

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
 Data File : VL032265.D
 Acq On : 18 Jul 2018 13:14
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 7/20/2018 2:53:09 PM

Quant Time: Jul 18 14:35:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 18
 QLast Update : Wed Jul 18 09:58:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1691544	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	3961722	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.34	117	4399838m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3612836	10.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.10%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.13	85	3705539	15.22	ppbv	98
3) Chlorodifluoromethane	3.06	51	2624148	12.62	ppbv	100
4) Chloromethane	3.22	50	1618370	13.69	ppbv	99
5) Vinyl Chloride	3.34	62	1545140	13.26	ppbv	99
6) Bromomethane	3.57	94	842096	12.98	ppbv	94
7) Chloroethane	3.66	64	557303	13.89	ppbv	97
8) Dichlorotetrafluoroethane	3.27	85	3024665	11.31	ppbv	100
9) Propene	3.09	41	1294783	14.61	ppbv	100
10) Heptane	8.34	43	3842688	15.27	ppbv	98
11) Trichlorofluoromethane	4.07	101	2984569	12.81	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.62	101	1958378	13.16	ppbv	99
13) Ethanol	3.71	45	295068	11.54	ppbv	100
14) Bromoethene	3.85	108	953478	13.58	ppbv	99
15) Acetone	3.96	43	2461679	12.54	ppbv	100
16) 1,3-Butadiene	3.42	39	1387648	13.99	ppbv	98
17) tert-Butyl alcohol	4.42	59	808006	8.82	ppbv	100
18) 1,1-Dichloroethene	4.42	96	988347	14.27	ppbv	99
19) Isopropyl Alcohol	4.09	45	1696804	13.16	ppbv	100
20) Methylene Chloride	4.48	84	897071	13.49	ppbv	98
21) Allyl Chloride	4.55	41	1800682	15.67	ppbv	99
22) trans-1,2-Dichloroethene	5.04	96	1030923	15.64	ppbv	97
23) Vinyl Acetate	5.23	43	5021763	15.38	ppbv	100
24) 1,1-Dichloroethane	5.17	63	3198970	13.96	ppbv	99
25) Ethyl Acetate	5.85	43	5442429	14.01	ppbv	100
26) Hexane	5.86	57	2482133	14.01	ppbv	100
27) Carbon Disulfide	4.69	76	2522212	15.91	ppbv	100
28) Methyl tert-Butyl Ether	5.19	73	3906651	14.01	ppbv	99
29) Chloroform	5.93	83	3657610	13.37	ppbv	99
30) Cyclohexane	7.34	84	2278009	14.57	ppbv	99
31) cis-1,2-Dichloroethene	5.72	61	2620497	14.82	ppbv	100
32) 1,1,1-Trichloroethane	6.71	97	3698103	13.93	ppbv	99
34) 2-Butanone	5.40	43	3933435	14.57	ppbv	100
35) Carbon Tetrachloride	7.22	117	3766173	14.05	ppbv	99
36) Benzene	7.09	78	5507423	13.99	ppbv	99
37) 1,2-Dichloroethane	6.50	62	3092340	14.35	ppbv	100
38) Trichloroethene	8.05	130	1669702	12.36	ppbv	98
39) 1,2-Dichloropropane	7.83	63	2251554	14.39	ppbv	97
40) 1,4-Dioxane	8.04	88	610167	11.37	ppbv #	11
41) Tetrahydrofuran	6.23	42	2420704	16.02	ppbv	100
42) Bromodichloromethane	8.01	83	4226046	13.77	ppbv	96
43) Methyl Methacrylate	8.22	69	2241110	14.73	ppbv	98

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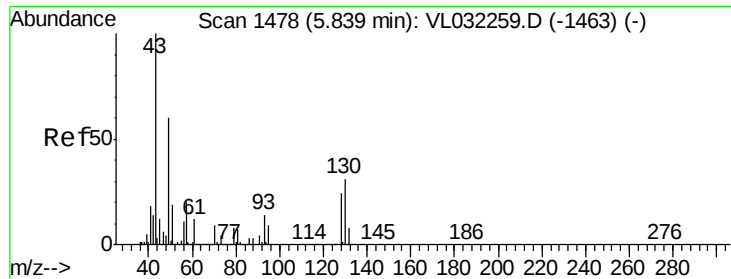
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	8734464	12.90	ppbv	100
45) t-1,3-Dichloropropene	9.51	75	3521200	19.43	ppbv	98
46) cis-1,3-Dichloropropene	8.93	75	3375422	13.66	ppbv	97
47) 1,1,2-Trichloroethane	9.71	97	2115992	12.11	ppbv	97
48) Dibromochloromethane	10.55	129	3241307	12.47	ppbv	99
49) Bromoform	13.30	173	3199913	15.35	ppbv	100
50) 4-Methyl-2-Pentanone	8.96	43	5664427	12.13	ppbv	100
51) 2-Hexanone	10.37	43	5757276	14.76	ppbv #	100
52) Tetrachloroethene	11.47	164	1710431	11.76	ppbv	99
53) Toluene	10.04	91	6931780	14.89	ppbv	99
54) 1,2-Dibromoethane	10.86	107	3069199	11.90	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.38	131	2546984	13.33	ppbv #	71
57) Chlorobenzene	12.40	112	4654255	12.52	ppbv	99
58) Ethyl Benzene	12.96	91	8842030	13.80	ppbv	99
59) m/p-Xylene	13.25	91	14832909m	28.14	ppbv	
60) o-Xylene	13.95	91	7096725	13.64	ppbv	99
61) Styrene	13.78	104	6036087	15.49	ppbv	100
62) Isopropylbenzene	14.92	105	10212268	14.00	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.94	83	5304142	12.53	ppbv	99
64) n-propylbenzene	15.82	120	2720732	14.73	ppbv	96
65) tert-Butylbenzene	17.01	119	8196261	13.41	ppbv	100
66) Benzyl Chloride	17.26	91	6072315	19.64	ppbv	100
67) sec-Butylbenzene	17.56	105	12359890	13.85	ppbv	99
69) p-Isopropyltoluene	17.92	119	9905700	14.25	ppbv	99
70) n-Butylbenzene	18.81	91	10847982	14.13	ppbv	99
71) 2-Chlorotoluene	15.72	91	8314969	14.49	ppbv	99
72) 4-Ethyltoluene	16.10	105	8703180	14.91	ppbv	99
73) 1,3,5-Trimethylbenzene	16.26	105	8188450	15.09	ppbv	96
74) 1,2,4-Trimethylbenzene	17.03	105	7779157	14.02	ppbv	96
75) 1,3-Dichlorobenzene	17.27	146	4315433	13.03	ppbv	100
76) 1,4-Dichlorobenzene	17.41	146	4592983	14.17	ppbv	99
77) 1,2-Dichlorobenzene	18.09	146	4447516	13.52	ppbv	100
78) Hexachloro-1,3-Butadiene	23.63	225	1328798	12.96	ppbv	100
79) Naphthalene	22.53	128	7502176	20.14	ppbv	99
80) Naphthalene, 2-methyl-	25.19	142	3806099	31.98	ppbv	99
81) 1,2,4-Trichlorobenzene	22.25	180	3478713	18.66	ppbv	99

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.84 min Scan# 1479

Delta R.T. 0.00 min

Lab File: VL032265.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1691544

Ion Ratio Lower Upper

49 100

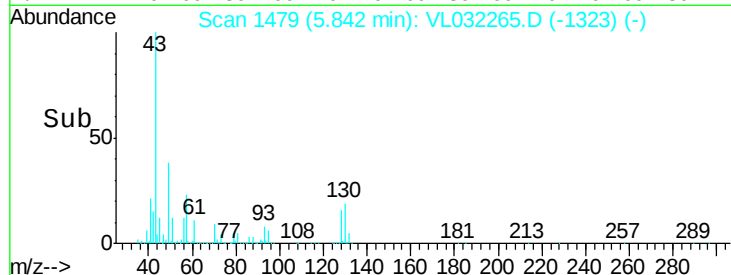
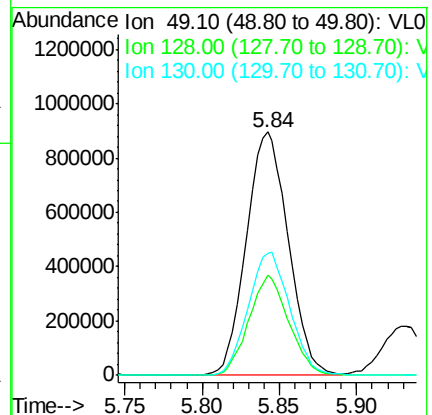
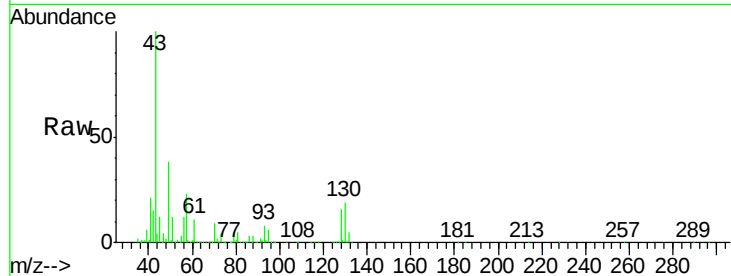
128 39.3 20.1 60.2

130 50.5 25.9 77.6

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#2

Dichlorodifluoromethane

Concen: 15.22 ppbv

RT: 3.13 min Scan# 635

Delta R.T. -0.00 min

Lab File: VL032265.D

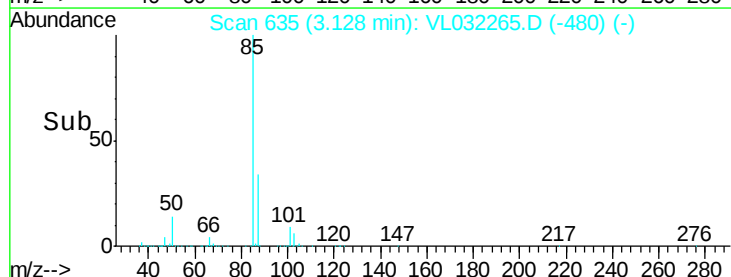
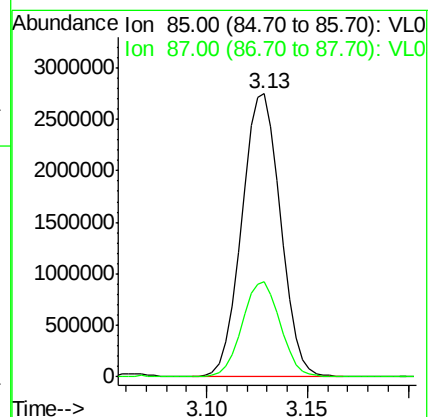
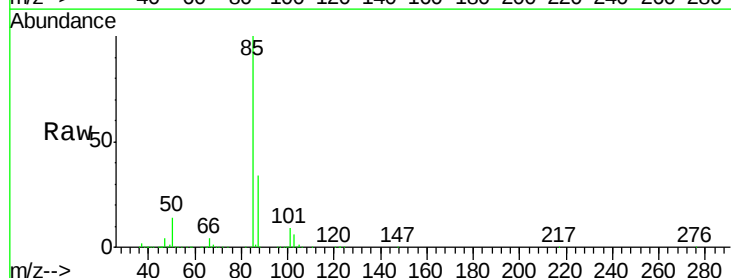
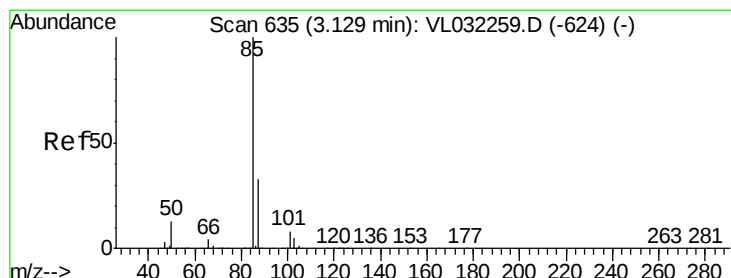
Acq: 18 Jul 2018 13:14

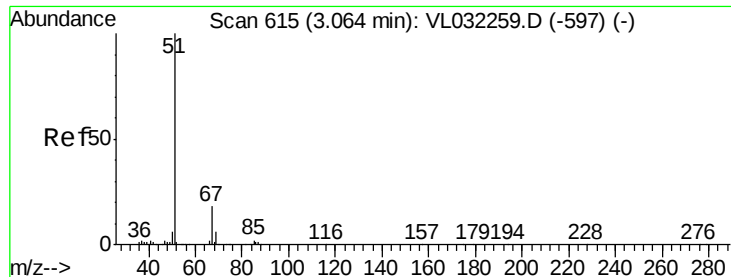
Tgt Ion: 85 Resp: 3705539

Ion Ratio Lower Upper

85 100

87 33.6 26.2 39.2





#3

Chlorodifluoromethane

Concen: 12.62 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 2624148

Ion Ratio Lower Upper

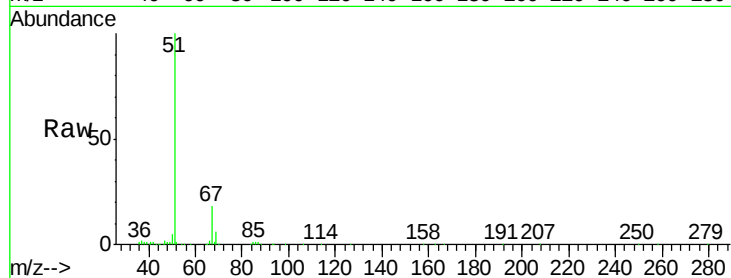
51 100

67 17.7 14.2 21.4

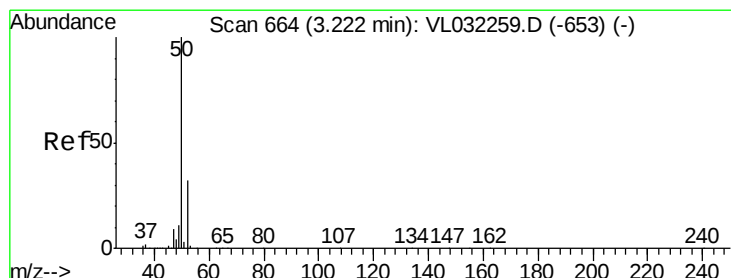
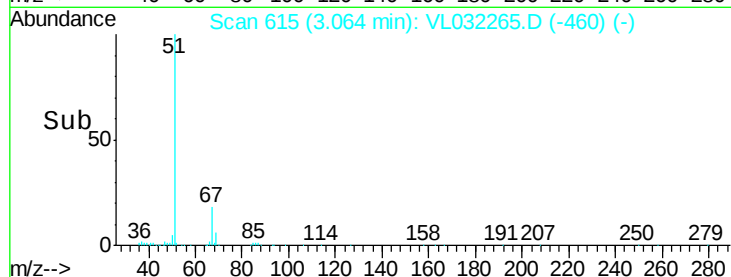
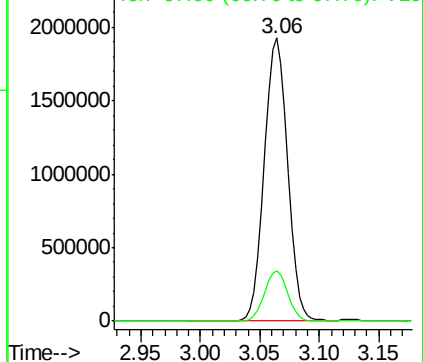
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Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 13.69 ppbv

RT: 3.22 min Scan# 664

Delta R.T. -0.00 min

Lab File: VL032265.D

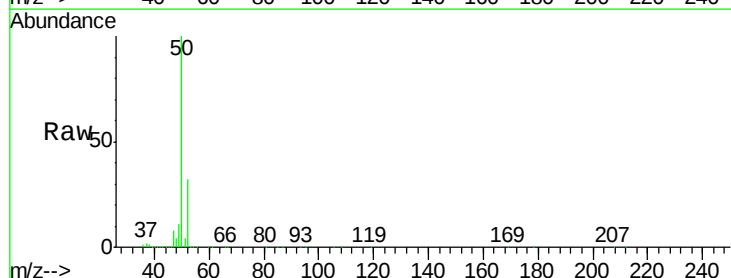
Acq: 18 Jul 2018 13:14

Tgt Ion: 50 Resp: 1618370

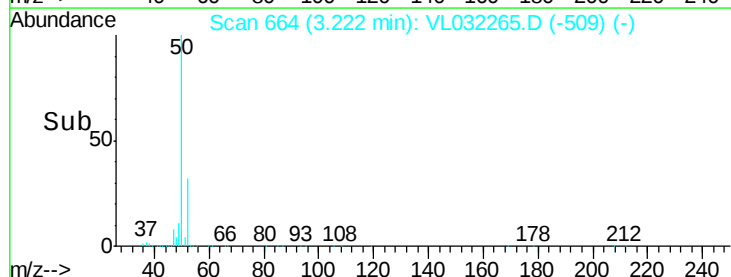
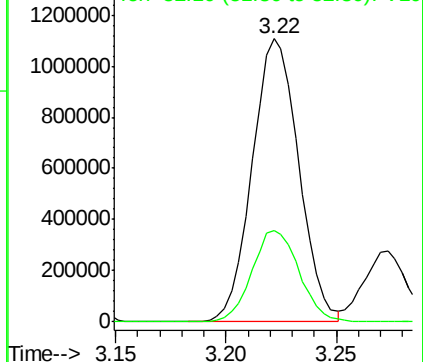
Ion Ratio Lower Upper

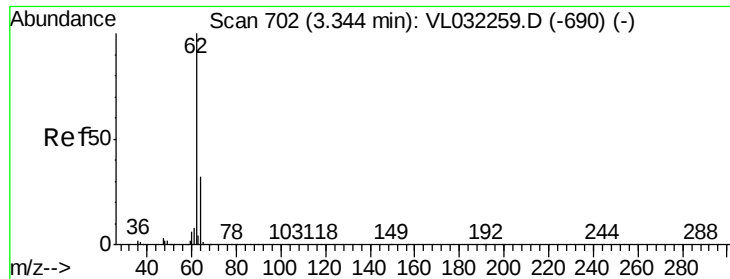
50 100

52 32.2 25.3 37.9



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 13.26 ppbv

RT: 3.34 min Scan# 702

Delta R.T. -0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1545140

Ion Ratio Lower Upper

62 100

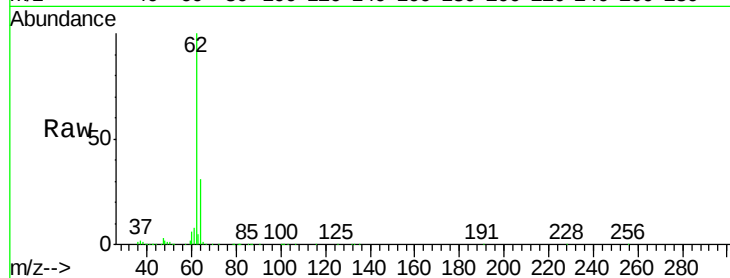
64 31.1 25.3 37.9

Manual Integrations

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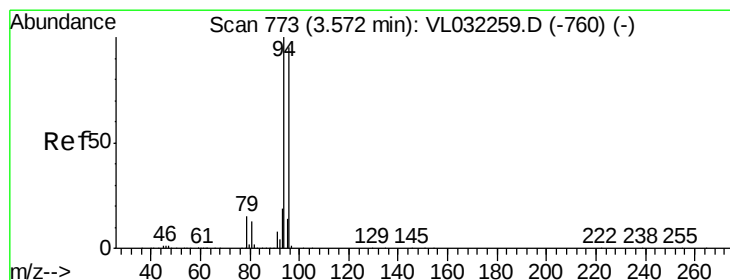
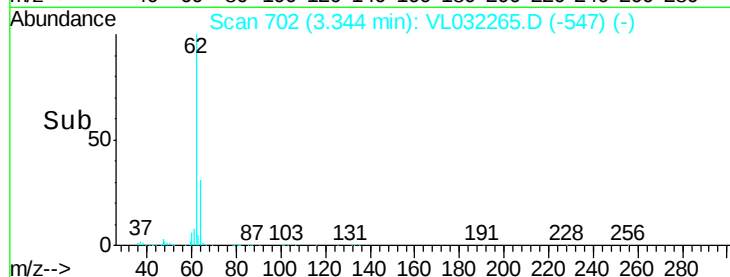
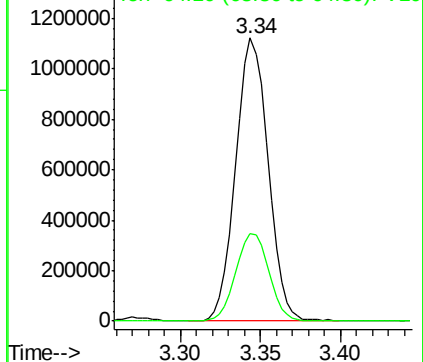
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 12.98 ppbv

RT: 3.57 min Scan# 773

Delta R.T. -0.00 min

Lab File: VL032265.D

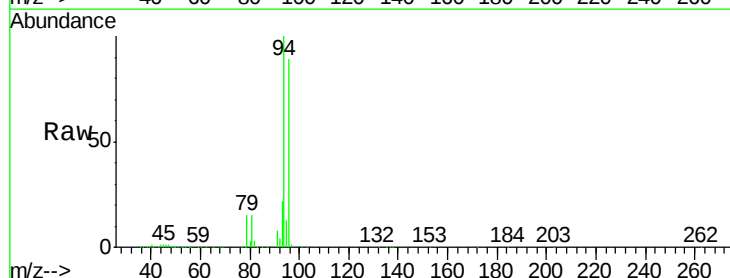
Acq: 18 Jul 2018 13:14

Tgt Ion: 94 Resp: 842096

Ion Ratio Lower Upper

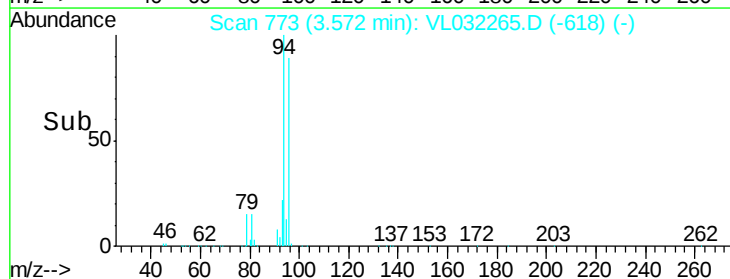
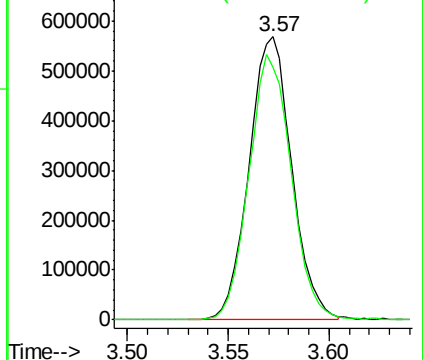
94 100

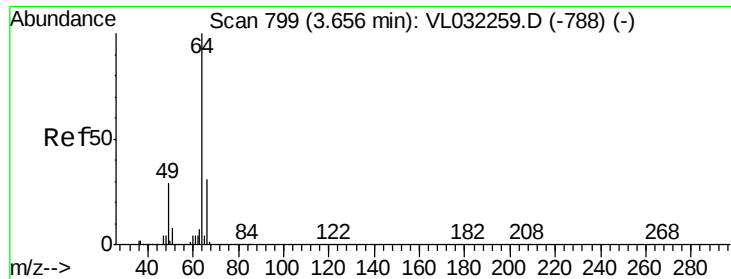
96 89.0 76.1 114.1



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 13.89 ppbv

RT: 3.66 min Scan# 800

Delta R.T. 0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 557303

Ion Ratio Lower Upper

64 100

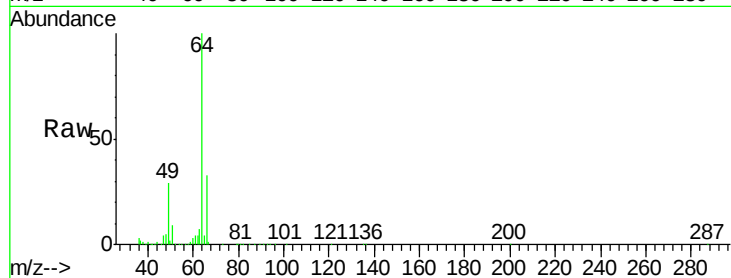
66 32.9 25.0 37.4

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.66

400000

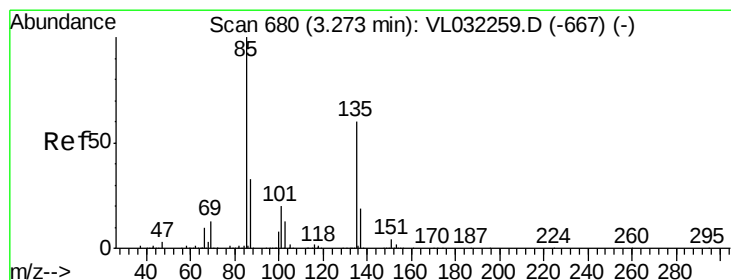
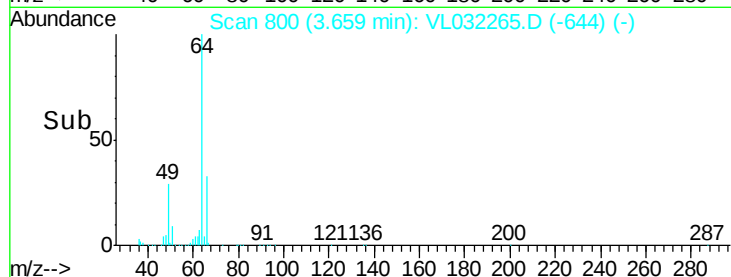
300000

200000

100000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 11.31 ppbv

RT: 3.27 min Scan# 680

Delta R.T. -0.00 min

Lab File: VL032265.D

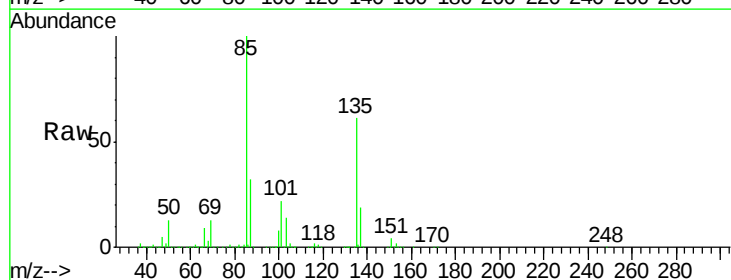
Acq: 18 Jul 2018 13:14

Tgt Ion: 85 Resp: 3024665

Ion Ratio Lower Upper

85 100

135 60.1 47.8 71.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

2500000

2000000

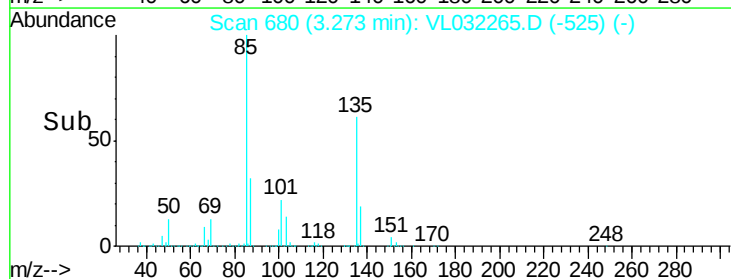
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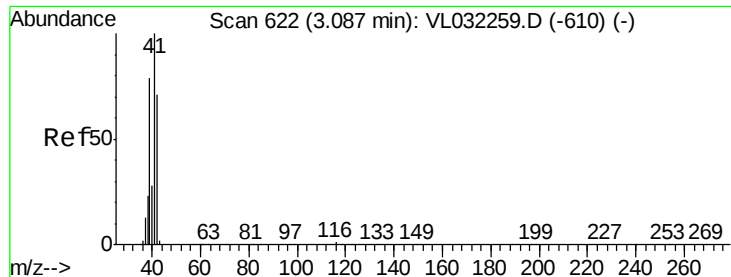
1000000

500000

0

Time-->





#9

Propene

Concen: 14.61 ppbv

RT: 3.09 min Scan# 622

Delta R.T. -0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 1294783

Ion Ratio Lower Upper

41 100

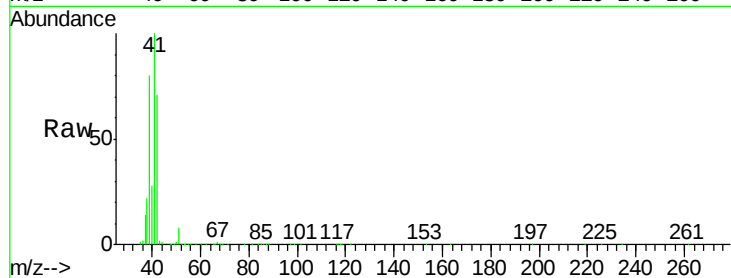
42 70.2 56.2 84.4

Manual Integrations

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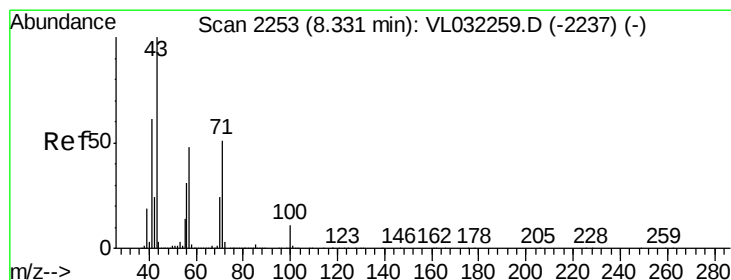
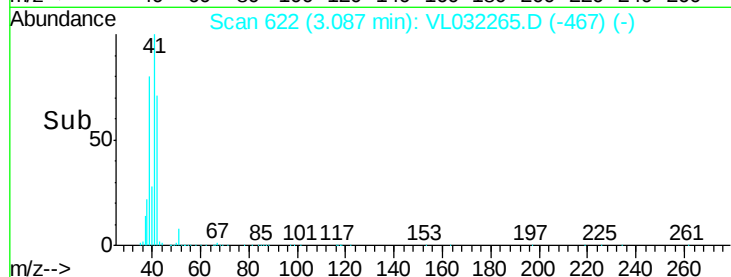
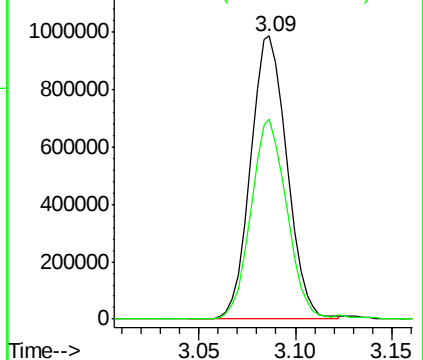
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 15.27 ppbv

RT: 8.34 min Scan# 2255

Delta R.T. 0.01 min

Lab File: VL032265.D

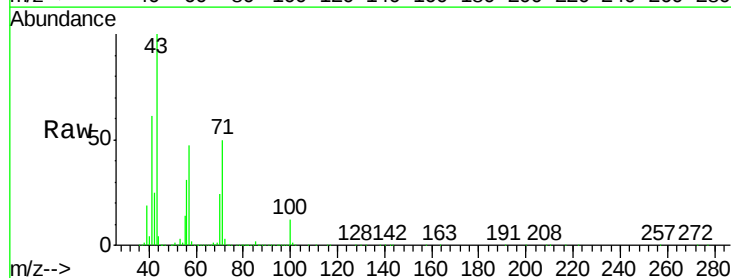
Acq: 18 Jul 2018 13:14

Tgt Ion: 43 Resp: 3842688

Ion Ratio Lower Upper

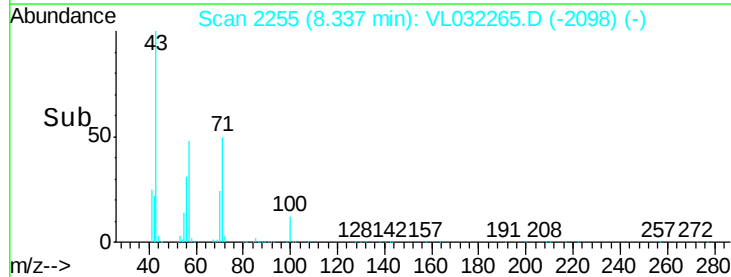
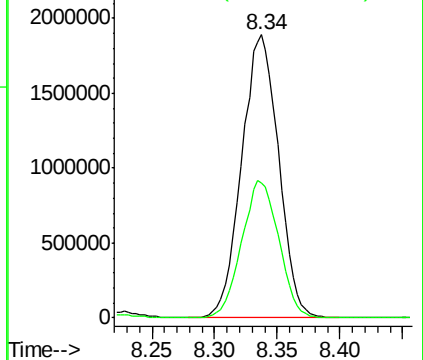
43 100

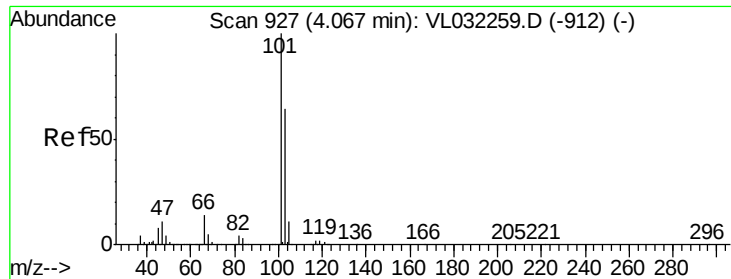
57 48.7 39.9 59.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





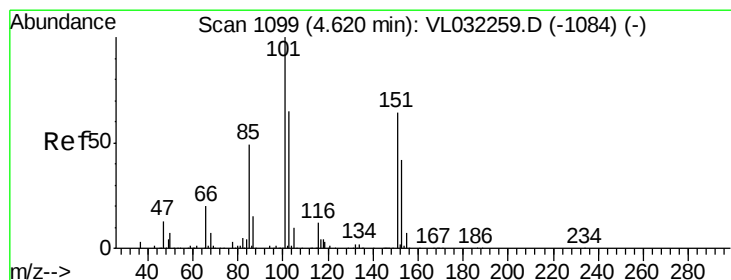
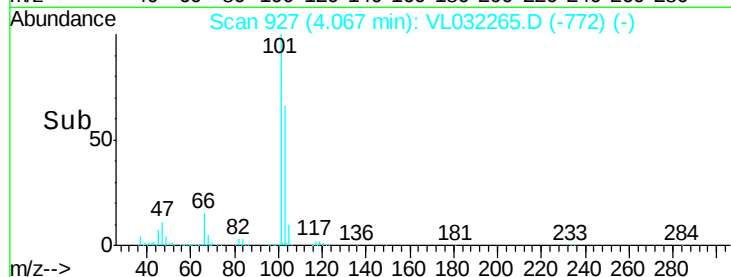
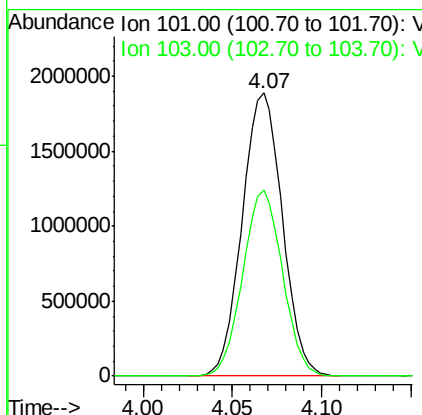
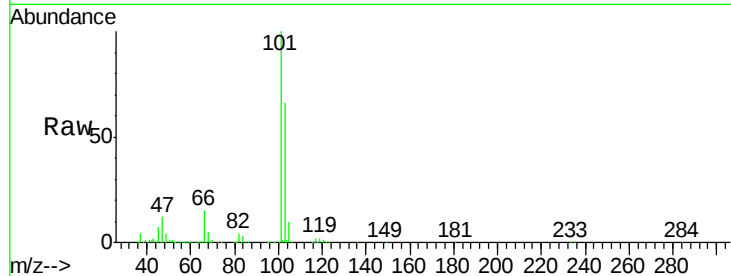
#11
 Trichlorofluoromethane
 Concen: 12.81 ppbv
 RT: 4.07 min Scan# 927
 Delta R.T. -0.00 min
 Lab File: VL032265.D
 Acq: 18 Jul 2018 13:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 2984569
 Ion Ratio Lower Upper
 101 100
 103 65.9 51.5 77.3

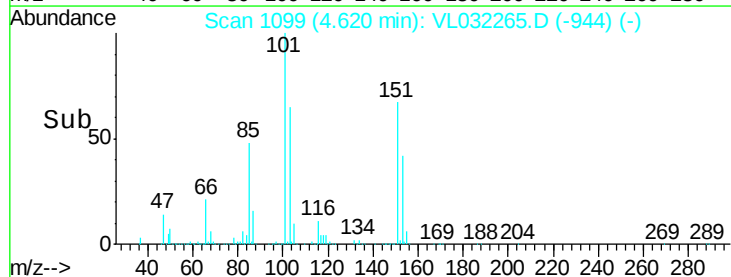
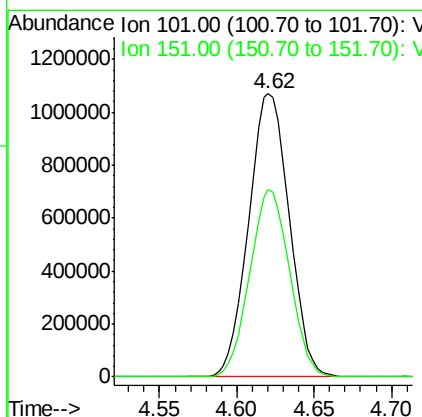
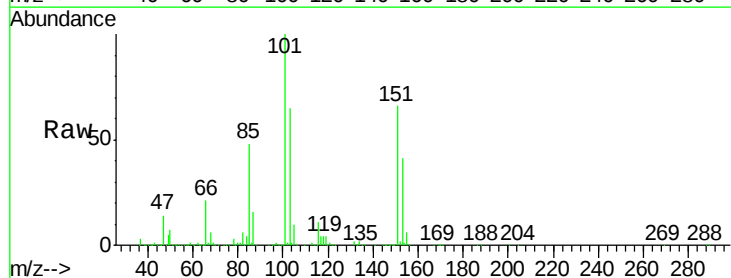
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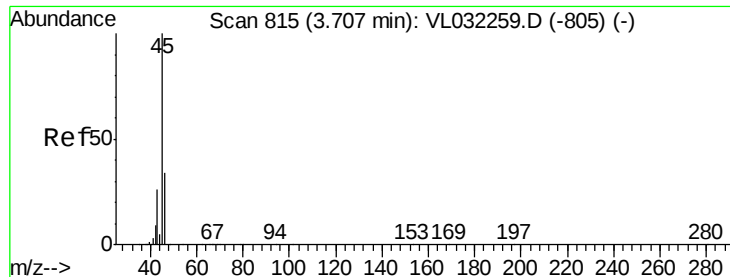
MMDadoda
 7/20/2018 2:53:09 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 13.16 ppbv
 RT: 4.62 min Scan# 1099
 Delta R.T. -0.00 min
 Lab File: VL032265.D
 Acq: 18 Jul 2018 13:14

Tgt Ion:101 Resp: 1958378
 Ion Ratio Lower Upper
 101 100
 151 65.1 51.3 76.9





#13

Ethanol

Concen: 11.54 ppbv

RT: 3.71 min Scan# 816

Delta R.T. 0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 295068

Ion Ratio Lower Upper

45 100

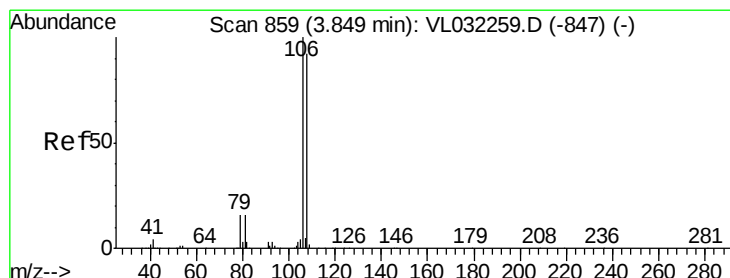
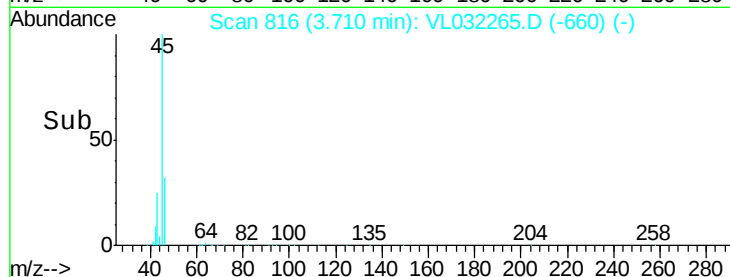
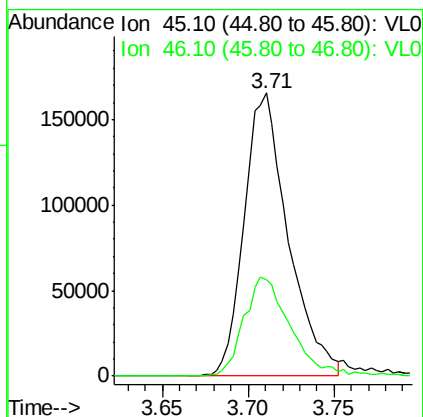
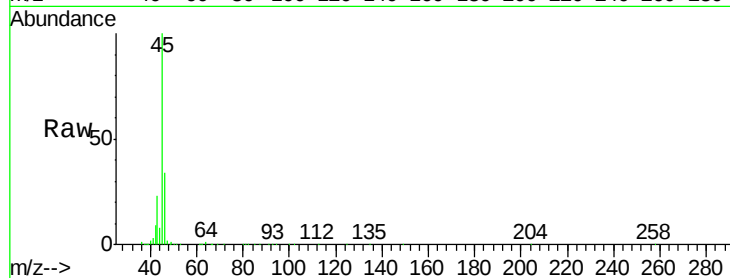
46 37.8 15.2 60.8

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#14

Bromoethene

Concen: 13.58 ppbv

RT: 3.85 min Scan# 859

Delta R.T. -0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

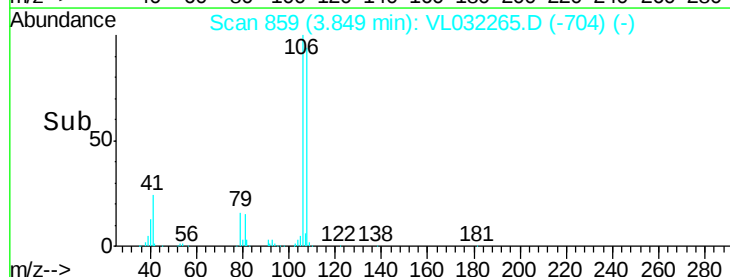
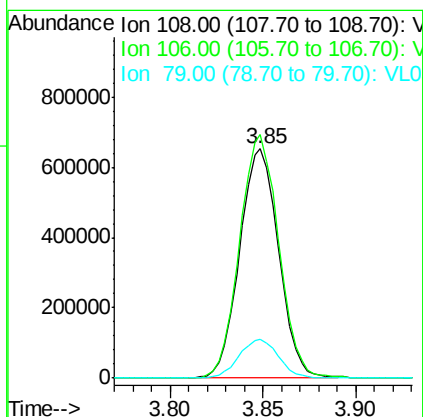
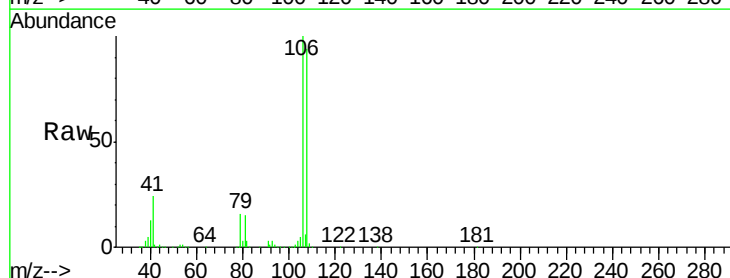
Tgt Ion: 108 Resp: 953478

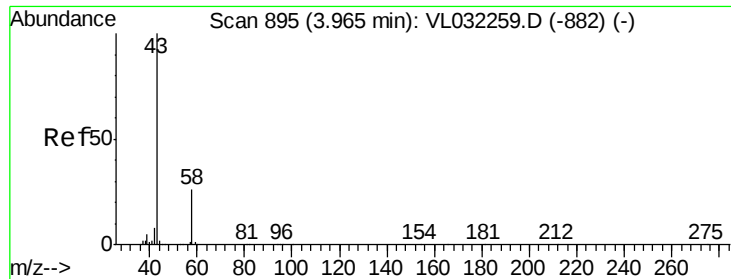
Ion Ratio Lower Upper

108 100

106 106.8 86.2 129.4

79 17.3 14.0 21.0





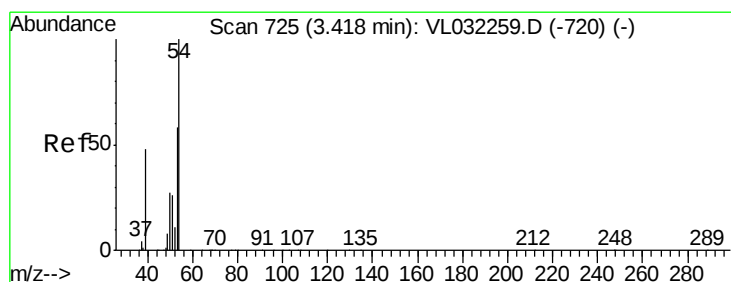
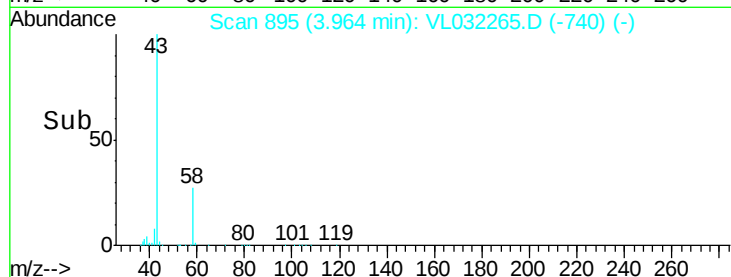
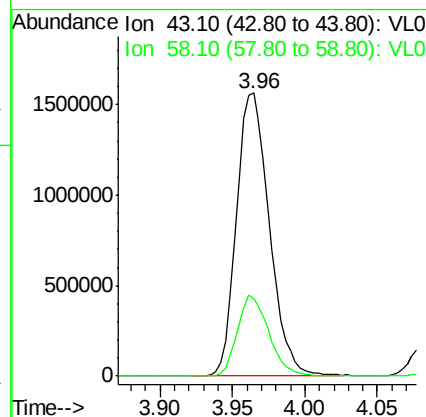
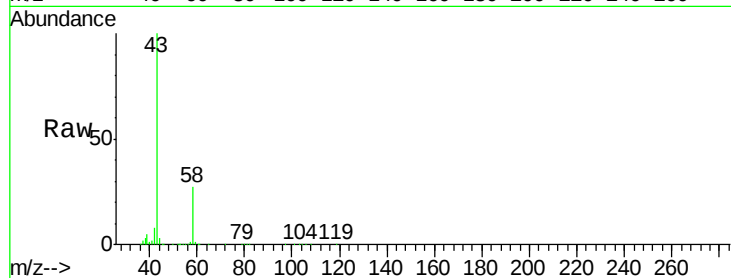
#15
Acetone
Concen: 12.54 ppbv
RT: 3.96 min Scan# 895
Delta R.T. -0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 2461679
Ion Ratio Lower Upper
43 100
58 27.4 21.8 32.6

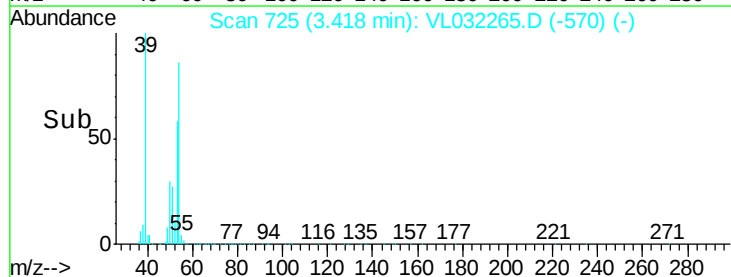
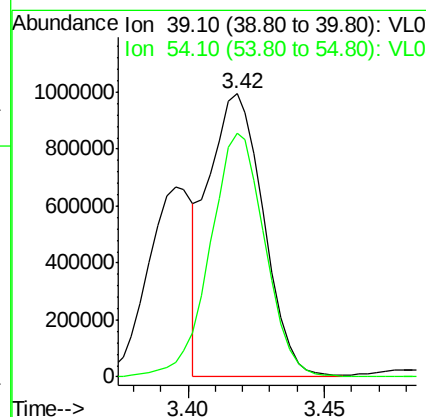
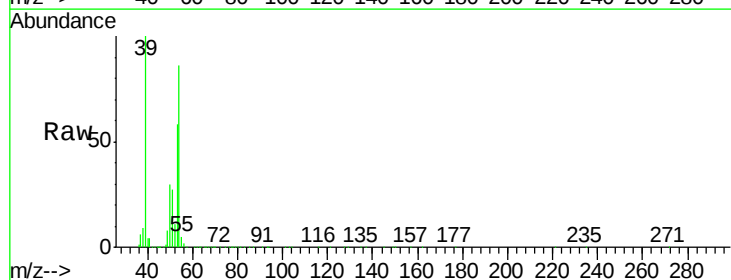
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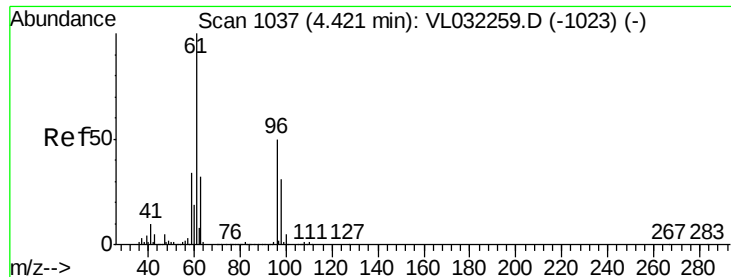
MMDadoda
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#16
1,3-Butadiene
Concen: 13.99 ppbv
RT: 3.42 min Scan# 725
Delta R.T. -0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Tgt Ion: 39 Resp: 1387648
Ion Ratio Lower Upper
39 100
54 86.6 70.6 105.8





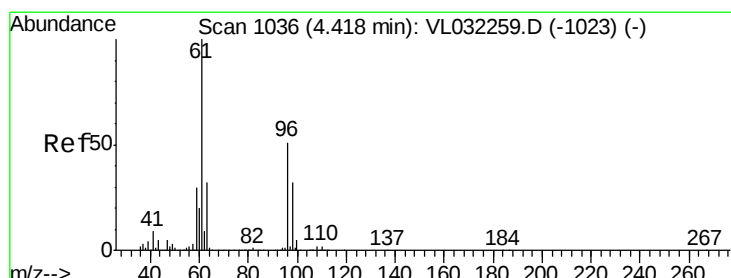
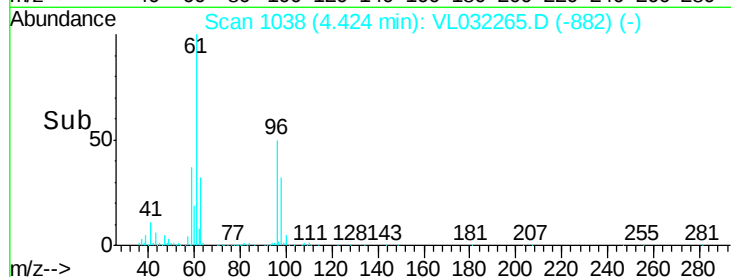
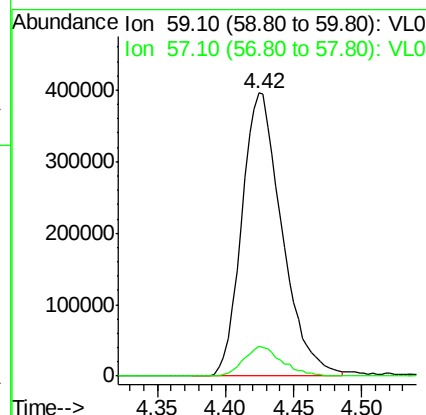
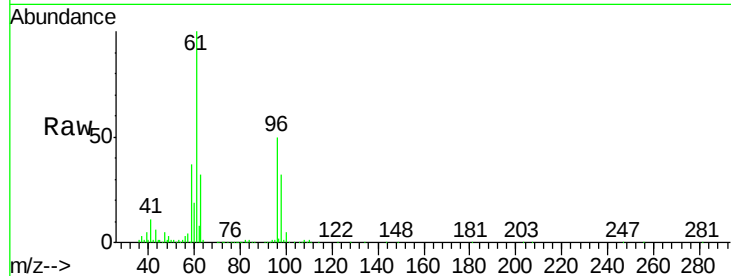
#17
 tert-Butyl alcohol
 Concen: 8.82 ppbv
 RT: 4.42 min Scan# 1038
 Delta R.T. 0.00 min
 Lab File: VL032265.D
 Acq: 18 Jul 2018 13:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 59 Resp: 808006
 Ion Ratio Lower Upper
 59 100
 57 10.3 8.2 12.4

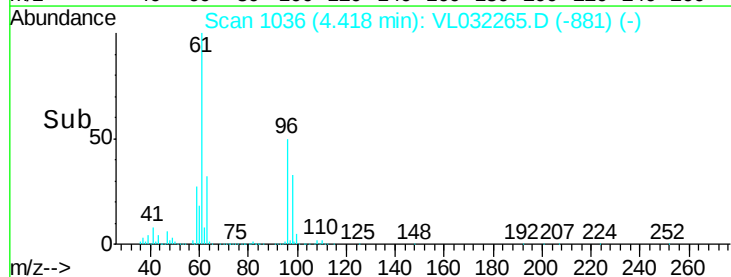
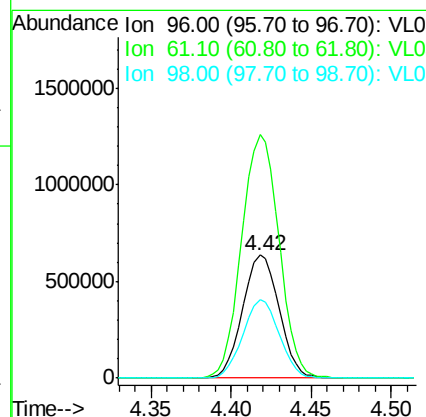
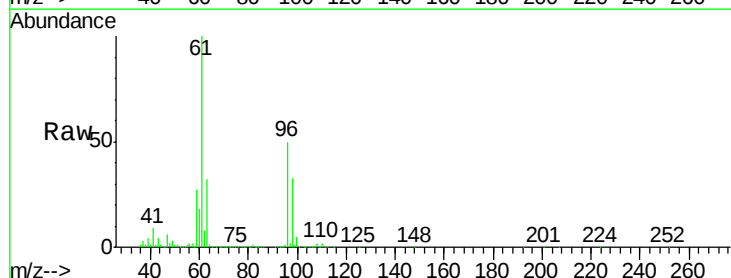
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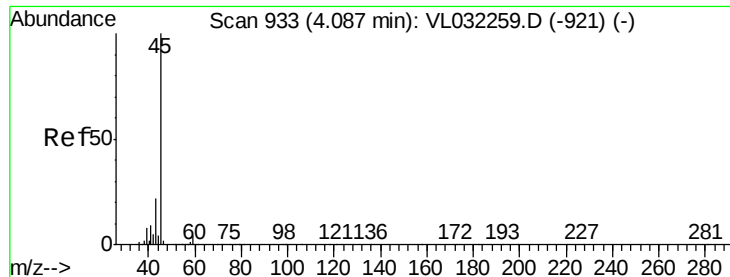
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#18
 1,1-Dichloroethene
 Concen: 14.27 ppbv
 RT: 4.42 min Scan# 1036
 Delta R.T. -0.00 min
 Lab File: VL032265.D
 Acq: 18 Jul 2018 13:14

Tgt Ion: 96 Resp: 988347
 Ion Ratio Lower Upper
 96 100
 61 198.0 157.2 235.8
 98 64.4 50.1 75.1





#19

Isopropyl Alcohol

Concen: 13.16 ppbv

RT: 4.09 min Scan# 933

Delta R.T. -0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Tot Ion: 45 Resp: 1696804

Ion Ratio Lower Upper

45 100

58 1.9 1.5 2.3

Instrument :

MSVOA_L

ClientSampleId :

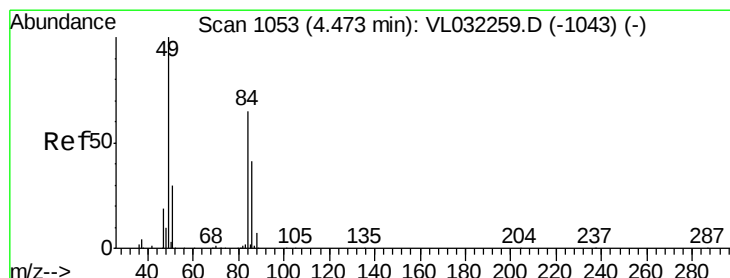
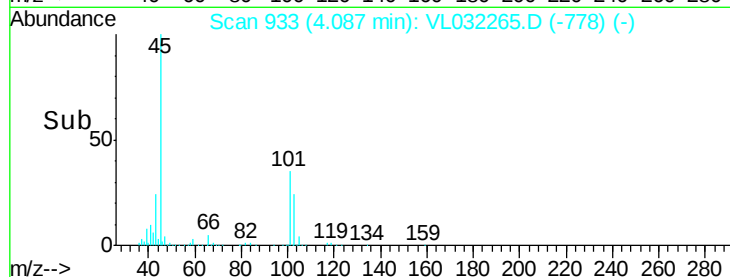
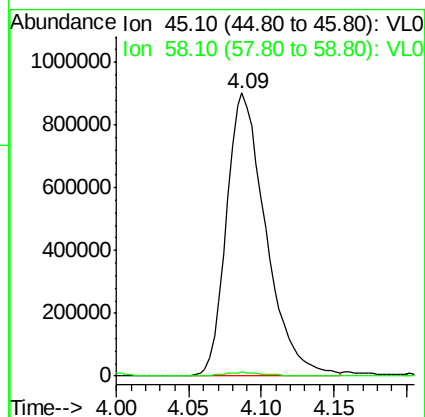
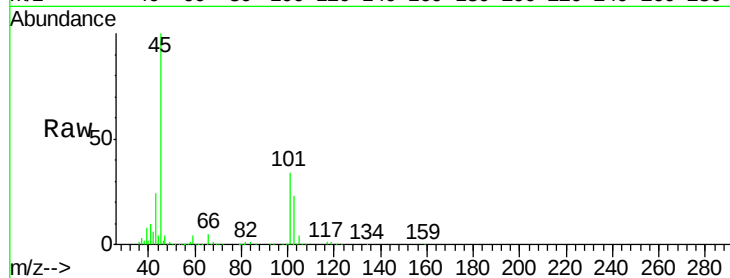
VSTDIC015

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#20

Methylene Chloride

Concen: 13.49 ppbv

RT: 4.48 min Scan# 1054

Delta R.T. 0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Tgt Ion: 84 Resp: 897071

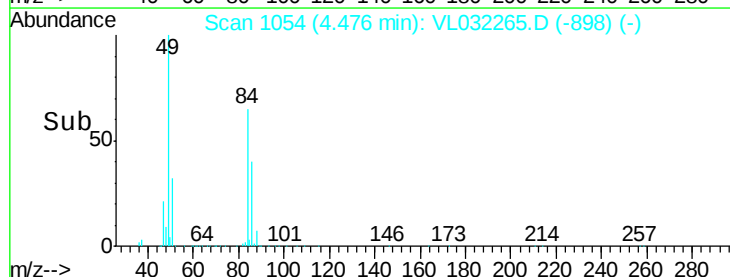
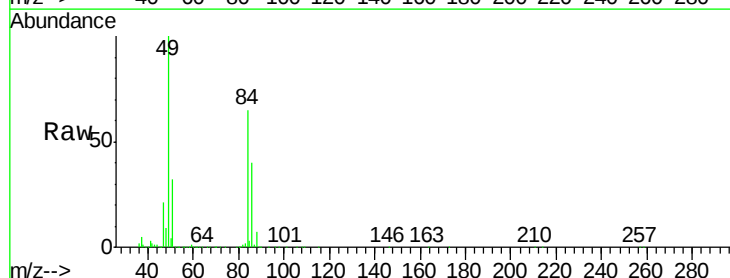
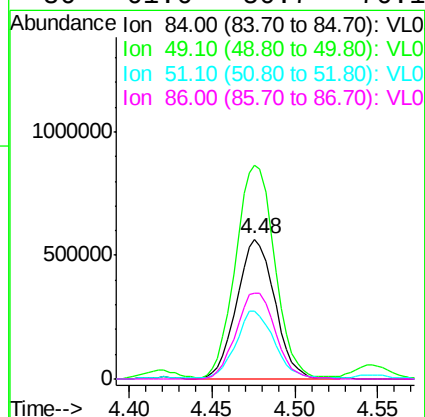
Ion Ratio Lower Upper

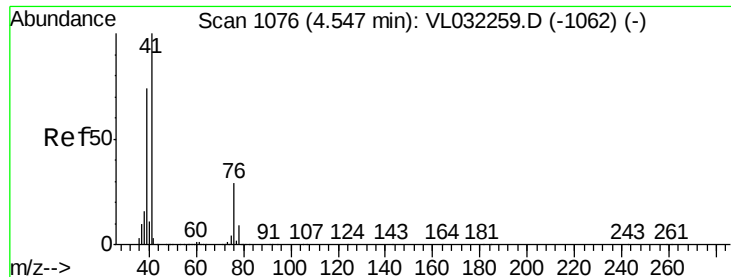
84 100

49 151.5 122.4 183.6

51 47.9 36.8 55.2

86 61.6 50.7 76.1





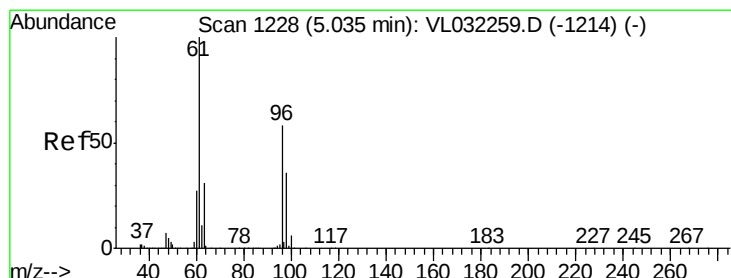
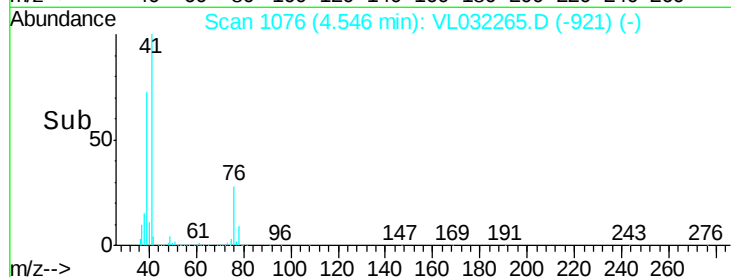
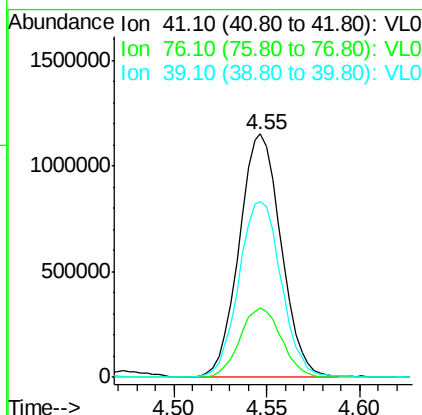
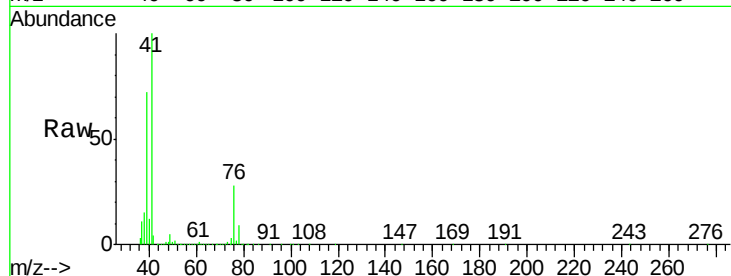
#21
Allvl Chloride
Concen: 15.67 ppbv
RT: 4.55 min Scan# 1076
Delta R.T. -0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.5	23.0	34.6
39	73.8	60.2	90.4

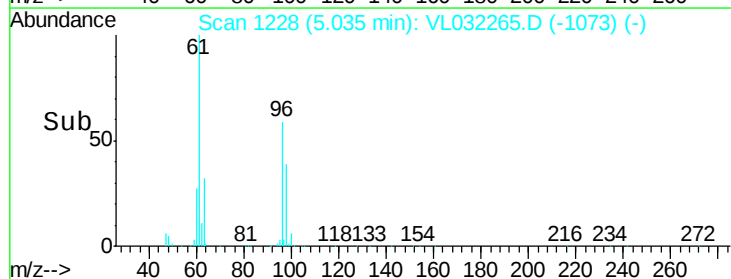
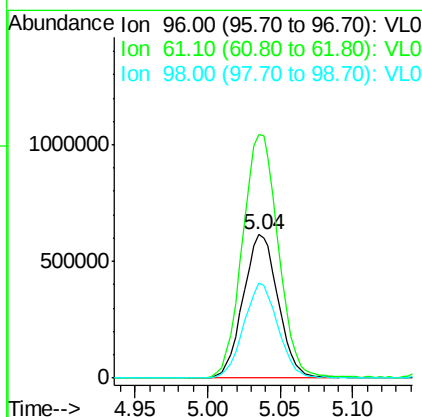
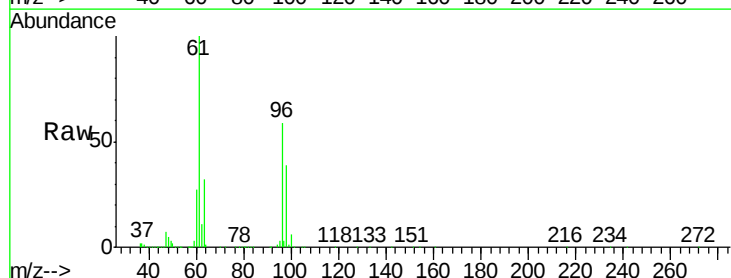
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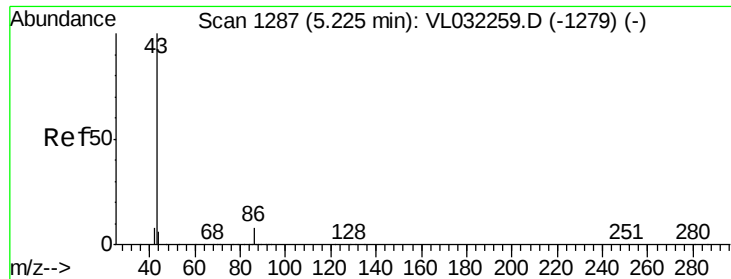
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#22
trans-1,2-Dichloroethene
Concen: 15.64 ppbv
RT: 5.04 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Tgt Ion	Ratio	Lower	Upper
96	100		
61	169.5	137.4	206.0
98	65.8	49.6	74.4





#23

Vinyl Acetate

Concen: 15.38 ppbv

RT: 5.23 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 5021763

Ion Ratio Lower Upper

43 100

86 7.3 5.9 8.9

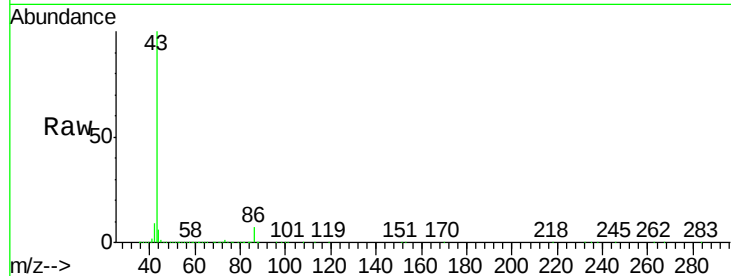
42 8.8 7.3 10.9

44 5.4 4.4 6.6

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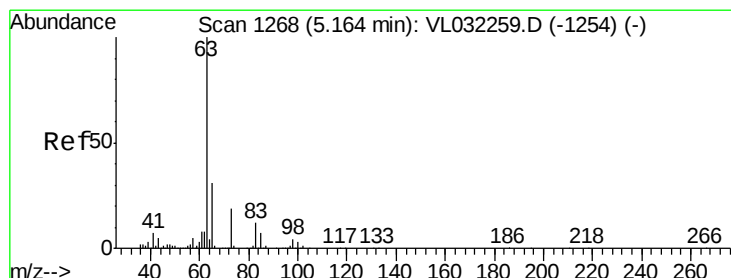
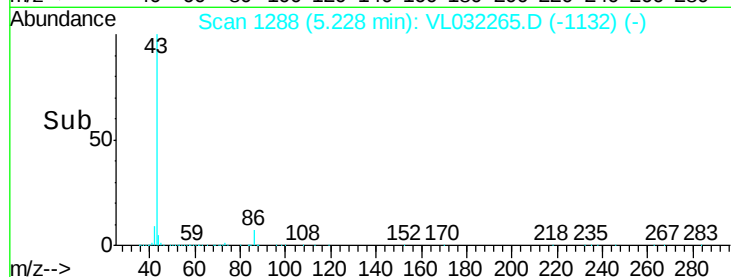
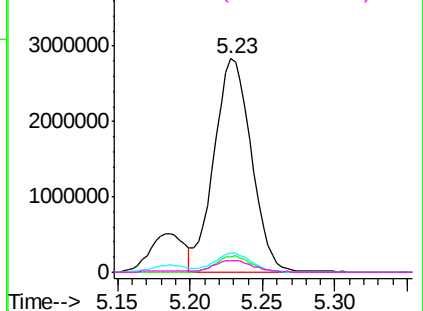


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 13.96 ppbv

RT: 5.17 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

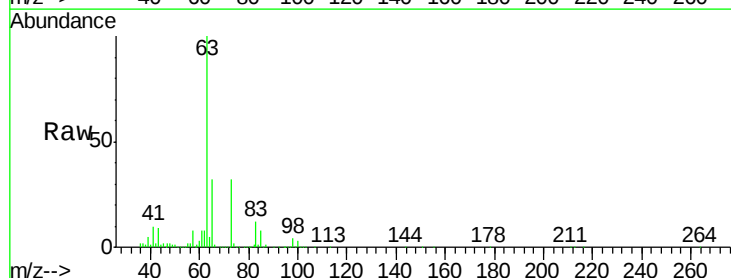
Tgt Ion: 63 Resp: 3198970

Ion Ratio Lower Upper

63 100

98 4.0 2.1 6.3

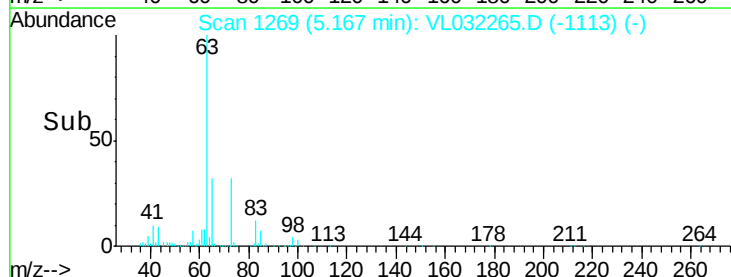
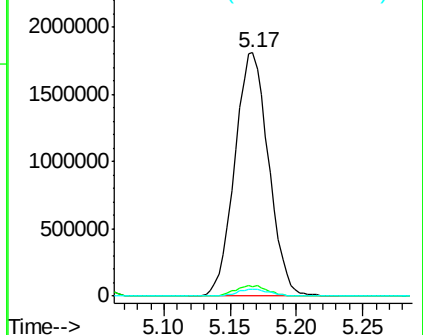
100 2.8 1.3 3.9

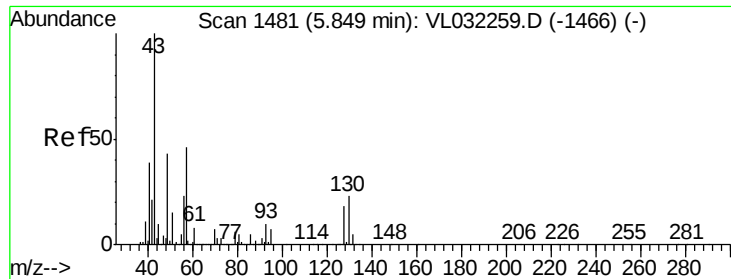


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





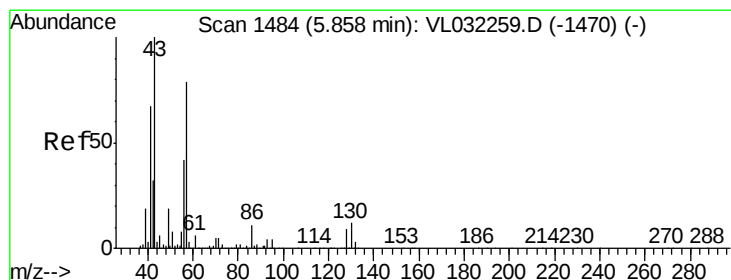
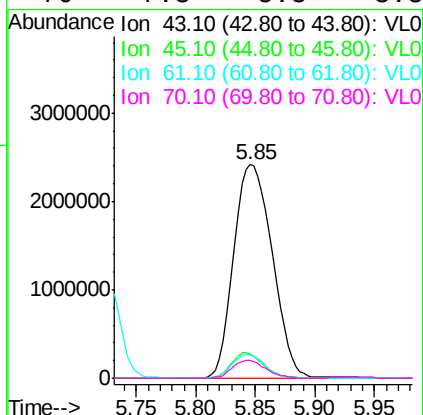
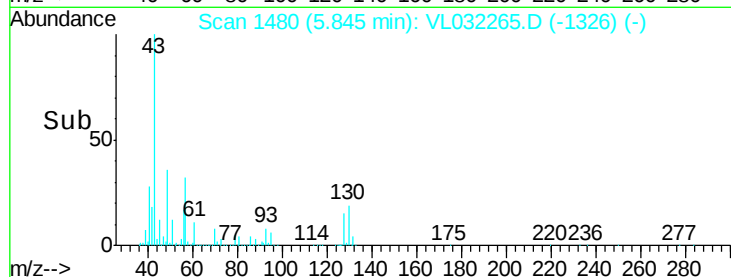
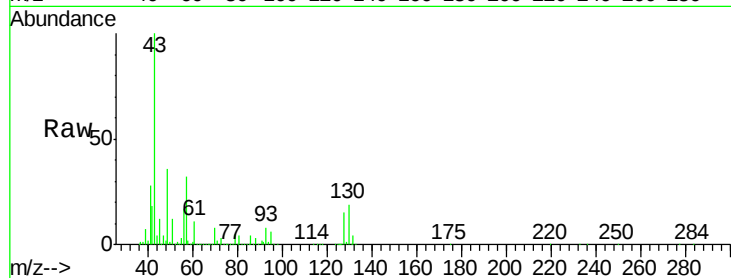
#25
Ethyl Acetate
Concen: 14.01 ppbv
RT: 5.85 min Scan# 1480
Delta R.T. -0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.9	11.9
61	9.4	7.6	11.4
70	7.3	5.8	8.8

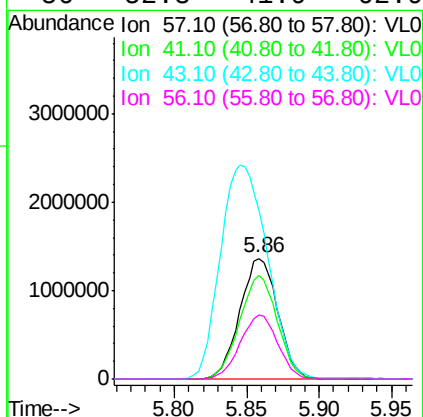
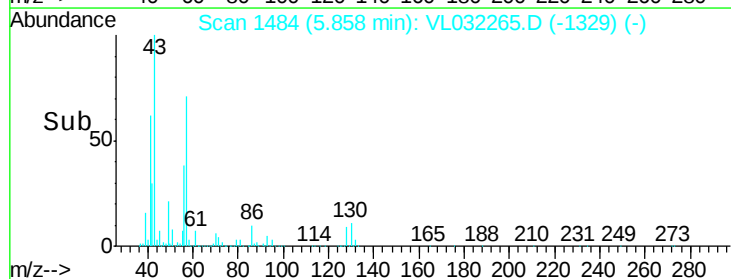
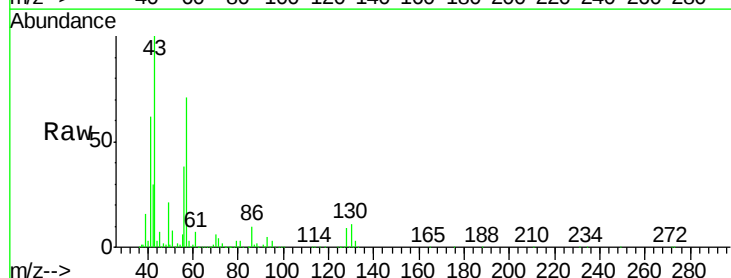
Manual Integrations
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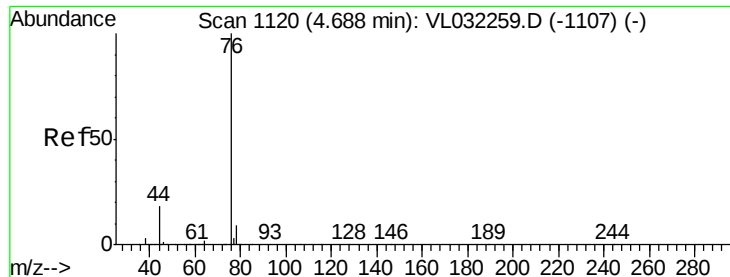
MMDadoda
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#26
Hexane
Concen: 14.01 ppbv
RT: 5.86 min Scan# 1484
Delta R.T. -0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Tgt Ion	Ratio	Lower	Upper
57	100		
41	85.6	67.9	101.9
43	219.9	175.9	263.9
56	52.8	41.9	62.9





#27

Carbon Disulfide

Concen: 15.91 ppbv

RT: 4.69 min Scan# 1120

Delta R.T. -0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 2522212

Ion Ratio Lower Upper

76 100

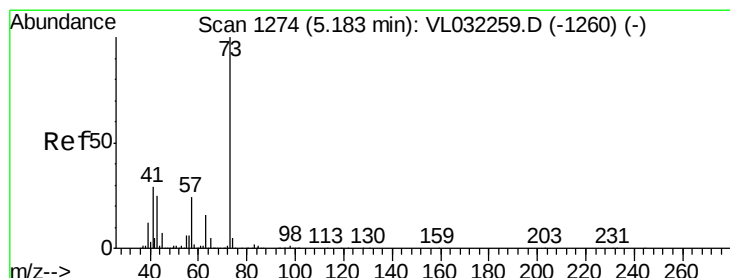
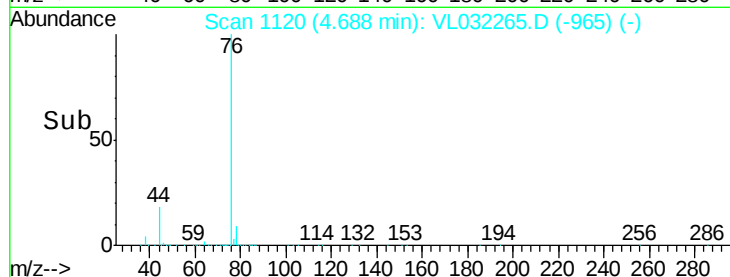
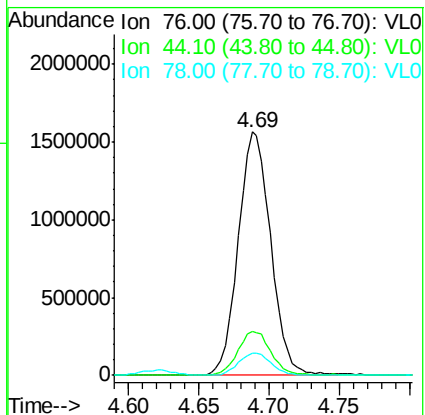
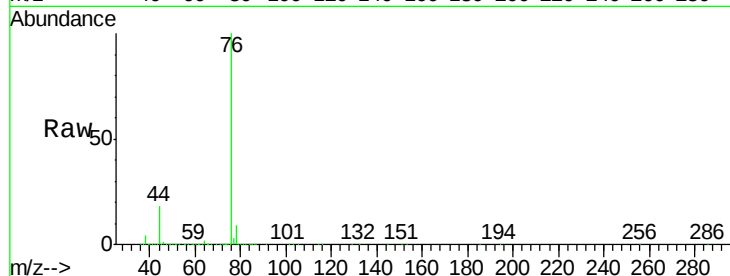
44 17.9 14.3 21.5

78 9.3 7.4 11.0

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#28

Methyl tert-Butyl Ether

Concen: 14.01 ppbv

RT: 5.19 min Scan# 1275

Delta R.T. 0.00 min

Lab File: VL032265.D

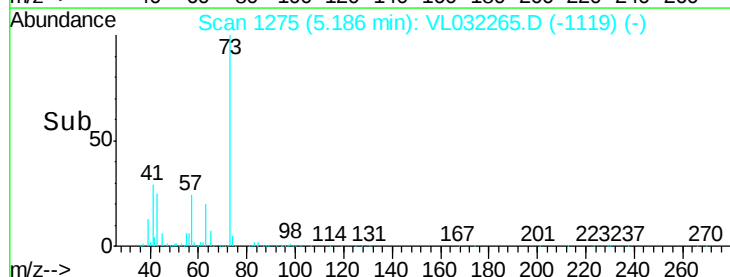
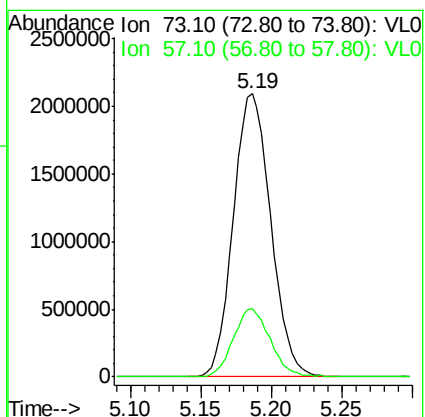
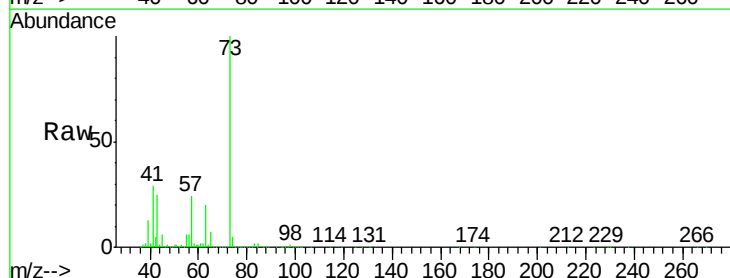
Acq: 18 Jul 2018 13:14

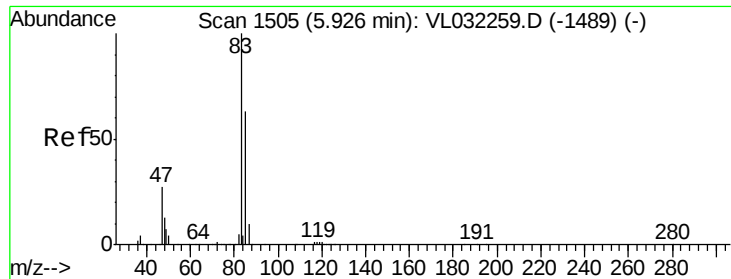
Tgt Ion: 73 Resp: 3906651

Ion Ratio Lower Upper

73 100

57 23.8 19.3 28.9





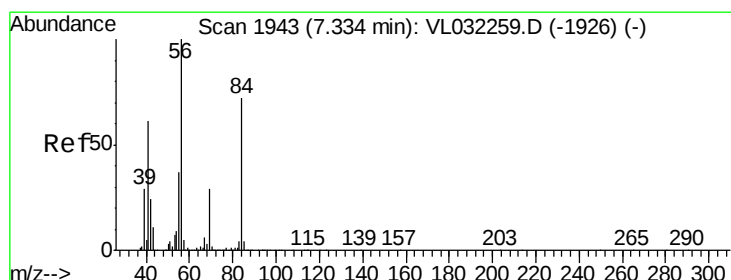
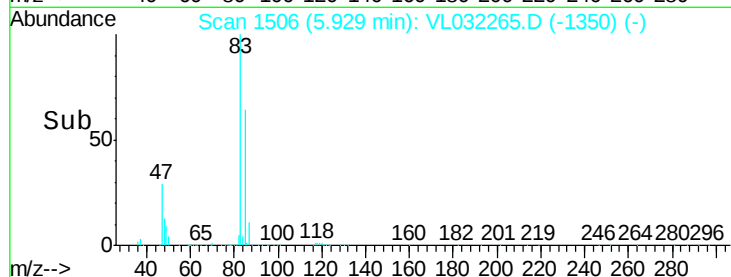
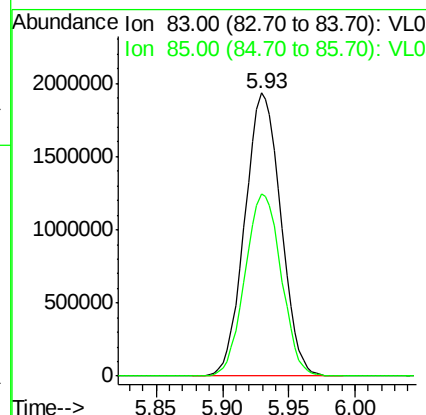
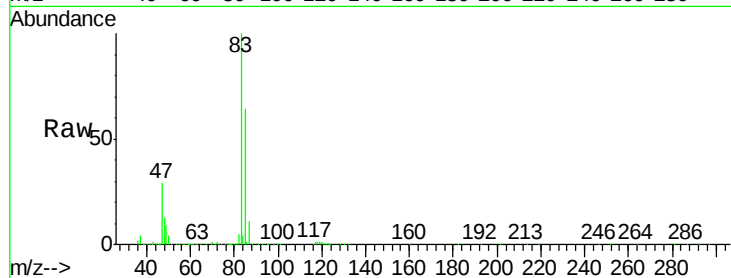
#29
Chloroform
Concen: 13.37 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. 0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 3657610
Ion Ratio Lower Upper
83 100
85 64.3 50.7 76.1

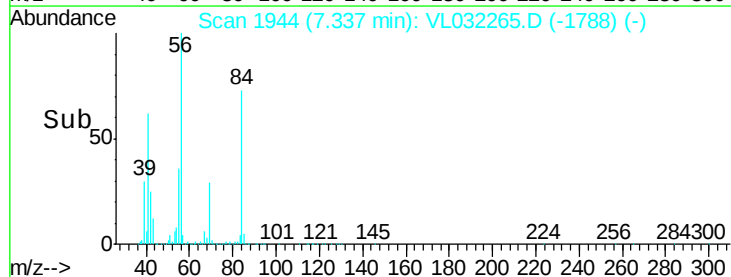
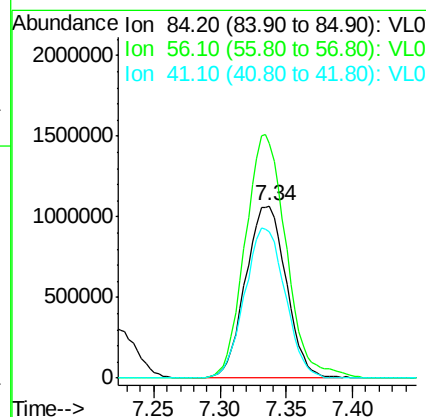
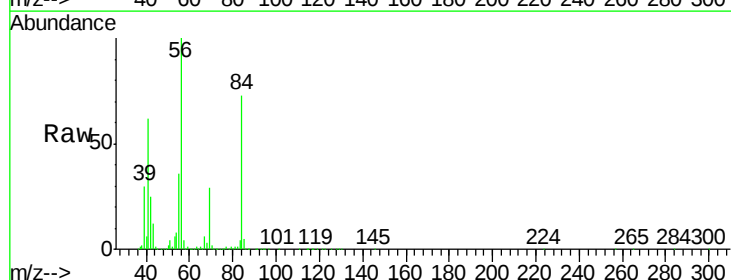
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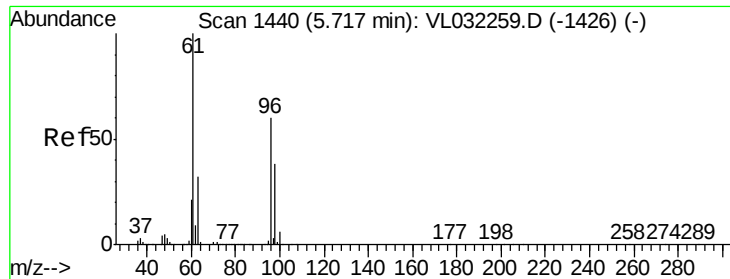
MMDadoda
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#30
Cyclohexane
Concen: 14.57 ppbv
RT: 7.34 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Tgt Ion: 84 Resp: 2278009
Ion Ratio Lower Upper
84 100
56 143.4 115.6 173.4
41 86.8 68.7 103.1





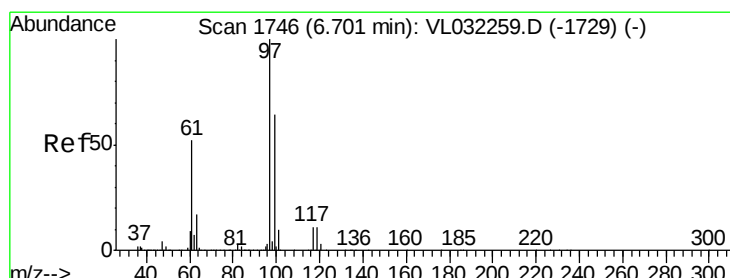
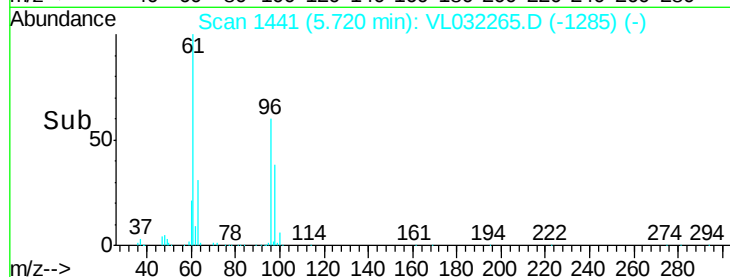
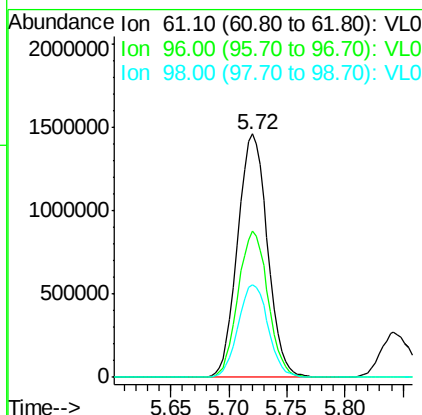
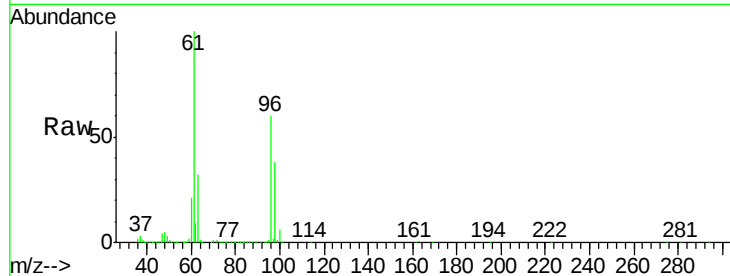
#31
 cis-1,2-Dichloroethene
 Concen: 14.82 ppbv
 RT: 5.72 min Scan# 1441
 Delta R.T. 0.00 min
 Lab File: VL032265.D
 Acq: 18 Jul 2018 13:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	59.8	47.9	71.9
98	38.0	30.5	45.7

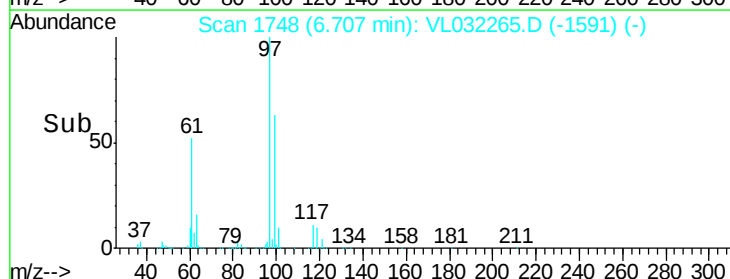
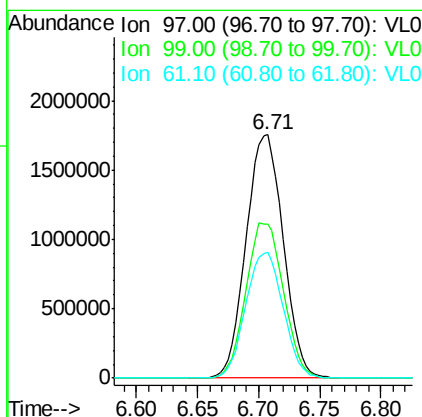
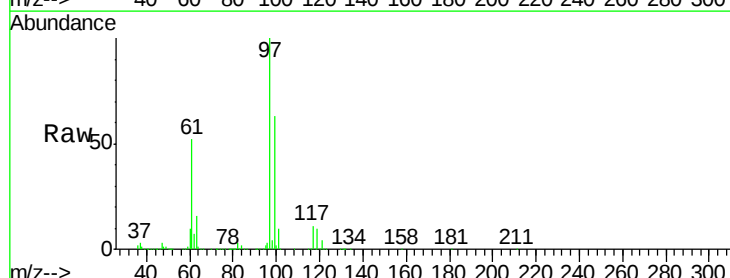
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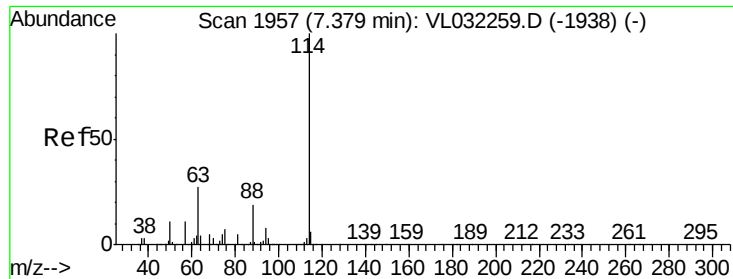
MMDadoda
 7/20/2018 2:53:09 PM



#32
 1,1,1-Trichloroethane
 Concen: 13.93 ppbv
 RT: 6.71 min Scan# 1748
 Delta R.T. 0.01 min
 Lab File: VL032265.D
 Acq: 18 Jul 2018 13:14

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.0	76.6
61	51.9	41.2	61.8





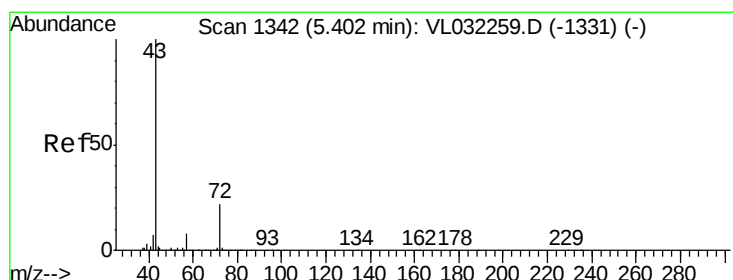
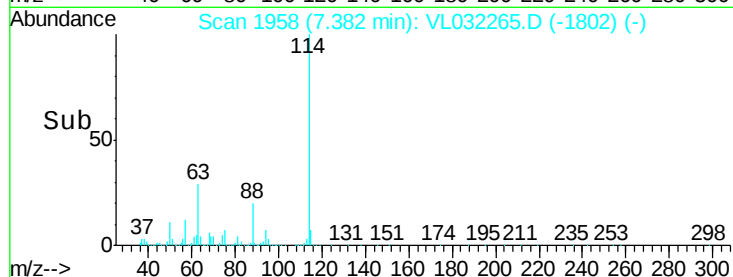
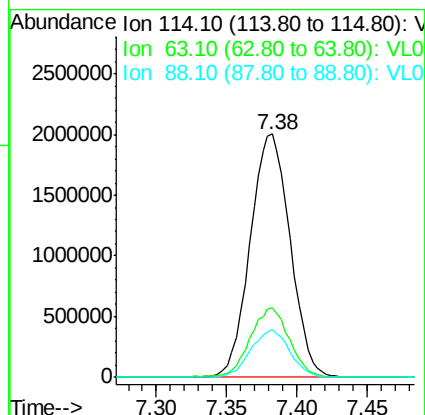
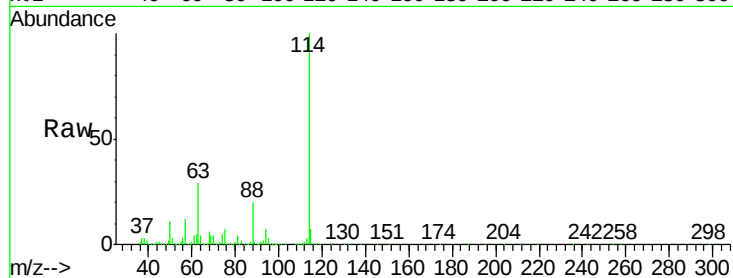
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1958
 Delta R.T. 0.00 min
 Lab File: VL032265.D
 Acq: 18 Jul 2018 13:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:114 Resp: 3961722
 Ion Ratio Lower Upper
 114 100
 63 28.6 22.6 33.8
 88 19.1 15.2 22.8

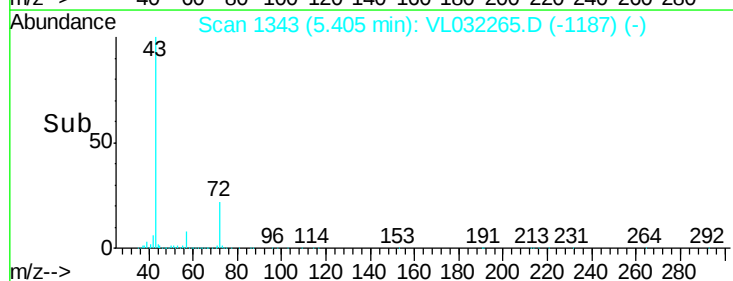
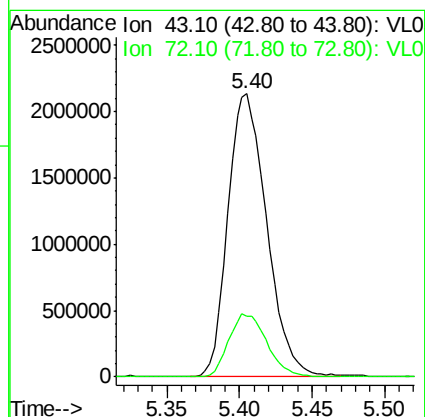
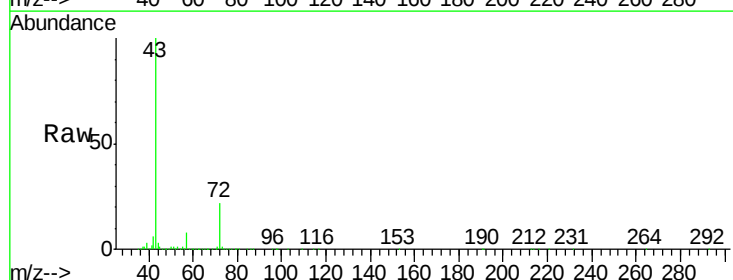
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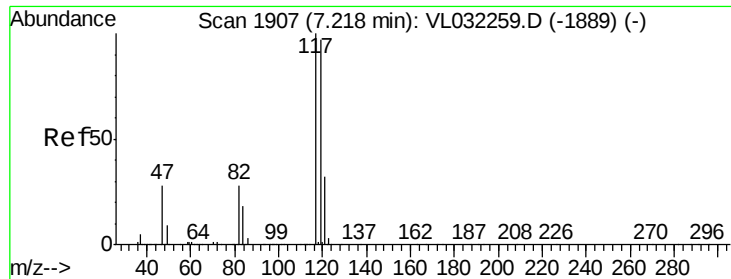
MMDadoda
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#34
 2-Butanone
 Concen: 14.57 ppbv
 RT: 5.40 min Scan# 1343
 Delta R.T. 0.00 min
 Lab File: VL032265.D
 Acq: 18 Jul 2018 13:14

Tgt Ion: 43 Resp: 3933435
 Ion Ratio Lower Upper
 43 100
 72 22.2 17.7 26.5





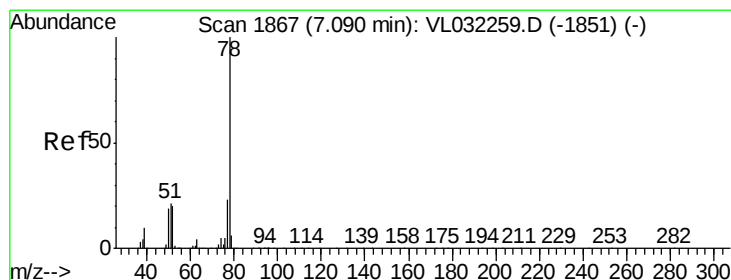
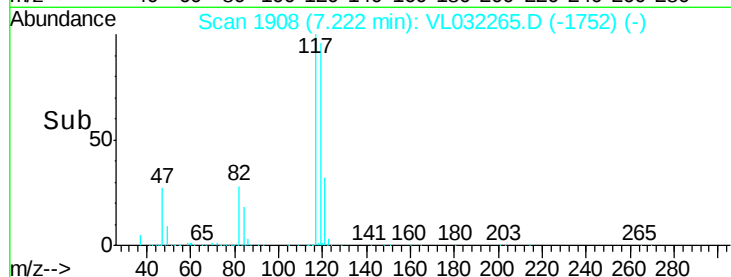
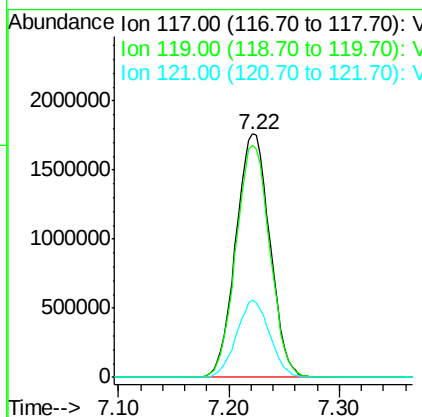
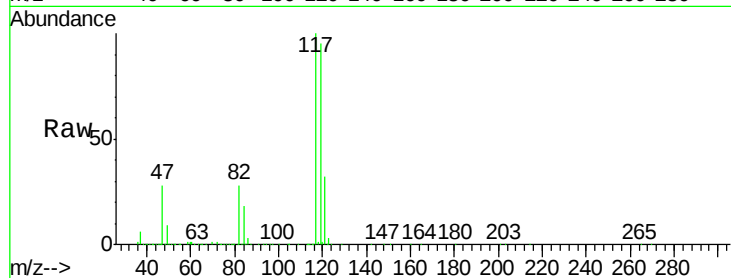
#35
Carbon Tetrachloride
Concen: 14.05 ppbv
RT: 7.22 min Scan# 1908
Delta R.T. 0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 3766173
Ion Ratio Lower Upper
117 100
119 95.5 77.4 116.0
121 31.7 25.4 38.2

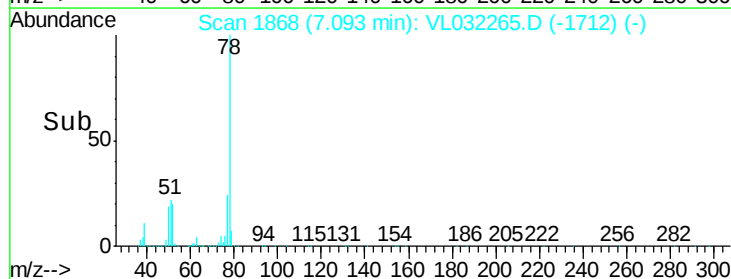
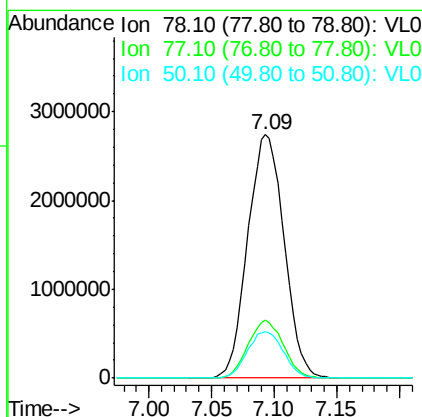
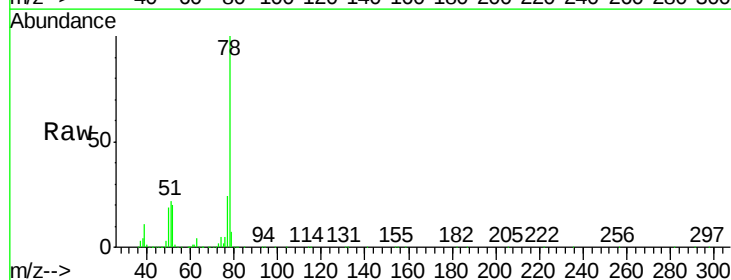
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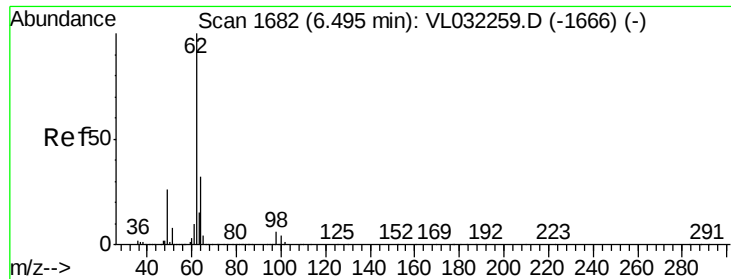
MMDadoda
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#36
Benzene
Concen: 13.99 ppbv
RT: 7.09 min Scan# 1868
Delta R.T. 0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Tgt Ion: 78 Resp: 5507423
Ion Ratio Lower Upper
78 100
77 23.9 18.6 27.8
50 19.3 15.0 22.6





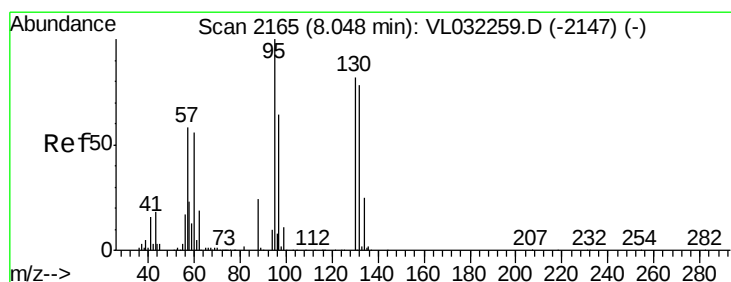
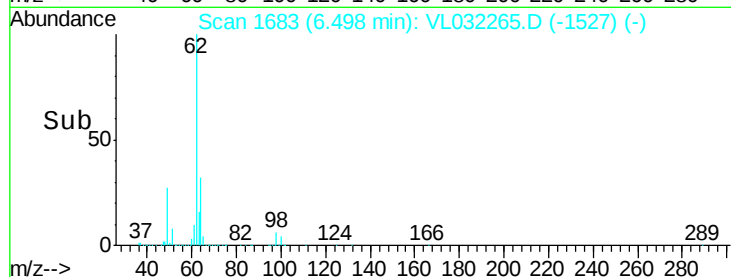
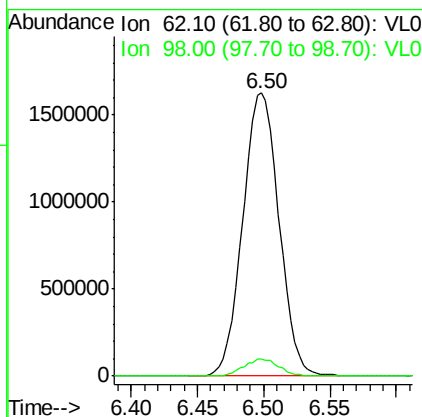
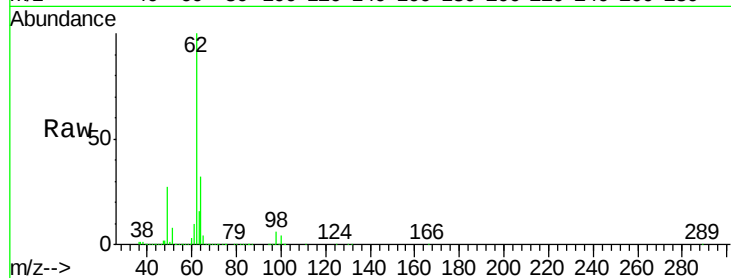
#37
1,2-Dichloroethane
Concen: 14.35 ppbv
RT: 6.50 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 62 Resp: 3092340
Ion Ratio Lower Upper
62 100
98 5.9 4.9 7.3

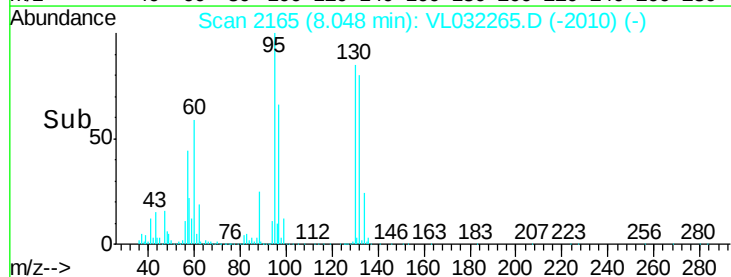
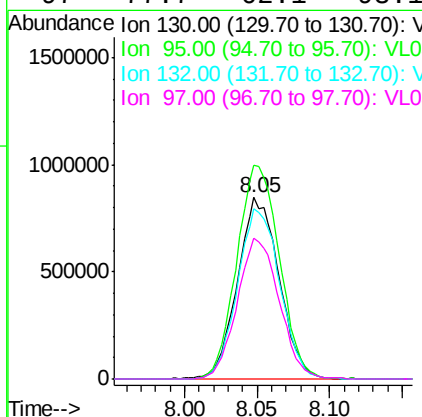
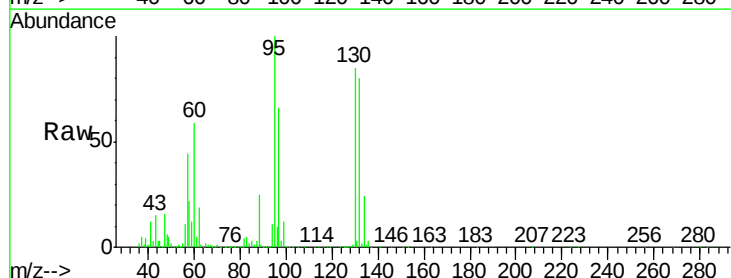
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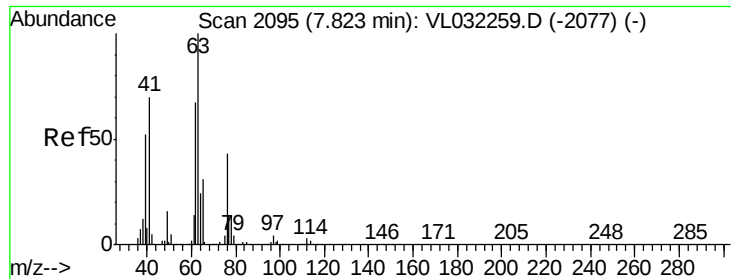
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#38
Trichloroethene
Concen: 12.36 ppbv
RT: 8.05 min Scan# 2165
Delta R.T. -0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Tgt Ion:130 Resp: 1669702
Ion Ratio Lower Upper
130 100
95 117.8 97.1 145.7
132 94.1 75.6 113.4
97 77.7 62.1 93.1





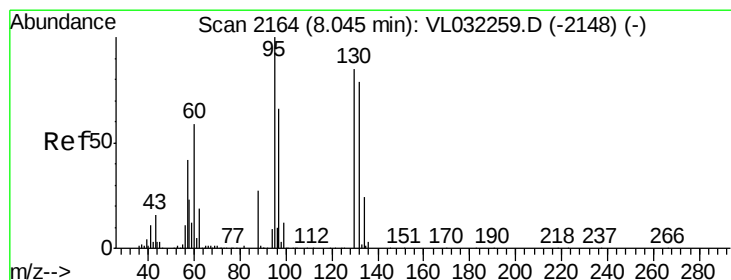
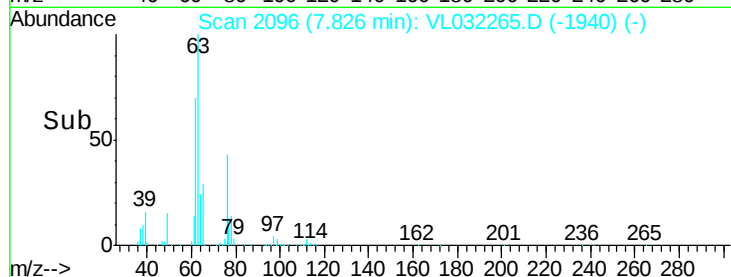
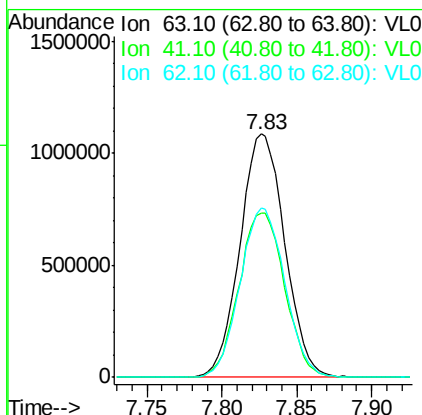
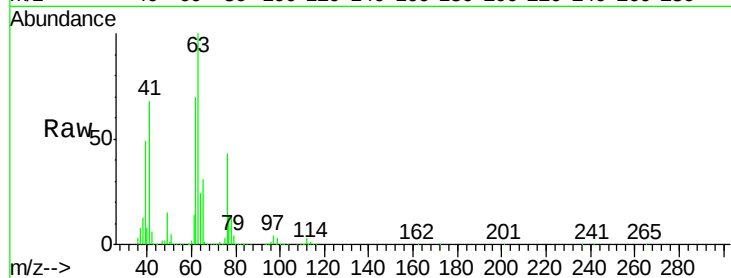
#39
 1,2-Dichloropropane
 Concen: 14.39 ppbv
 RT: 7.83 min Scan# 2096
 Delta R.T. 0.00 min
 Lab File: VL032265.D
 Acq: 18 Jul 2018 13:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
63	100		
41	67.6	55.8	83.6
62	69.7	53.8	80.8

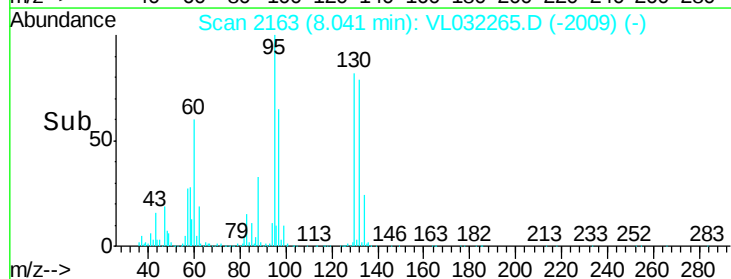
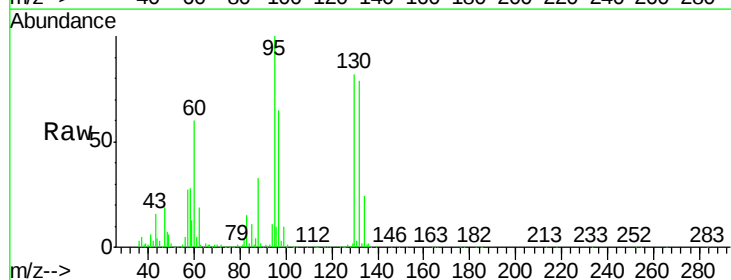
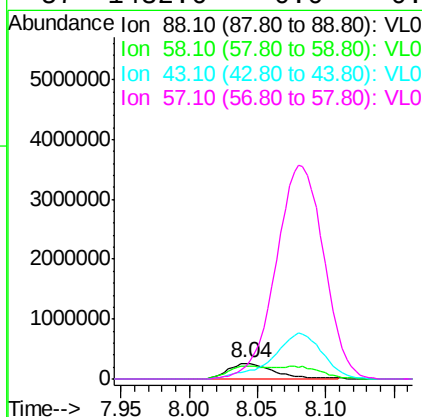
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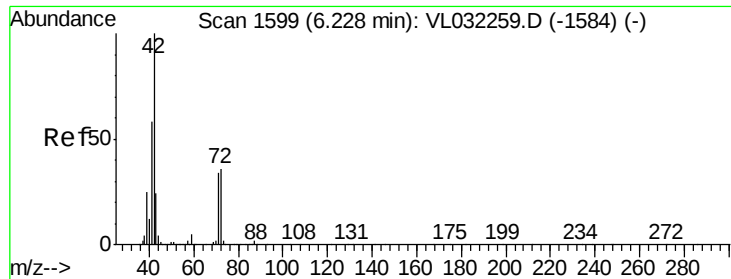
MMDadoda
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#40
 1,4-Dioxane
 Concen: 11.37 ppbv
 RT: 8.04 min Scan# 2163
 Delta R.T. -0.00 min
 Lab File: VL032265.D
 Acq: 18 Jul 2018 13:14

Tgt Ion	Ratio	Lower	Upper
88	100		
58	152.3	60.9	91.3#
43	321.6	0.0	0.0#
57	1432.6	0.0	0.0#





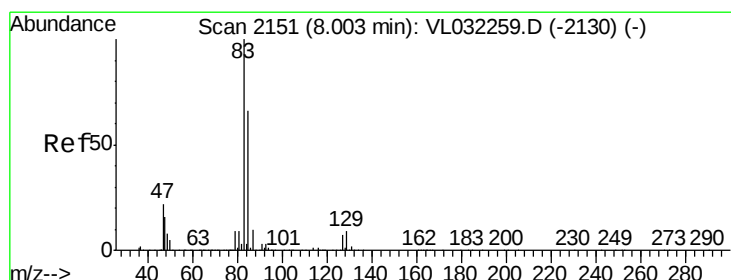
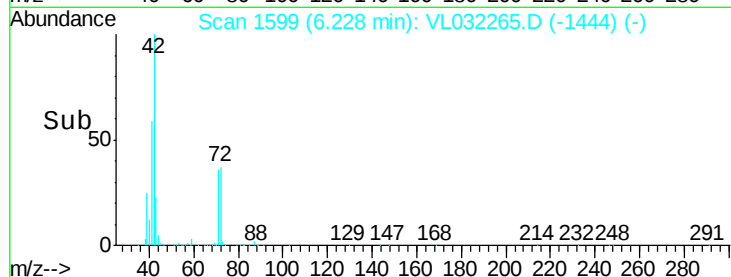
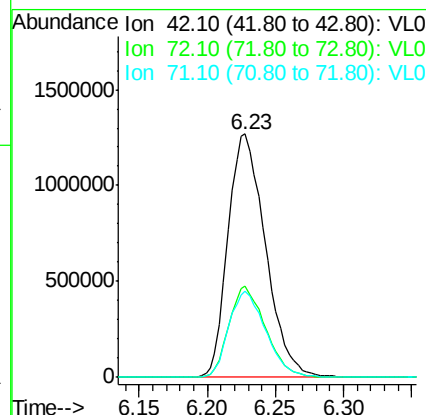
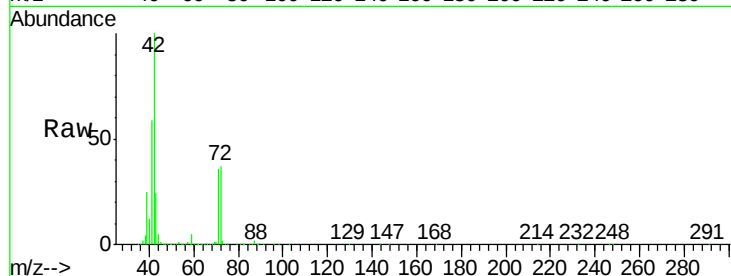
#41
Tetrahydrofuran
Concen: 16.02 ppbv
RT: 6.23 min Scan# 1599
Delta R.T. -0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 42 Resp: 2420704
Ion Ratio Lower Upper
42 100
72 36.6 29.4 44.0
71 35.1 28.2 42.4

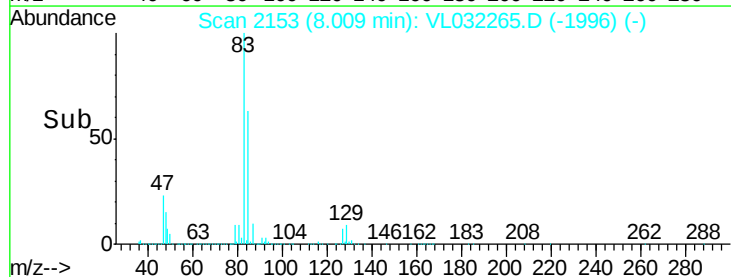
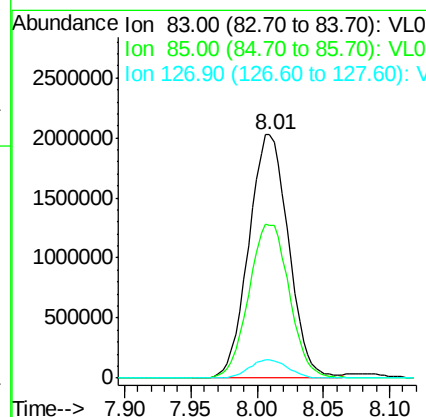
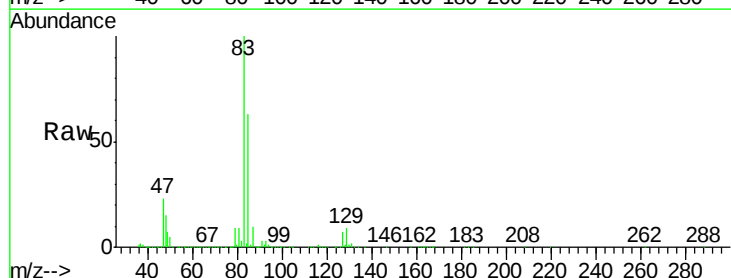
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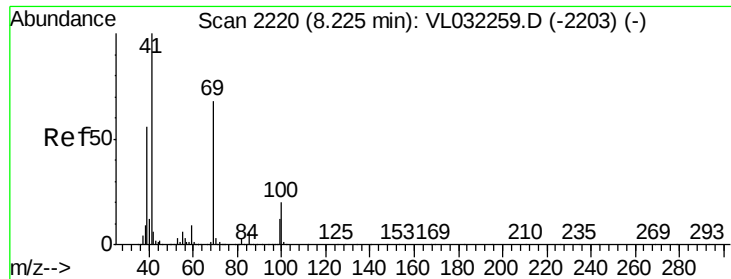
MMDadoda
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#42
Bromodichloromethane
Concen: 13.77 ppbv
RT: 8.01 min Scan# 2153
Delta R.T. 0.01 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Tgt Ion: 83 Resp: 4226046
Ion Ratio Lower Upper
83 100
85 63.0 53.0 79.4
127 7.4 5.7 8.5





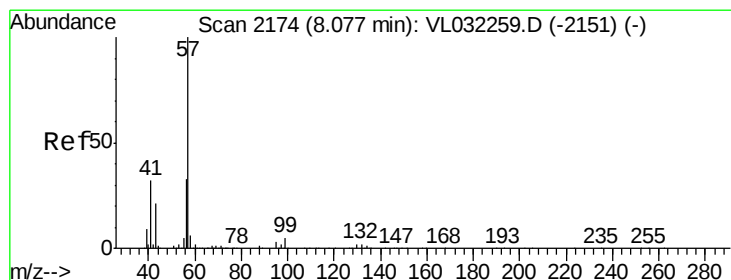
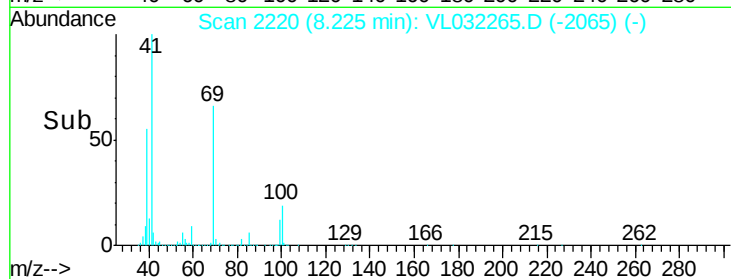
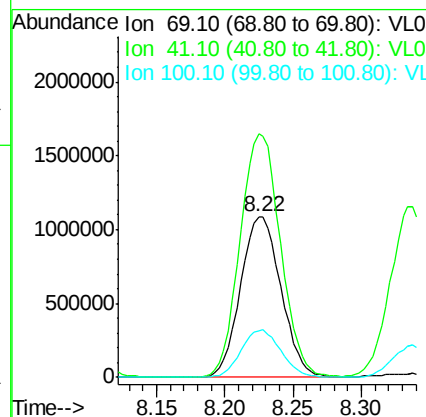
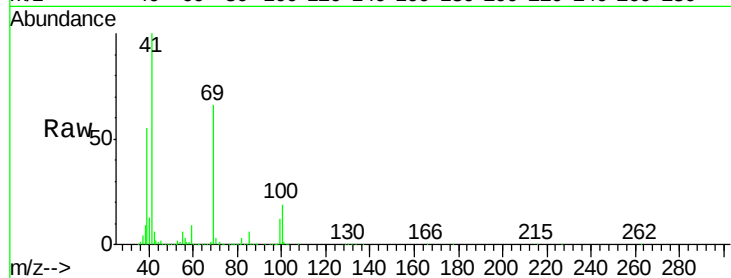
#43
Methvl Methacrvlate
Concen: 14.73 ppbv
RT: 8.22 min Scan# 2220
Delta R.T. -0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
69	100		
41	150.8	118.6	177.8
100	29.2	23.3	34.9

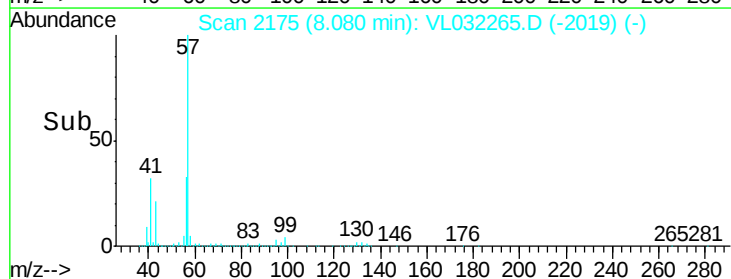
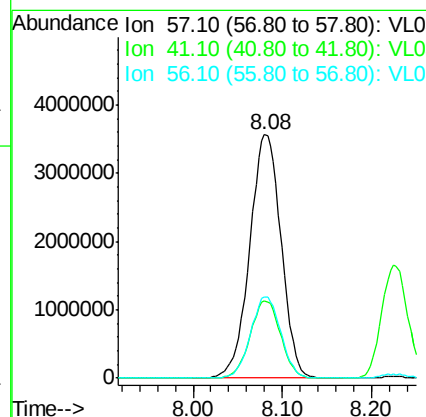
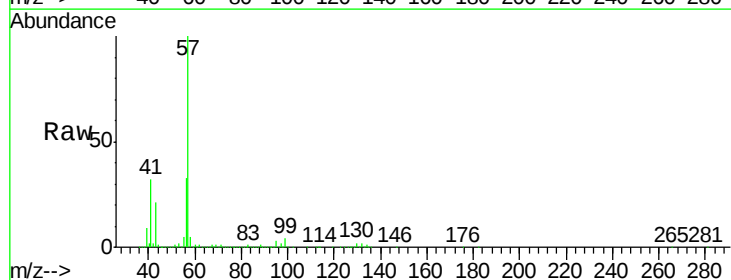
Manual Integrations
APPROVED

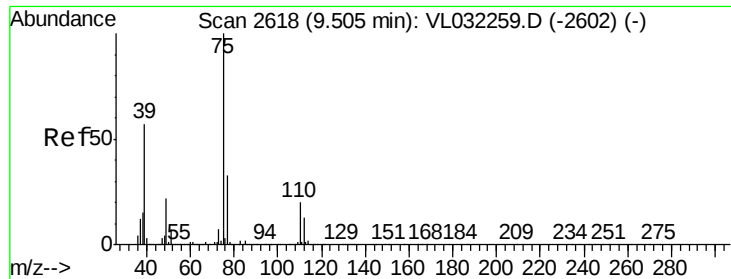
MMDadoda
7/20/2018 2:53:09 PM



#44
2,2,4-Trimethylpentane
Concen: 12.90 ppbv
RT: 8.08 min Scan# 2175
Delta R.T. 0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Tgt Ion	Ratio	Lower	Upper
57	100		
41	30.8	24.4	36.6
56	32.2	25.7	38.5





#45

t-1,3-Dichloropropene

Concen: 19.43 ppbv

RT: 9.51 min Scan# 2619

Delta R.T. 0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 75 Resp: 3521200

Ion Ratio Lower Upper

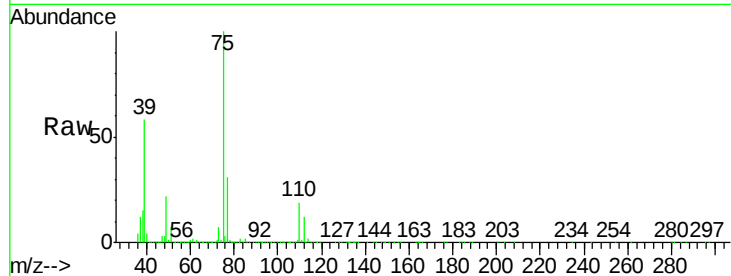
75 100

77 31.4 26.2 39.4

Manual Integrations
APPROVED

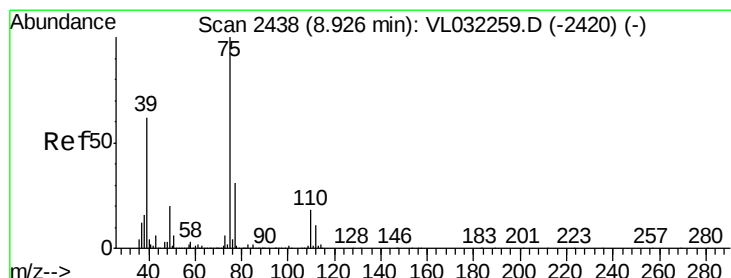
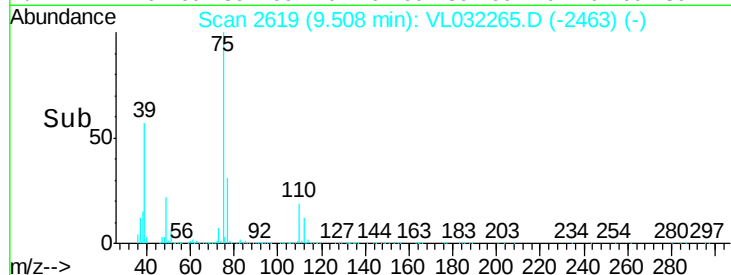
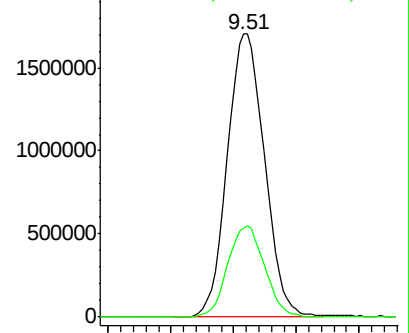
MMDadoda

7/20/2018 2:53:09 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: 13.66 ppbv

RT: 8.93 min Scan# 2439

Delta R.T. 0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

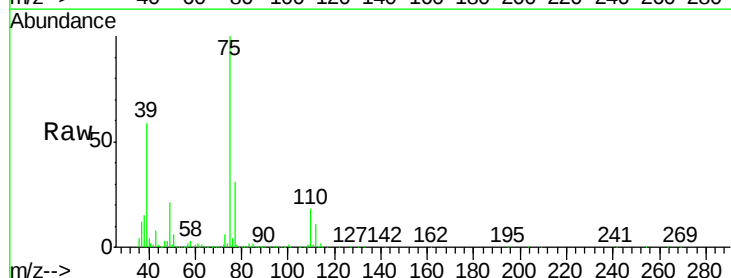
Tgt Ion: 75 Resp: 3375422

Ion Ratio Lower Upper

75 100

39 59.3 49.9 74.9

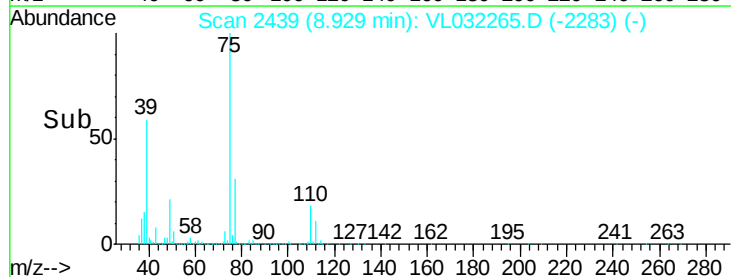
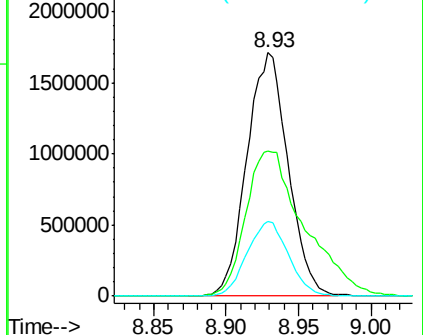
77 30.7 25.0 37.4

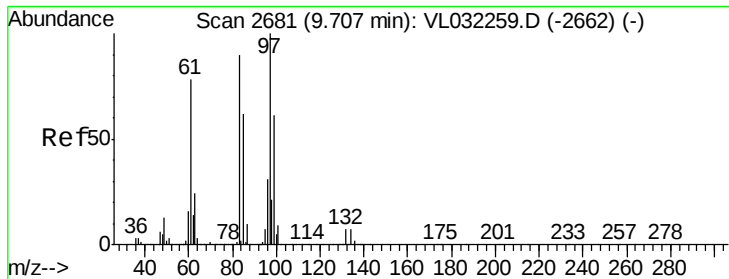


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 12.11 ppbv

RT: 9.71 min Scan# 2682

Delta R.T. 0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 97 Resp: 2115992

Ion Ratio Lower Upper

97 100

83 94.5 72.3 108.5

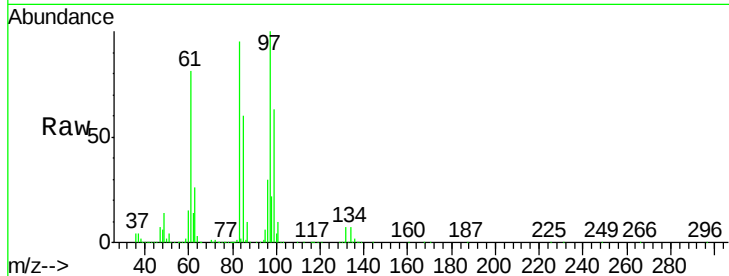
85 59.7 49.5 74.3

99 62.6 48.9 73.3

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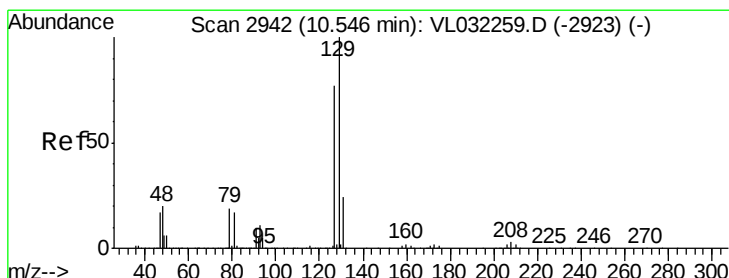
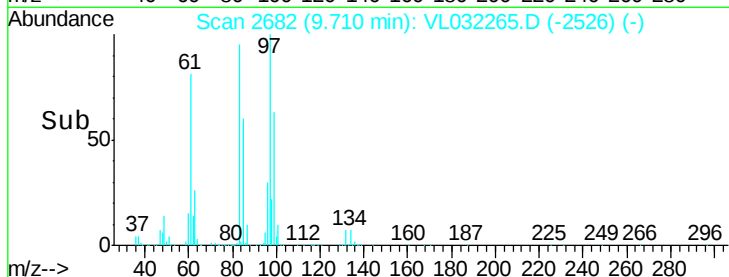
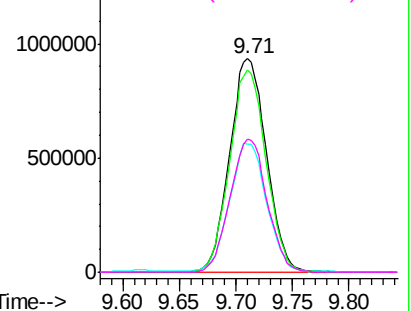


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 12.47 ppbv

RT: 10.55 min Scan# 2943

Delta R.T. 0.00 min

Lab File: VL032265.D

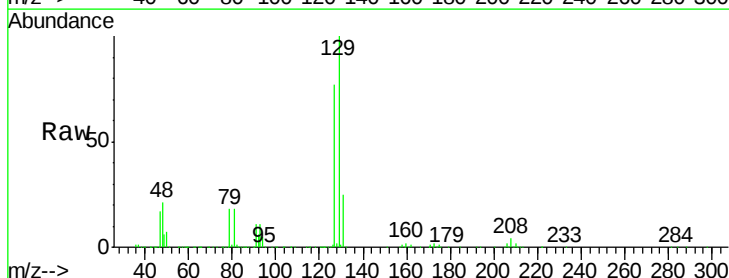
Acq: 18 Jul 2018 13:14

Tgt Ion: 129 Resp: 3241307

Ion Ratio Lower Upper

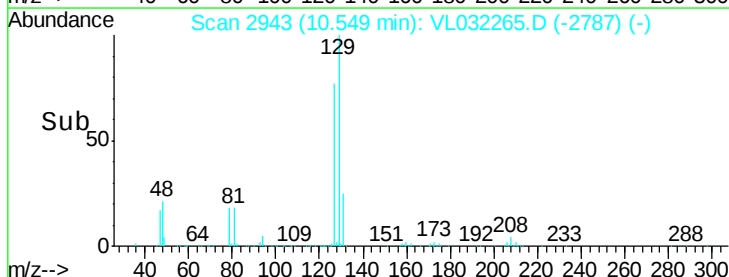
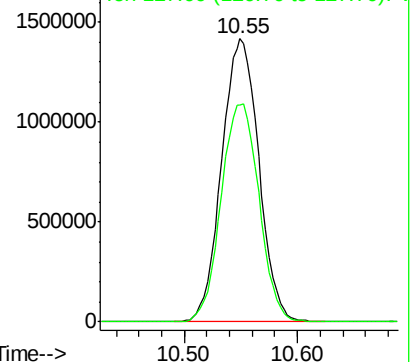
129 100

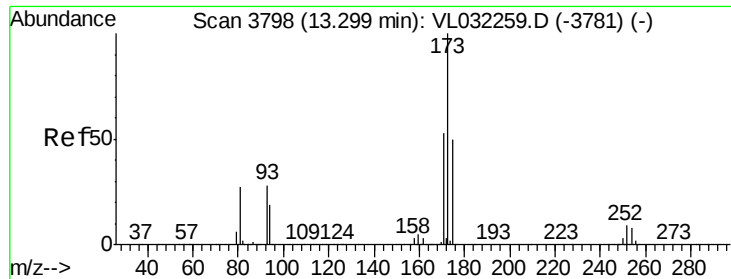
127 78.7 39.1 117.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





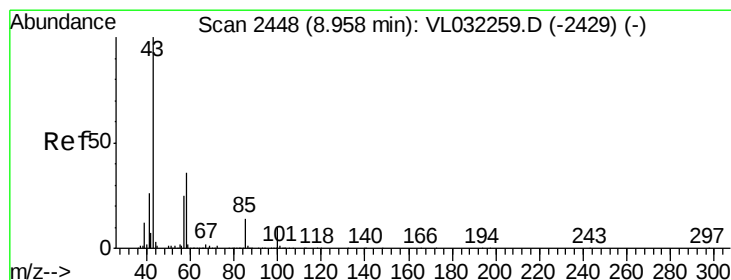
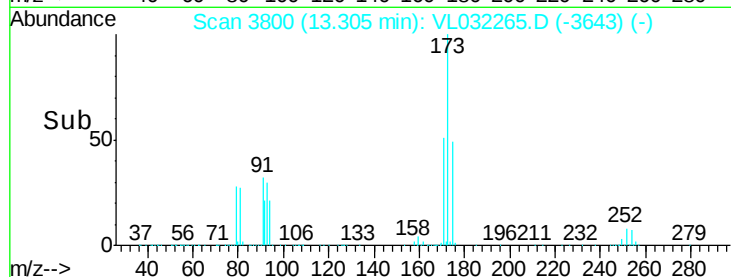
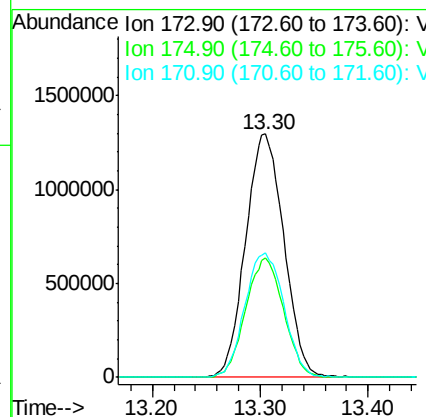
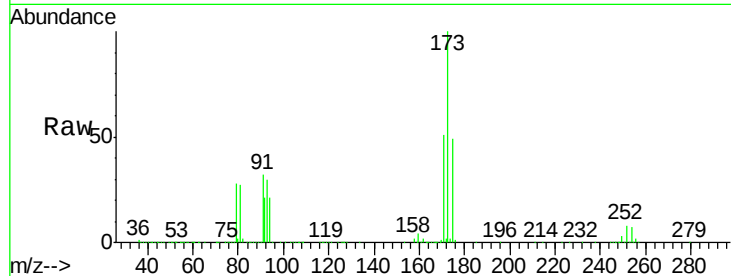
#49
Bromoform
Concen: 15.35 ppbv
RT: 13.30 min Scan# 3800
Delta R.T. 0.01 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:173 Resp: 3199913
Ion Ratio Lower Upper
173 100
175 48.7 39.0 58.6
171 52.3 41.6 62.4

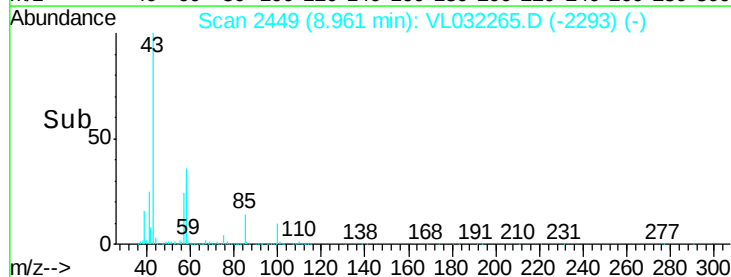
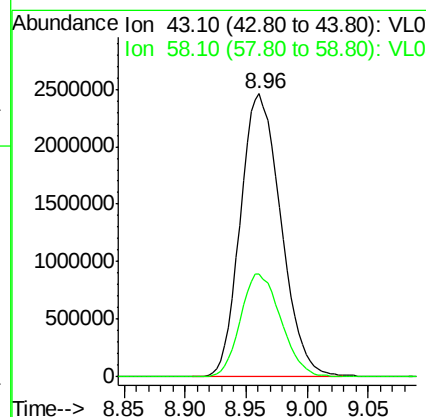
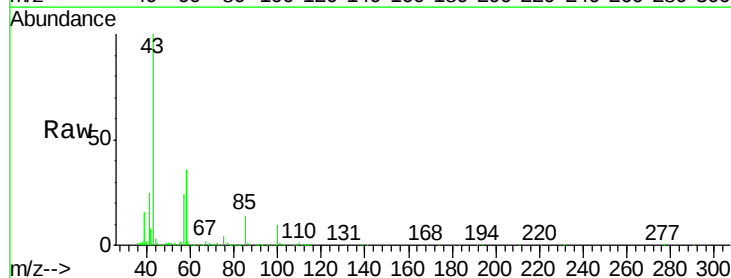
Manual Integrations
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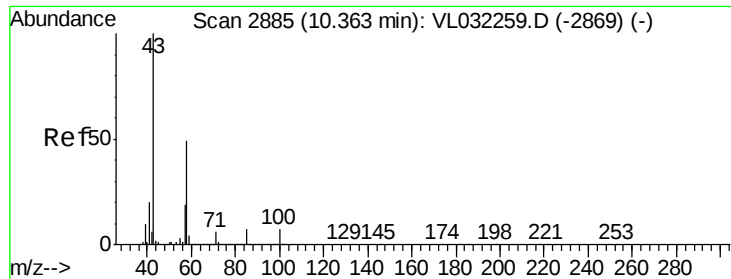
MMDadoda
7/20/2018 2:53:09 PM



#50
4-Methyl-2-Pentanone
Concen: 12.13 ppbv
RT: 8.96 min Scan# 2449
Delta R.T. 0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Tgt Ion: 43 Resp: 5664427
Ion Ratio Lower Upper
43 100
58 36.5 29.2 43.8





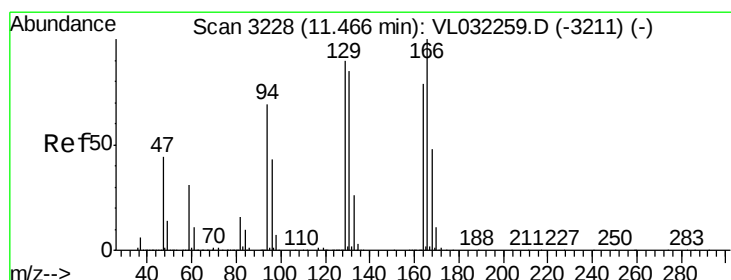
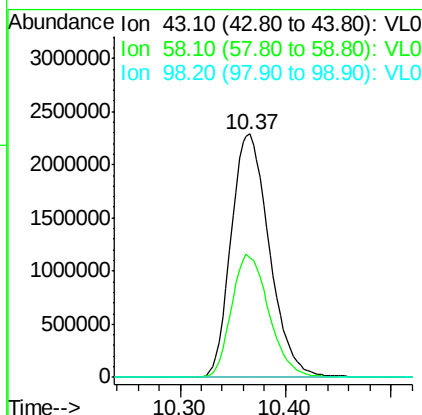
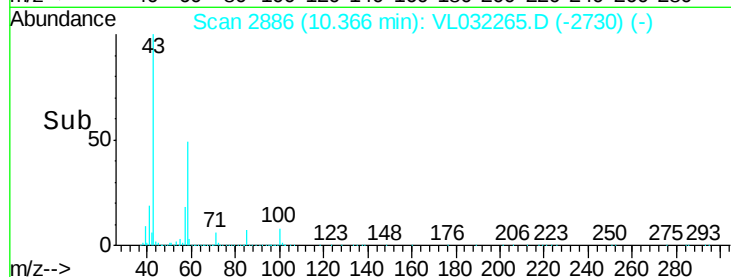
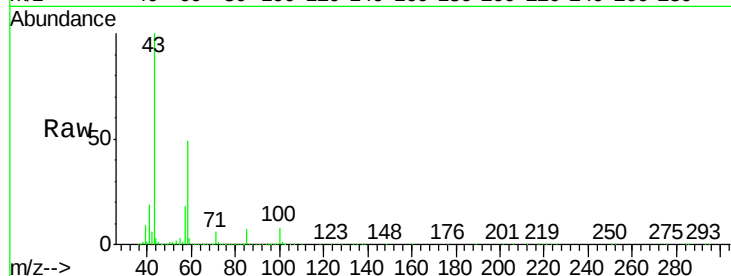
#51
2-Hexanone
Concen: 14.76 ppbv
RT: 10.37 min Scan# 2886
Delta R.T. 0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 5757276
Ion Ratio Lower Upper
43 100
58 49.5 39.4 59.2
98 0.1 0.2 0.2#

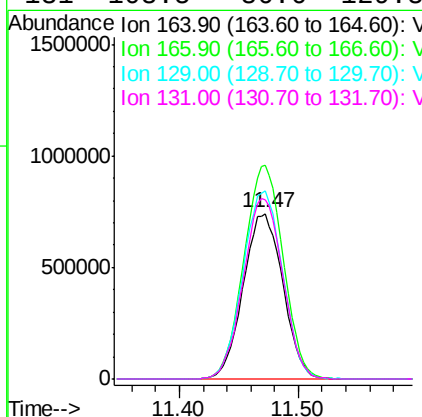
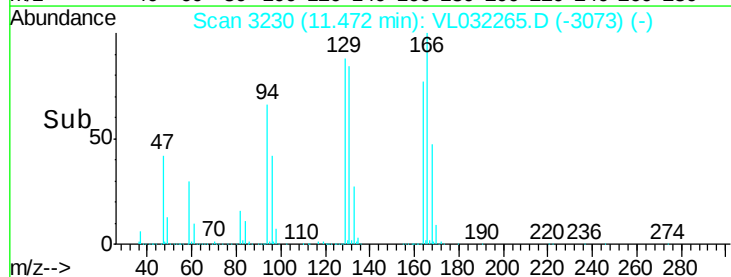
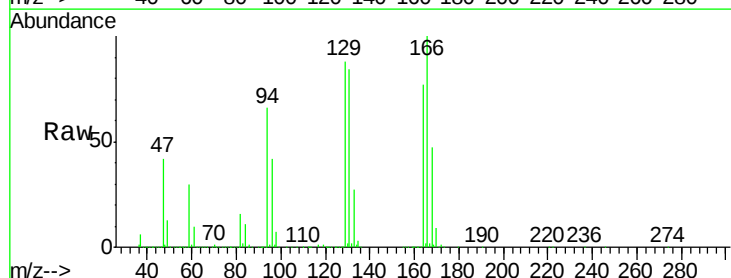
Manual Integrations
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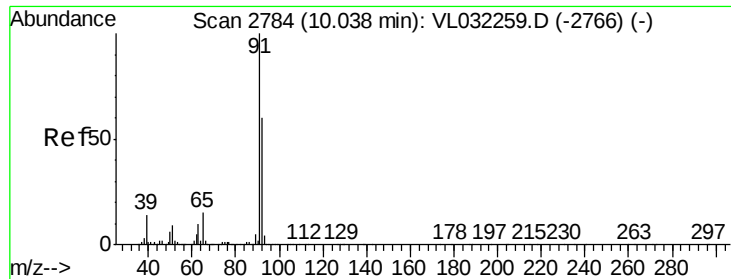
MMDadoda
7/20/2018 2:53:09 PM



#52
Tetrachloroethene
Concen: 11.76 ppbv
RT: 11.47 min Scan# 3230
Delta R.T. 0.01 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Tgt Ion: 164 Resp: 1710431
Ion Ratio Lower Upper
164 100
166 129.0 101.7 152.5
129 113.3 91.5 137.3
131 108.5 86.6 129.8





#53

Toluene

Concen: 14.89 ppbv

RT: 10.04 min Scan# 2785

Delta R.T. 0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 6931780

Ion Ratio Lower Upper

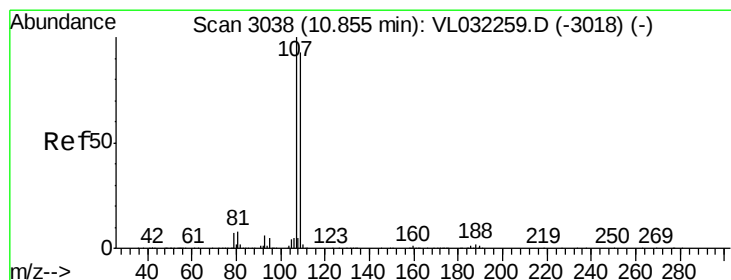
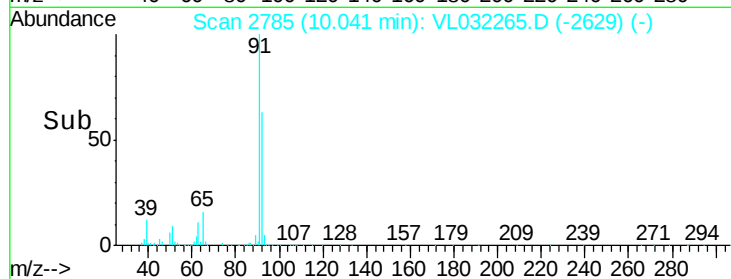
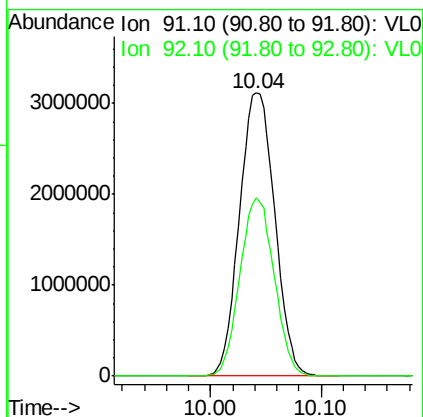
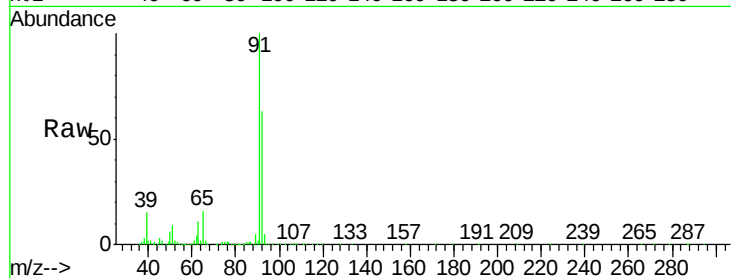
91 100

92 61.3 48.6 72.8

Manual Integrations
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7/20/2018 2:53:09 PM



#54

1,2-Dibromoethane

Concen: 11.90 ppbv

RT: 10.86 min Scan# 3040

Delta R.T. 0.01 min

Lab File: VL032265.D

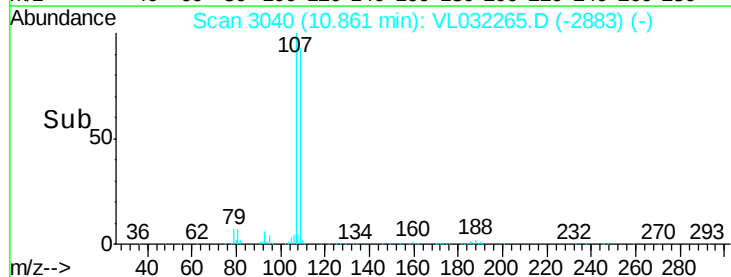
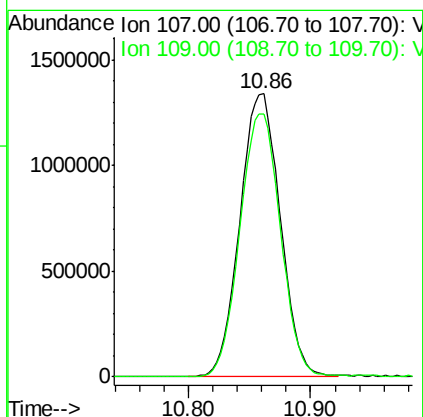
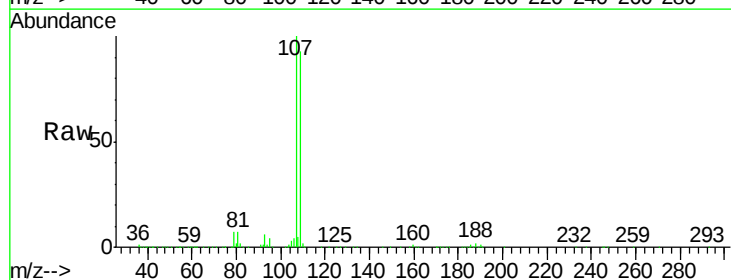
Acq: 18 Jul 2018 13:14

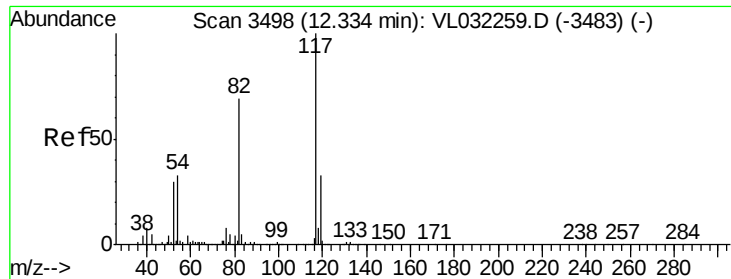
Tgt Ion: 107 Resp: 3069199

Ion Ratio Lower Upper

107 100

109 92.7 74.8 112.2





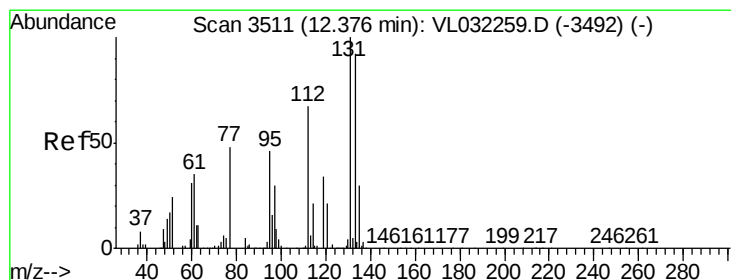
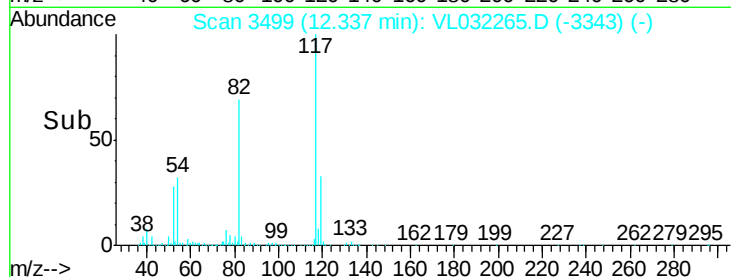
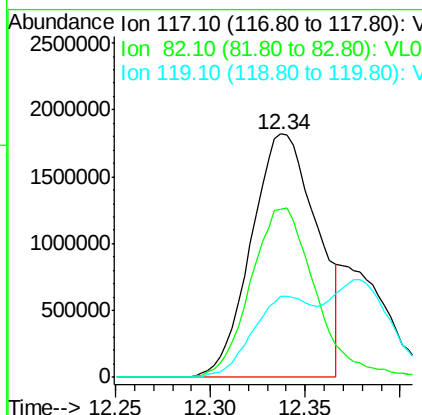
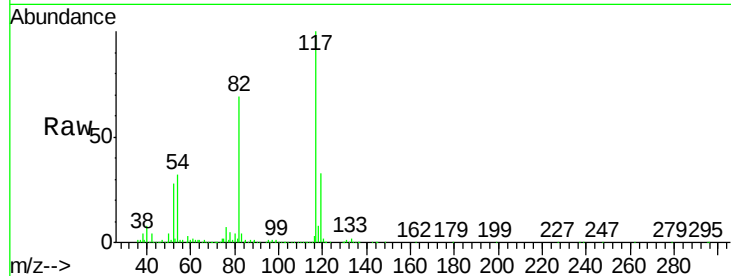
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.34 min Scan# 3499
Delta R.T. 0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 4399838
Ion Ratio Lower Upper
117 100
82 69.1 53.9 80.9
119 68.3 25.5 38.3#

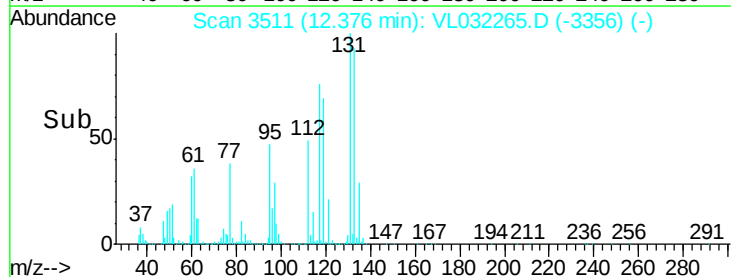
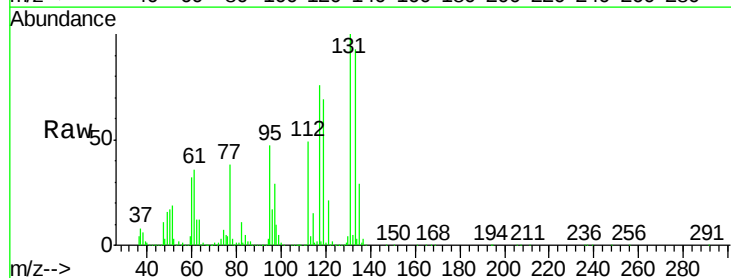
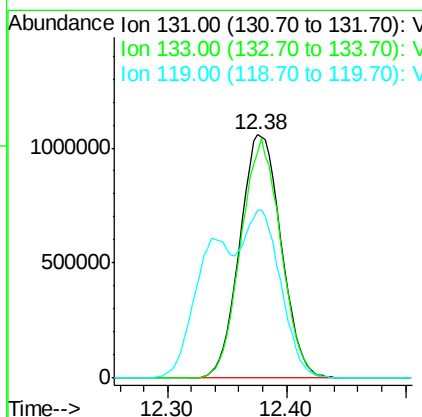
Manual Integrations
APPROVED

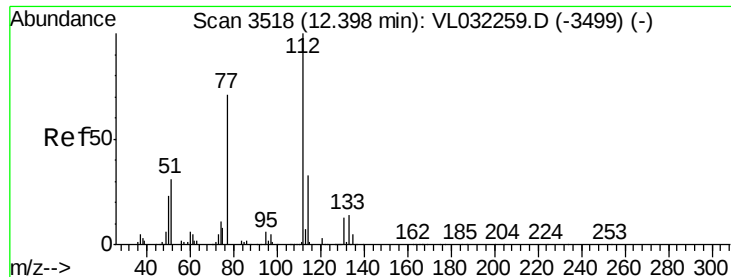
MMDadoda
7/20/2018 2:53:09 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 13.33 ppbv
RT: 12.38 min Scan# 3511
Delta R.T. -0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Tgt Ion:131 Resp: 2546984
Ion Ratio Lower Upper
131 100
133 94.8 75.4 113.0
119 118.0 49.4 74.2#





#57

Chlorobenzene

Concen: 12.52 ppbv

RT: 12.40 min Scan# 3519

Delta R.T. 0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:112 Resp: 4654255

Ion Ratio Lower Upper

112 100

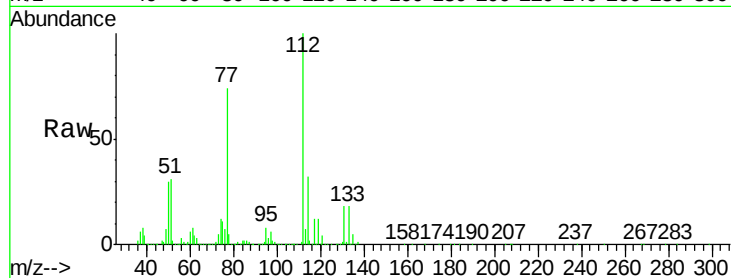
77 73.4 58.2 87.4

114 31.6 29.5 36.1

Manual Integrations
APPROVED

MMDadoda

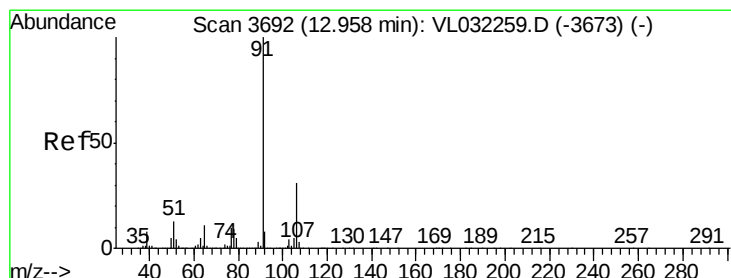
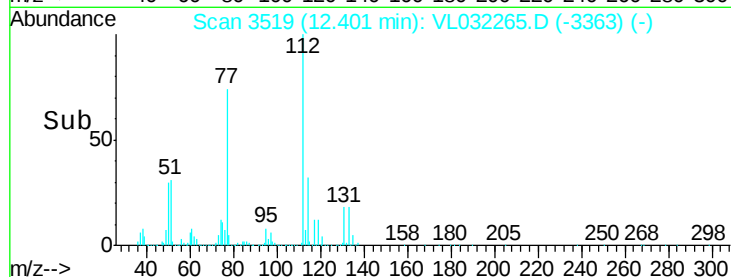
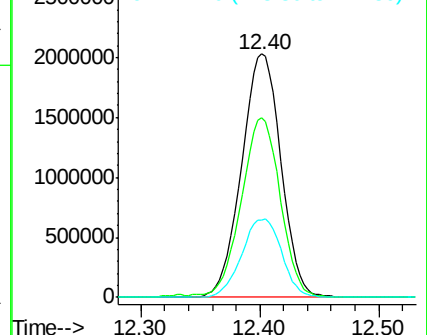
7/20/2018 2:53:09 PM



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: 13.80 ppbv

RT: 12.96 min Scan# 3693

Delta R.T. 0.00 min

Lab File: VL032265.D

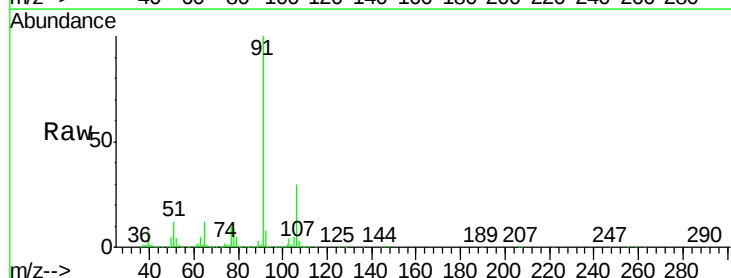
Acq: 18 Jul 2018 13:14

Tgt Ion: 91 Resp: 8842030

Ion Ratio Lower Upper

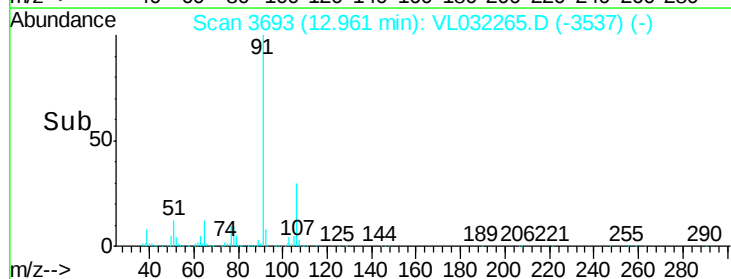
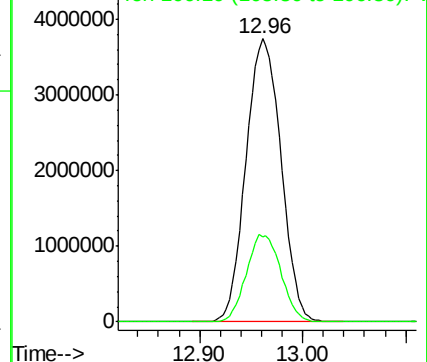
91 100

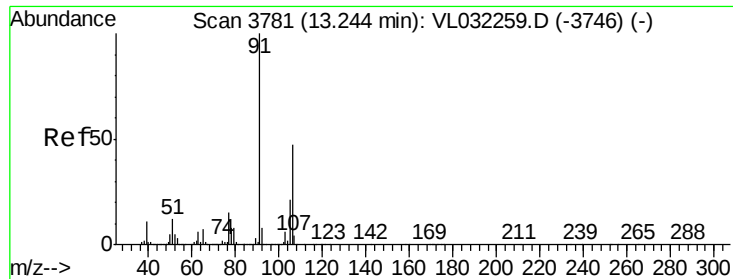
106 30.0 24.5 36.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





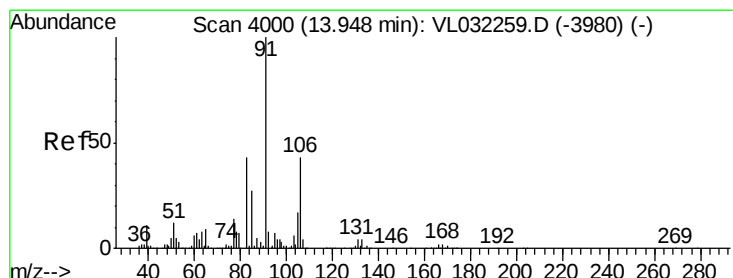
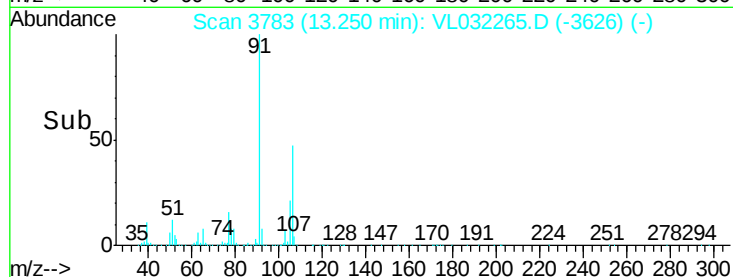
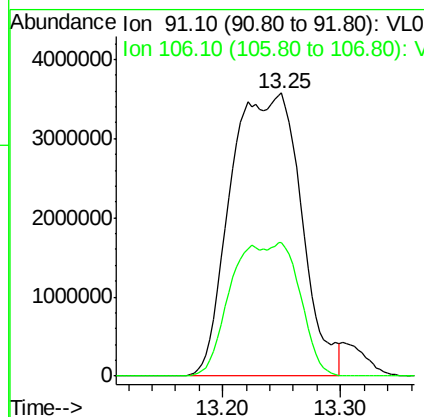
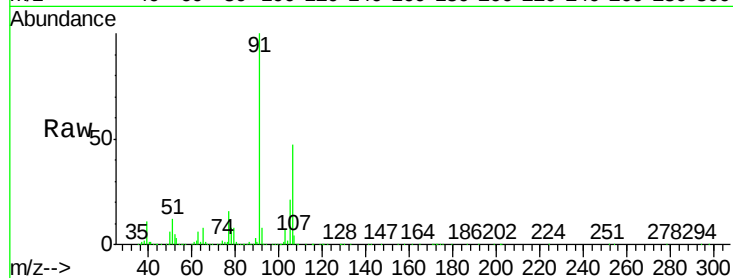
#59
m/p-Xylene
Concen: 28.14 ppbv m
RT: 13.25 min Scan# 3783
Delta R.T. 0.01 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 14832909
Ion Ratio Lower Upper
91 100
106 45.8 36.2 54.2

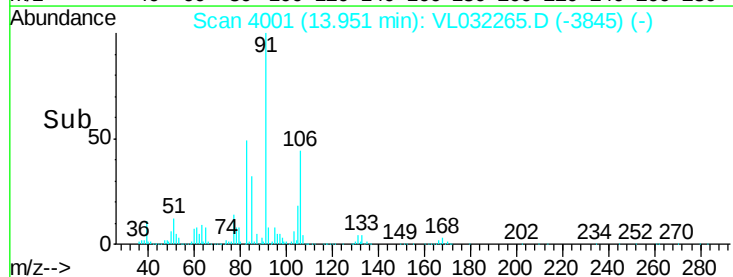
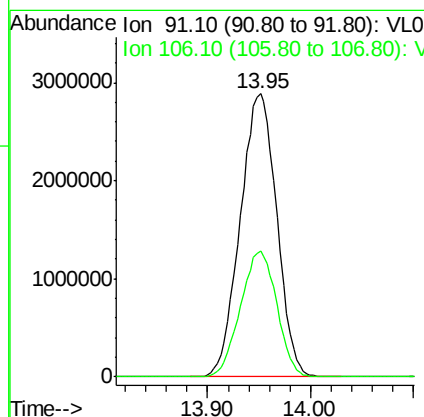
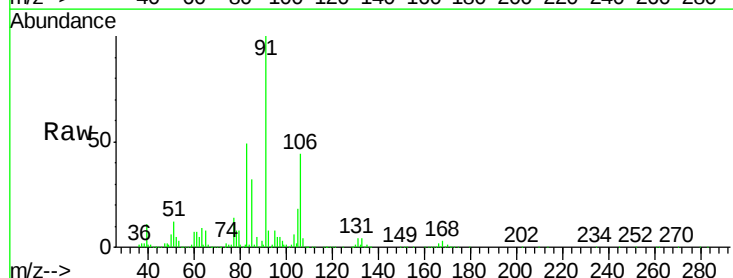
Manual Integrations
APPROVED

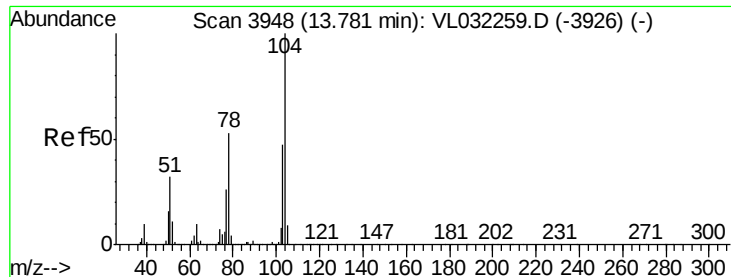
MMDadoda
7/20/2018 2:53:09 PM



#60
o-Xylene
Concen: 13.64 ppbv
RT: 13.95 min Scan# 4001
Delta R.T. 0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Tgt Ion: 91 Resp: 7096725
Ion Ratio Lower Upper
91 100
106 44.2 21.7 65.1





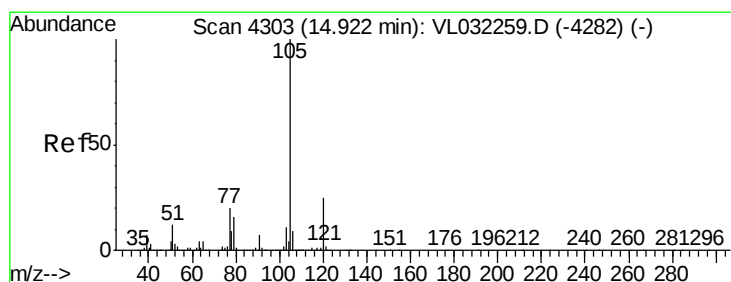
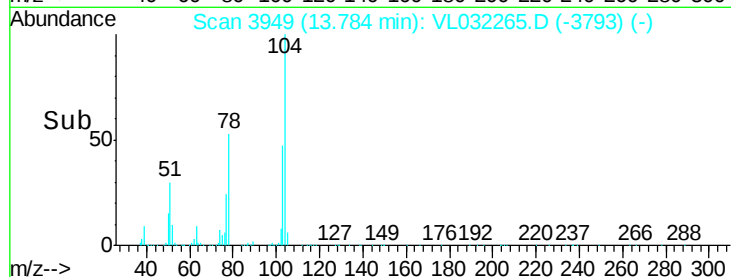
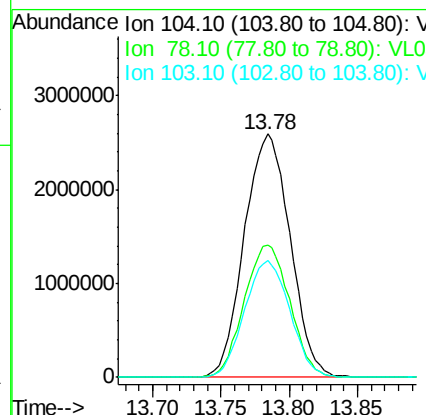
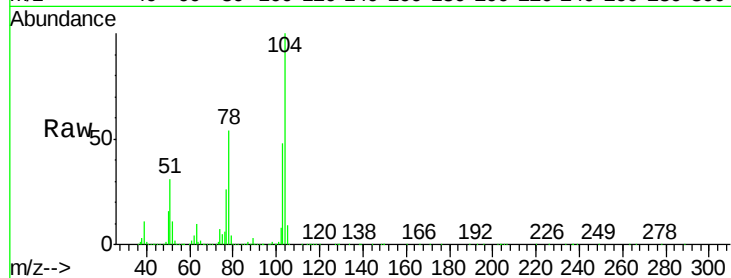
#61
Stvrene
Concen: 15.49 ppbv
RT: 13.78 min Scan# 3949
Delta R.T. 0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.3	43.2	64.8
103	47.5	37.8	56.6

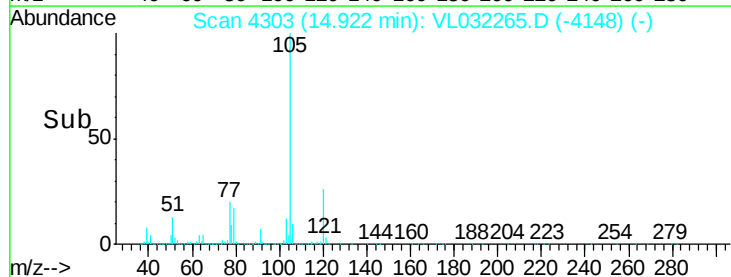
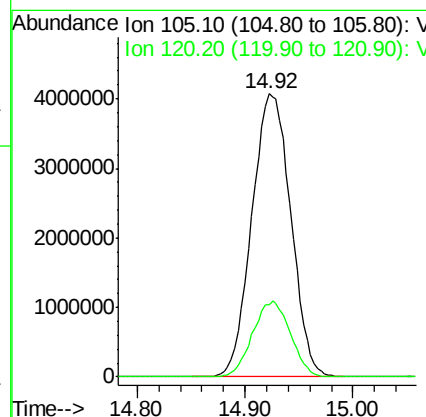
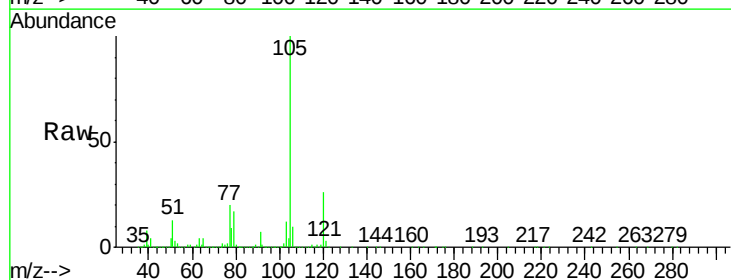
Manual Integrations
APPROVED

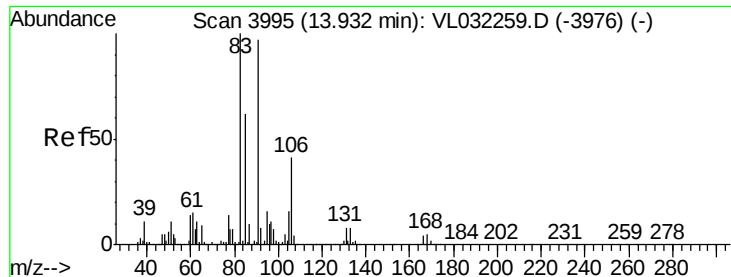
MMDadoda
7/20/2018 2:53:09 PM



#62
Isopropylbenzene
Concen: 14.00 ppbv
RT: 14.92 min Scan# 4303
Delta R.T. -0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.1	20.2	30.4





#63

1,1,2,2-Tetrachloroethane

Concen: 12.53 ppbv

RT: 13.94 min Scan# 3997

Delta R.T. 0.01 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 5304142

Ion Ratio Lower Upper

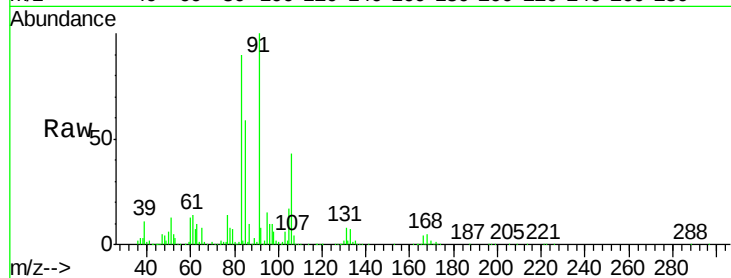
83 100

131 8.4 4.2 12.6

85 65.0 32.2 96.6

Manual Integrations
APPROVED

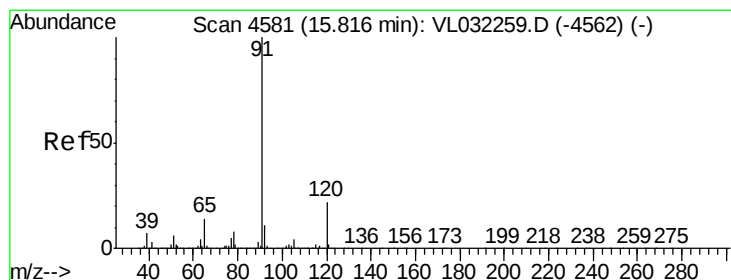
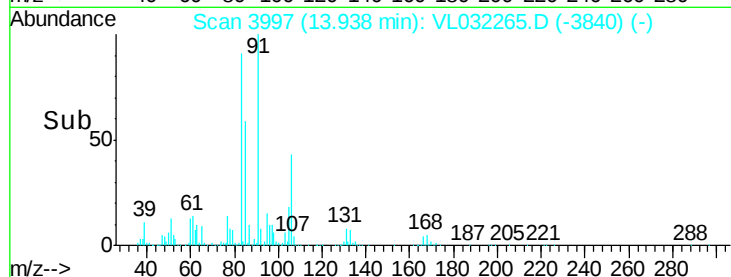
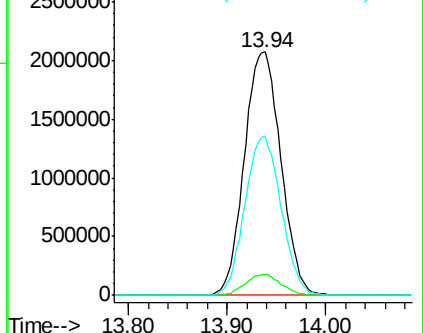
MMDadoda
7/20/2018 2:53:09 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 14.73 ppbv

RT: 15.82 min Scan# 4582

Delta R.T. 0.00 min

Lab File: VL032265.D

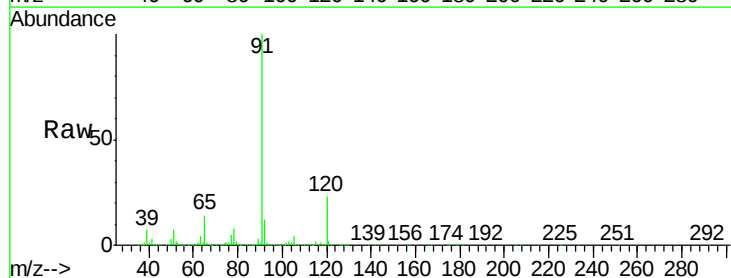
Acq: 18 Jul 2018 13:14

Tgt Ion:120 Resp: 2720732

Ion Ratio Lower Upper

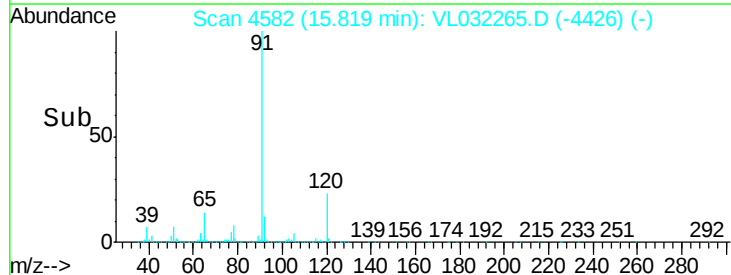
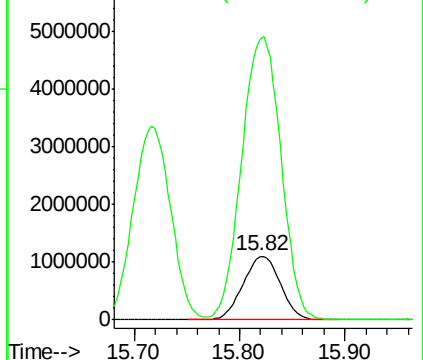
120 100

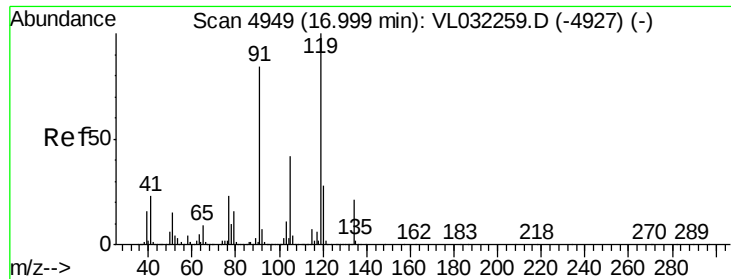
91 468.6 384.4 576.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





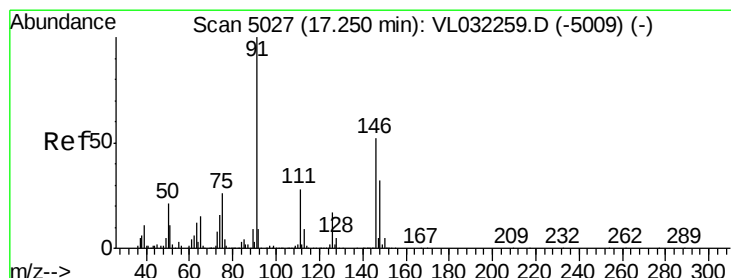
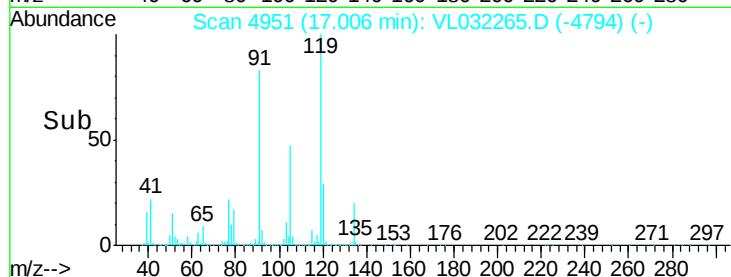
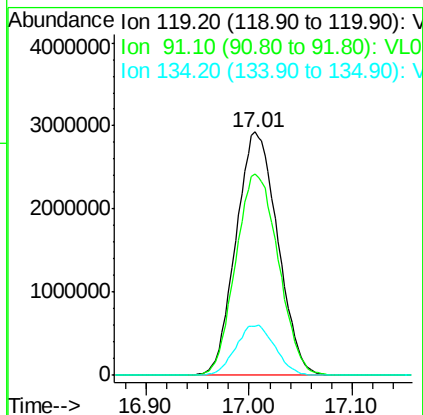
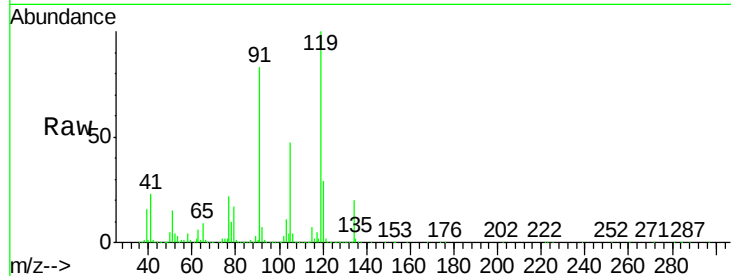
#65
tert-Butylbenzene
Concen: 13.41 ppbv
RT: 17.01 min Scan# 4951
Delta R.T. 0.01 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
91	85.2	68.2	102.4
134	19.5	15.6	23.4

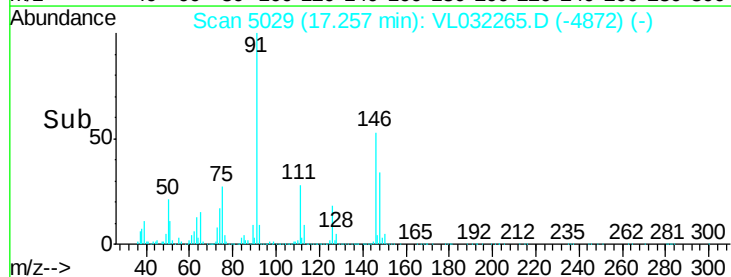
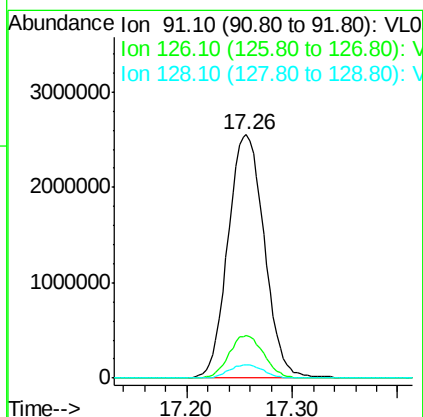
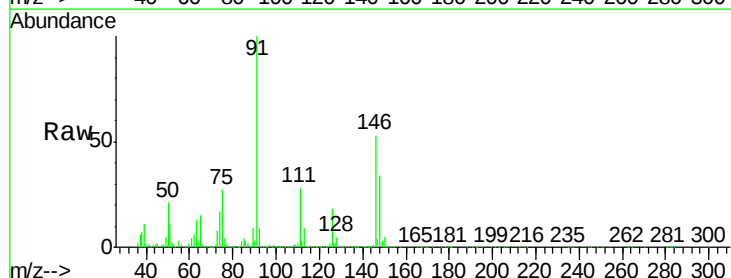
Manual Integrations
APPROVED

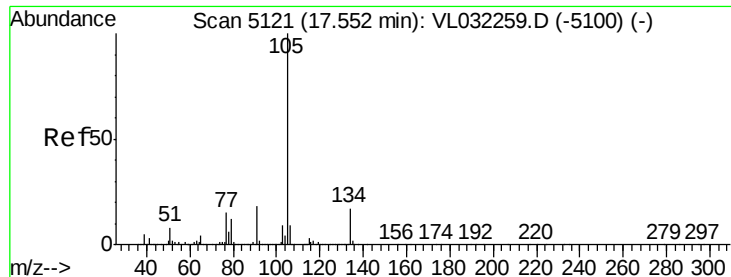
MMDadoda
7/20/2018 2:53:09 PM



#66
Benzyl Chloride
Concen: 19.64 ppbv
RT: 17.26 min Scan# 5029
Delta R.T. 0.01 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.1	13.4	20.2
128	5.4	4.3	6.5





#67

sec-Butylbenzene

Concen: 13.85 ppbv

RT: 17.56 min Scan# 5122

Delta R.T. 0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 105 Resp: 12359890

Ion Ratio Lower Upper

105 100

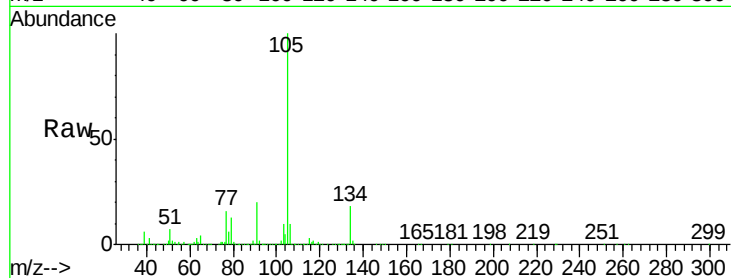
134 18.0 14.0 21.0

Manual Integrations

APPROVED

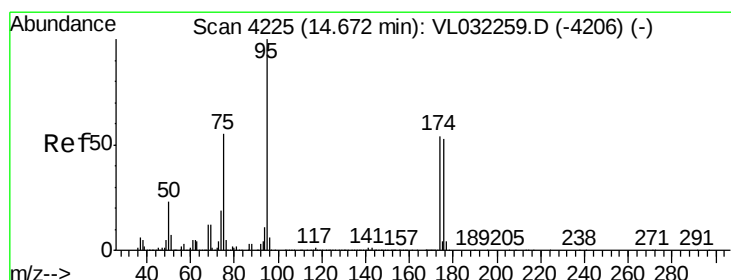
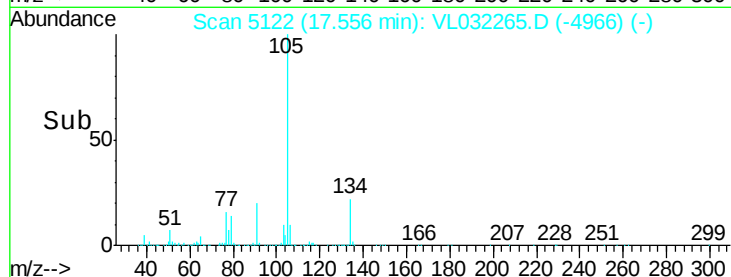
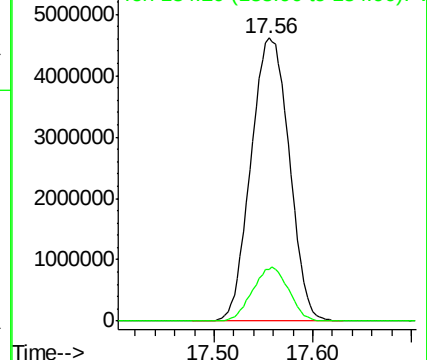
MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.61 ppbv

RT: 14.67 min Scan# 4226

Delta R.T. 0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

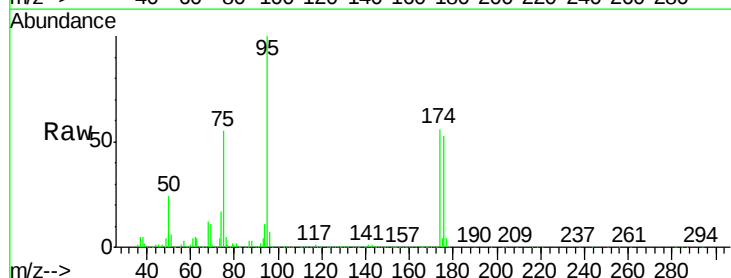
Tgt Ion: 95 Resp: 3612836

Ion Ratio Lower Upper

95 100

174 55.5 44.3 66.5

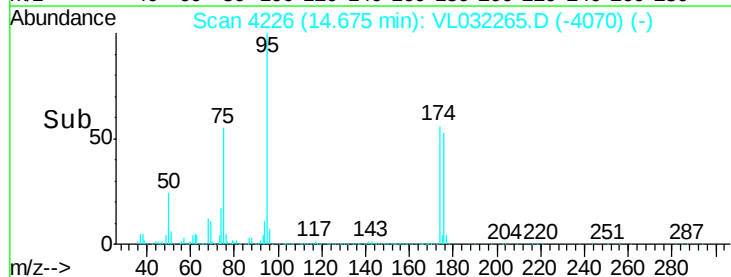
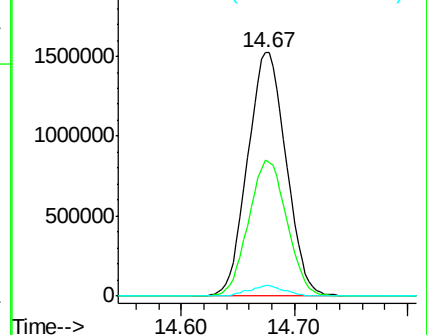
175 4.1 3.3 4.9

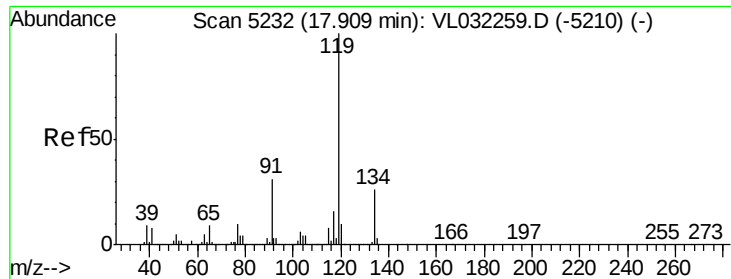


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





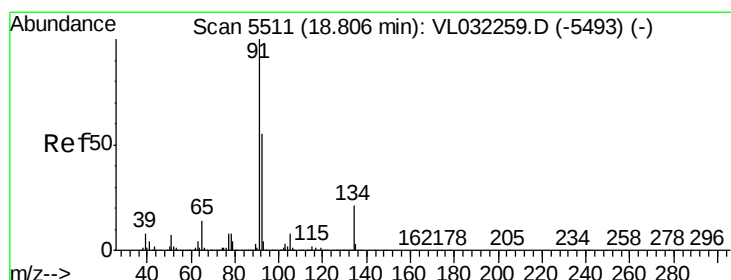
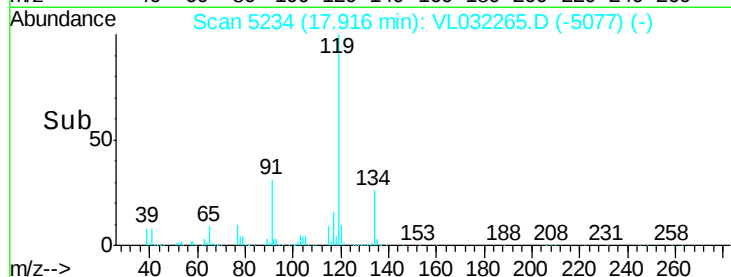
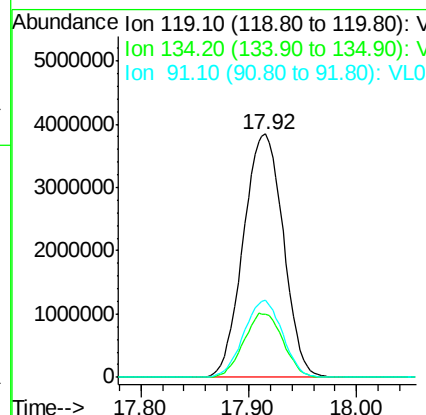
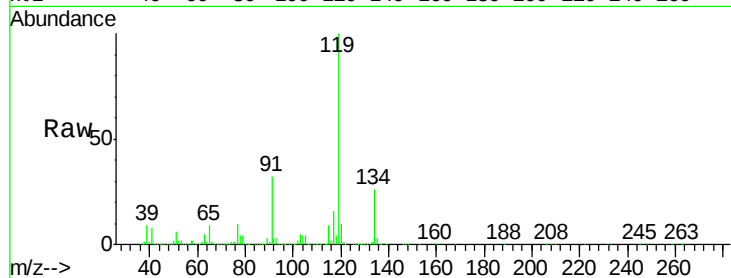
#69
p-Isopropyltoluene
Concen: 14.25 ppbv
RT: 17.92 min Scan# 5234
Delta R.T. 0.01 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.3	30.5
91	30.5	24.1	36.1

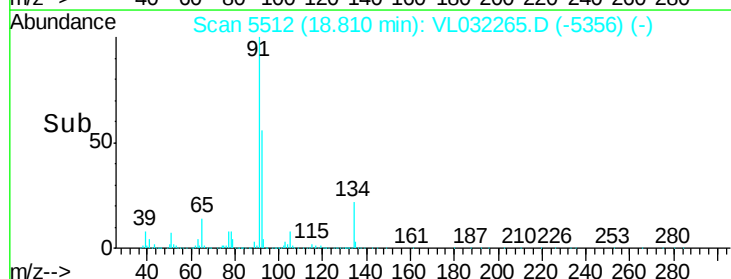
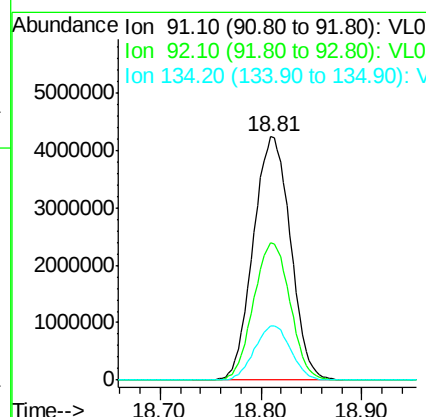
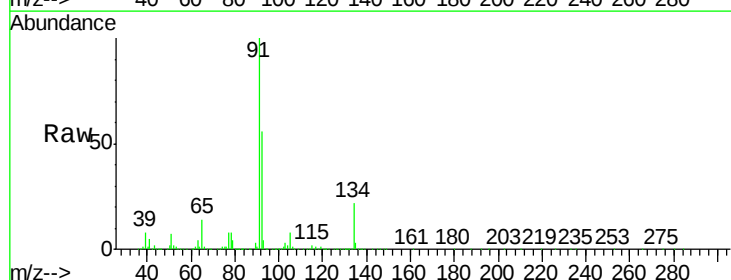
Manual Integrations
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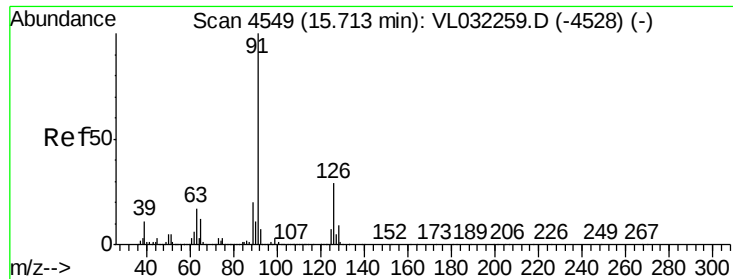
MMDadoda
7/20/2018 2:53:09 PM



#70
n-Butylbenzene
Concen: 14.13 ppbv
RT: 18.81 min Scan# 5512
Delta R.T. 0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.5	43.8	65.6
134	21.7	17.1	25.7





#71

2-Chlorotoluene

Concen: 14.49 ppbv

RT: 15.72 min Scan# 4550

Delta R.T. 0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 8314969

Ion Ratio Lower Upper

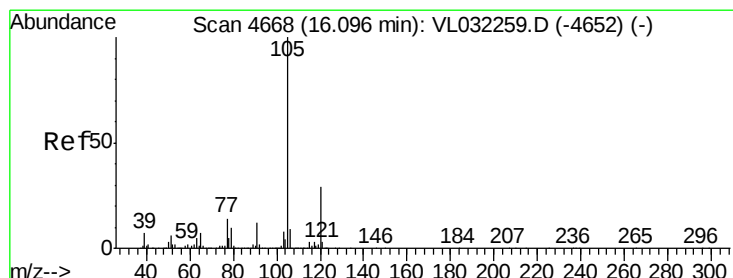
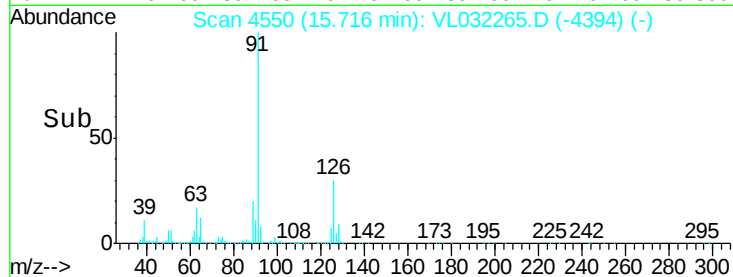
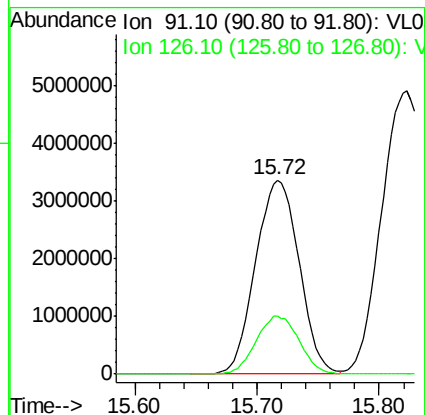
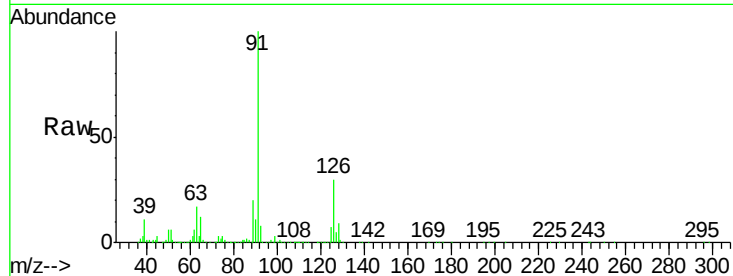
91 100

126 29.5 11.6 46.2

Manual Integrations
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#72

4-Ethyltoluene

Concen: 14.91 ppbv

RT: 16.10 min Scan# 4669

Delta R.T. 0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Tgt Ion:105 Resp: 8703180

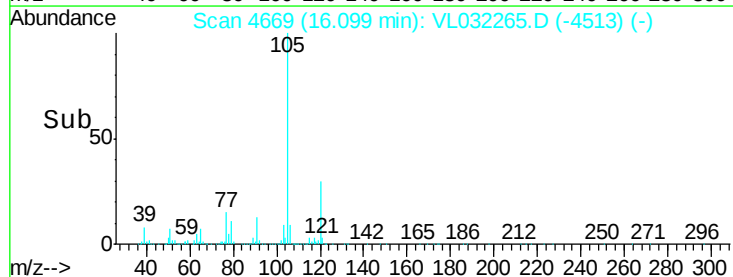
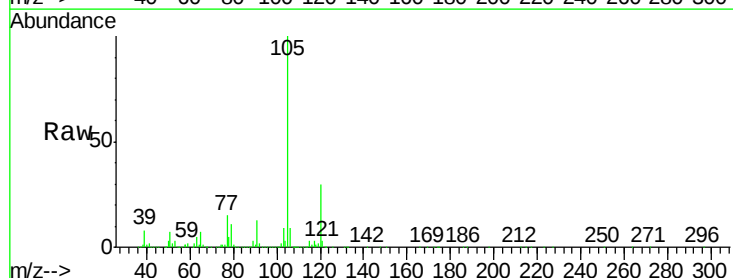
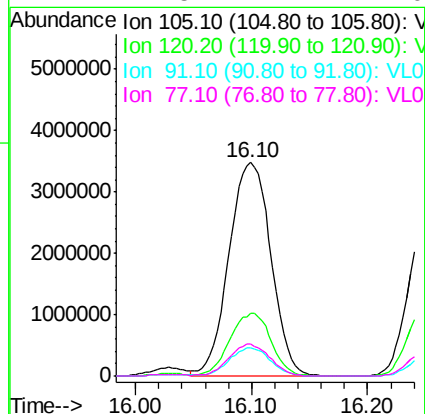
Ion Ratio Lower Upper

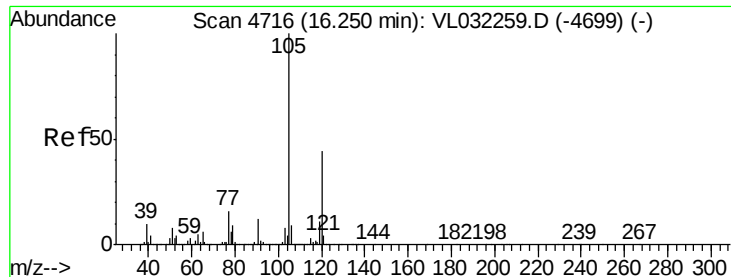
105 100

120 29.3 23.0 34.6

91 12.9 10.1 15.1

77 14.5 11.4 17.0





#73

1,3,5-Trimethylbenzene

Concen: 15.09 ppbv

RT: 16.26 min Scan# 4718

Delta R.T. 0.01 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 8188450

Ion Ratio Lower Upper

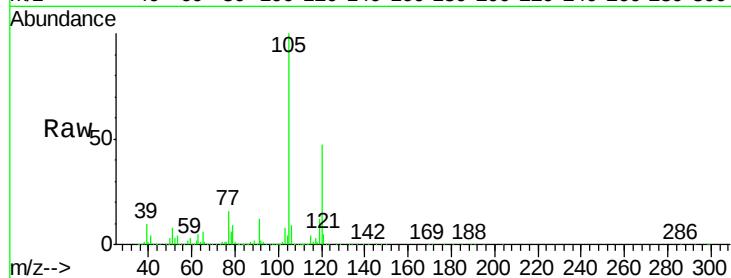
105 100

120 47.0 35.5 53.3

Manual Integrations
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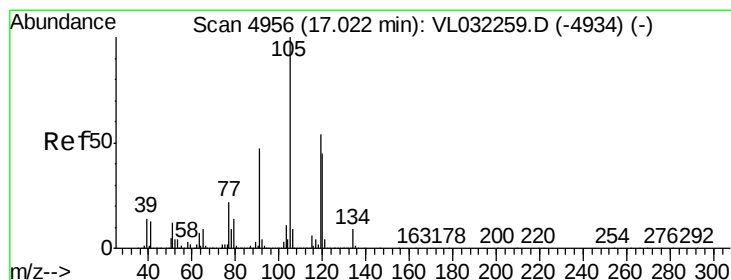
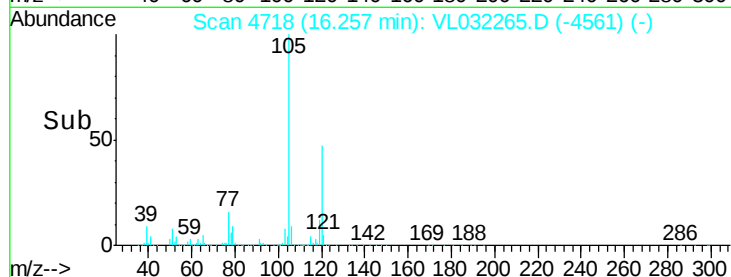
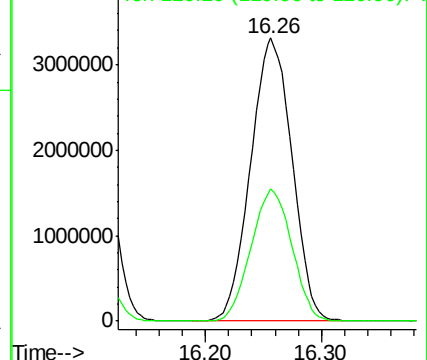
MMDadoda

7/20/2018 2:53:09 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 14.02 ppbv

RT: 17.03 min Scan# 4958

Delta R.T. 0.01 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Tgt Ion:105 Resp: 7779157

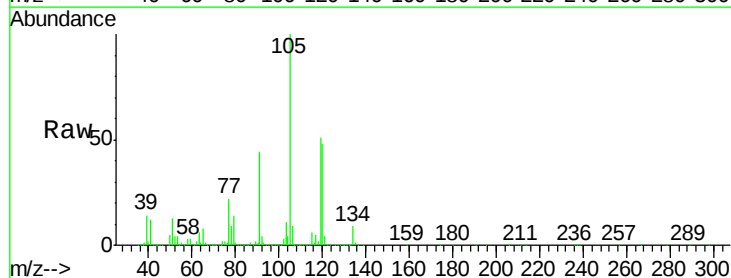
Ion Ratio Lower Upper

105 100

120 47.6 35.8 53.6

91 44.3 38.2 57.4

77 21.5 17.5 26.3

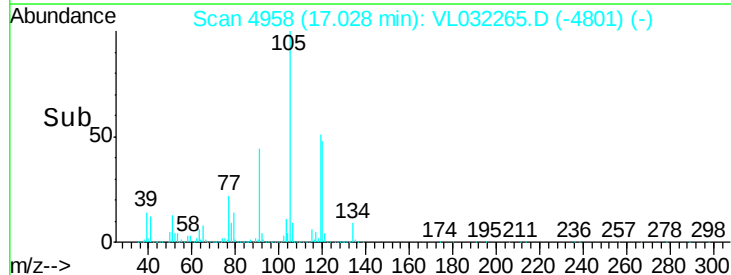
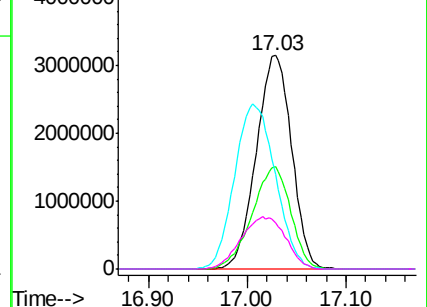


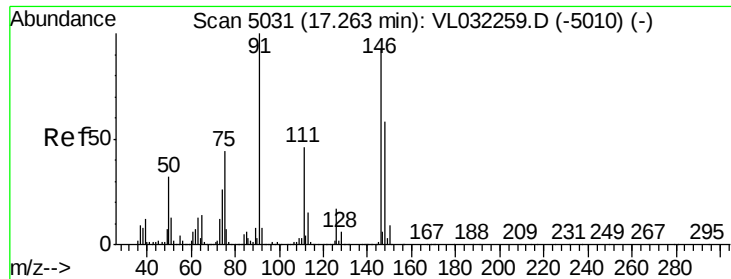
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 13.03 ppbv

RT: 17.27 min Scan# 5033

Delta R.T. 0.01 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 4315433

Ion Ratio Lower Upper

146 100

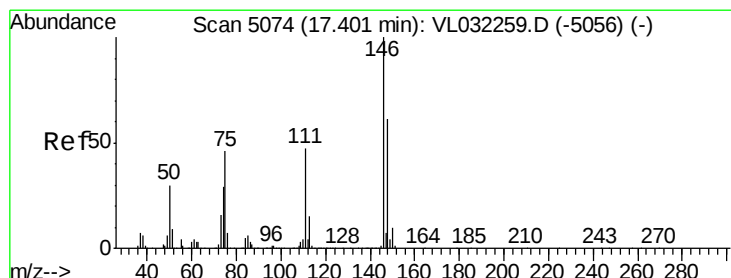
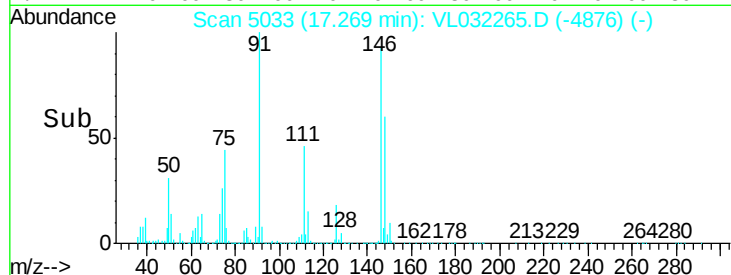
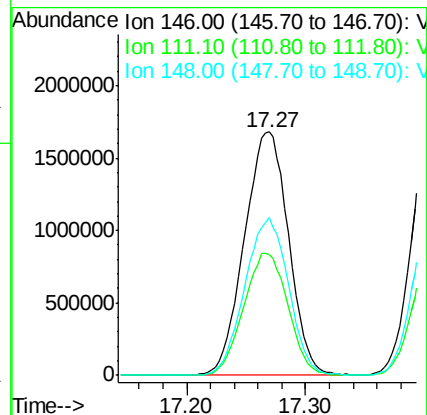
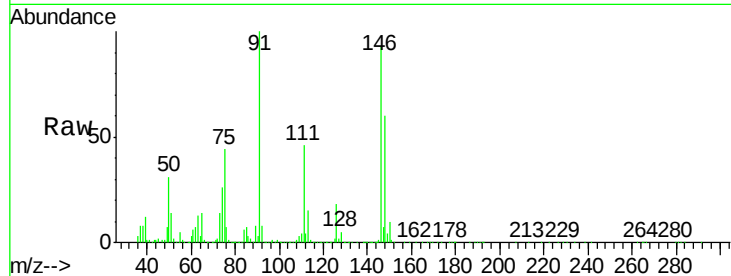
111 50.4 25.1 75.4

148 64.0 31.8 95.3

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 14.17 ppbv

RT: 17.41 min Scan# 5077

Delta R.T. 0.01 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

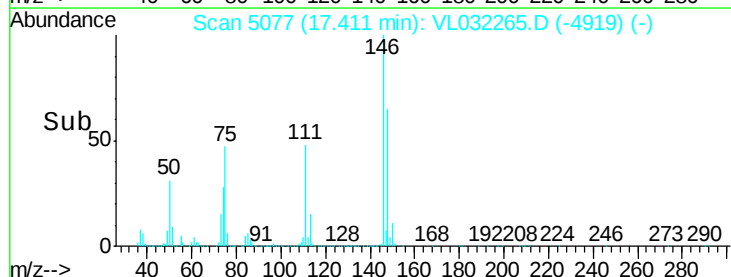
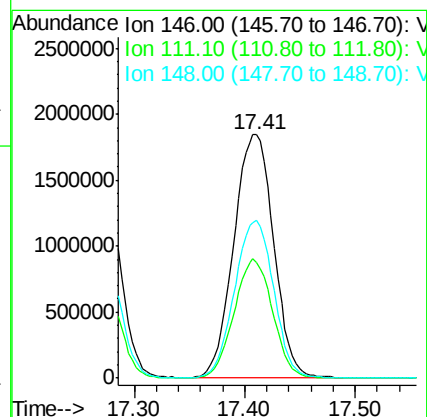
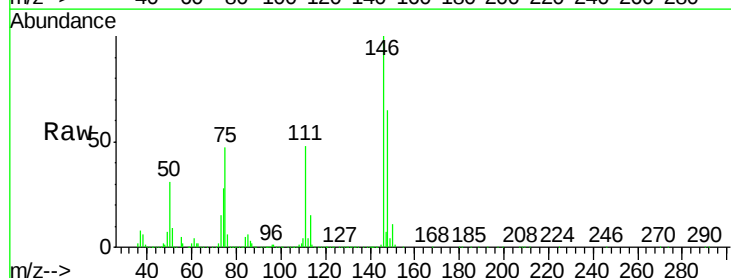
Tgt Ion:146 Resp: 4592983

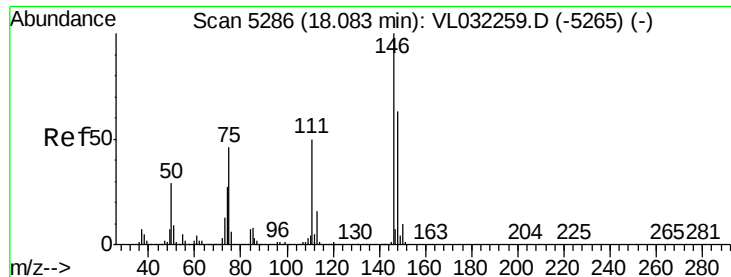
Ion Ratio Lower Upper

146 100

111 47.5 24.1 72.2

148 64.1 31.9 95.9





#77

1,2-Dichlorobenzene

Concen: 13.52 ppbv

RT: 18.09 min Scan# 5286

Delta R.T. 0.01 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 4447516

Ion Ratio Lower Upper

146 100

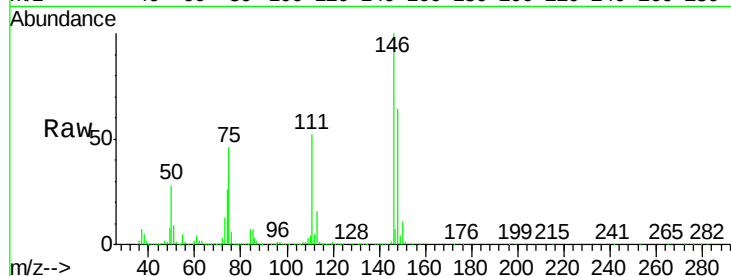
111 51.2 25.6 76.8

148 64.1 31.9 95.5

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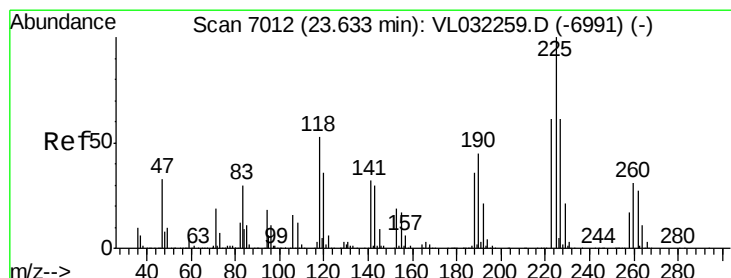
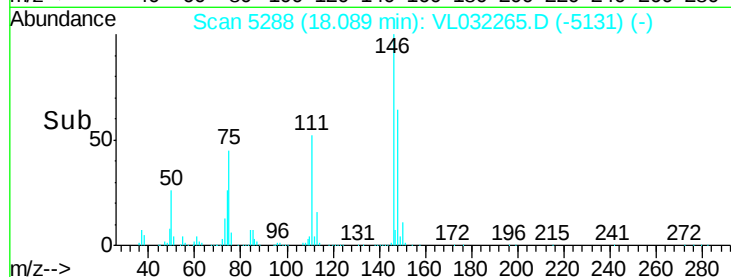
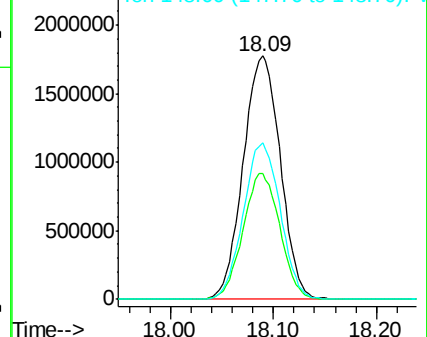
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 12.96 ppbv

RT: 23.63 min Scan# 7012

Delta R.T. -0.00 min

Lab File: VL032265.D

Acq: 18 Jul 2018 13:14

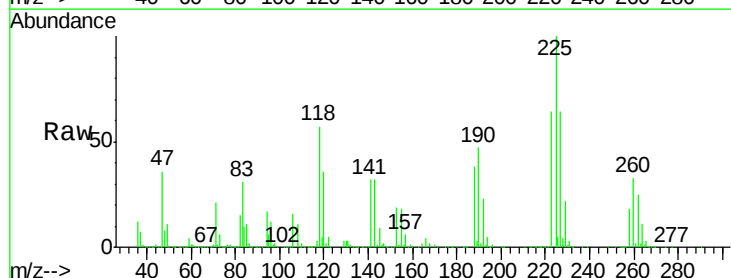
Tgt Ion:225 Resp: 1328798

Ion Ratio Lower Upper

225 100

223 63.6 50.6 75.8

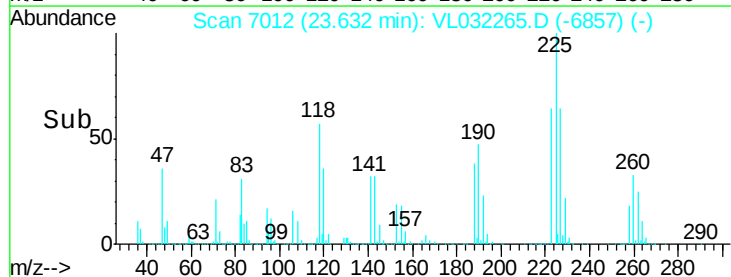
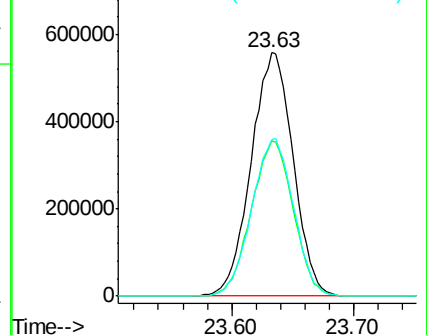
227 64.5 51.5 77.3

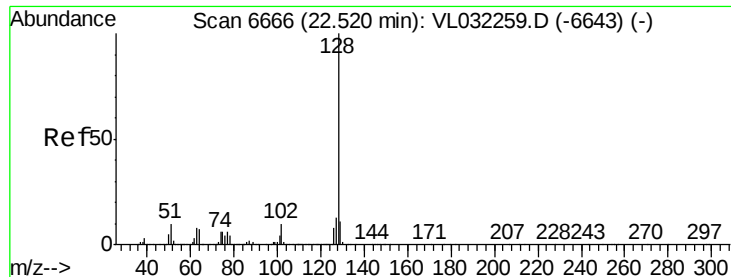


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





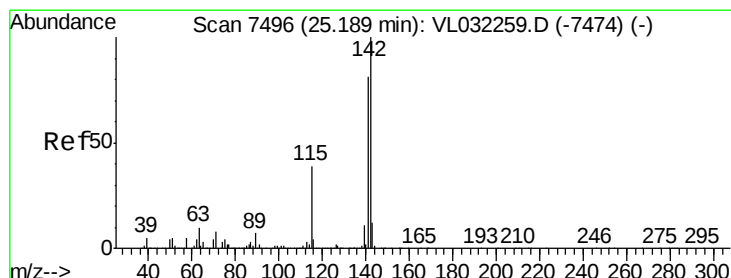
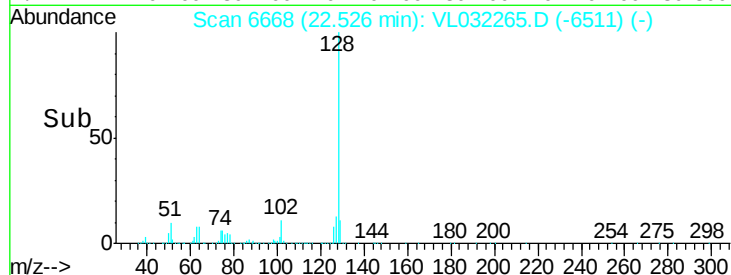
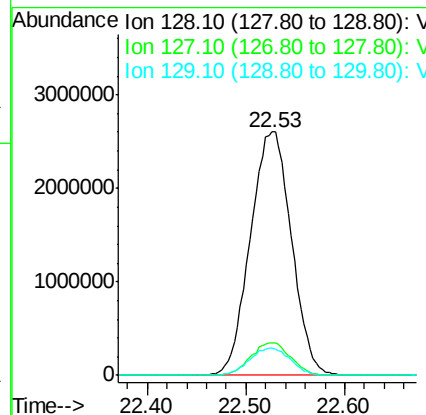
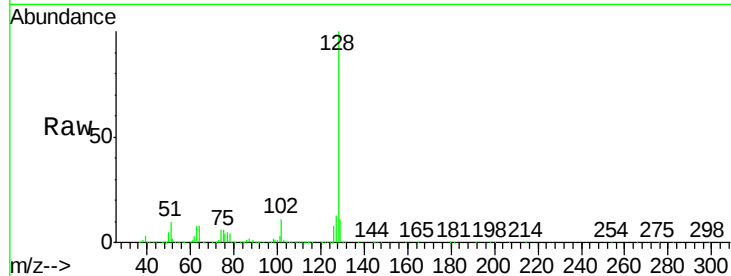
#79
Naphthalene
Concen: 20.14 ppbv
RT: 22.53 min Scan# 6668
Delta R.T. 0.01 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.5	15.7
129	11.2	8.6	12.8

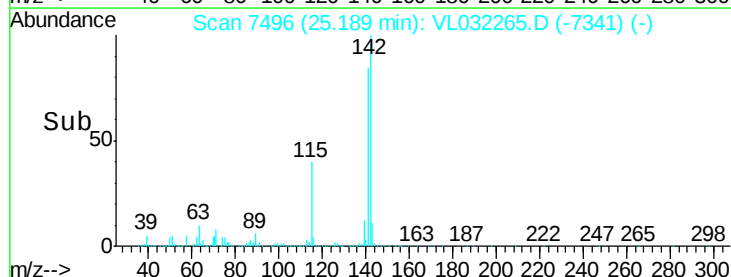
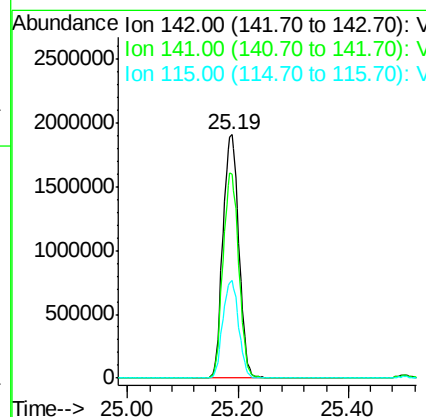
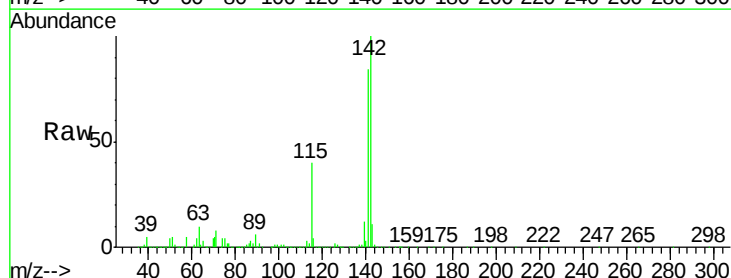
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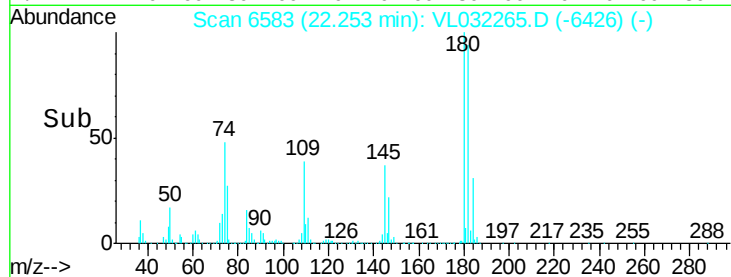
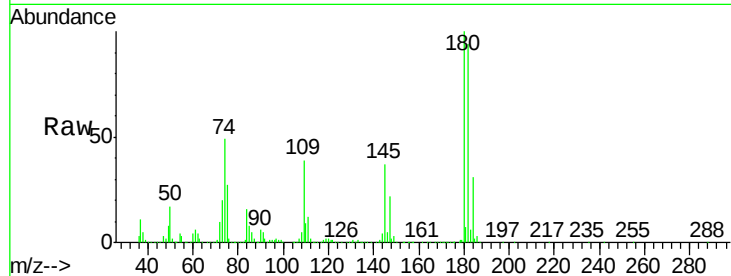
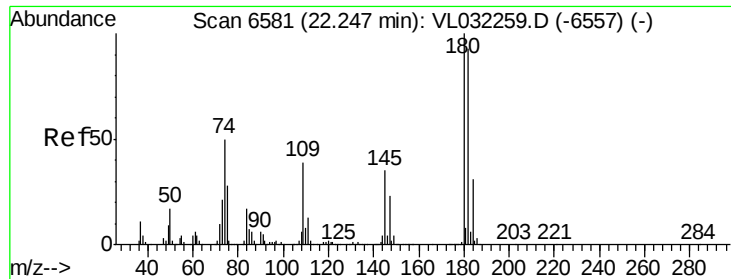
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#80
Naphthalene, 2-methyl-
Concen: 31.98 ppbv
RT: 25.19 min Scan# 7496
Delta R.T. -0.00 min
Lab File: VL032265.D
Acq: 18 Jul 2018 13:14

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.1	67.1	100.7
115	39.7	32.5	48.7





#81
 1,2,4-Trichlorobenzene
 Concen: 18.66 ppbv
 RT: 22.25 min Scan# 6583
 Delta R.T. 0.01 min
 Lab File: VL032265.D
 Acq: 18 Jul 2018 13:14

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.6	114.8
184	30.3	24.4	36.6

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

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