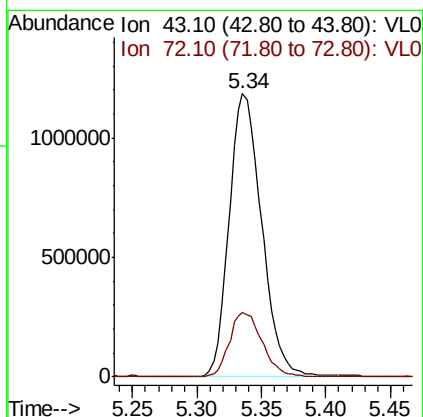
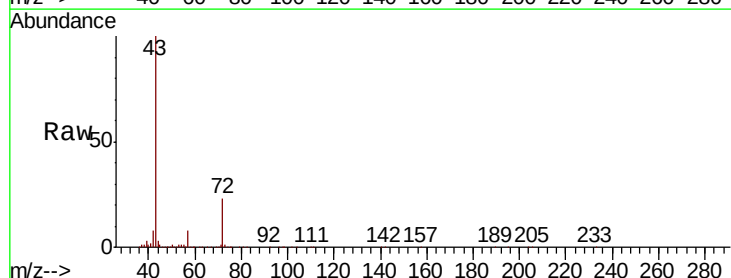
Manual Integrations
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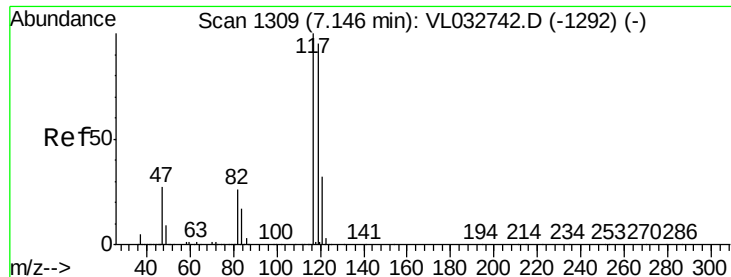
MMDadoda
 11/16/2018 1:30:14 PM



#34
 2-Butanone
 Concen: 10.062 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. -0.00 min
 Lab File: VL032771.D
 Acq: 14 Nov 2018 23:02

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.4	27.6





#35

Carbon Tetrachloride

Concen: 8.739 ppbv

RT: 7.14 min Scan# 1308

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS03

Tot Ion: 117 Resp: 2789018

Ion Ratio Lower Upper

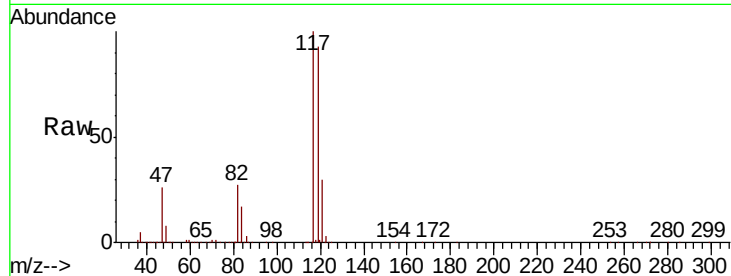
117 100

119 93.1 76.1 114.1

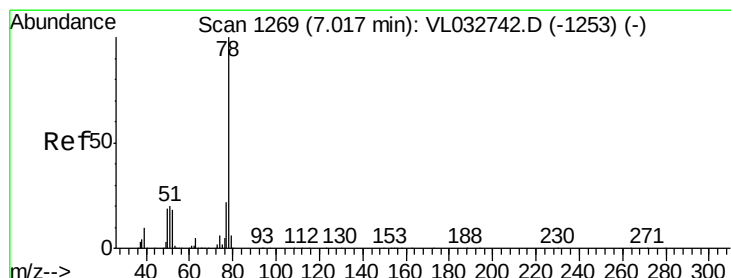
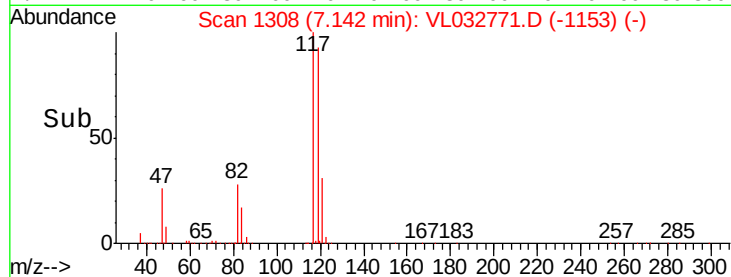
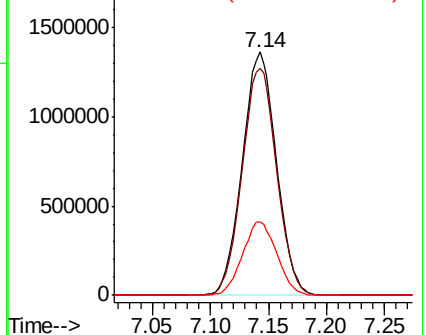
121 30.4 25.4 38.0

Manual Integrations
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11/16/2018 1:30:14 PM



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.915 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

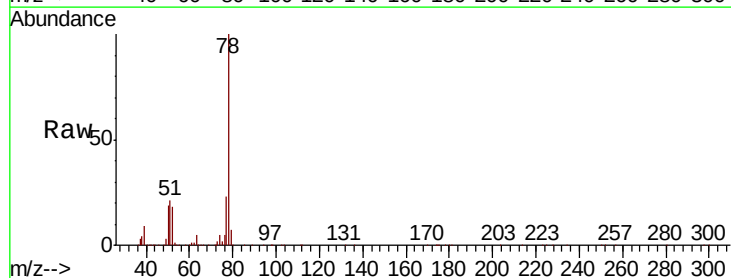
Tgt Ion: 78 Resp: 3134393

Ion Ratio Lower Upper

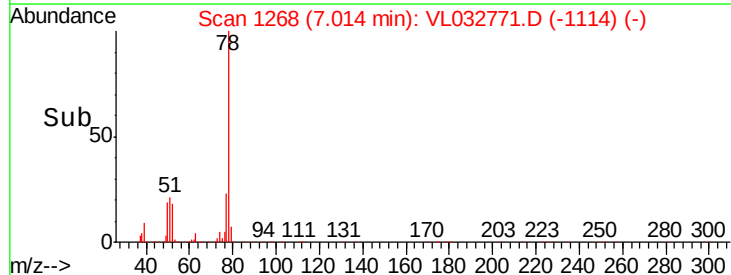
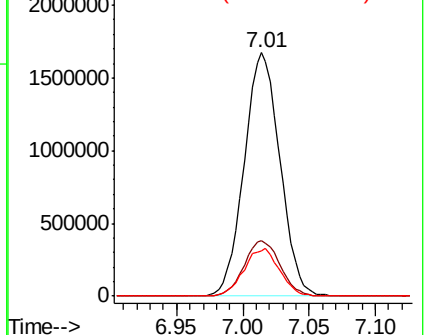
78 100

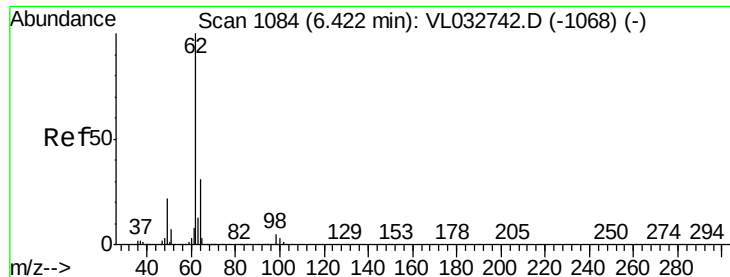
77 22.7 17.8 26.8

50 18.6 15.4 23.0



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





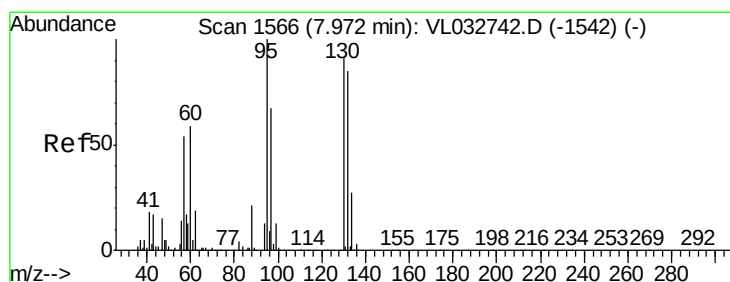
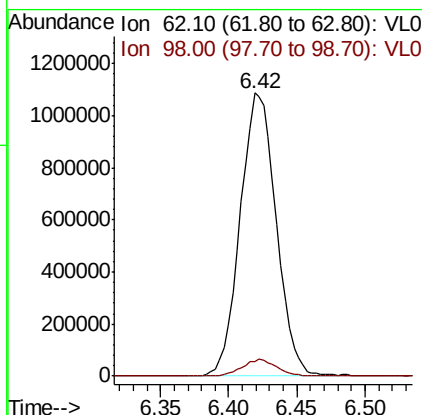
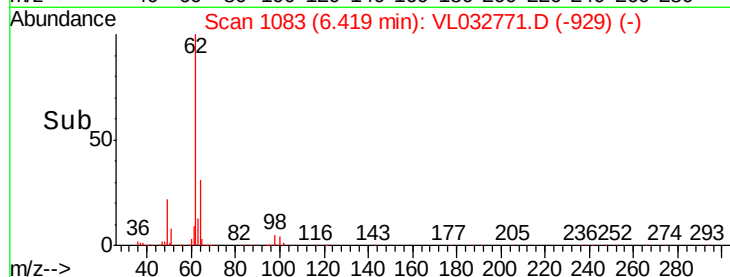
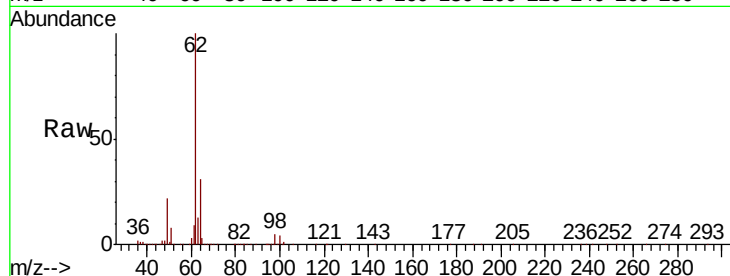
#37
 1,2-Dichloroethane
 Concen: 9.348 ppbv
 RT: 6.42 min Scan# 1083
 Delta R.T. -0.00 min
 Lab File: VL032771.D
 Acq: 14 Nov 2018 23:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS03

Tot Ion: 62 Resp: 1989221
 Ion Ratio Lower Upper
 62 100
 98 5.7 4.5 6.7

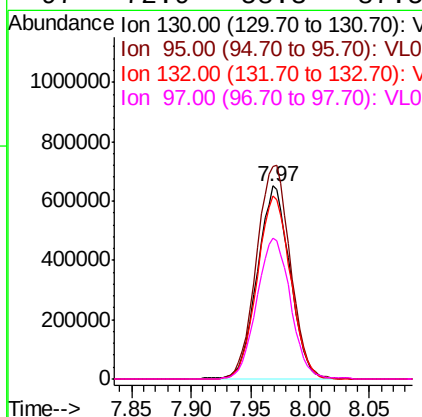
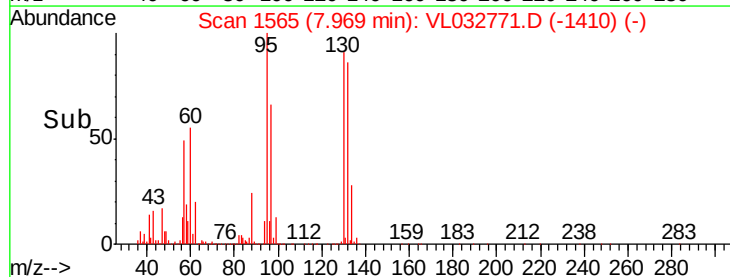
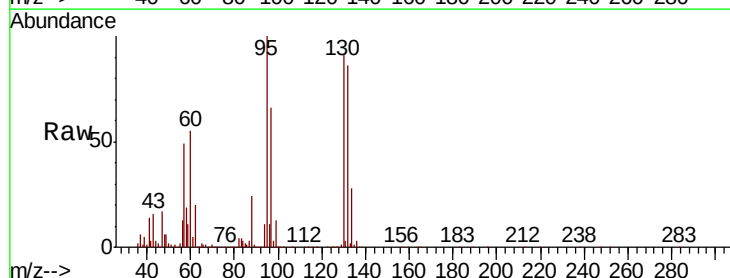
Manual Integrations
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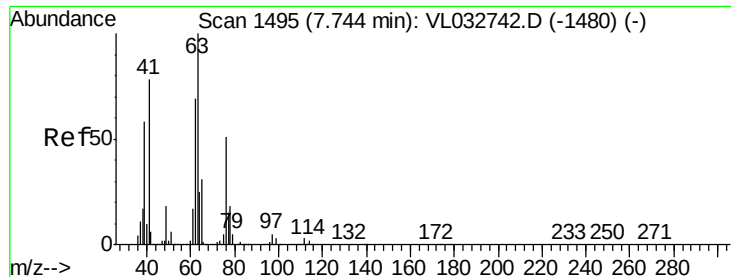
MMDadoda
 11/16/2018 1:30:14 PM



#38
 Trichloroethene
 Concen: 9.671 ppbv
 RT: 7.97 min Scan# 1565
 Delta R.T. -0.00 min
 Lab File: VL032771.D
 Acq: 14 Nov 2018 23:02

Tgt Ion: 130 Resp: 1237175
 Ion Ratio Lower Upper
 130 100
 95 110.6 87.7 131.5
 132 95.1 74.6 111.8
 97 72.9 58.3 87.5





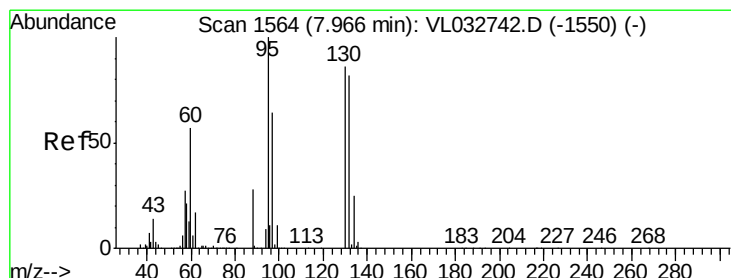
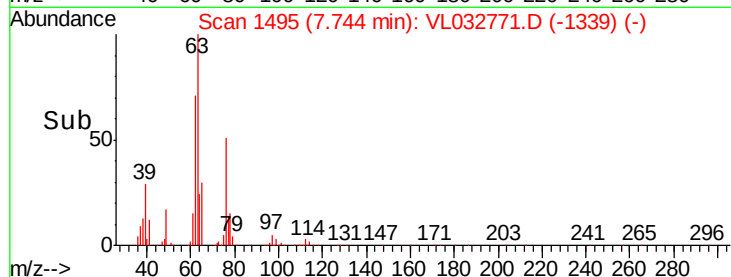
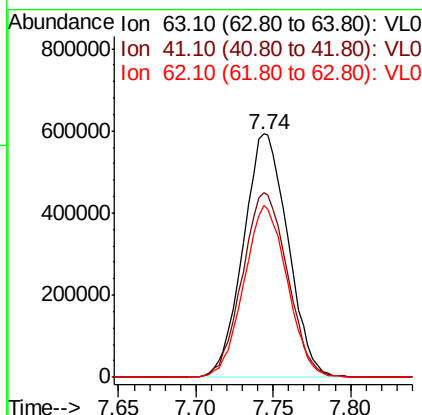
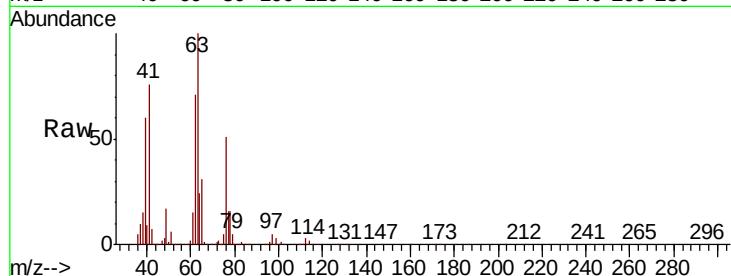
#39
 1,2-Dichloropropane
 Concen: 9.848 ppbv
 RT: 7.74 min Scan# 1495
 Delta R.T. -0.00 min
 Lab File: VL032771.D
 Acq: 14 Nov 2018 23:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS03

Tot Ion	Ratio	Lower	Upper
63	100		
41	75.9	62.0	93.0
62	70.9	55.4	83.2

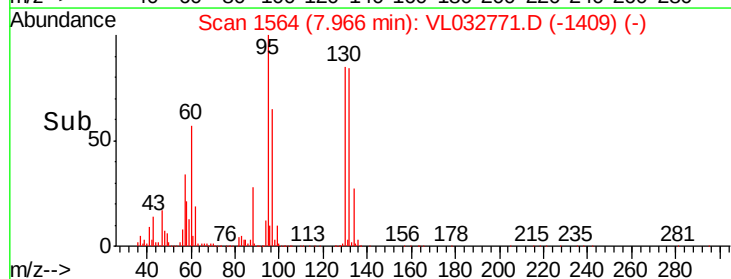
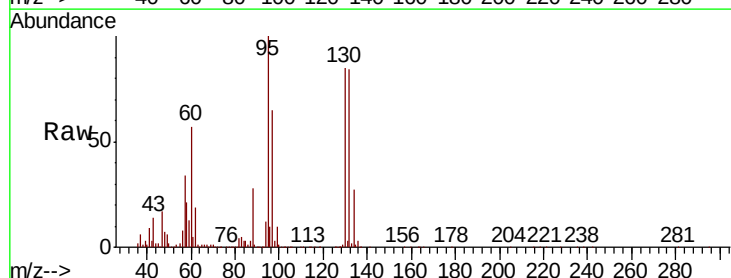
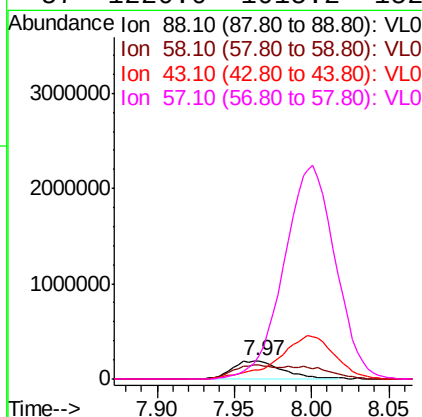
Manual Integrations
 APPROVED

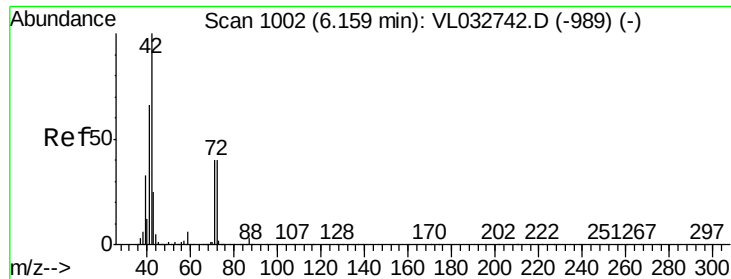
MMDadoda
 11/16/2018 1:30:14 PM



#40
 1,4-Dioxane
 Concen: 9.890 ppbv
 RT: 7.97 min Scan# 1564
 Delta R.T. -0.00 min
 Lab File: VL032771.D
 Acq: 14 Nov 2018 23:02

Tgt Ion	Ratio	Lower	Upper
88	100		
58	130.8	105.3	157.9
43	270.9	226.1	339.1
57	1220.0	1015.2	1522.8





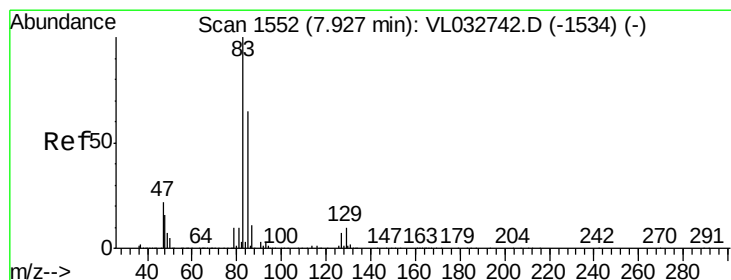
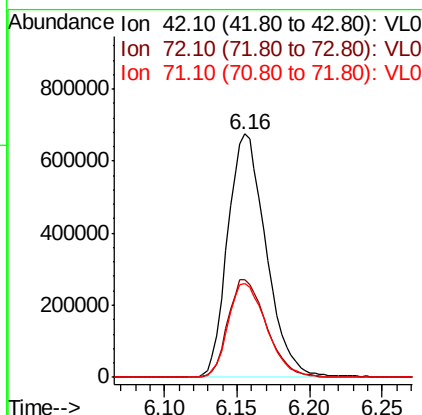
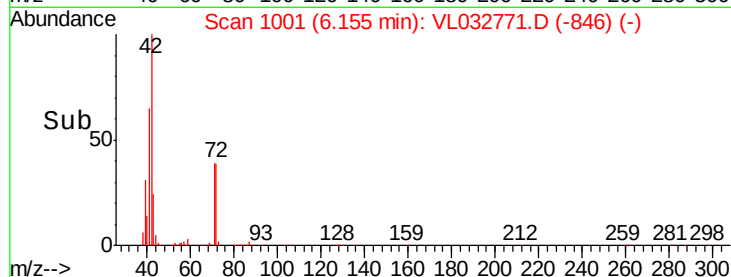
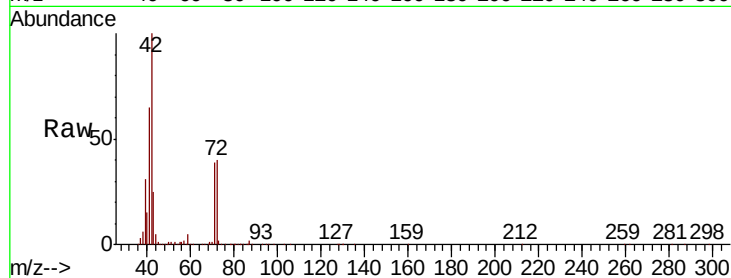
#41
Tetrahydrofuran
Concen: 10.512 ppbv
RT: 6.16 min Scan# 1001
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS03

Tot Ion: 42 Resp: 1241469
Ion Ratio Lower Upper
42 100
72 40.3 32.4 48.6
71 38.9 31.6 47.4

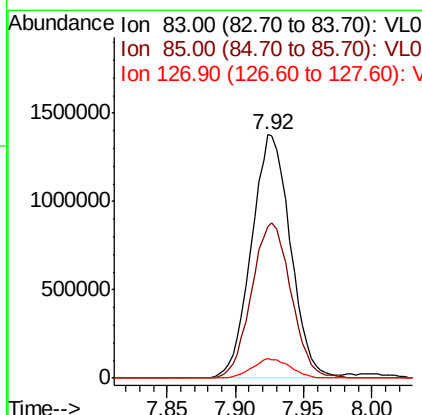
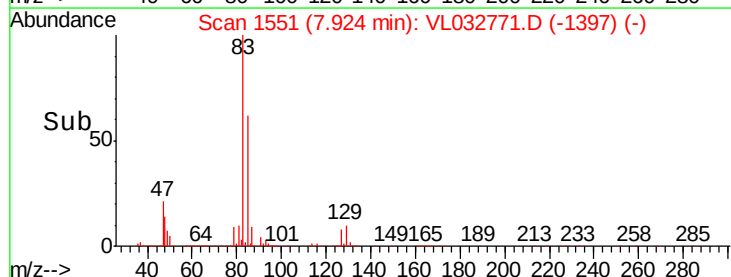
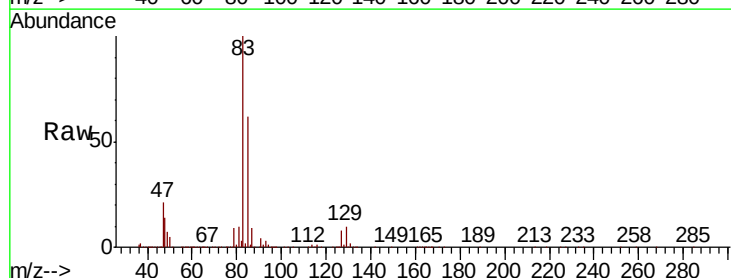
Manual Integrations
APPROVED

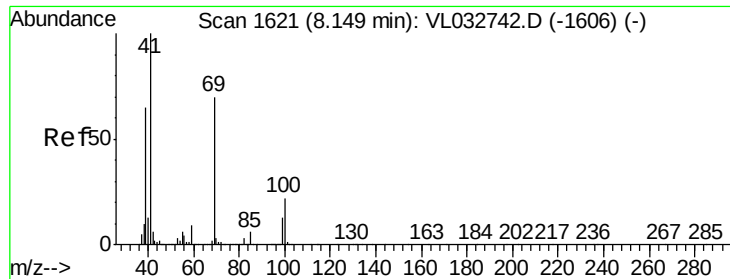
MMDadoda
11/16/2018 1:30:14 PM



#42
Bromodichloromethane
Concen: 9.468 ppbv
RT: 7.92 min Scan# 1551
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Tgt Ion: 83 Resp: 2731322
Ion Ratio Lower Upper
83 100
85 62.2 51.8 77.8
127 7.9 5.9 8.9





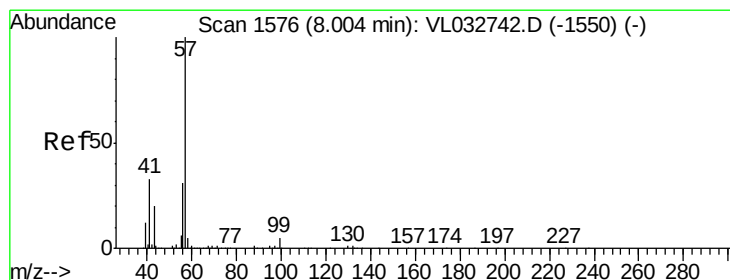
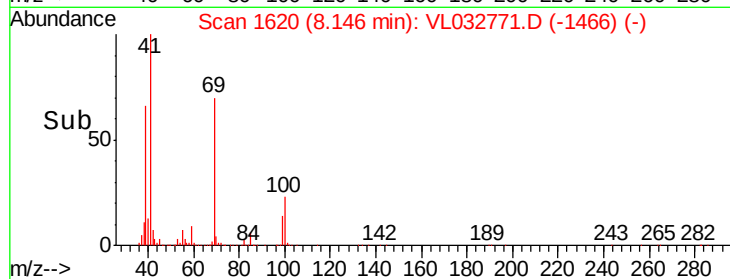
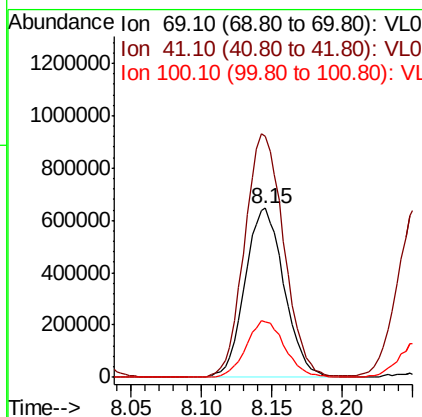
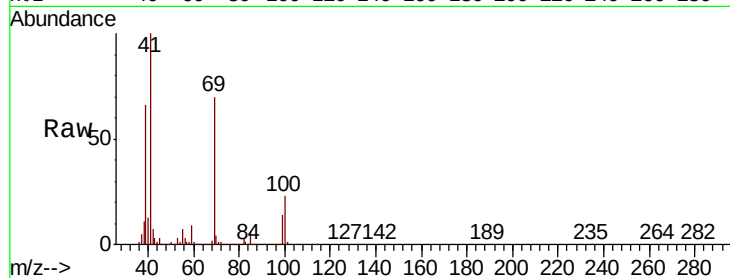
#43
Methyl Methacrylate
Concen: 10.645 ppbv
RT: 8.15 min Scan# 1620
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS03

Tot Ion: 69 Resp: 1256258
Ion Ratio Lower Upper
69 100
41 144.5 115.0 172.4
100 32.8 25.4 38.0

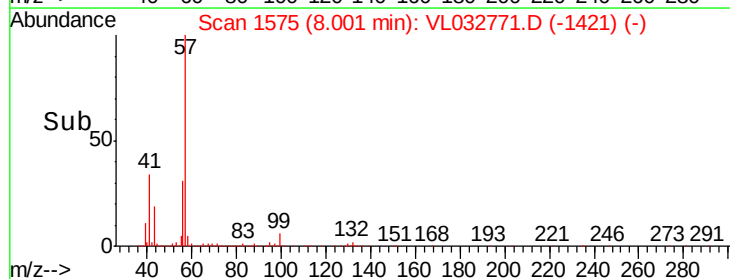
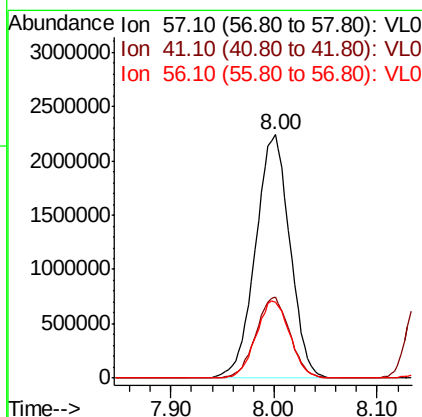
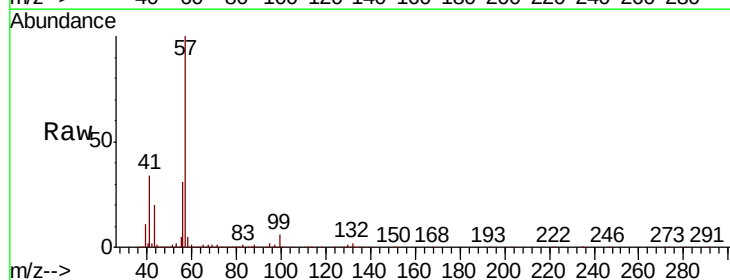
Manual Integrations
APPROVED

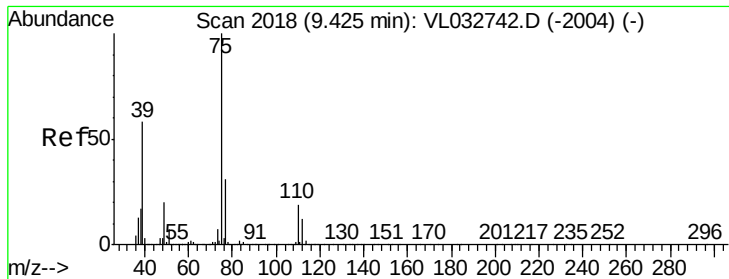
MMDadoda
11/16/2018 1:30:14 PM



#44
2,2,4-Trimethylpentane
Concen: 9.812 ppbv
RT: 8.00 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Tgt Ion: 57 Resp: 5183464
Ion Ratio Lower Upper
57 100
41 32.7 26.6 39.8
56 31.3 24.8 37.2





#45

t-1,3-Dichloropropene

Concen: 11.493 ppbv

RT: 9.42 min Scan# 2017

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS03

Tot Ion: 75 Resp: 1820083

Ion Ratio Lower Upper

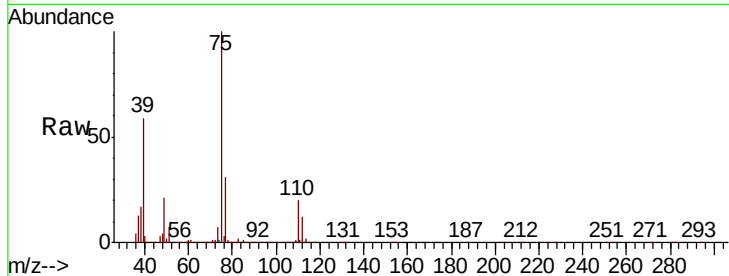
75 100

77 31.0 24.6 36.8

Manual Integrations
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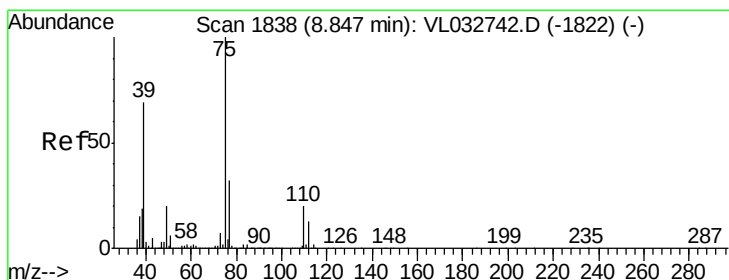
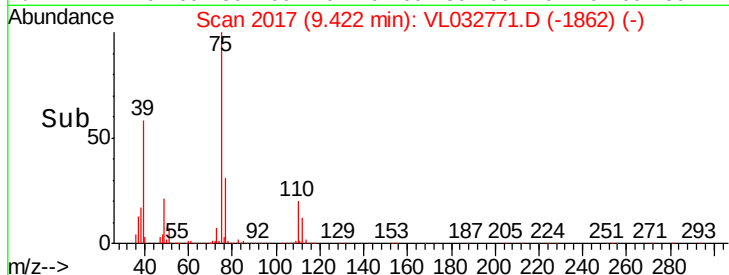
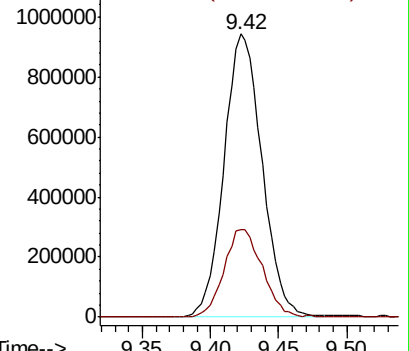
MMDadoda

11/16/2018 1:30:14 PM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 11.017 ppbv

RT: 8.84 min Scan# 1837

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

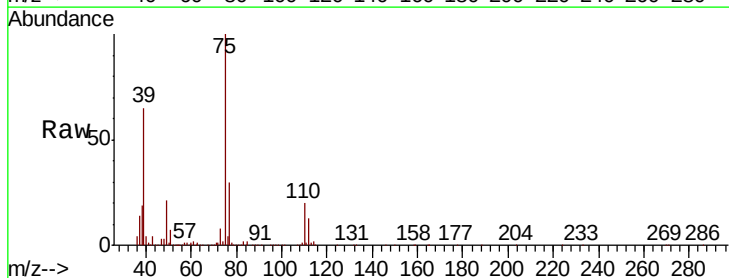
Tgt Ion: 75 Resp: 2107854

Ion Ratio Lower Upper

75 100

39 65.2 55.2 82.8

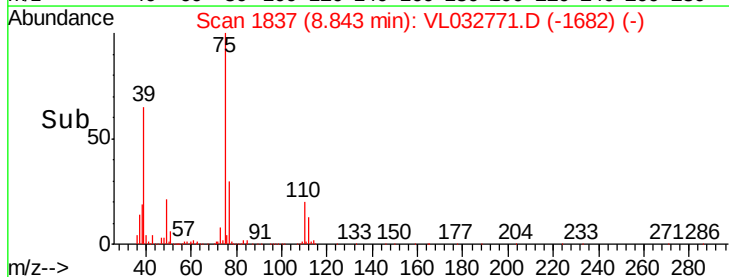
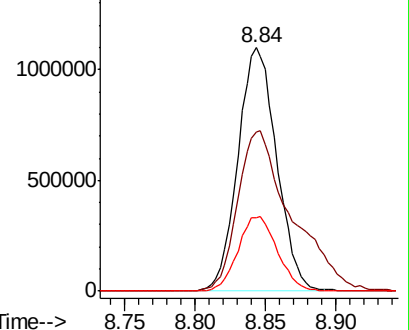
77 30.3 25.8 38.6

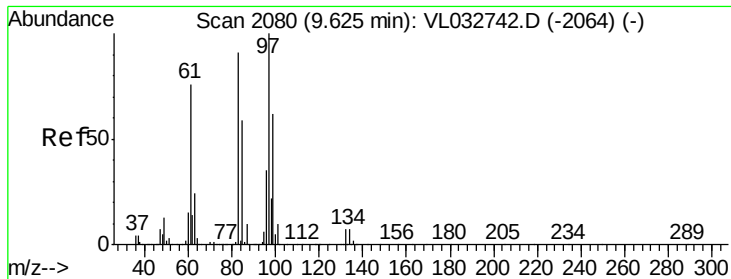


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 9.605 ppbv

RT: 9.62 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS03

Tot Ion: 97 Resp: 1367945

Ion Ratio Lower Upper

97 100

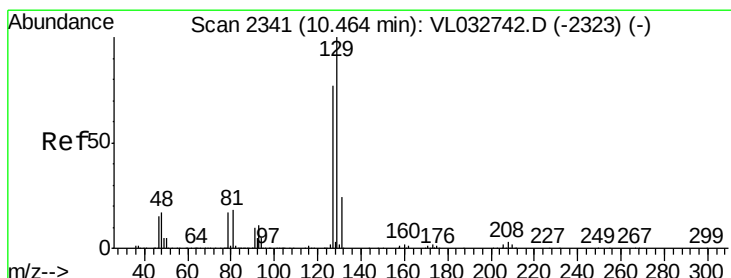
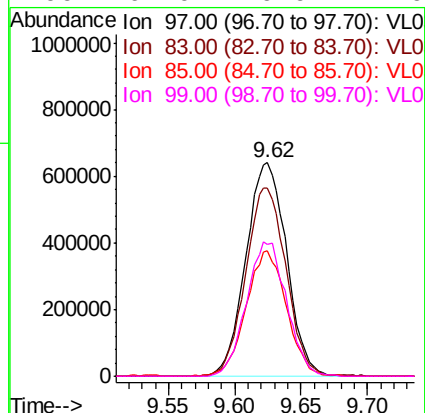
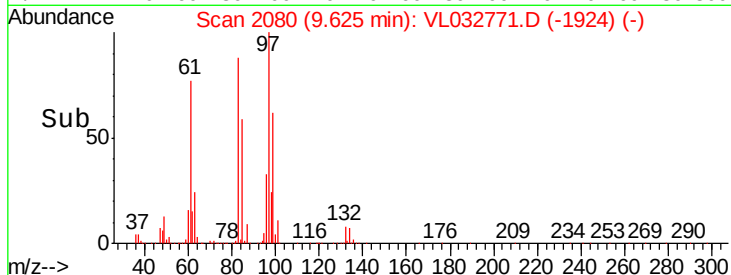
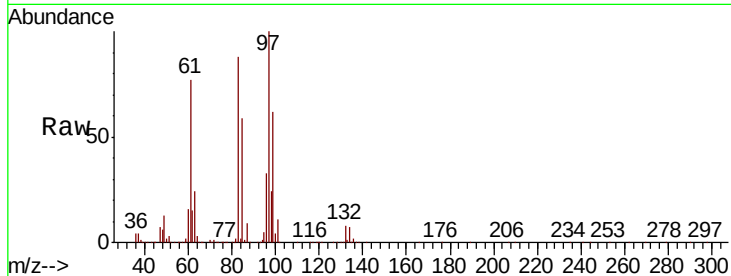
83 87.9 73.0 109.4

85 58.3 47.0 70.4

99 62.0 49.9 74.9

Manual Integrations
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11/16/2018 1:30:14 PM



#48

Dibromochloromethane

Concen: 9.438 ppbv

RT: 10.46 min Scan# 2340

Delta R.T. -0.00 min

Lab File: VL032771.D

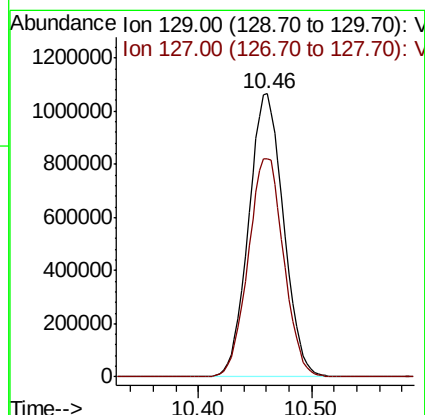
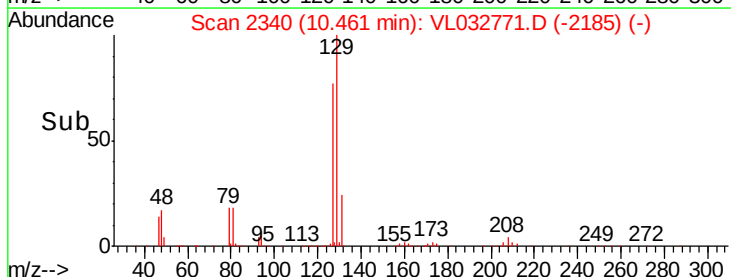
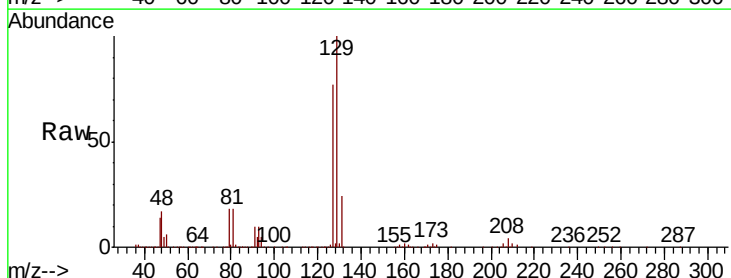
Acq: 14 Nov 2018 23:02

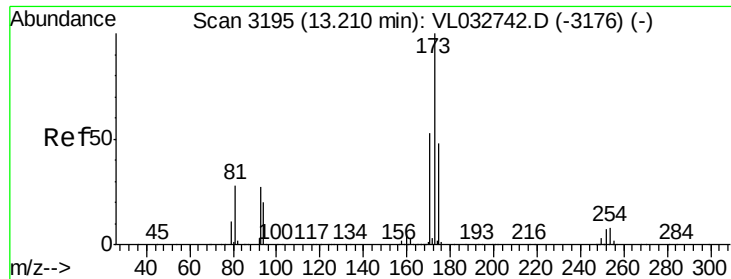
Tgt Ion: 129 Resp: 2284552

Ion Ratio Lower Upper

129 100

127 78.6 39.0 117.0





#49

Bromoform

Concen: 9.245 ppbv

RT: 13.21 min Scan# 3195

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS03

Tot Ion:173 Resp: 1848215

Ion Ratio Lower Upper

173 100

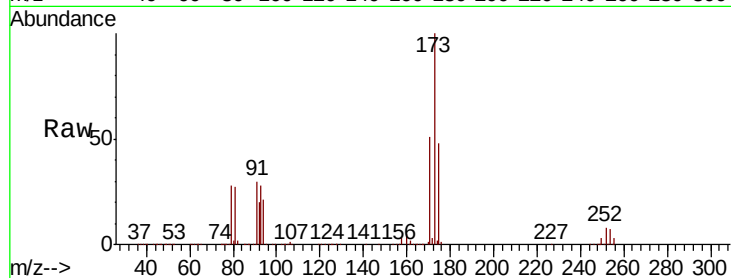
175 48.8 39.4 59.0

171 51.7 42.0 63.0

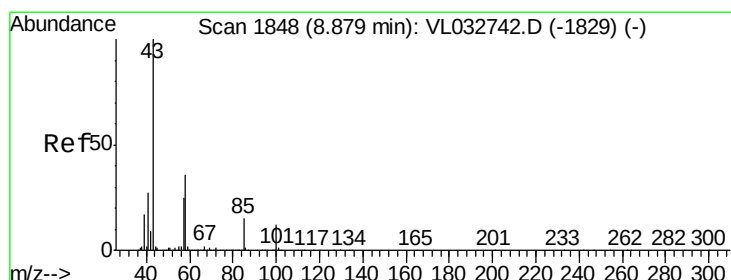
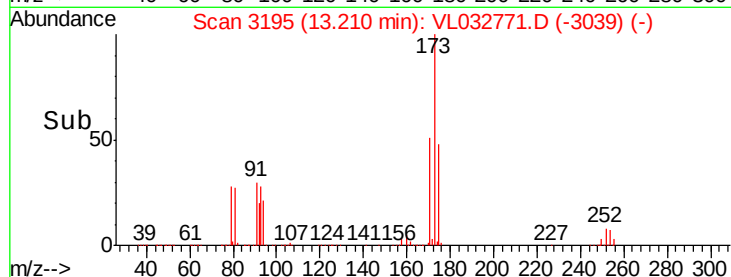
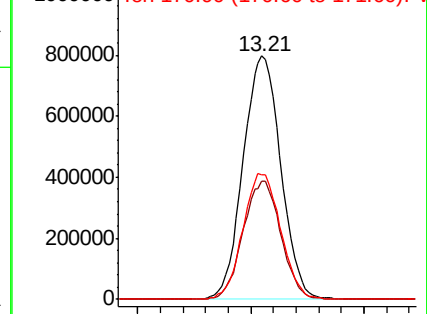
Manual Integrations
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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.013 ppbv

RT: 8.88 min Scan# 1848

Delta R.T. -0.00 min

Lab File: VL032771.D

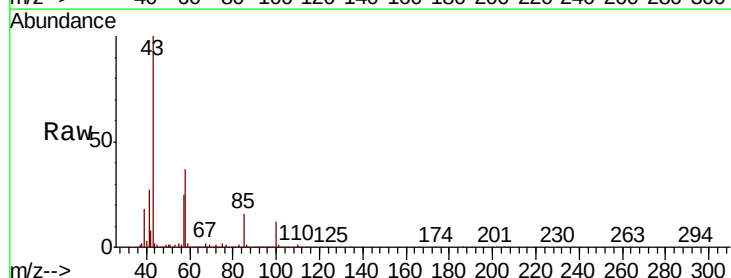
Acq: 14 Nov 2018 23:02

Tgt Ion: 43 Resp: 3220203

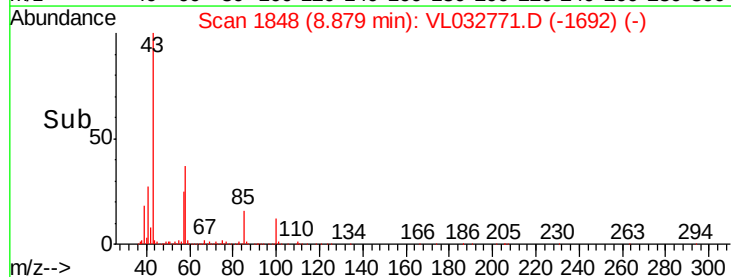
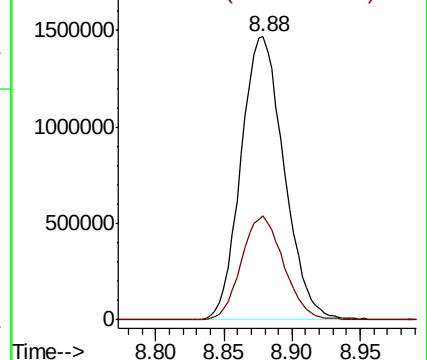
Ion Ratio Lower Upper

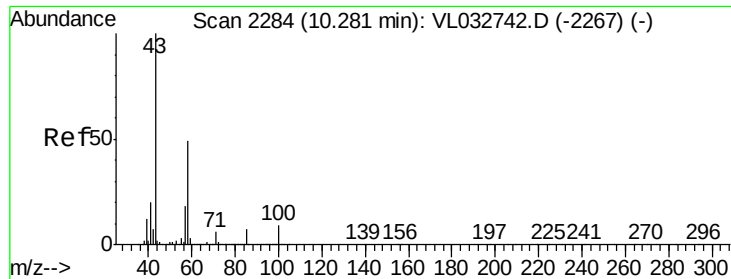
43 100

58 36.1 28.8 43.2



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





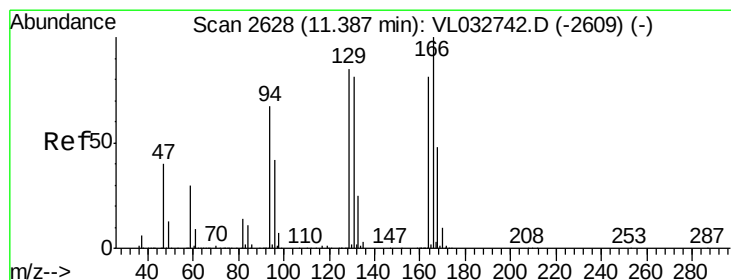
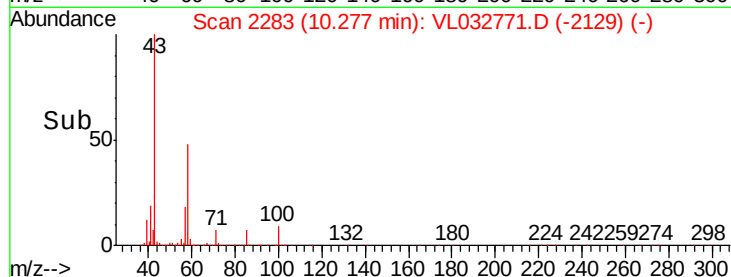
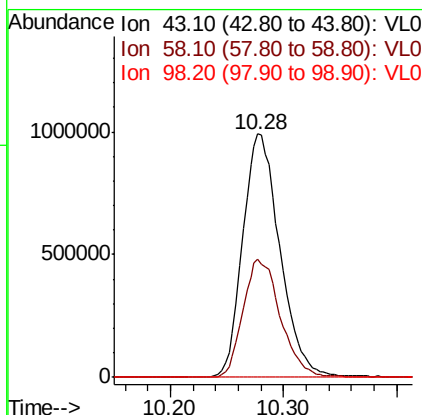
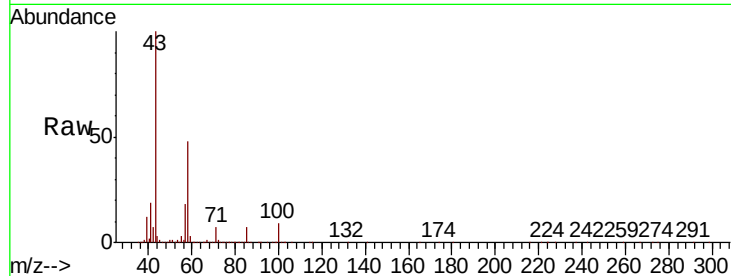
#51
2-Hexanone
Concen: 10.912 ppbv
RT: 10.28 min Scan# 2283
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS03

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.9	38.9	58.3
98	0.2	0.2	0.4

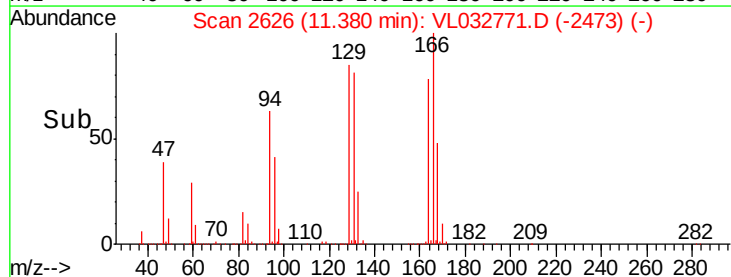
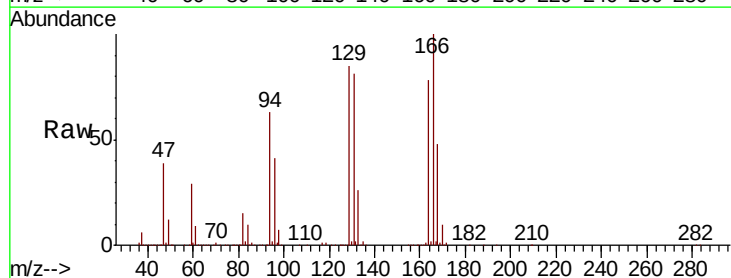
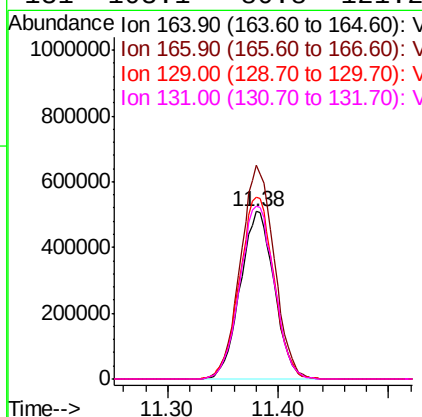
Manual Integrations
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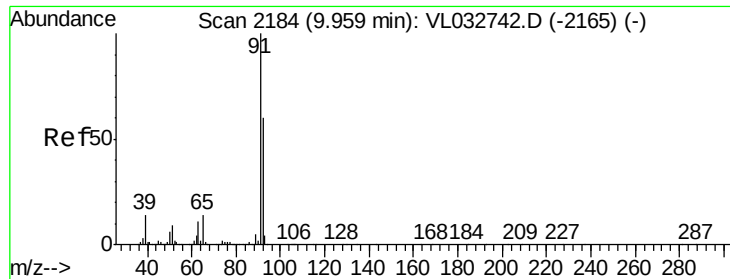
MMDadoda
11/16/2018 1:30:14 PM



#52
Tetrachloroethene
Concen: 9.831 ppbv
RT: 11.38 min Scan# 2626
Delta R.T. -0.01 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.9	99.3	148.9
129	108.8	83.9	125.9
131	103.1	80.8	121.2





#53

Toluene

Concen: 10.822 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS03

Tot Ion: 91 Resp: 3568833

Ion Ratio Lower Upper

91 100

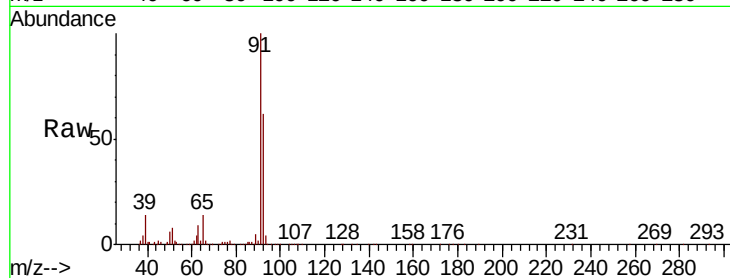
92 60.2 47.9 71.9

Manual Integrations

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

2000000

1500000

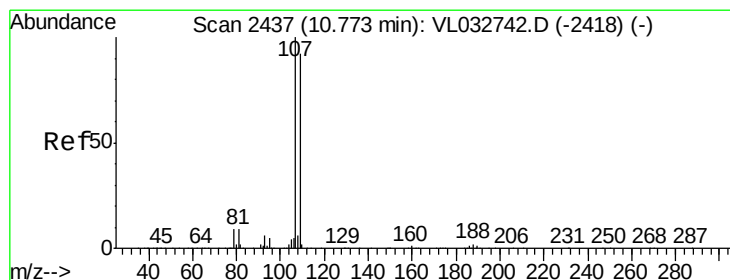
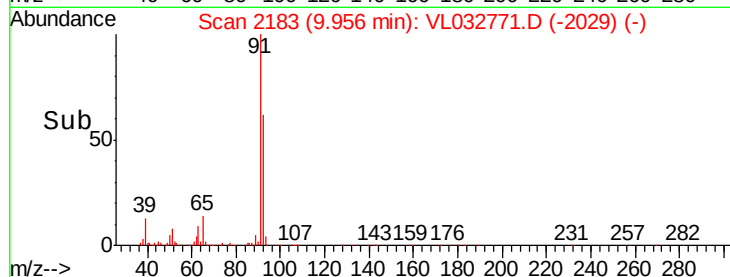
1000000

500000

0

9.90 9.96 10.00

Time-->



#54

1,2-Dibromoethane

Concen: 9.766 ppbv

RT: 10.77 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VL032771.D

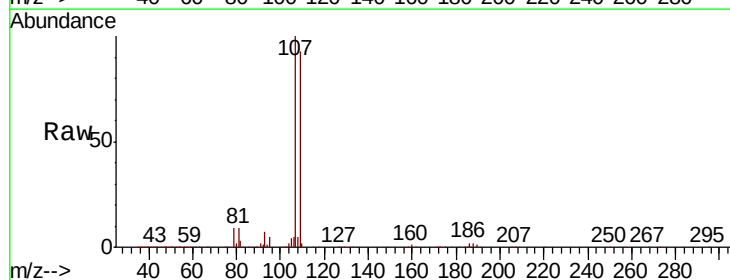
Acq: 14 Nov 2018 23:02

Tgt Ion:107 Resp: 1966145

Ion Ratio Lower Upper

107 100

109 92.8 73.8 110.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

1000000

800000

600000

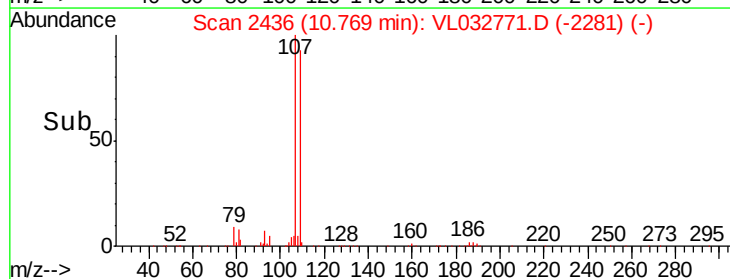
400000

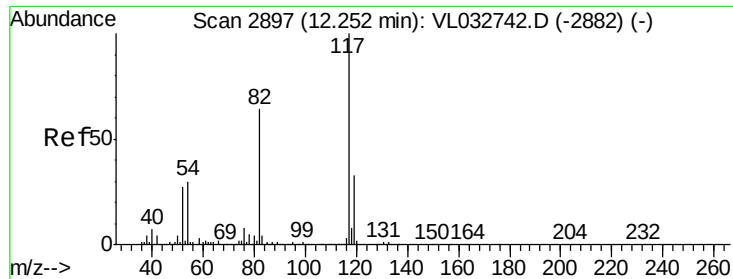
200000

0

10.70 10.77 10.80

Time-->





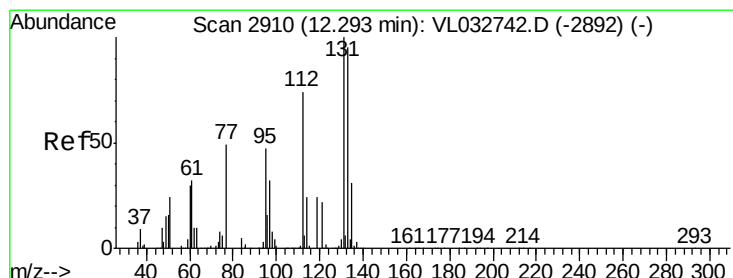
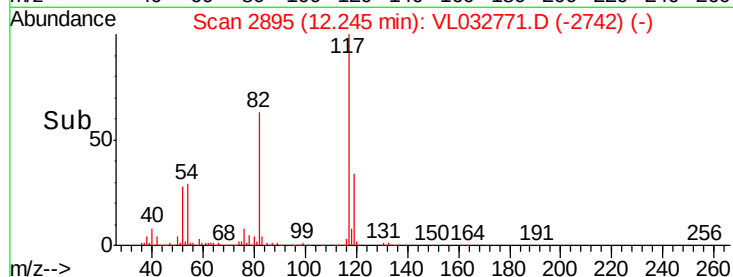
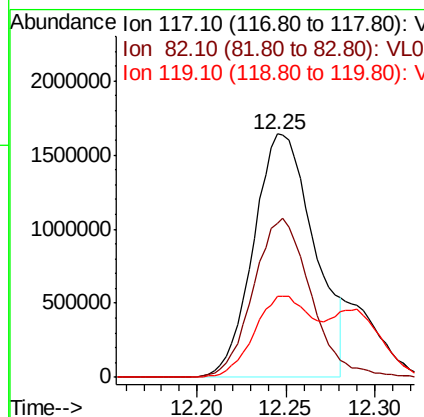
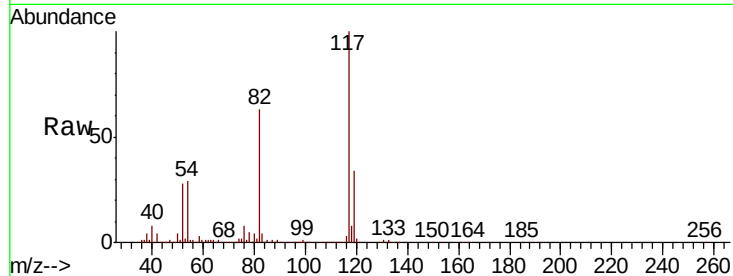
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS03

Tot Ion:117 Resp: 3893192
Ion Ratio Lower Upper
117 100
82 62.4 51.0 76.6
119 56.0 28.0 42.0#

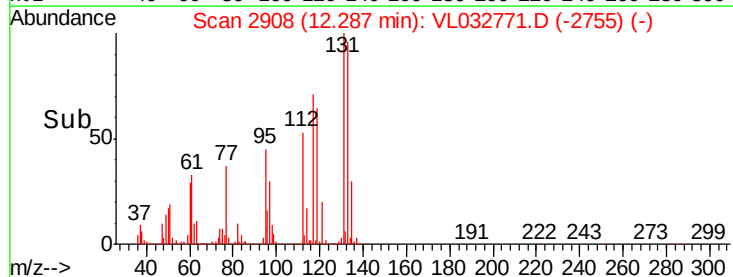
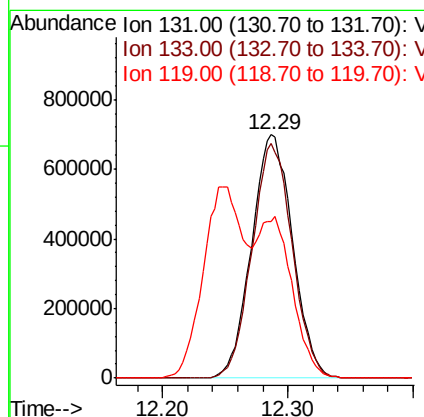
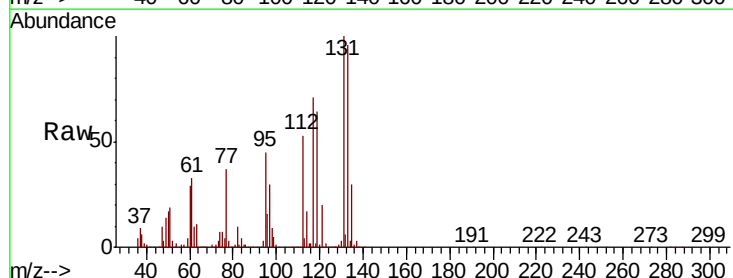
Manual Integrations
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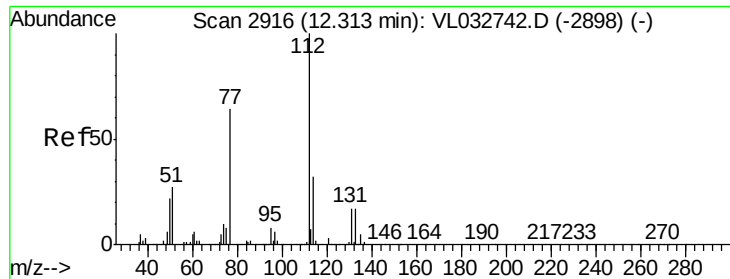
MMDadoda
11/16/2018 1:30:14 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.782 ppbv
RT: 12.29 min Scan# 2908
Delta R.T. -0.01 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Tgt Ion:131 Resp: 1594617
Ion Ratio Lower Upper
131 100
133 94.5 75.8 113.6
119 57.5 45.2 67.8





#57

Chlorobenzene

Concen: 8.850 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS03

Tot Ion:112 Resp: 2637628

Ion Ratio Lower Upper

112 100

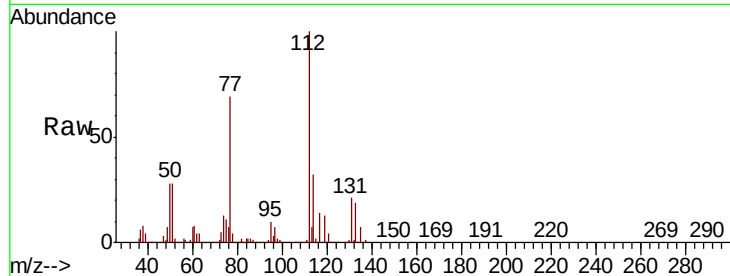
77 68.4 52.3 78.5

114 32.3 28.4 34.8

Manual Integrations
APPROVED

MMDadoda

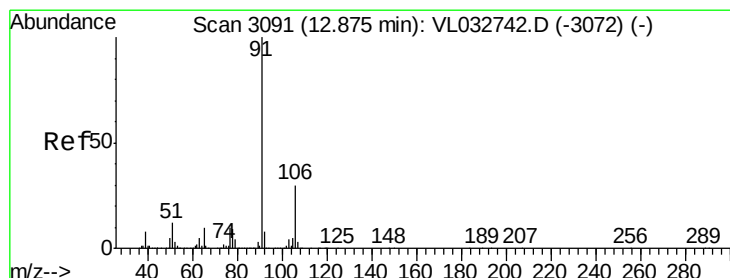
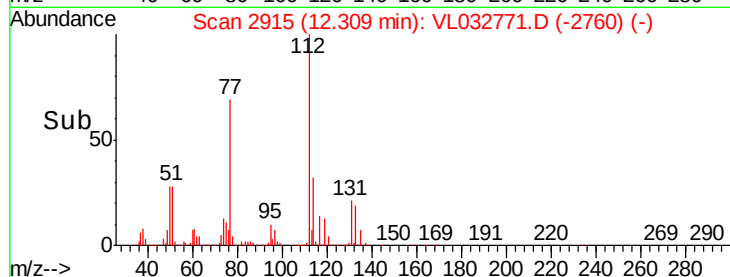
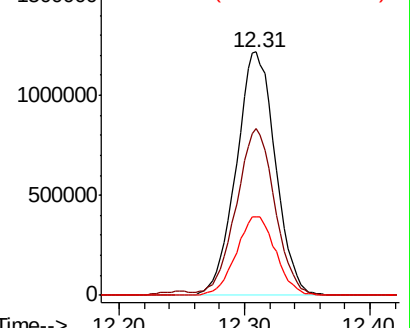
11/16/2018 1:30:14 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.122 ppbv

RT: 12.87 min Scan# 3090

Delta R.T. -0.00 min

Lab File: VL032771.D

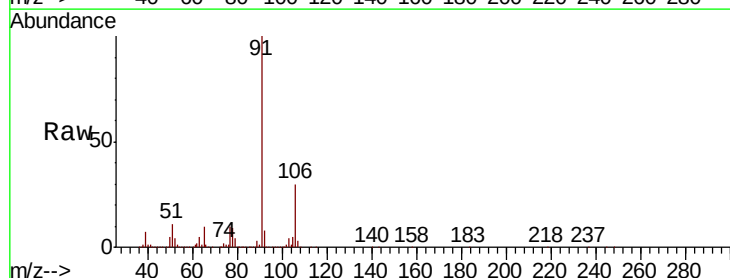
Acq: 14 Nov 2018 23:02

Tgt Ion: 91 Resp: 4742418

Ion Ratio Lower Upper

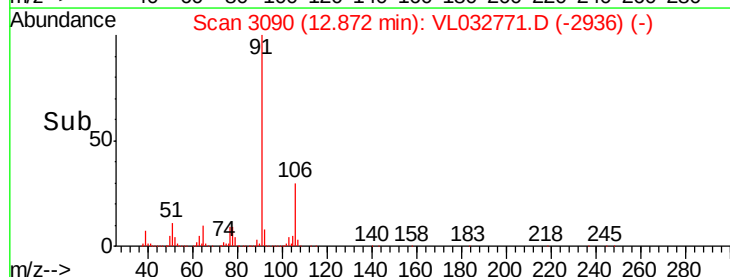
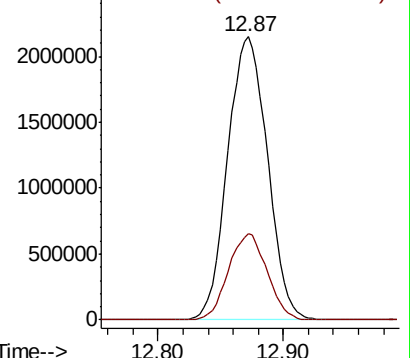
91 100

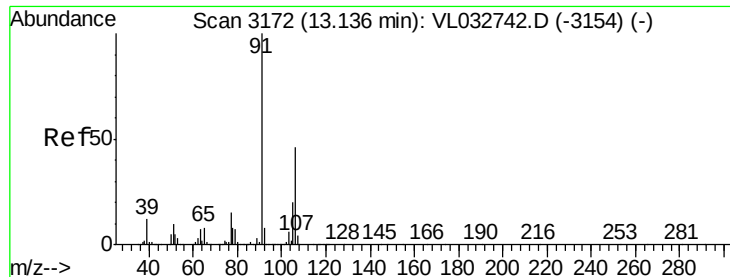
106 30.3 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





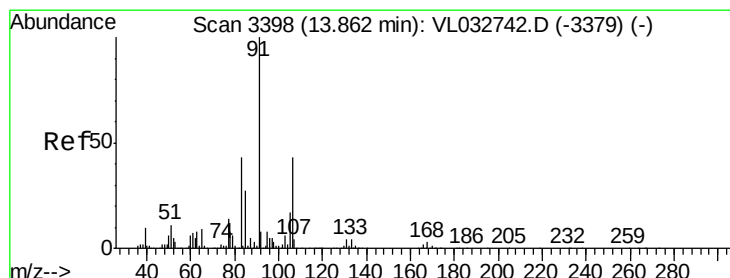
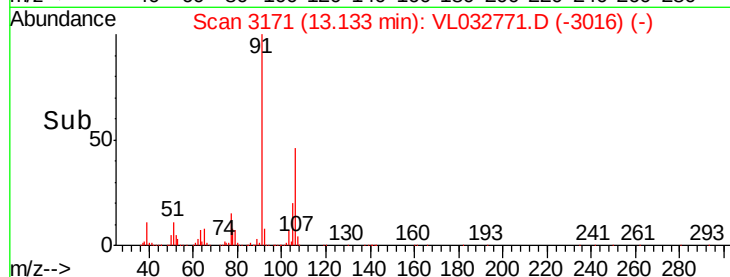
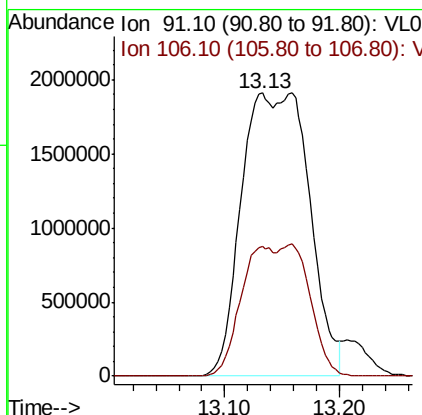
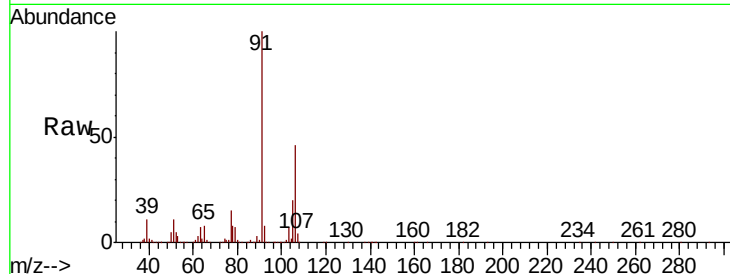
#59
m/p-Xylene
Concen: 18.749 ppbv m
RT: 13.13 min Scan# 3171
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS03

Tot Ion: 91 Resp: 7820150
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#

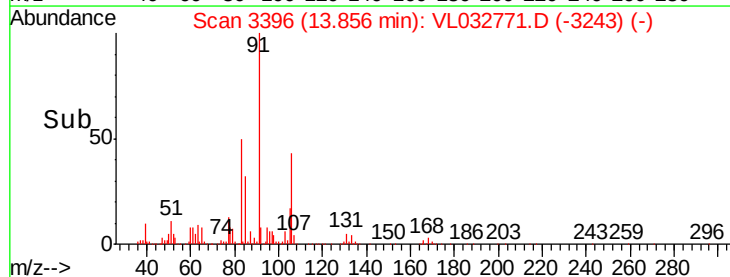
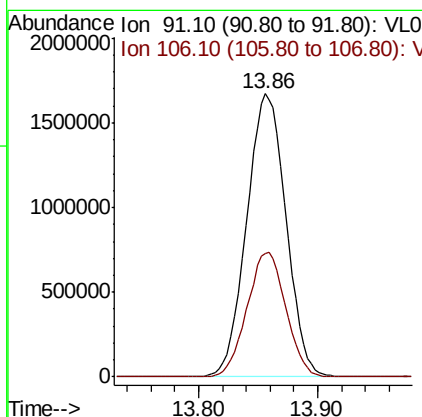
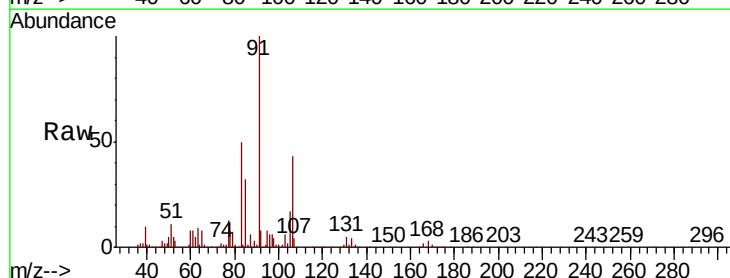
Manual Integrations
APPROVED

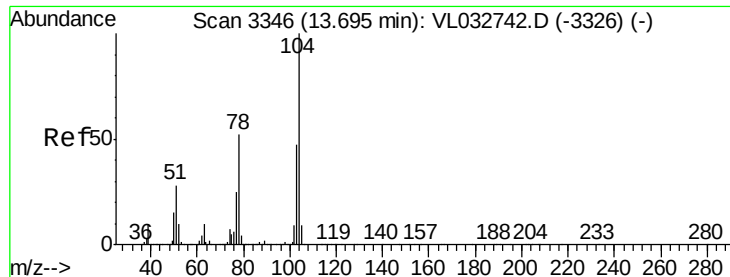
MMDadoda
11/16/2018 1:30:14 PM



#60
o-Xylene
Concen: 9.095 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.01 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Tgt Ion: 91 Resp: 3814527
Ion Ratio Lower Upper
91 100
106 43.5 21.9 65.7





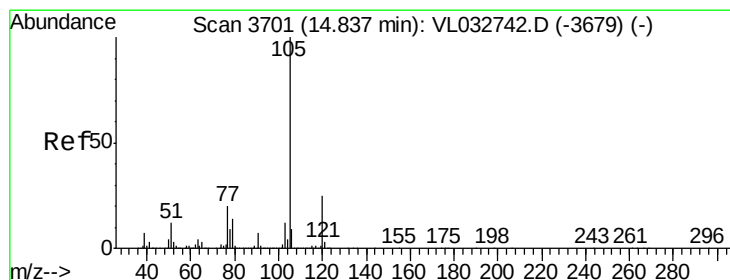
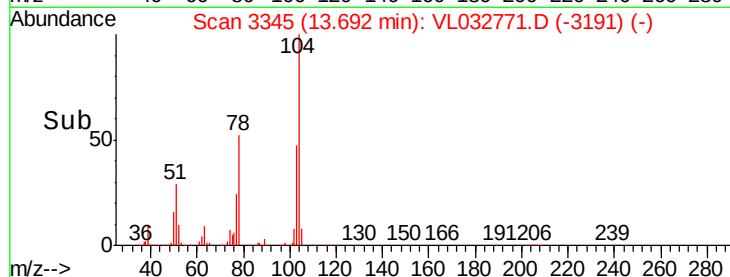
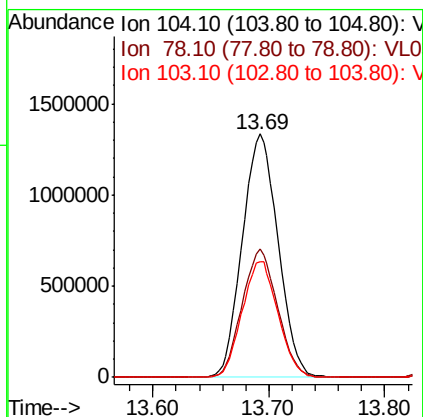
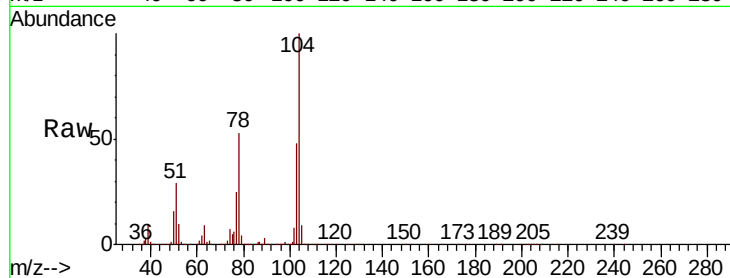
#61
Stvrene
Concen: 10.493 ppbv
RT: 13.69 min Scan# 3345
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS03

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.3	42.2	63.4
103	47.8	38.2	57.2

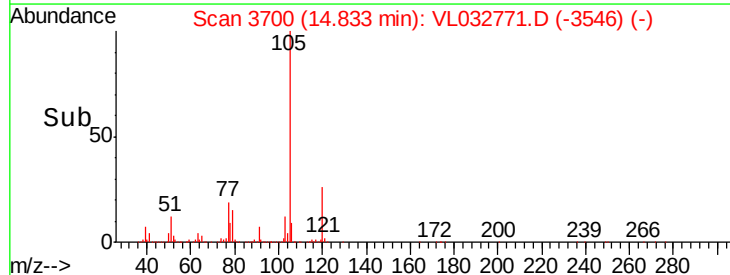
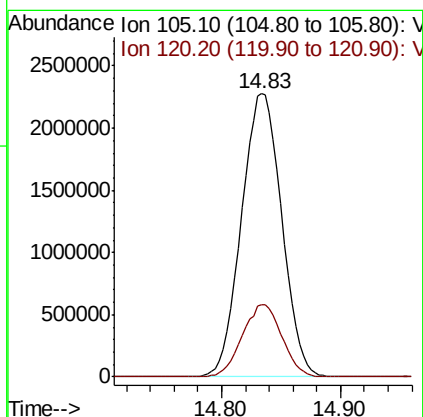
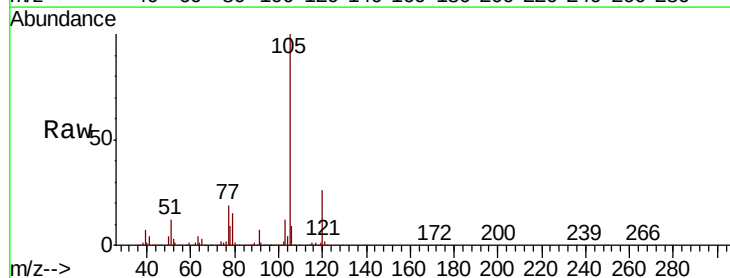
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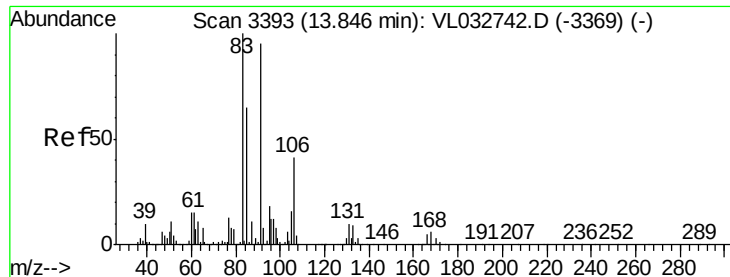
MMDadoda
11/16/2018 1:30:14 PM



#62
Isopropylbenzene
Concen: 9.396 ppbv
RT: 14.83 min Scan# 3700
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.1	20.1	30.1





#63

1,1,2,2-Tetrachloroethane

Concen: 7.832 ppbv

RT: 13.84 min Scan# 3392

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS03

Tot Ion: 83 Resp: 2560378

Ion Ratio Lower Upper

83 100

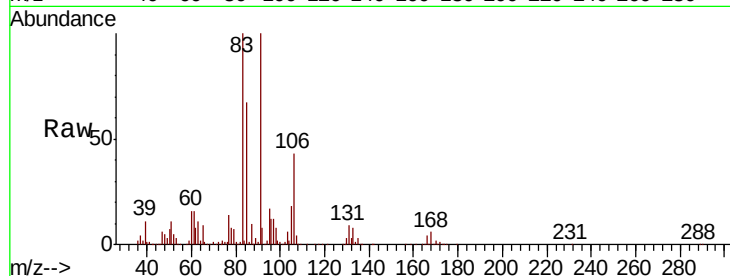
131 9.5 4.7 14.1

85 65.0 32.5 97.4

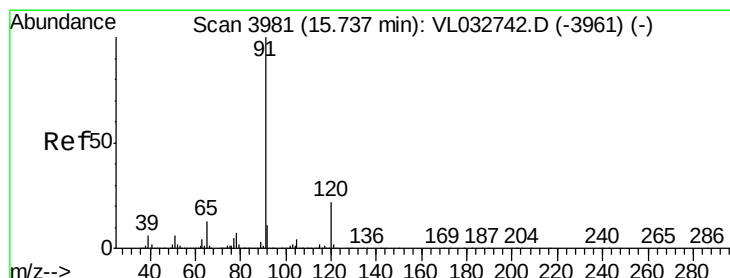
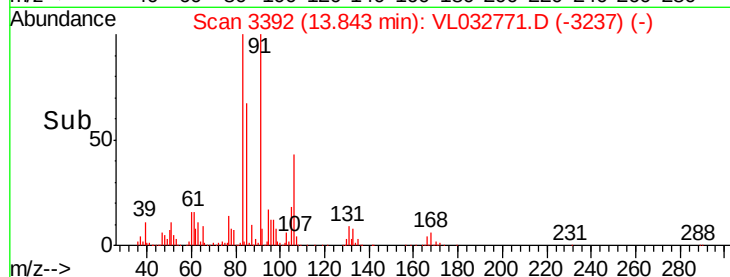
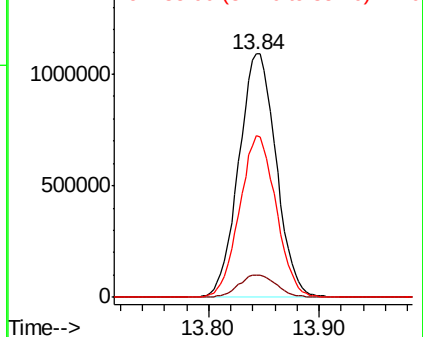
Manual Integrations
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11/16/2018 1:30:14 PM



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: 8.939 ppbv

RT: 15.73 min Scan# 3979

Delta R.T. -0.01 min

Lab File: VL032771.D

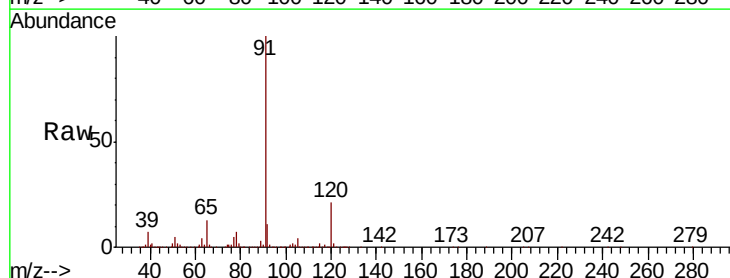
Acq: 14 Nov 2018 23:02

Tgt Ion:120 Resp: 1332841

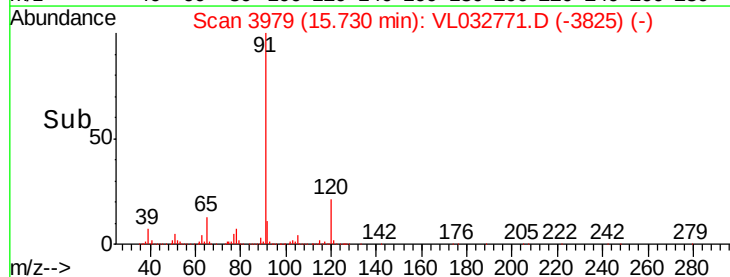
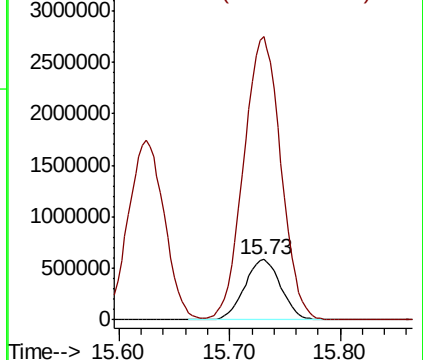
Ion Ratio Lower Upper

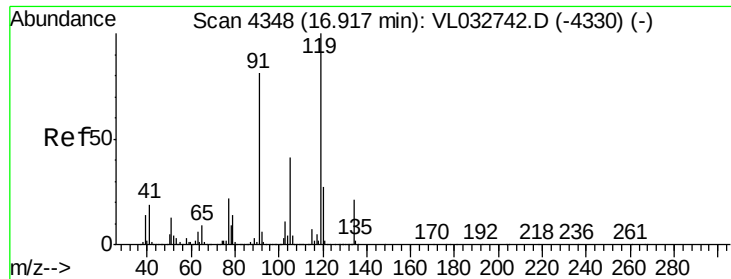
120 100

91 481.8 381.7 572.5



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





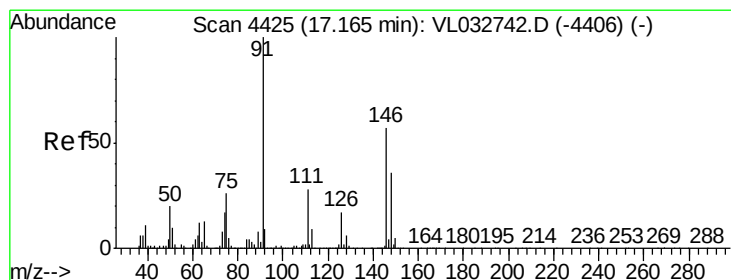
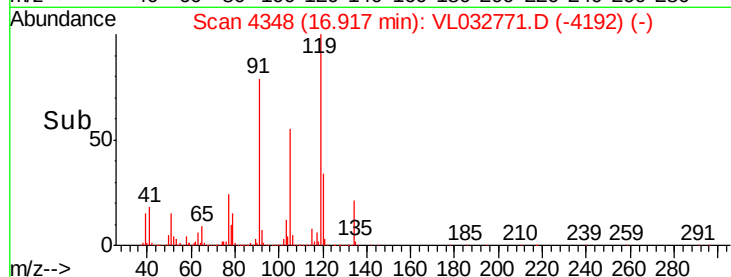
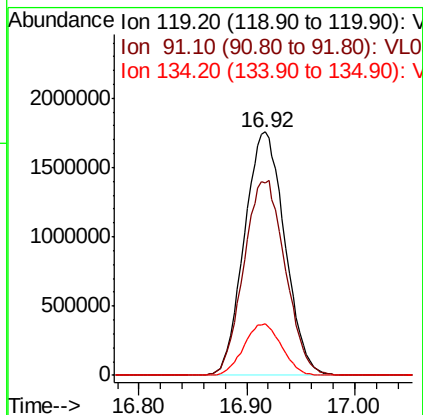
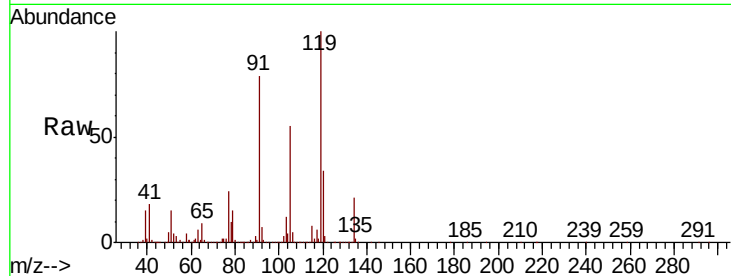
#65
tert-Butylbenzene
Concen: 8.990 ppbv
RT: 16.92 min Scan# 4348
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Instrument :
MSVOA_L
ClientSampleId :
VL1114ABS03

Tot Ion	Ratio	Lower	Upper
119	100		
91	82.3	65.6	98.4
134	19.9	15.9	23.9

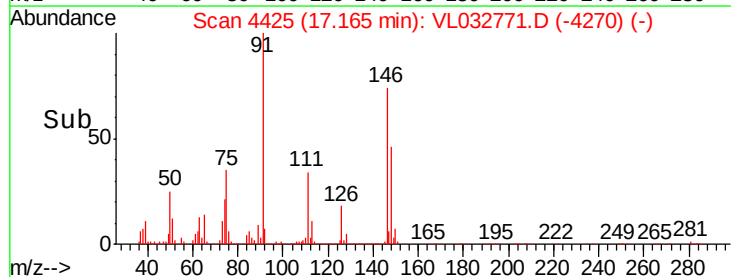
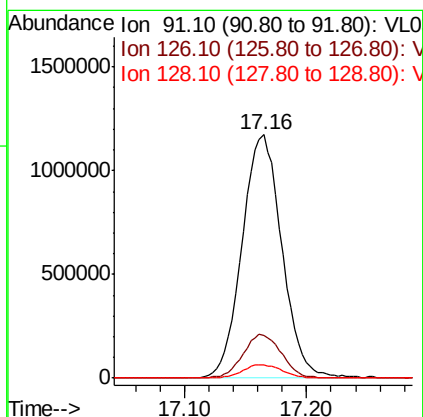
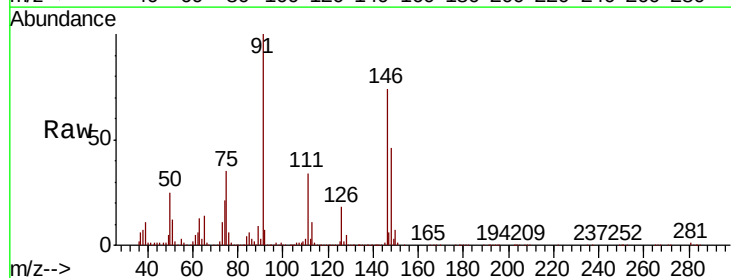
Manual Integrations
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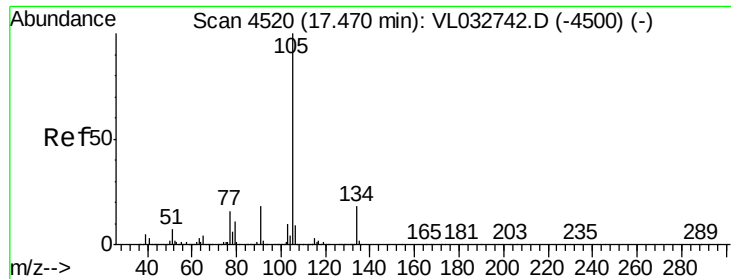
MMDadoda
11/16/2018 1:30:14 PM



#66
Benzyl Chloride
Concen: 9.369 ppbv
RT: 17.16 min Scan# 4425
Delta R.T. -0.00 min
Lab File: VL032771.D
Acq: 14 Nov 2018 23:02

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.6	14.2	21.2
128	5.6	4.5	6.7





#67

sec-Butylbenzene

Concen: 8.856 ppbv

RT: 17.46 min Scan# 4518

Delta R.T. -0.01 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS03

Tot Ion: 105 Resp: 6485912

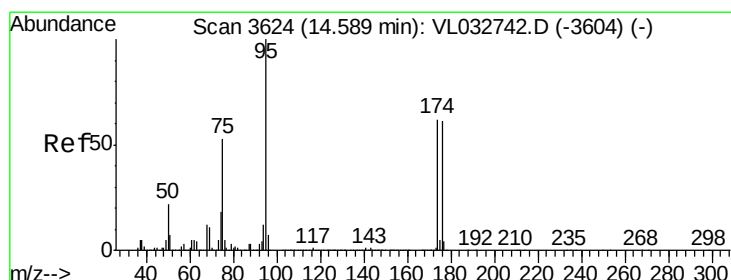
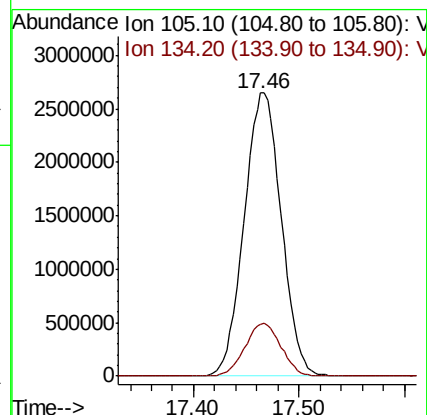
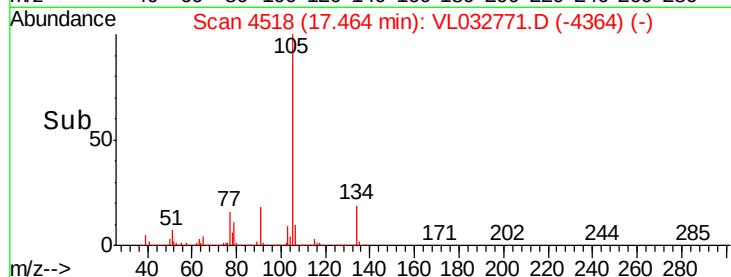
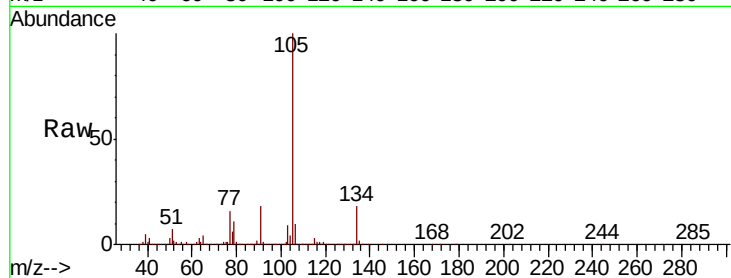
Ion Ratio Lower Upper

105 100

134 18.2 14.6 21.8

Manual Integrations
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11/16/2018 1:30:14 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.773 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

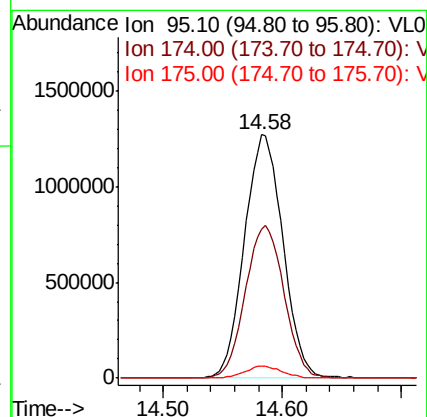
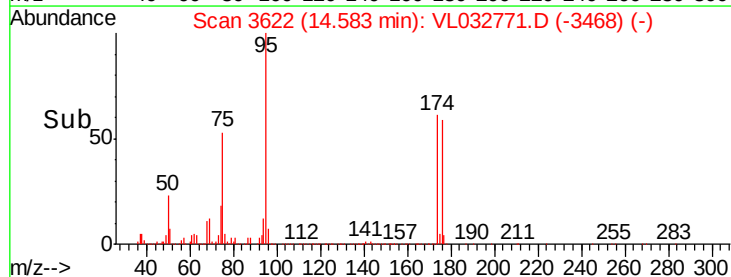
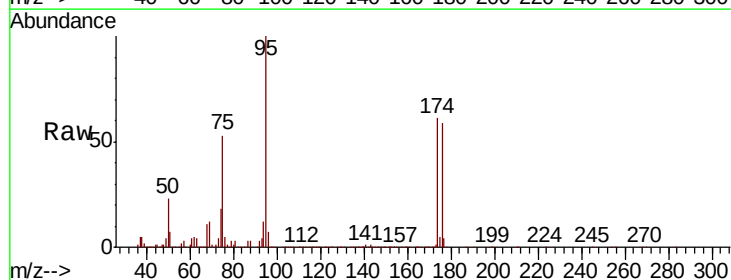
Tgt Ion: 95 Resp: 2845672

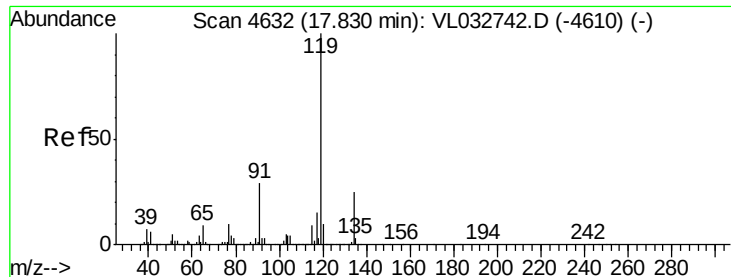
Ion Ratio Lower Upper

95 100

174 63.4 50.7 76.1

175 4.7 3.8 5.6





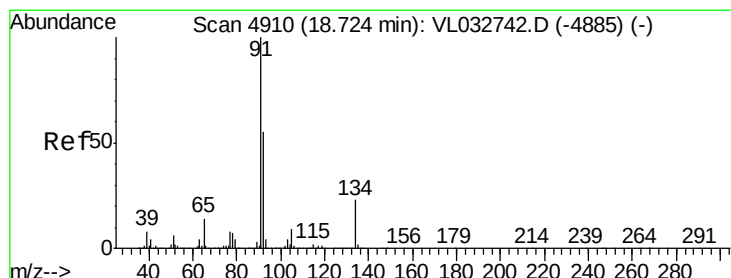
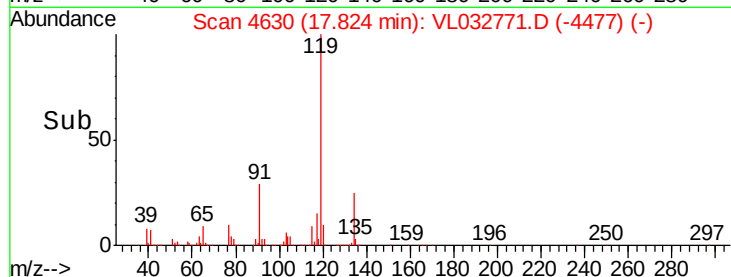
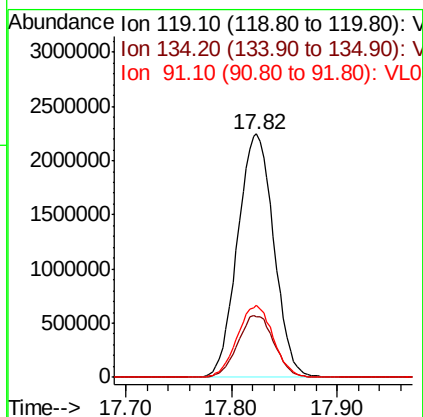
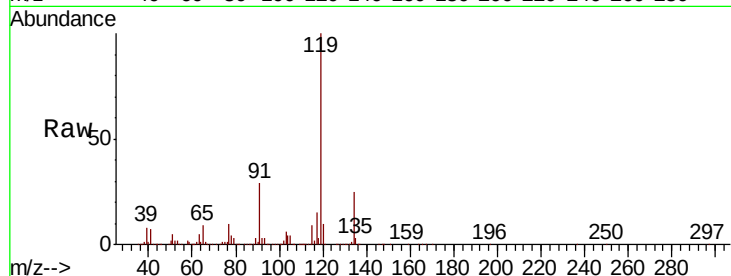
#69
 p-Isopropyltoluene
 Concen: 9.199 ppbv
 RT: 17.82 min Scan# 4630
 Delta R.T. -0.01 min
 Lab File: VL032771.D
 Acq: 14 Nov 2018 23:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS03

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.2	30.4
91	29.2	23.5	35.3

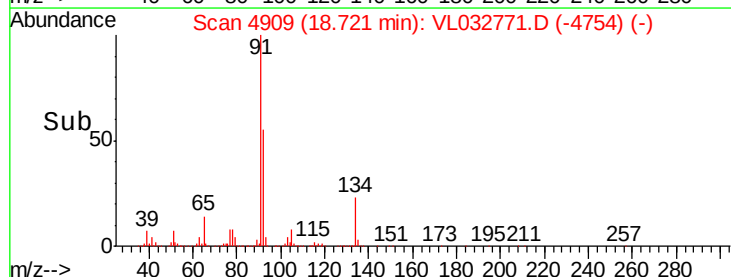
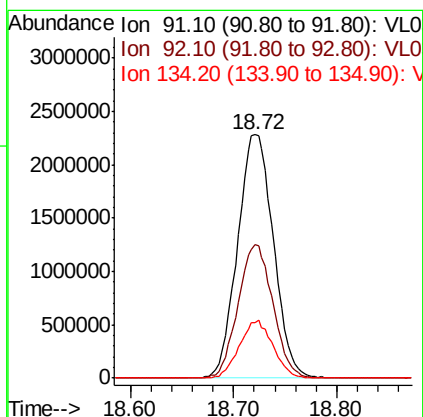
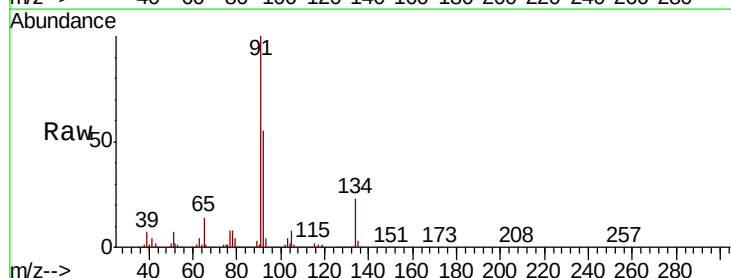
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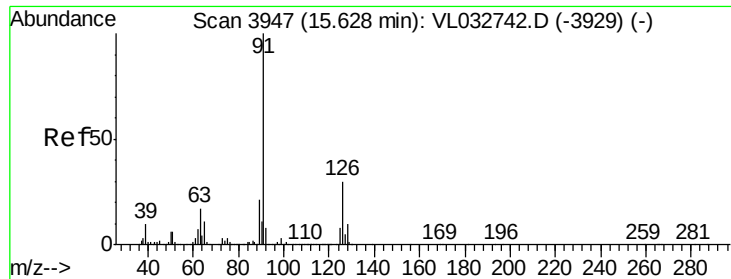
MMDadoda
 11/16/2018 1:30:14 PM



#70
 n-Butylbenzene
 Concen: 9.310 ppbv
 RT: 18.72 min Scan# 4909
 Delta R.T. -0.00 min
 Lab File: VL032771.D
 Acq: 14 Nov 2018 23:02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.5	42.9	64.3
134	22.2	17.8	26.8





#71

2-Chlorotoluene

Concen: 9.368 ppbv

RT: 15.62 min Scan# 3946

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS03

Tot Ion: 91 Resp: 3960317

Ion Ratio Lower Upper

91 100

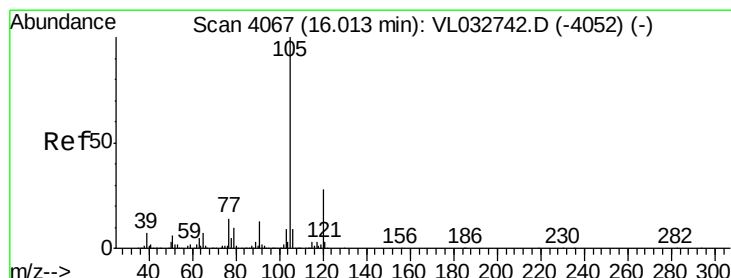
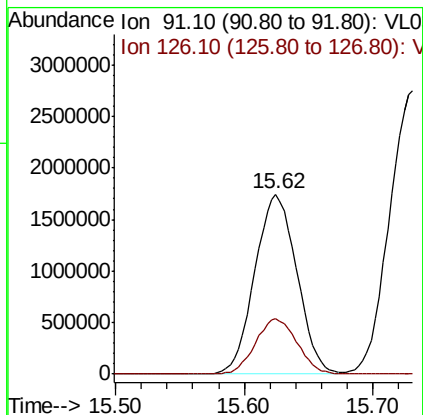
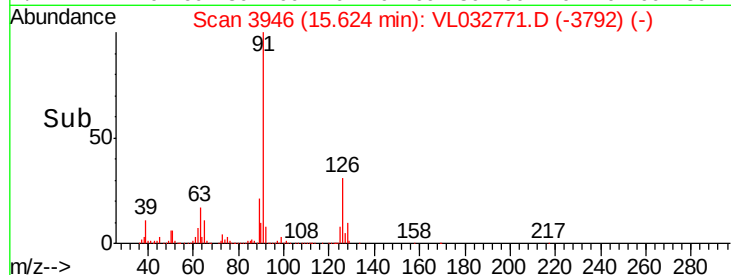
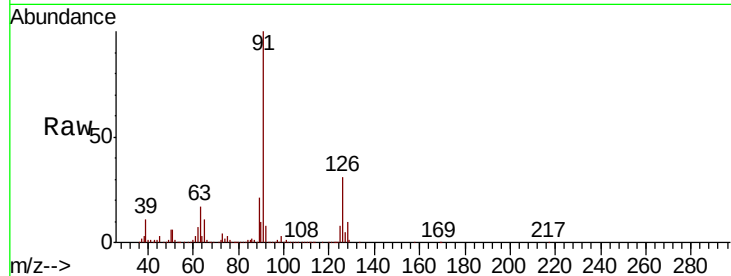
126 30.6 12.1 48.5

Manual Integrations

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#72

4-Ethyltoluene

Concen: 9.341 ppbv

RT: 16.01 min Scan# 4065

Delta R.T. -0.01 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

Tgt Ion: 105 Resp: 4293755

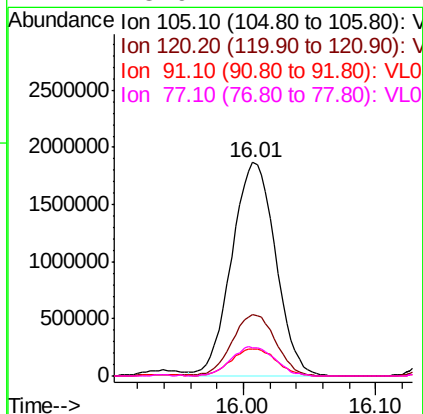
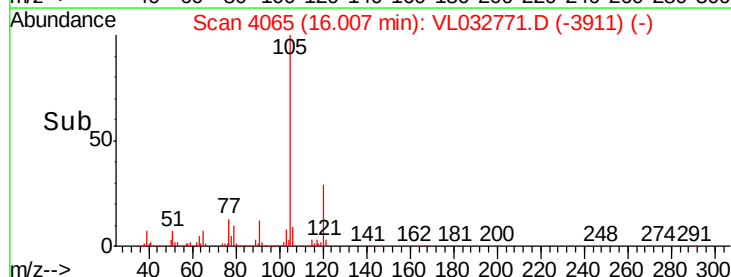
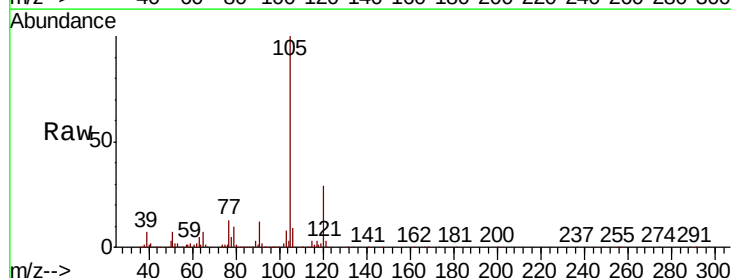
Ion Ratio Lower Upper

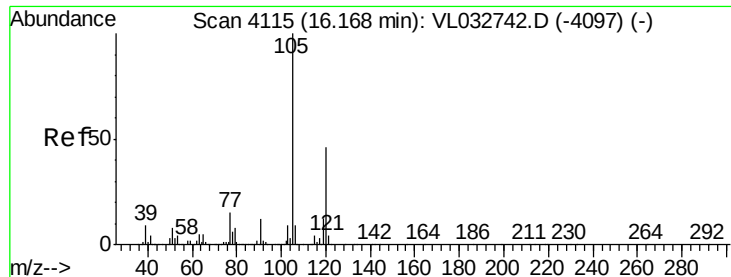
105 100

120 28.6 22.9 34.3

91 13.0 10.6 15.8

77 13.9 11.4 17.2





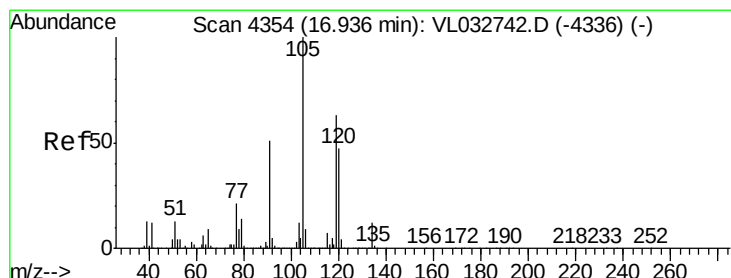
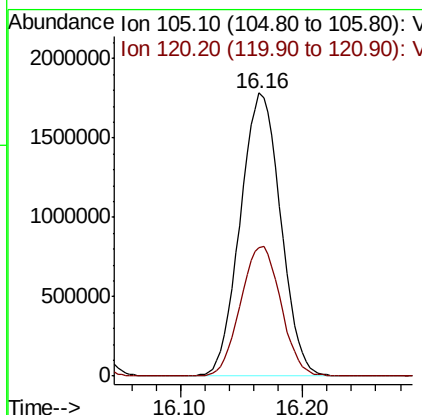
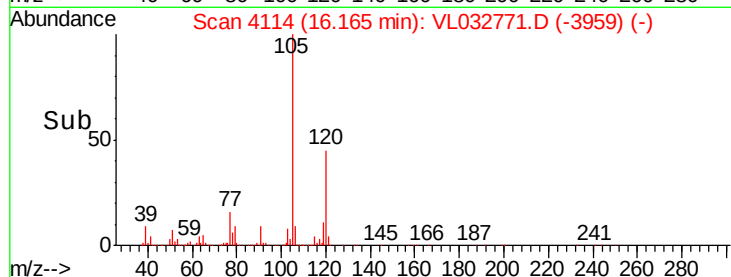
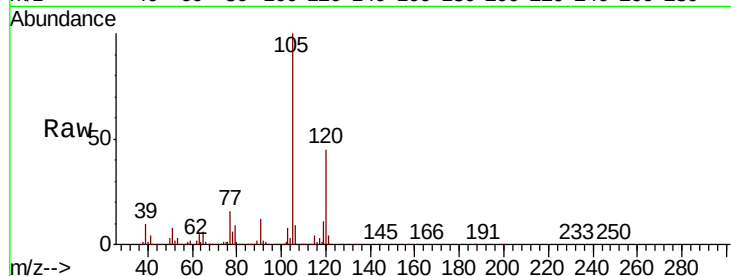
#73
 1,3,5-Trimethylbenzene
 Concen: 9.082 ppbv
 RT: 16.16 min Scan# 4114
 Delta R.T. -0.00 min
 Lab File: VL032771.D
 Acq: 14 Nov 2018 23:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS03

Tot Ion:105 Resp: 4082067
 Ion Ratio Lower Upper
 105 100
 120 45.4 36.6 55.0

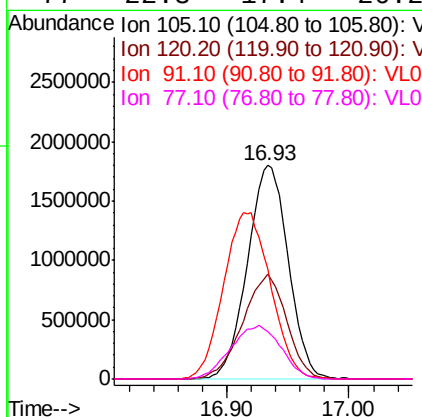
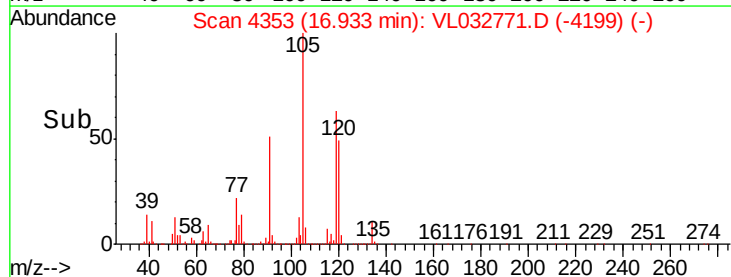
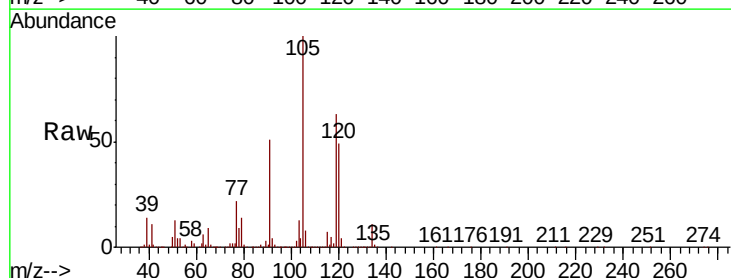
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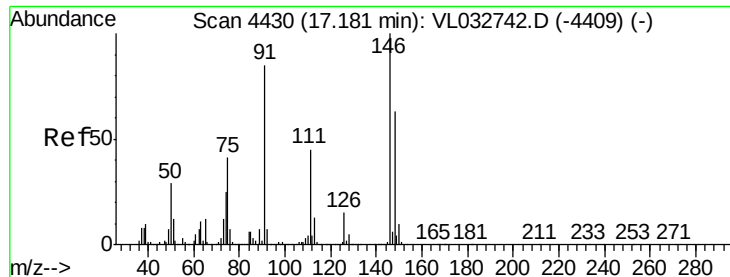
MMDadoda
 11/16/2018 1:30:14 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 8.661 ppbv
 RT: 16.93 min Scan# 4353
 Delta R.T. -0.00 min
 Lab File: VL032771.D
 Acq: 14 Nov 2018 23:02

Tgt Ion:105 Resp: 4165748
 Ion Ratio Lower Upper
 105 100
 120 48.9 37.6 56.4
 91 51.2 42.5 63.7
 77 22.3 17.4 26.2





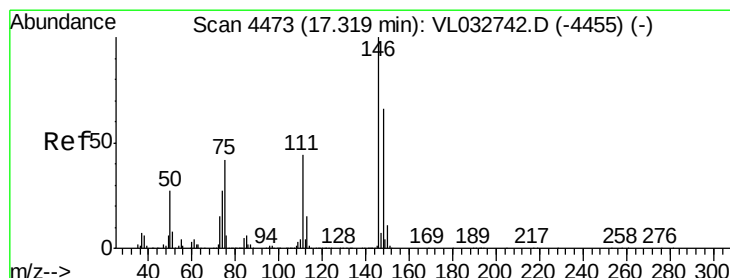
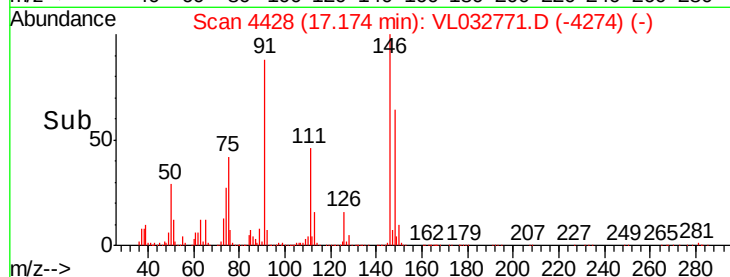
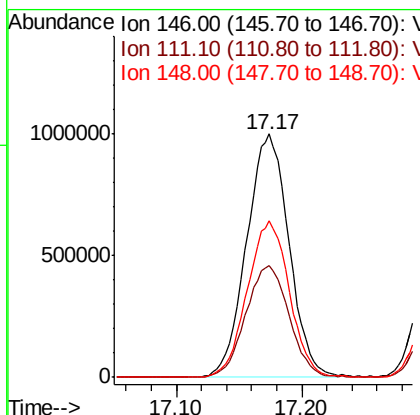
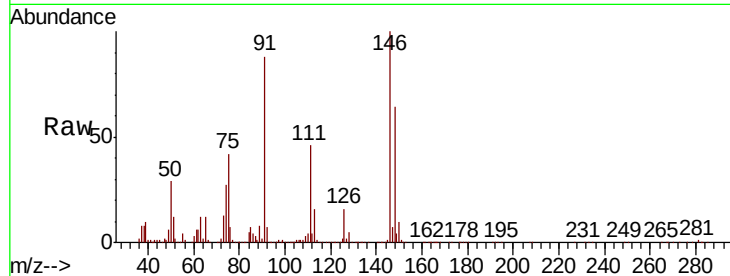
#75
 1,3-Dichlorobenzene
 Concen: 8.498 ppbv
 RT: 17.17 min Scan# 4428
 Delta R.T. -0.01 min
 Lab File: VL032771.D
 Acq: 14 Nov 2018 23:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS03

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.1	23.5	70.6
148	64.2	31.8	95.3

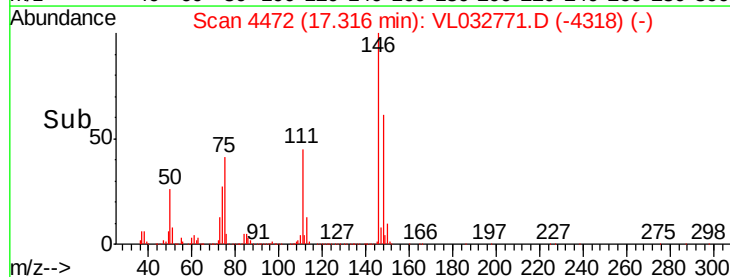
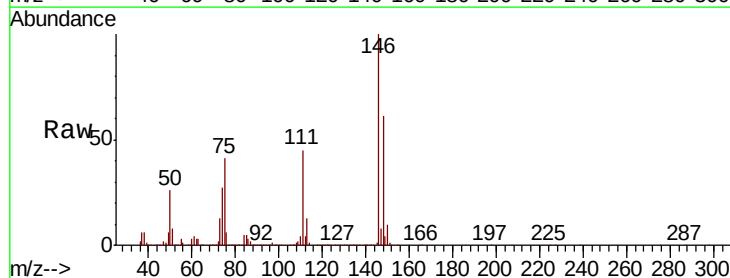
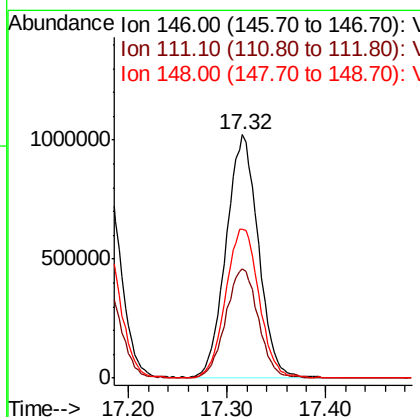
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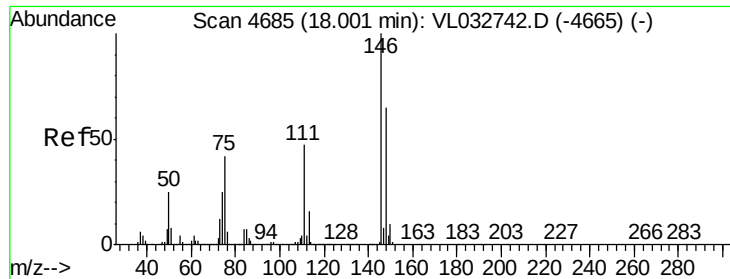
MMDadoda
 11/16/2018 1:30:14 PM



#76
 1,4-Dichlorobenzene
 Concen: 9.032 ppbv
 RT: 17.32 min Scan# 4472
 Delta R.T. -0.00 min
 Lab File: VL032771.D
 Acq: 14 Nov 2018 23:02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.7	22.5	67.5
148	63.7	32.5	97.5





#77

1,2-Dichlorobenzene

Concen: 8.980 ppbv

RT: 18.00 min Scan# 4684

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS03

Tot Ion:146 Resp: 2291881

Ion Ratio Lower Upper

146 100

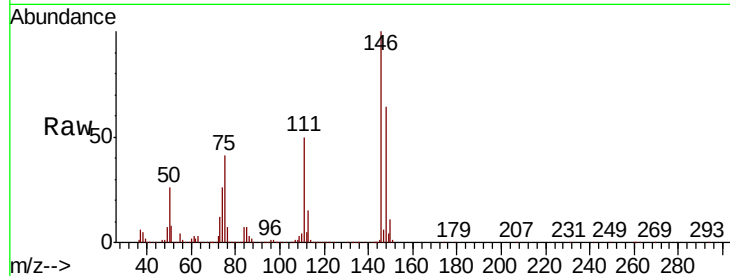
111 48.9 24.4 73.2

148 63.9 32.2 96.6

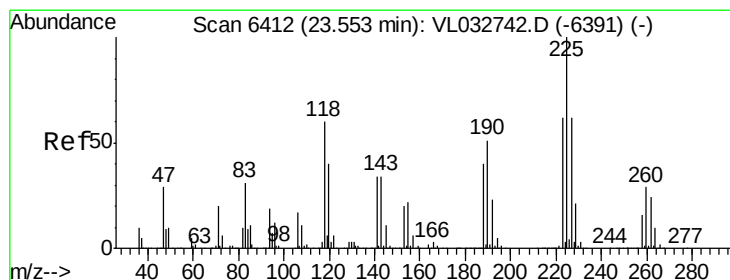
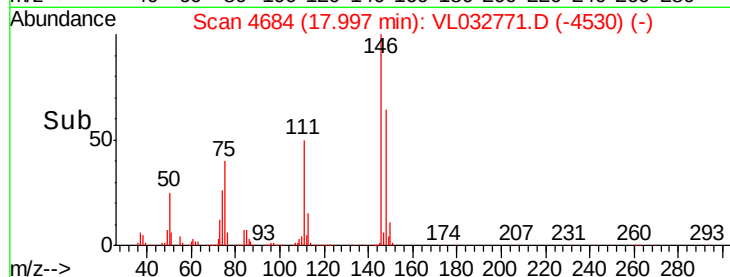
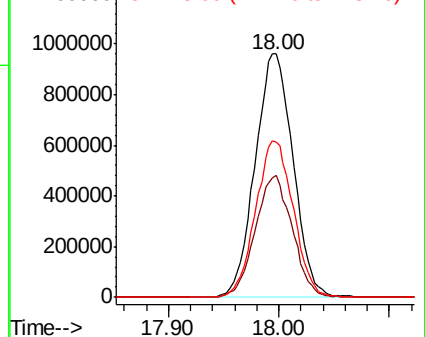
Manual Integrations
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 9.362 ppbv

RT: 23.55 min Scan# 6411

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

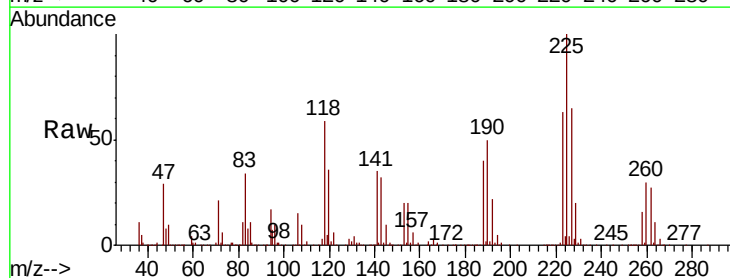
Tgt Ion:225 Resp: 1289540

Ion Ratio Lower Upper

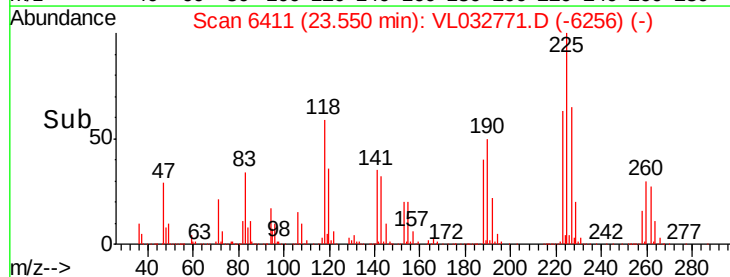
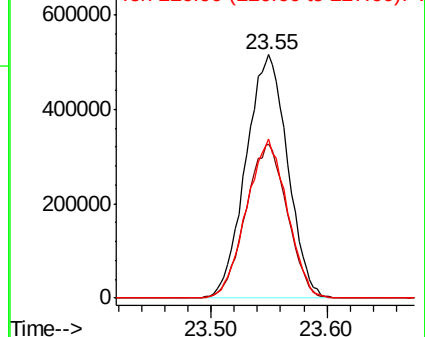
225 100

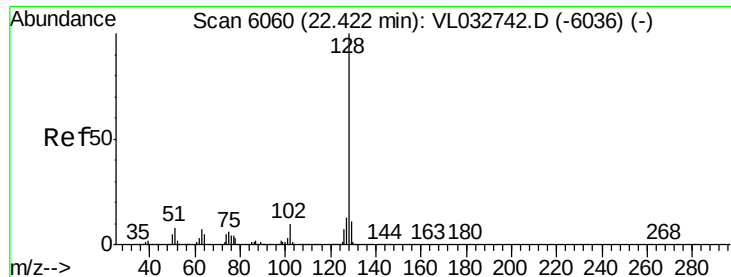
223 63.0 50.3 75.5

227 63.8 50.2 75.4



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 12.657 ppbv

RT: 22.42 min Scan# 6059

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

Instrument :

MSVOA_L

ClientSampleId :

VL1114ABS03

Tot Ion:128 Resp: 3998874

Ion Ratio Lower Upper

128 100

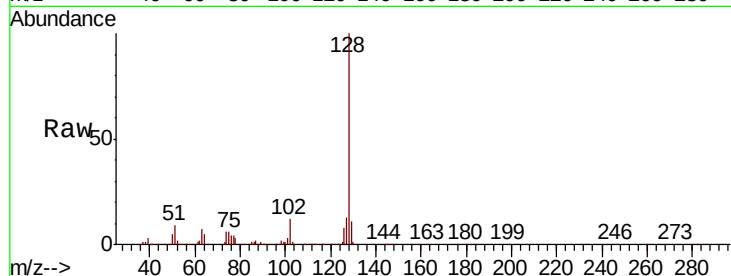
127 13.1 10.1 15.1

129 10.9 8.9 13.3

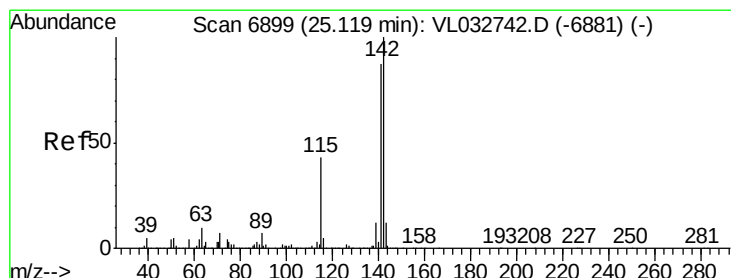
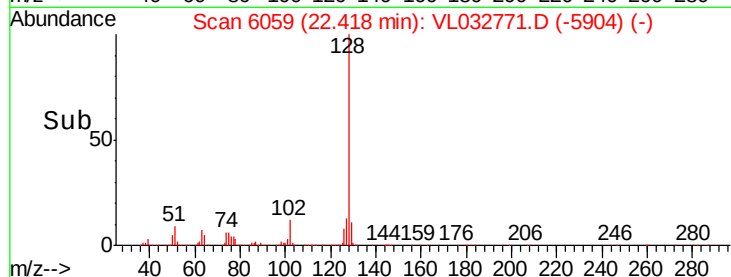
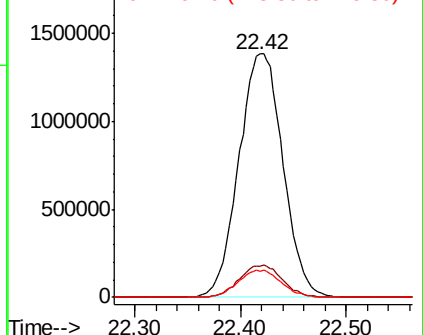
Manual Integrations
APPROVED

MMDadoda

11/16/2018 1:30:14 PM



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: 11.865 ppbv

RT: 25.12 min Scan# 6899

Delta R.T. -0.00 min

Lab File: VL032771.D

Acq: 14 Nov 2018 23:02

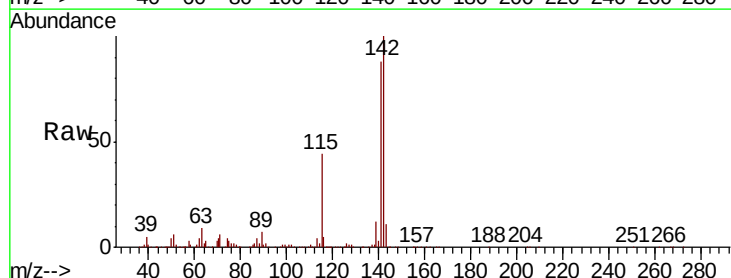
Tgt Ion:142 Resp: 938896

Ion Ratio Lower Upper

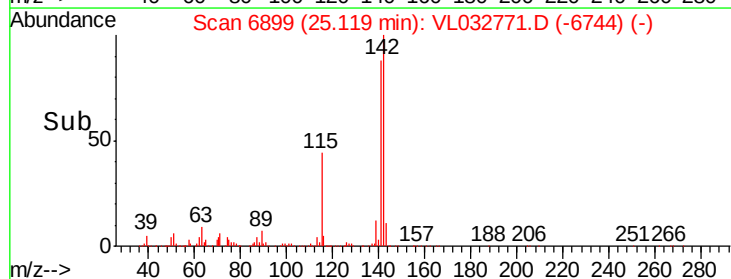
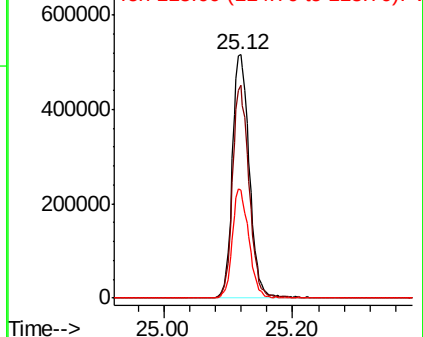
142 100

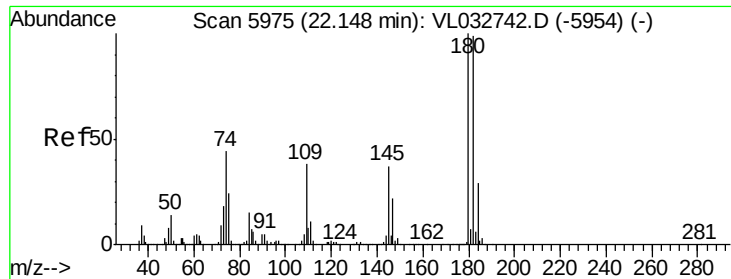
141 85.2 68.7 103.1

115 43.8 35.5 53.3



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: 11.780 ppbv
 RT: 22.15 min Scan# 5974
 Delta R.T. -0.00 min
 Lab File: VL032771.D
 Acq: 14 Nov 2018 23:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1114ABS03

Tot Ion:	180	Resp:	1869060
Ion	Ratio	Lower	Upper
180	100		
182	95.6	77.3	115.9
184	30.8	24.2	36.4

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:30:14 PM

