

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010419\
 Data File : VL033068.D
 Acq On : 4 Jan 2019 13:53
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:01:12 AM

Quant Time: Jan 04 14:25:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 0
 QLast Update : Thu Jan 03 19:04:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1195732	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3016034	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2915186	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2230030	10.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	2913038	10.925	ppbv	100
3) Chlorodifluoromethane	3.02	51	1817764	12.490	ppbv	100
4) Chloromethane	3.17	50	973203	11.505	ppbv	98
5) Vinyl Chloride	3.29	62	1030307	11.469	ppbv	100
6) Bromomethane	3.52	94	698979	12.783	ppbv	95
7) Chloroethane	3.61	64	405839	13.147	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	2455668	11.561	ppbv	99
9) Propene	3.04	41	776554	13.750	ppbv	100
10) Heptane	8.25	43	2110588	14.609	ppbv	99
11) Trichlorofluoromethane	4.01	101	2811354	11.986	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1944833	12.268	ppbv	99
13) Ethanol	3.65	45	203899	9.267	ppbv	95
14) Bromoethene	3.79	108	901644	13.355	ppbv	98
15) Acetone	3.90	43	1869605	11.955	ppbv	99
16) 1,3-Butadiene	3.37	39	854712	12.544	ppbv	96
17) tert-Butyl alcohol	4.36	59	443082	12.684	ppbv	99
18) 1,1-Dichloroethene	4.35	96	925633	13.030	ppbv	99
19) Isopropyl Alcohol	4.03	45	1253380	11.997	ppbv #	99
20) Methylene Chloride	4.41	84	799103	11.547	ppbv	97
21) Allyl Chloride	4.48	41	1467529	13.798	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	932419	13.440	ppbv	96
23) Vinyl Acetate	5.16	43	3092733	14.310	ppbv	99
24) 1,1-Dichloroethane	5.10	63	2282799	12.725	ppbv	100
25) Ethyl Acetate	5.78	43	3645860	13.020	ppbv	100
26) Hexane	5.79	57	1689250	12.728	ppbv	99
27) Carbon Disulfide	4.62	76	2328019	14.027	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2868513	13.796	ppbv	100
29) Chloroform	5.86	83	2812589	12.780	ppbv	99
30) Cyclohexane	7.25	84	1489431	14.940	ppbv	98
31) cis-1,2-Dichloroethene	5.65	61	1783206	14.504	ppbv	99
32) 1,1,1-Trichloroethane	6.63	97	2926884	12.605	ppbv	99
34) 2-Butanone	5.34	43	2396116	13.607	ppbv	100
35) Carbon Tetrachloride	7.14	117	3179921	12.213	ppbv	98
36) Benzene	7.01	78	3463758	13.959	ppbv	99
37) 1,2-Dichloroethane	6.42	62	2178442	12.903	ppbv	100
38) Trichloroethene	7.97	130	1449241	13.983	ppbv	98
39) 1,2-Dichloropropane	7.74	63	1295860	13.921	ppbv	99
40) 1,4-Dioxane	7.96	88	465522	13.175	ppbv	95
41) Tetrahydrofuran	6.15	42	1339528	14.918	ppbv	99
42) Bromodichloromethane	7.93	83	3110932	12.808	ppbv	100
43) Methyl Methacrylate	8.14	69	1423862	15.389	ppbv	99

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Manual Integrations
 APPROVED

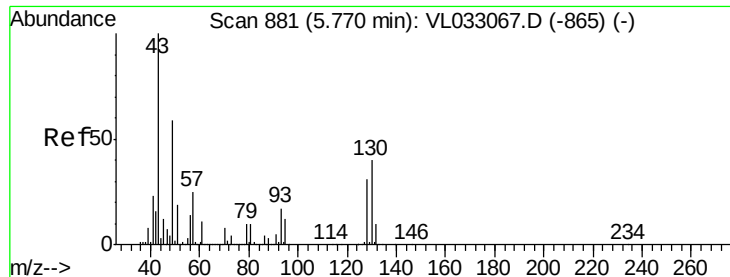
MMDadoda
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Quant Time: Jan 04 14:25:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	8.00	57	5719034	13.017	ppbv	100
45) t-1,3-Dichloropropene	9.43	75	2010218	15.721	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	2262487	16.276	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1474739	13.123	ppbv	99
48) Dibromochloromethane	10.46	129	2751659	14.765	ppbv	100
49) Bromoform	13.21	173	2351092	13.686	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	3345400	14.130	ppbv	99
51) 2-Hexanone	10.28	43	2576051	16.105	ppbv #	100
52) Tetrachloroethene	11.38	164	1297220	14.441	ppbv	97
53) Toluene	9.95	91	4131963	16.176	ppbv	100
54) 1,2-Dibromoethane	10.77	107	2340957	14.339	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.29	131	1904693	12.910	ppbv #	71
57) Chlorobenzene	12.31	112	3212372	13.590	ppbv	96
58) Ethyl Benzene	12.87	91	5639544	15.726	ppbv	98
59) m/p-Xylene	13.16	91	9471041m	28.437	ppbv	
60) o-Xylene	13.86	91	4536273	13.933	ppbv	98
61) Styrene	13.70	104	3537245	16.847	ppbv	99
62) Isopropylbenzene	14.84	105	6487147	13.951	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	3110061	12.204	ppbv	100
64) n-propylbenzene	15.73	120	1679617	14.648	ppbv	95
65) tert-Butylbenzene	16.92	119	5680402	13.724	ppbv	99
66) Benzyl Chloride	17.16	91	3596574	15.459	ppbv	100
67) sec-Butylbenzene	17.47	105	7951641	13.625	ppbv	100
69) p-Isopropyltoluene	17.83	119	6598486	13.976	ppbv	99
70) n-Butylbenzene	18.73	91	6670718	13.845	ppbv	99
71) 2-Chlorotoluene	15.63	91	4833546	14.674	ppbv	100
72) 4-Ethyltoluene	16.01	105	5357081	14.768	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	5041666	14.238	ppbv	97
74) 1,2,4-Trimethylbenzene	16.94	105	5134695	13.202	ppbv	96
75) 1,3-Dichlorobenzene	17.18	146	2889729	12.688	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	2894123	13.969	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2770370	13.289	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	2122913	14.489	ppbv	100
79) Naphthalene	22.42	128	5205848	14.733	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	2195240	22.404	ppbv	98
81) 1,2,4-Trichlorobenzene	22.15	180	2417005	15.020	ppbv	100

(#) = 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

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1195732

Ion Ratio Lower Upper

49 100

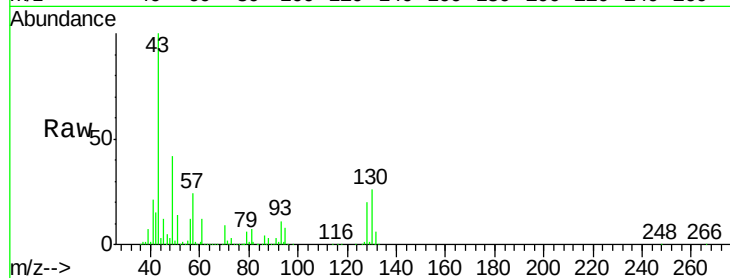
128 51.6 26.2 78.5

130 65.7 33.6 100.6

Manual Integrations
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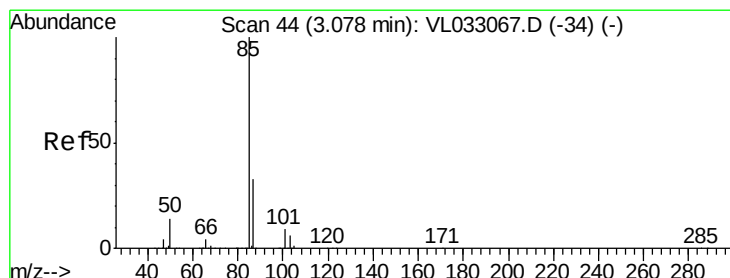
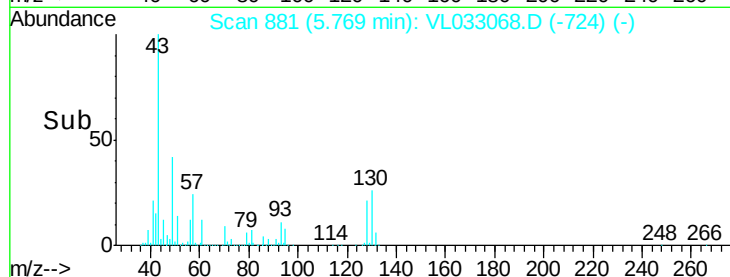
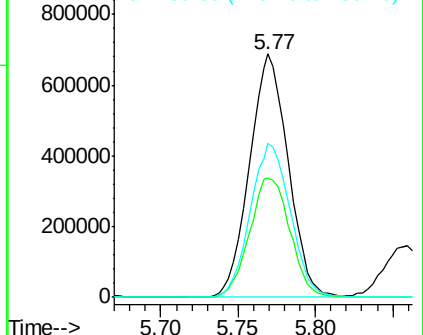
1/8/2019 12:01:12 AM



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: 10.925 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033068.D

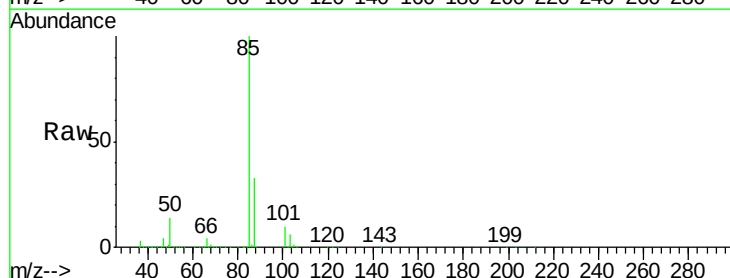
Acq: 4 Jan 2019 13:53

Tgt Ion: 85 Resp: 2913038

Ion Ratio Lower Upper

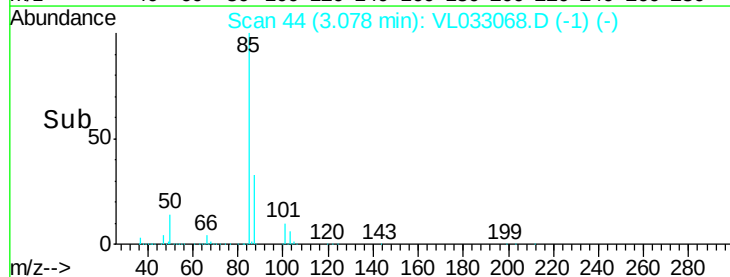
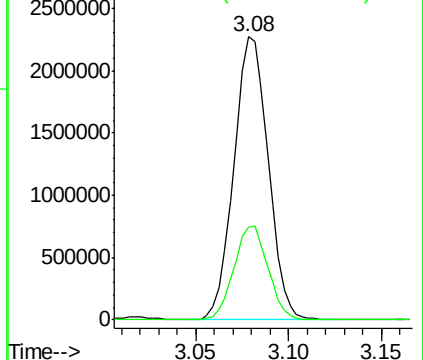
85 100

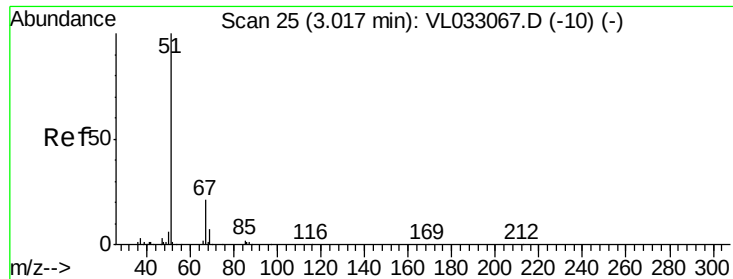
87 32.8 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 12.490 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Tot Ion: 51 Resp: 1817764

Ion Ratio Lower Upper

51 100

67 20.5 16.3 24.5

Instrument :

MSVOA_L

ClientSampleId :

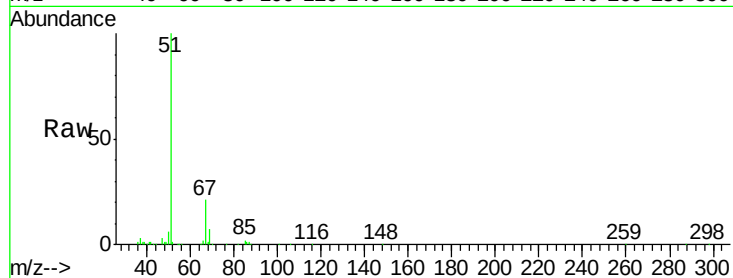
VSTDIC015

Manual Integrations

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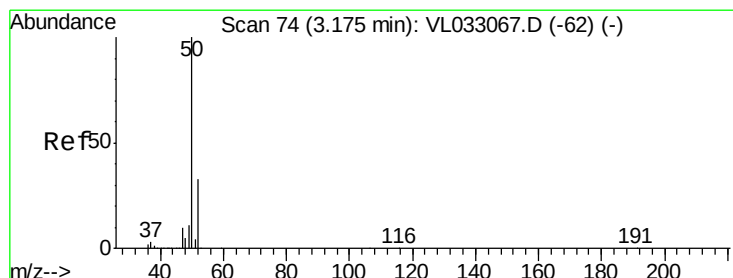
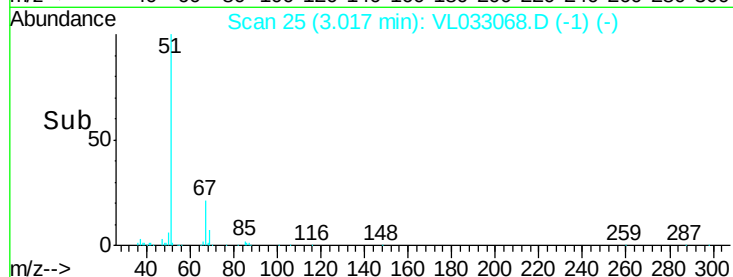
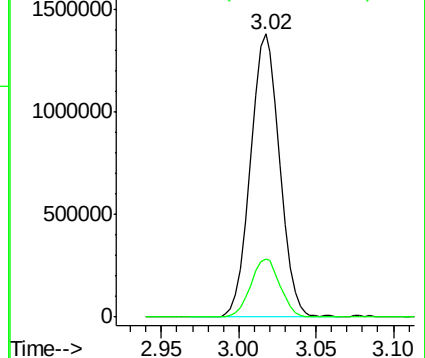
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 11.505 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033068.D

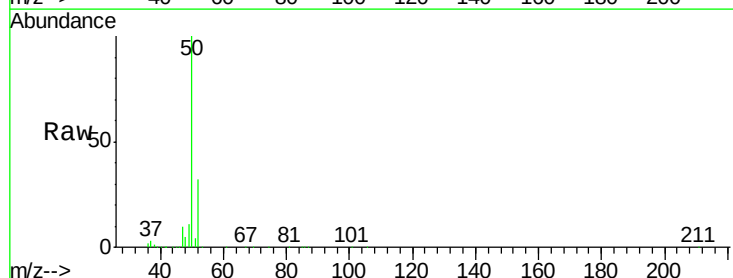
Acq: 4 Jan 2019 13:53

Tgt Ion: 50 Resp: 973203

Ion Ratio Lower Upper

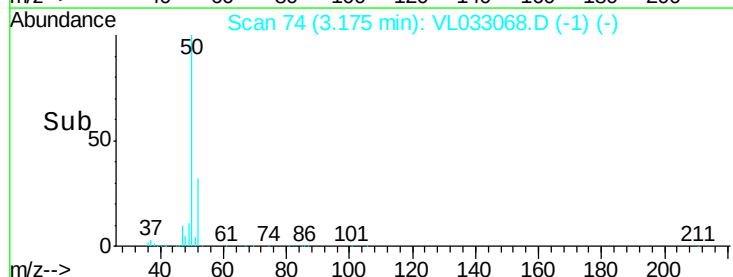
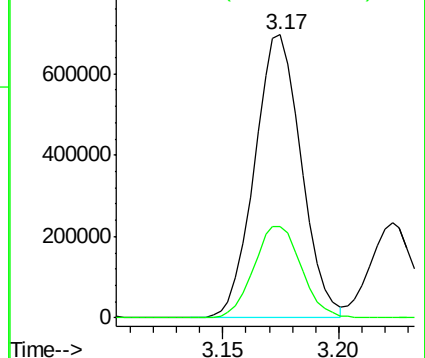
50 100

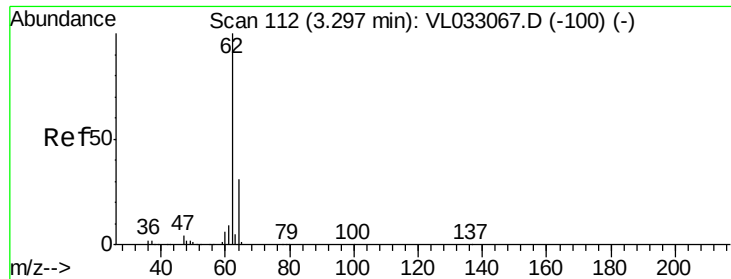
52 32.4 26.9 40.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 11.469 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1030307

Ion Ratio Lower Upper

62 100

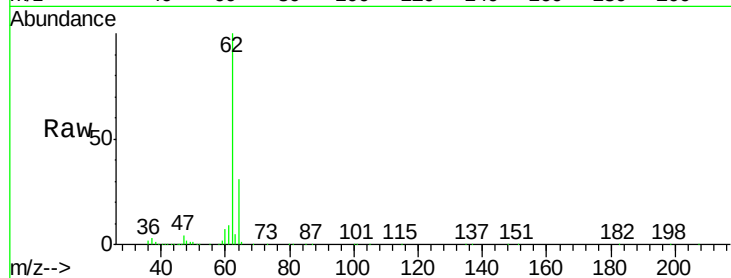
64 31.4 25.3 37.9

Manual Integrations

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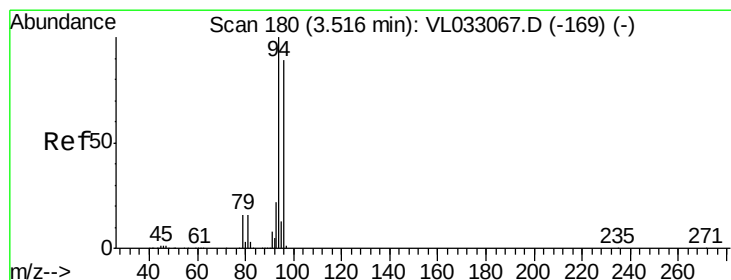
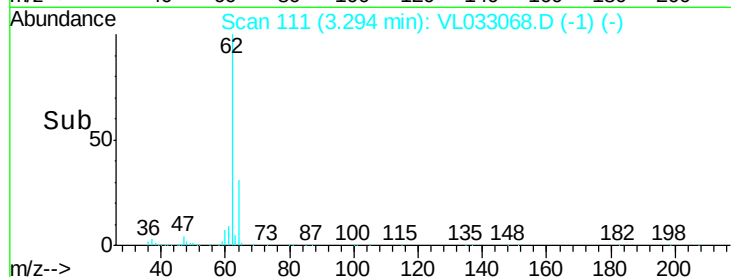
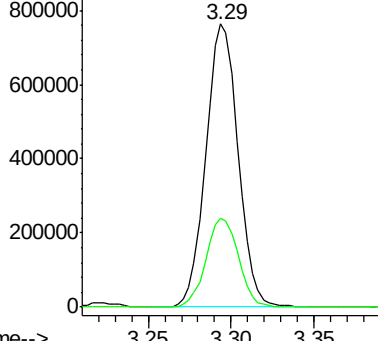
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 12.783 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.00 min

Lab File: VL033068.D

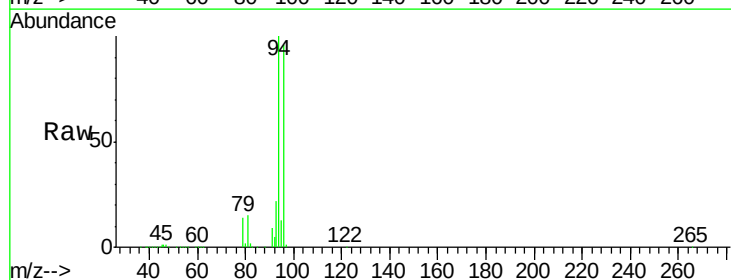
Acq: 4 Jan 2019 13:53

Tgt Ion: 94 Resp: 698979

Ion Ratio Lower Upper

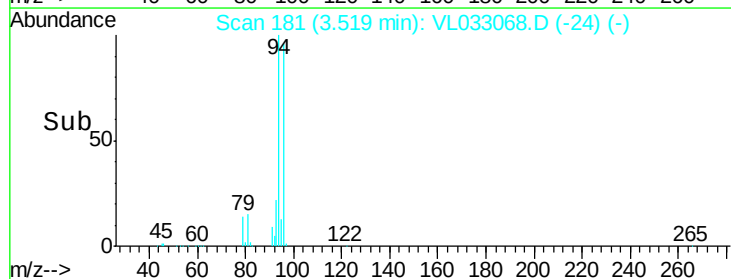
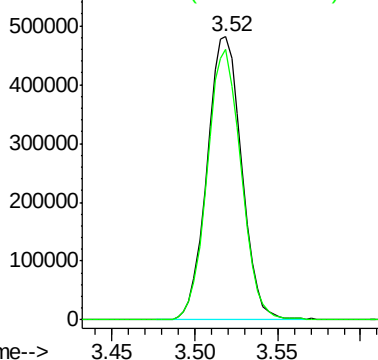
94 100

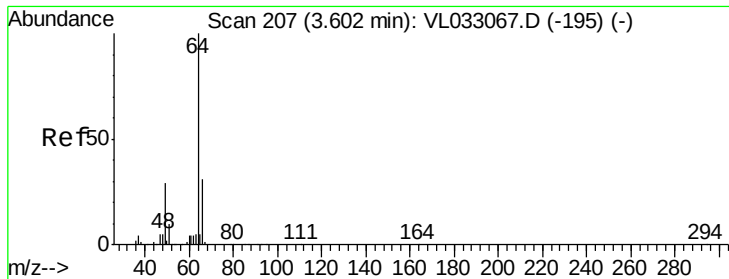
96 95.7 72.8 109.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 13.147 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.01 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 405839

Ion Ratio Lower Upper

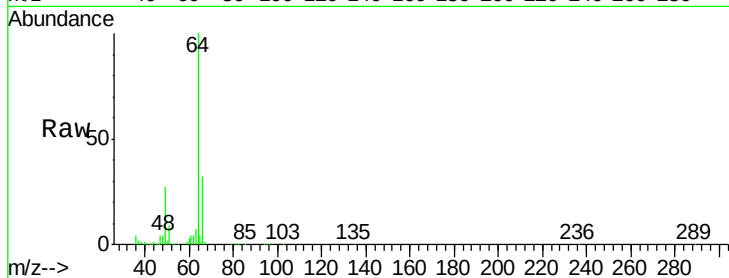
64 100

66 32.0 23.7 35.5

Manual Integrations
APPROVED

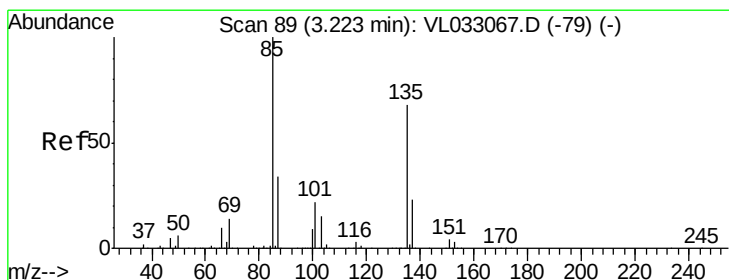
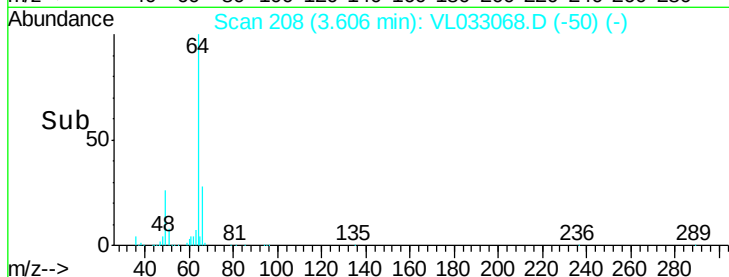
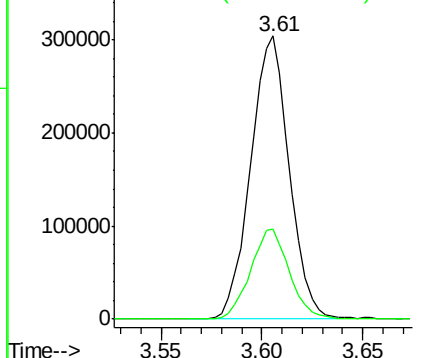
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 11.561 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL033068.D

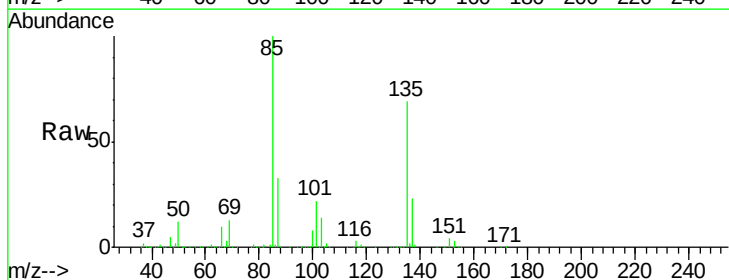
Acq: 4 Jan 2019 13:53

Tgt Ion: 85 Resp: 2455668

Ion Ratio Lower Upper

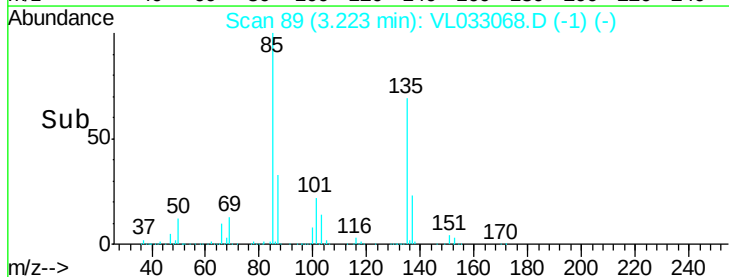
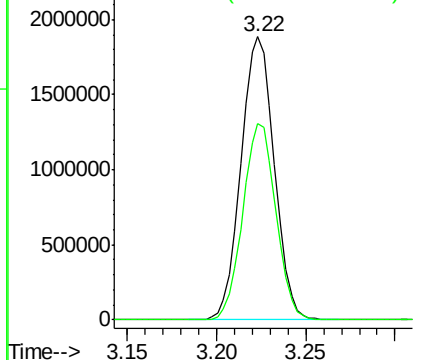
85 100

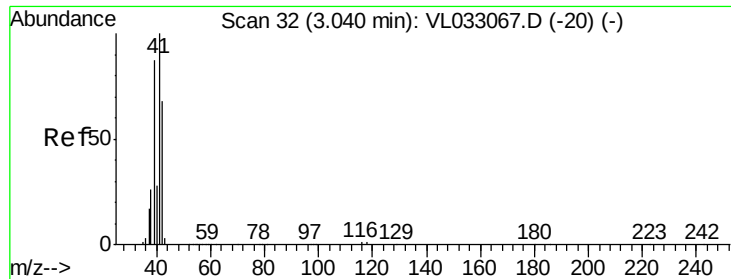
135 69.5 54.9 82.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 13.750 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 776554

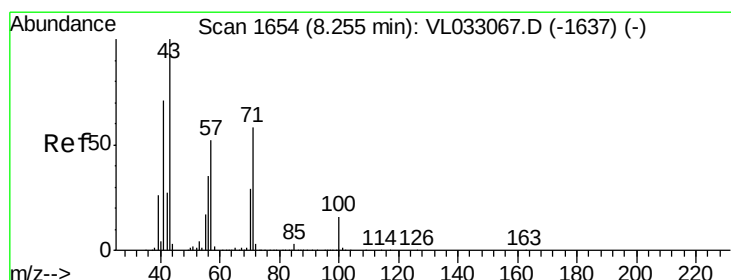
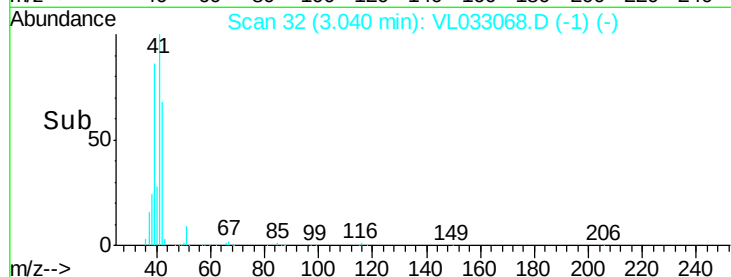
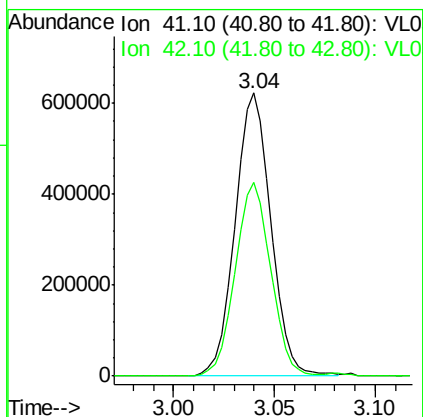
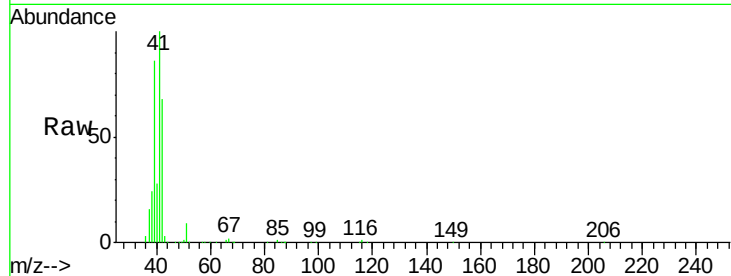
Ion Ratio Lower Upper

41 100

42 68.7 55.3 82.9

Manual Integrations
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1/8/2019 12:01:12 AM



#10

Heptane

Concen: 14.609 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. 0.01 min

Lab File: VL033068.D

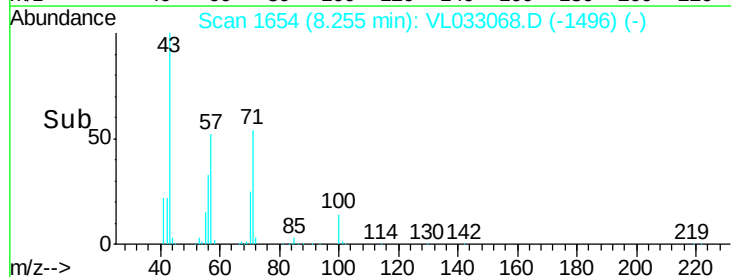
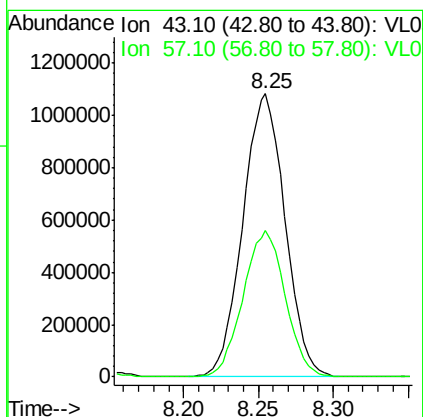
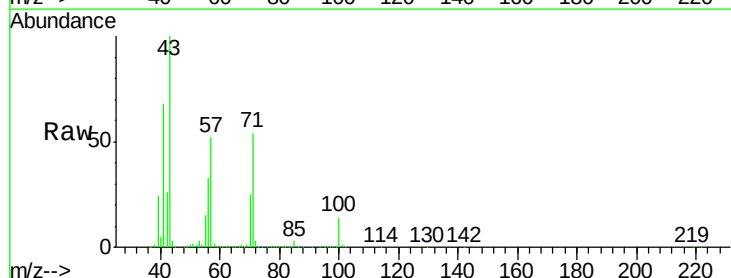
Acq: 4 Jan 2019 13:53

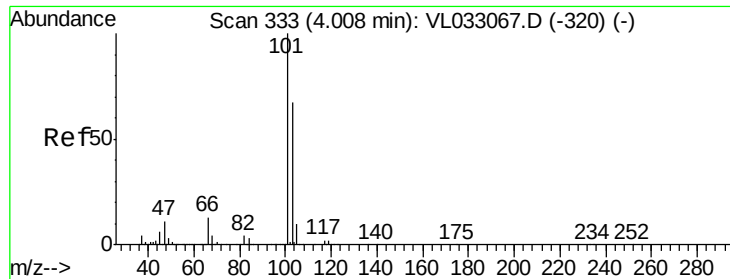
Tgt Ion: 43 Resp: 2110588

Ion Ratio Lower Upper

43 100

57 52.0 41.9 62.9





#11

Trichlorofluoromethane

Concen: 11.986 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:101 Resp: 2811354

Ion Ratio Lower Upper

101 100

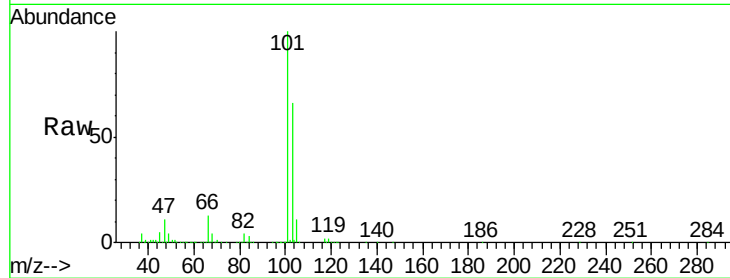
103 65.7 51.7 77.5

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

2000000

1500000

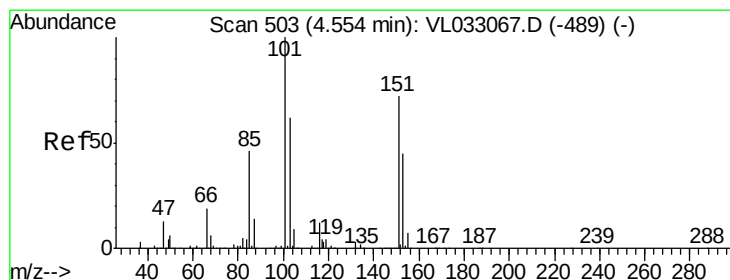
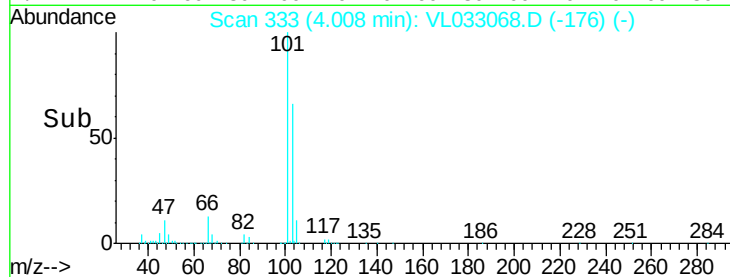
1000000

500000

0

3.95 4.00 4.05

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 12.268 ppbv

RT: 4.55 min Scan# 503

Delta R.T. 0.00 min

Lab File: VL033068.D

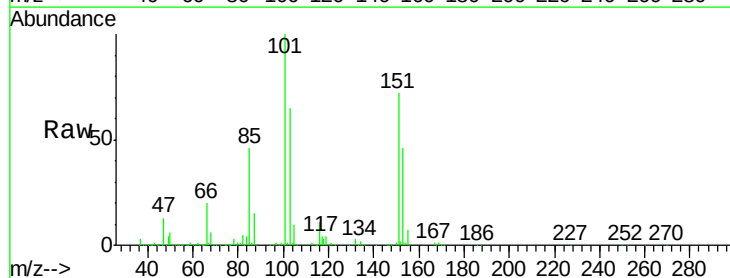
Acq: 4 Jan 2019 13:53

Tgt Ion:101 Resp: 1944833

Ion Ratio Lower Upper

101 100

151 73.6 58.3 87.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

1200000

1000000

800000

600000

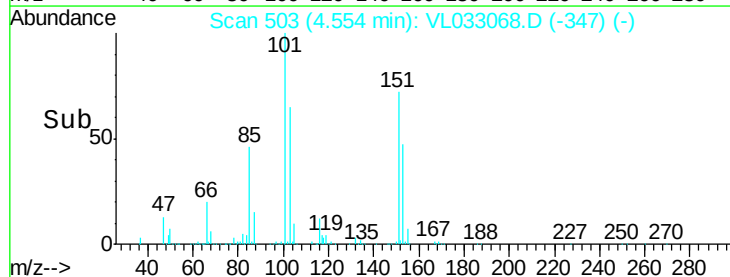
400000

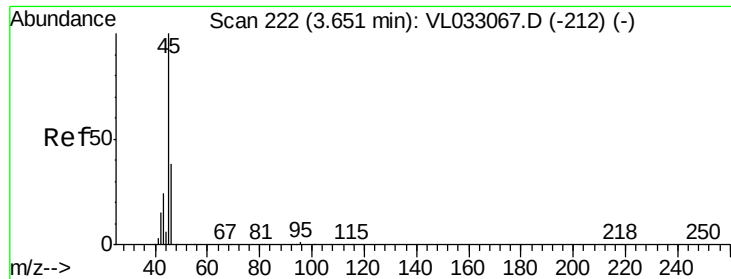
200000

0

4.50 4.55 4.60

Time-->





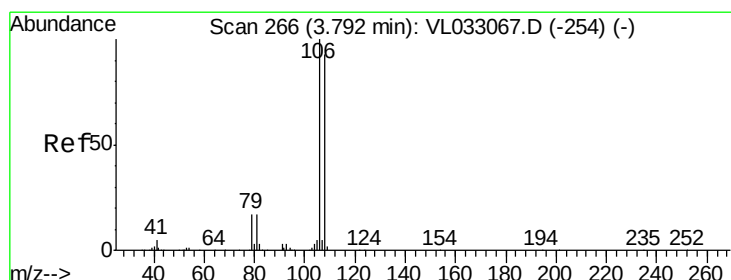
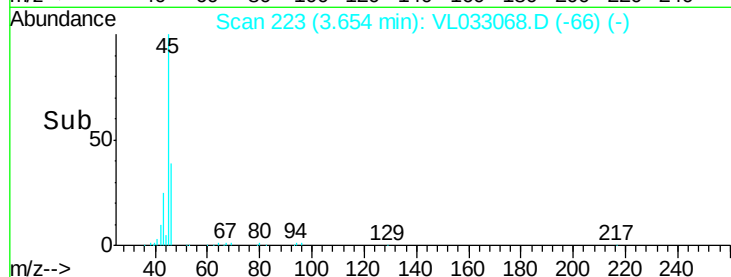
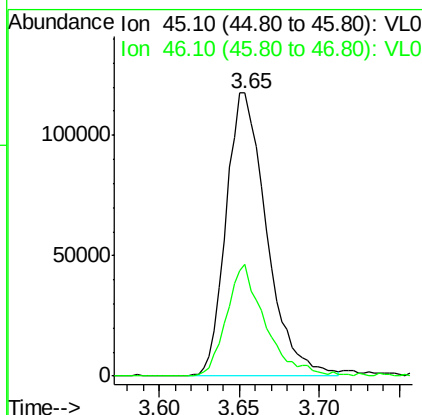
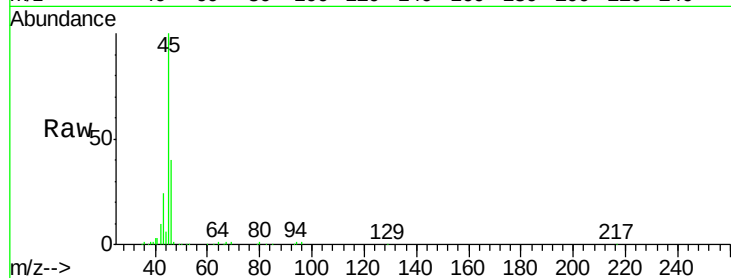
#13
Ethanol
Concen: 9.267 ppbv
RT: 3.65 min Scan# 223
Delta R.T. 0.00 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 45 Resp: 203899
Ion Ratio Lower Upper
45 100
46 37.6 13.8 55.2

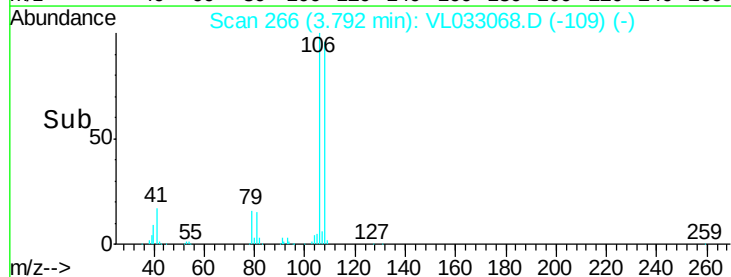
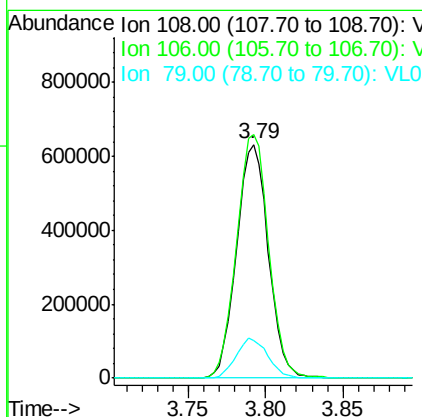
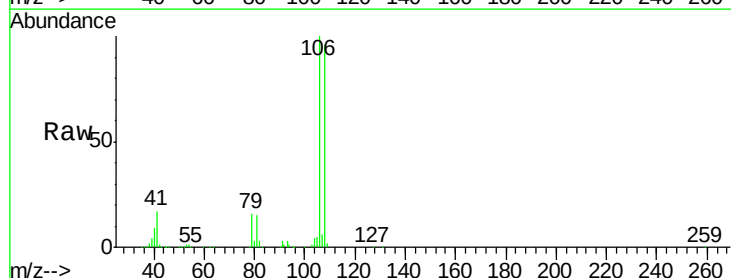
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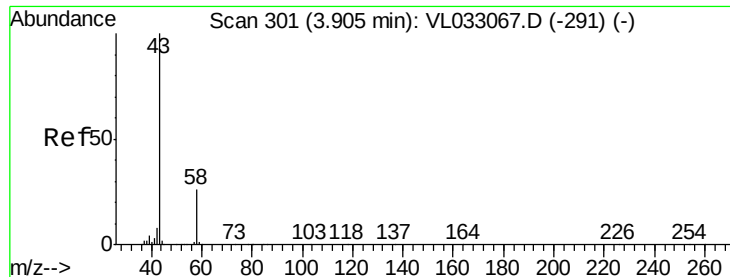
MMDadoda
1/8/2019 12:01:12 AM



#14
Bromoethene
Concen: 13.355 ppbv
RT: 3.79 min Scan# 266
Delta R.T. 0.00 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Tgt Ion: 108 Resp: 901644
Ion Ratio Lower Upper
108 100
106 105.8 86.4 129.6
79 17.2 14.3 21.5





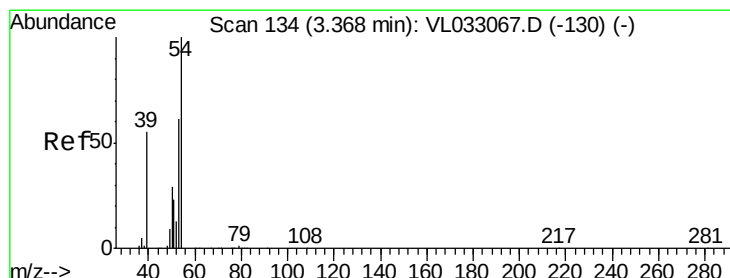
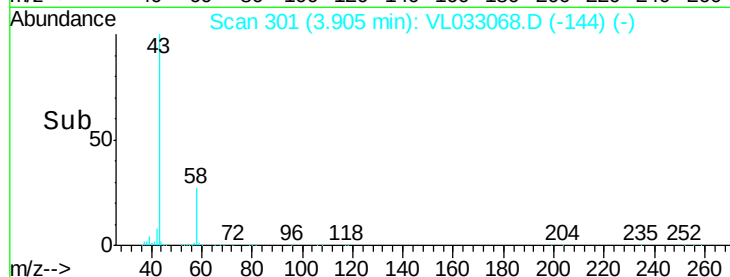
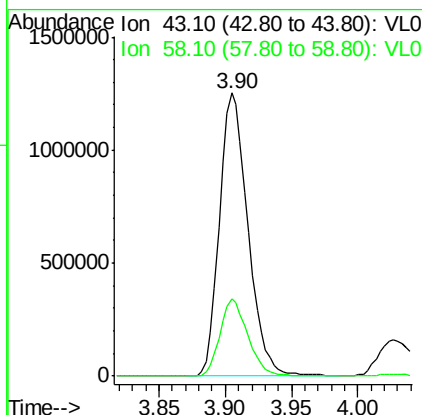
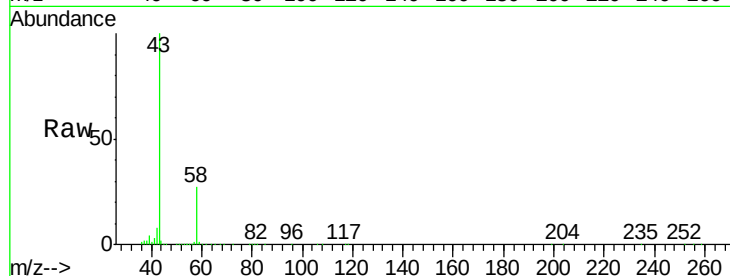
#15
Acetone
Concen: 11.955 ppbv
RT: 3.90 min Scan# 301
Delta R.T. 0.00 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 1869605
Ion Ratio Lower Upper
43 100
58 26.7 21.1 31.7

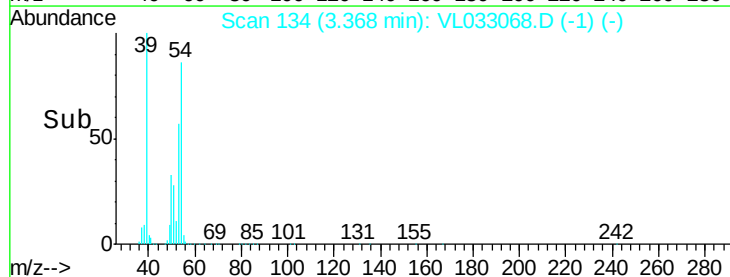
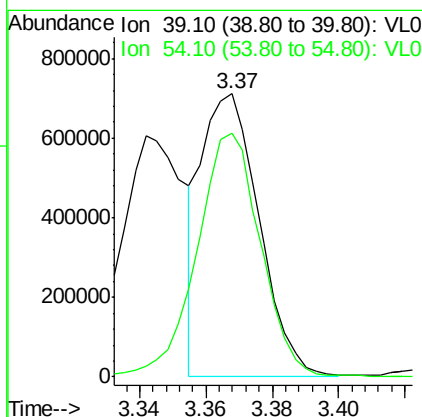
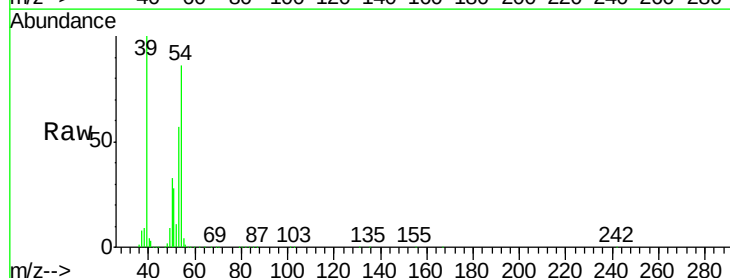
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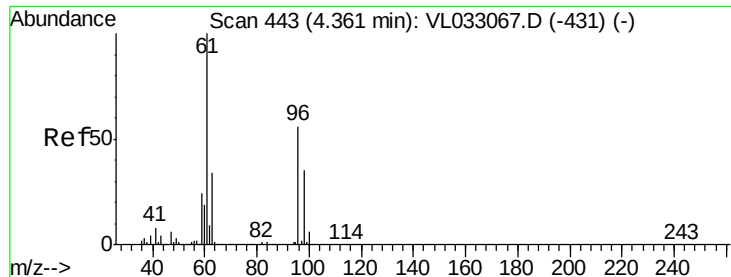
MMDadoda
1/8/2019 12:01:12 AM



#16
1,3-Butadiene
Concen: 12.544 ppbv
RT: 3.37 min Scan# 134
Delta R.T. 0.00 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Tgt Ion: 39 Resp: 854712
Ion Ratio Lower Upper
39 100
54 96.2 73.7 110.5





#17

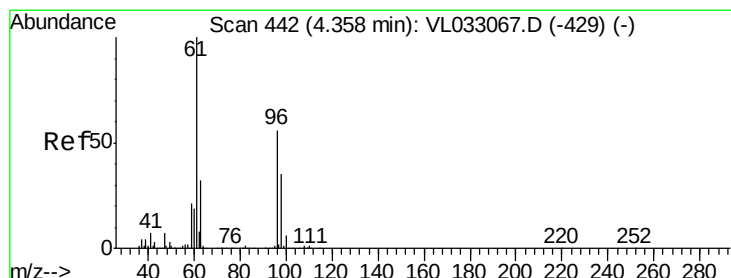
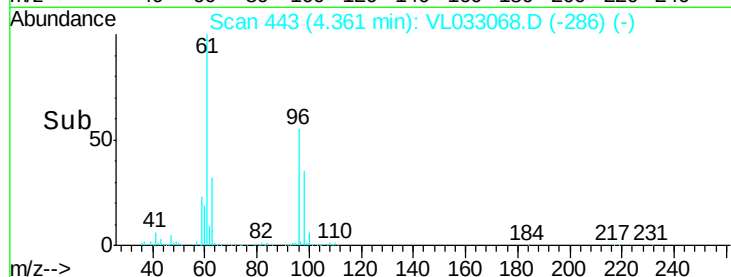
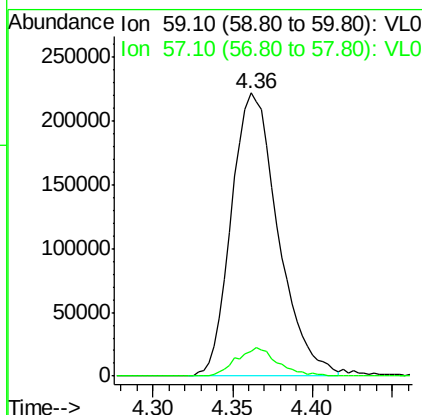
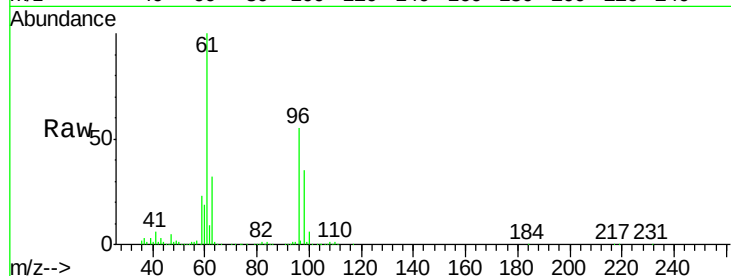
tert-Butyl alcohol
Concen: 12.684 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.00 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 59 Resp: 443082
Ion Ratio Lower Upper
59 100
57 9.3 7.7 11.5

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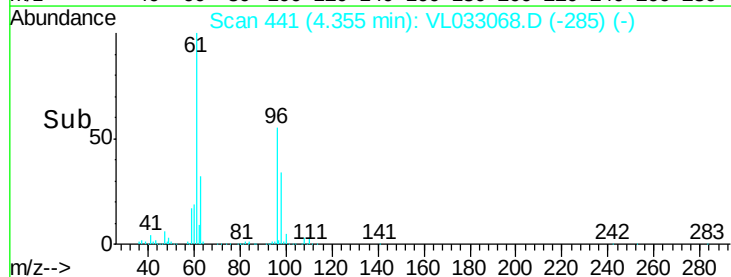
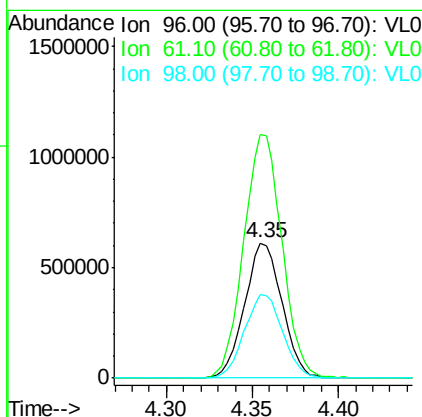
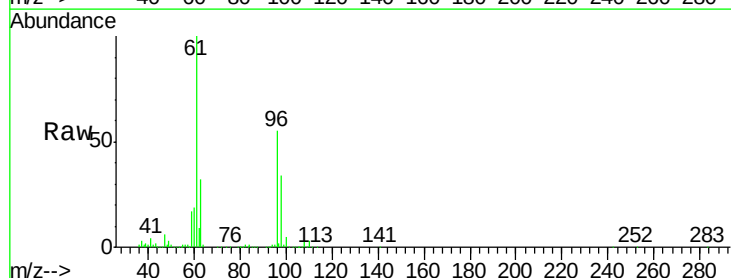
MMDadoda
1/8/2019 12:01:12 AM

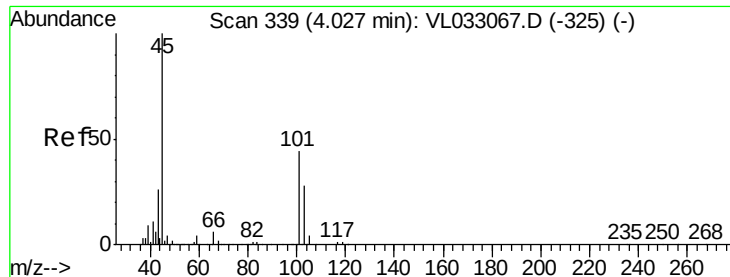


#18

1,1-Dichloroethene
Concen: 13.030 ppbv
RT: 4.35 min Scan# 441
Delta R.T. 0.00 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Tgt Ion: 96 Resp: 925633
Ion Ratio Lower Upper
96 100
61 180.2 143.7 215.5
98 61.9 52.1 78.1





#19

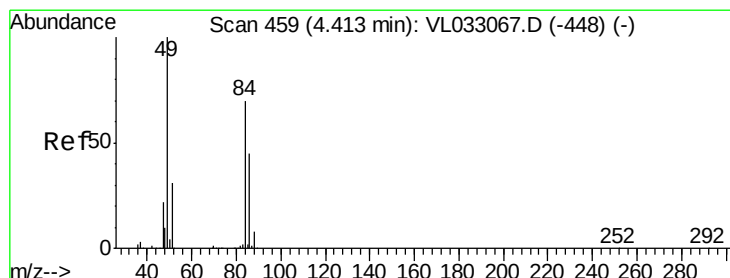
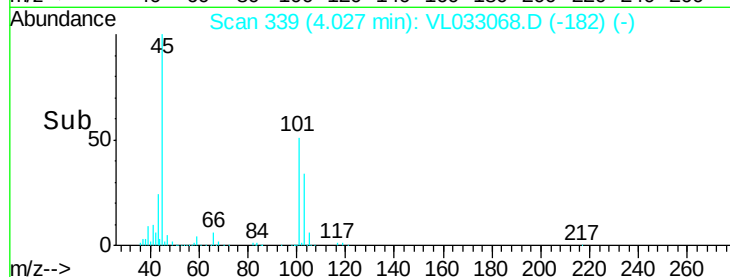
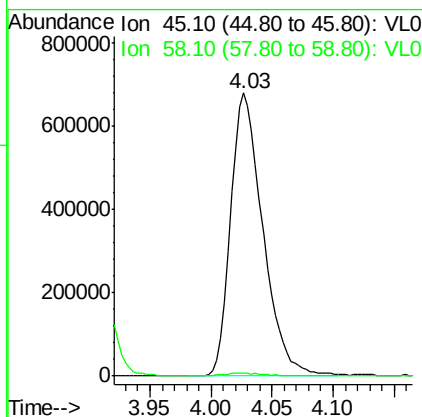
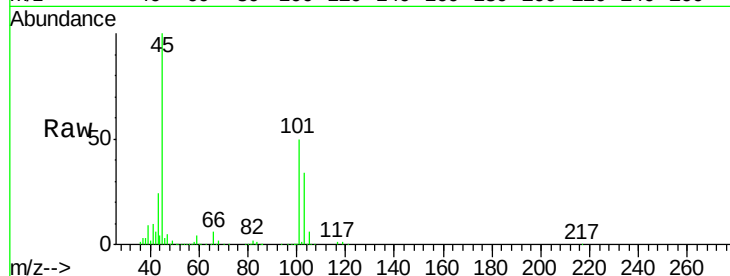
Isopropyl Alcohol
 Concen: 11.997 ppbv
 RT: 4.03 min Scan# 339
 Delta R.T. 0.00 min
 Lab File: VL033068.D
 Acq: 4 Jan 2019 13:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 45 Resp: 1253380
 Ion Ratio Lower Upper
 45 100
 58 1.3 1.4 2.2#

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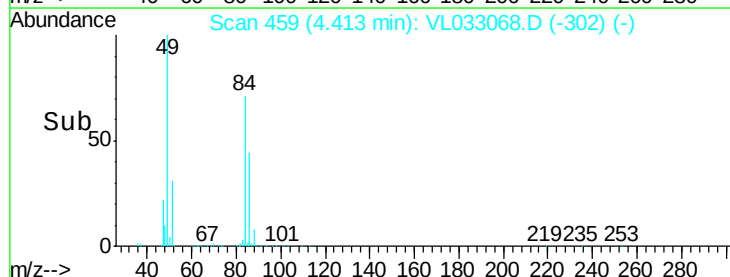
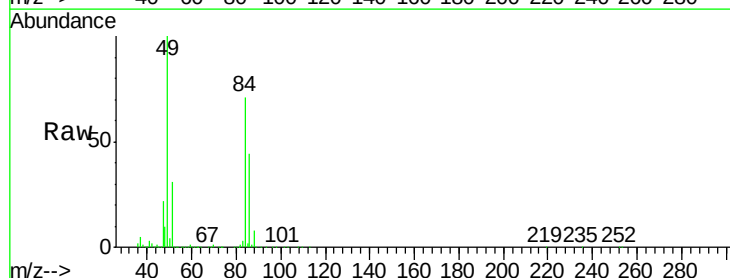
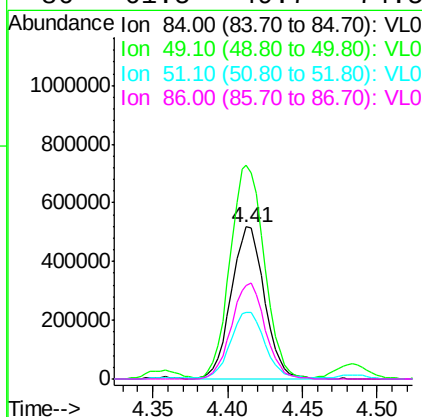
MMDadoda
 1/8/2019 12:01:12 AM

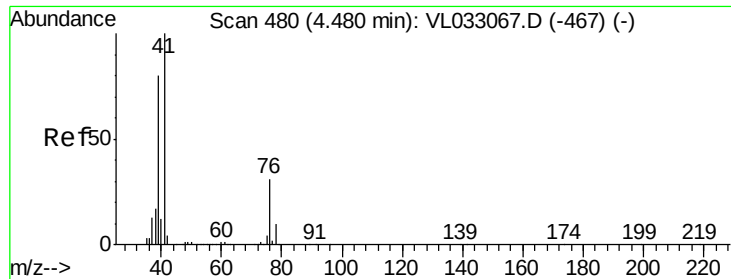


#20

Methylene Chloride
 Concen: 11.547 ppbv
 RT: 4.41 min Scan# 459
 Delta R.T. 0.00 min
 Lab File: VL033068.D
 Acq: 4 Jan 2019 13:53

Tgt Ion: 84 Resp: 799103
 Ion Ratio Lower Upper
 84 100
 49 139.6 115.8 173.6
 51 43.4 35.7 53.5
 86 61.5 49.7 74.5





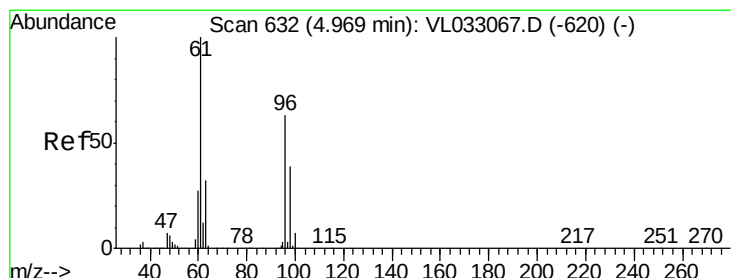
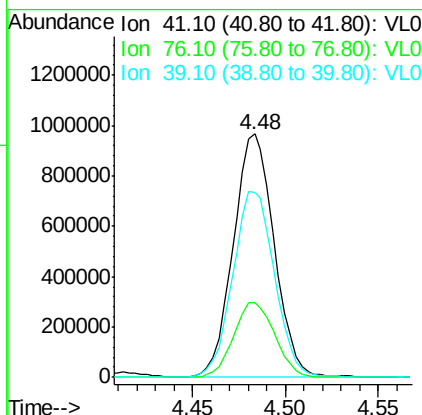
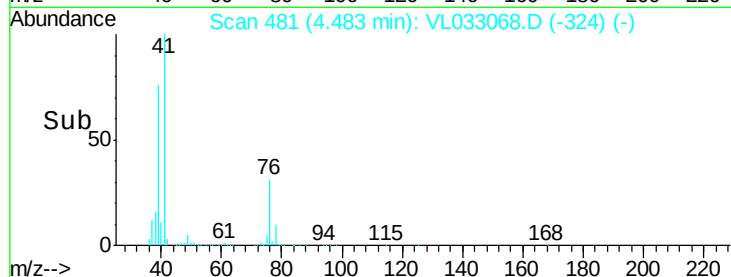
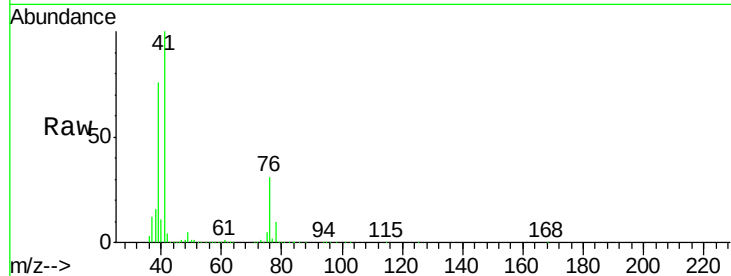
#21
Allvl Chloride
Concen: 13.798 ppbv
RT: 4.48 min Scan# 481
Delta R.T. 0.00 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 41 Resp: 1467529
Ion Ratio Lower Upper
41 100
76 31.4 24.6 36.8
39 78.3 62.8 94.2

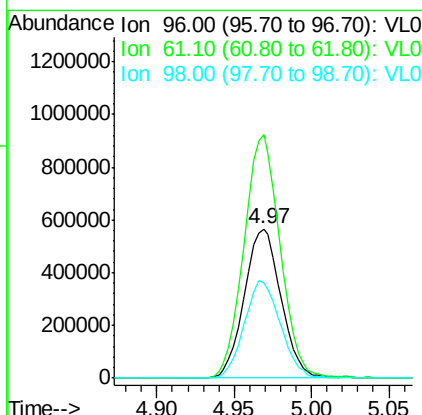
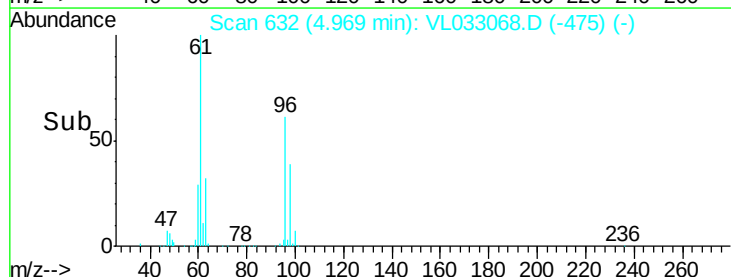
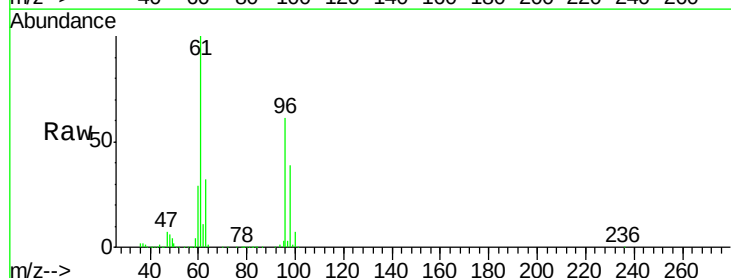
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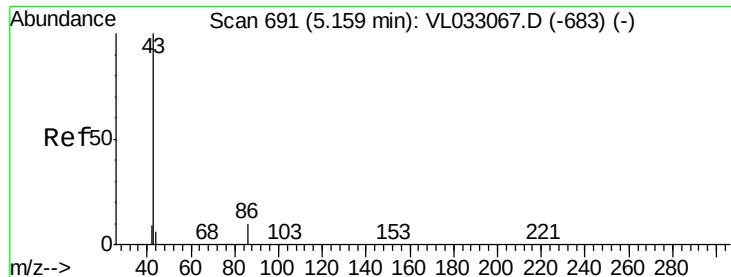
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#22
trans-1,2-Dichloroethene
Concen: 13.440 ppbv
RT: 4.97 min Scan# 632
Delta R.T. 0.00 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Tgt Ion: 96 Resp: 932419
Ion Ratio Lower Upper
96 100
61 163.2 125.2 187.8
98 64.0 50.9 76.3





#23

Vinyl Acetate

Concen: 14.310 ppbv

RT: 5.16 min Scan# 692

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 3092733

Ion Ratio Lower Upper

43 100

86 8.1 6.2 9.4

42 10.4 8.1 12.1

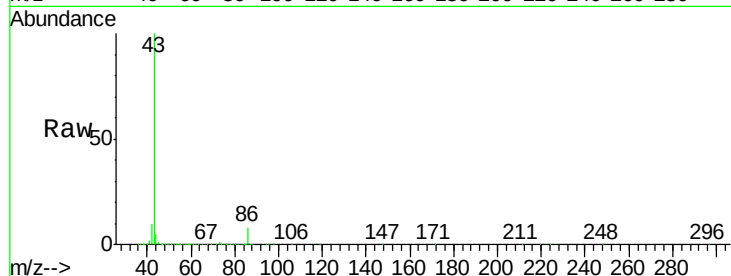
44 5.1 4.3 6.5

Manual Integrations

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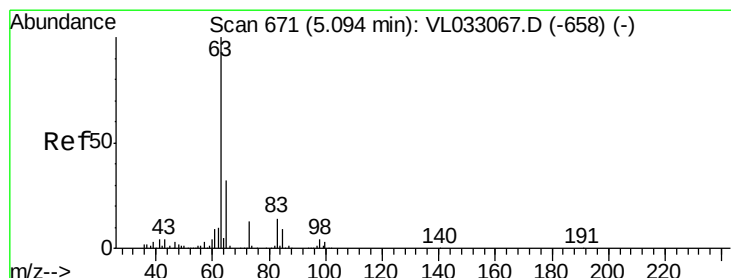
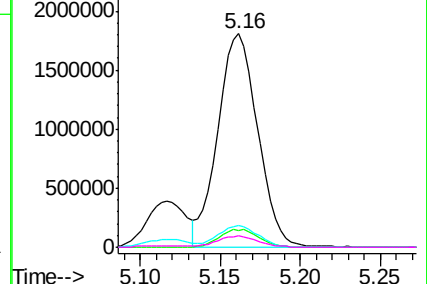
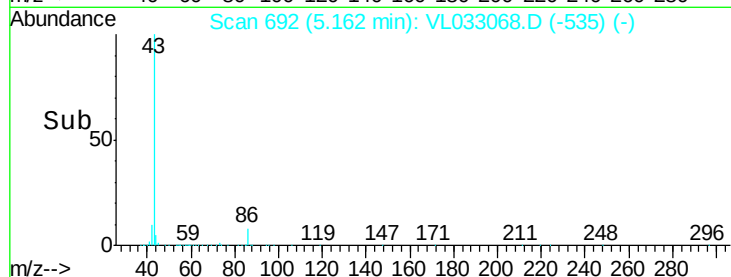


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 12.725 ppbv

RT: 5.10 min Scan# 672

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

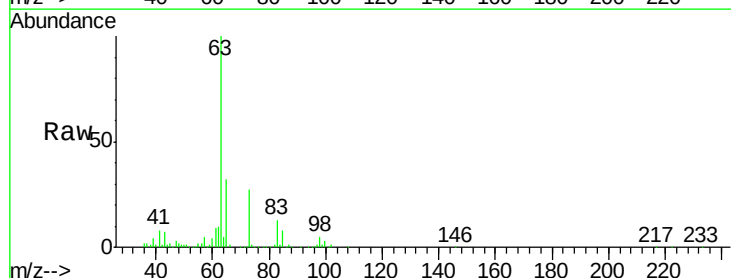
Tgt Ion: 63 Resp: 2282799

Ion Ratio Lower Upper

63 100

98 4.9 2.4 7.2

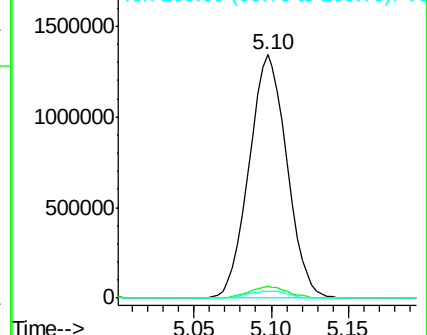
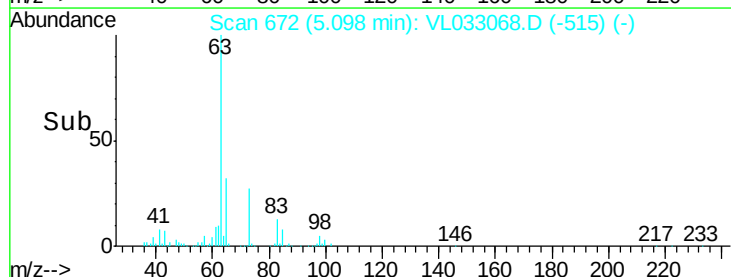
100 3.0 1.4 4.0

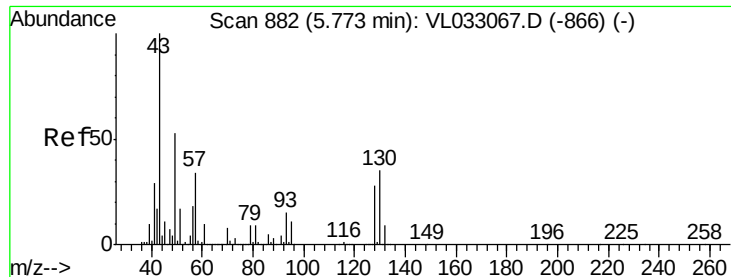


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





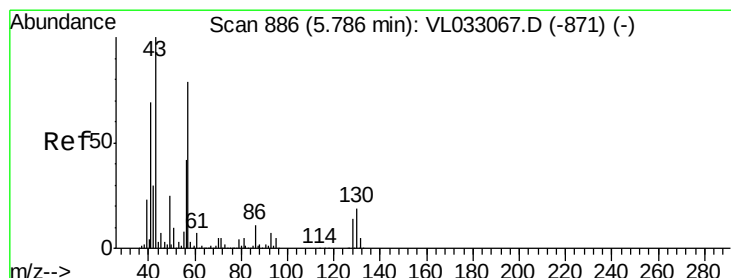
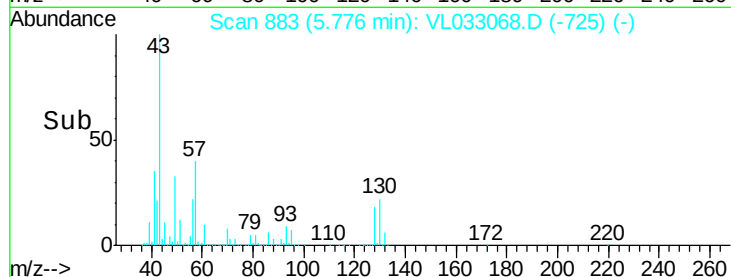
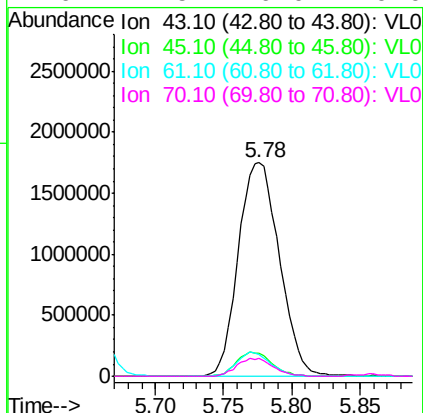
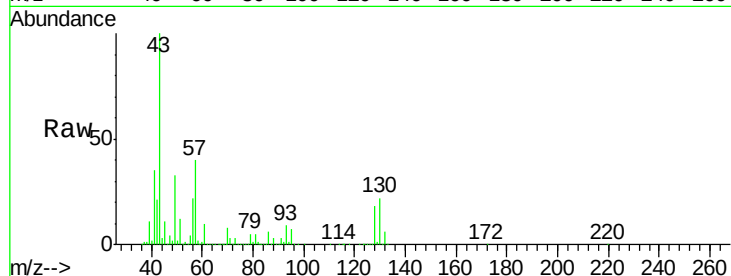
#25
Ethyl Acetate
Concen: 13.020 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.9	7.9	11.9	
61	9.6	7.8	11.8	
70	7.5	6.0	9.0	

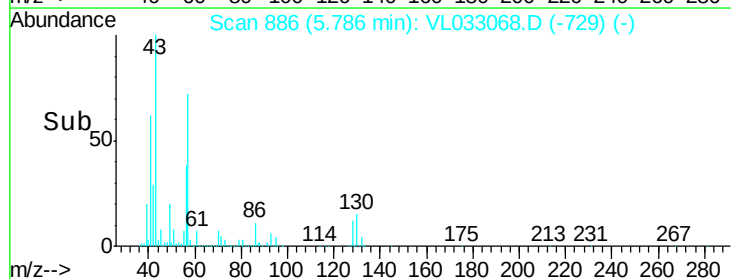
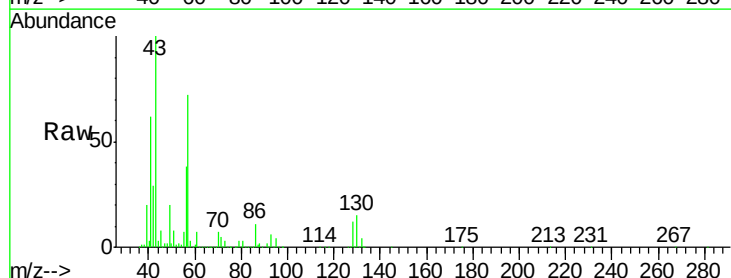
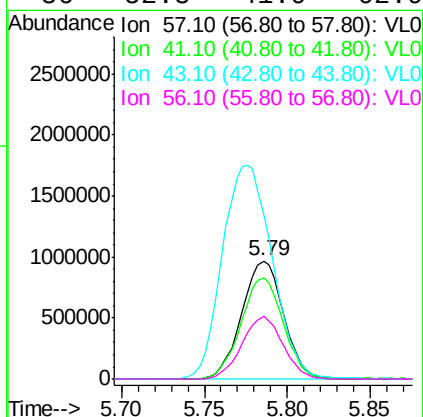
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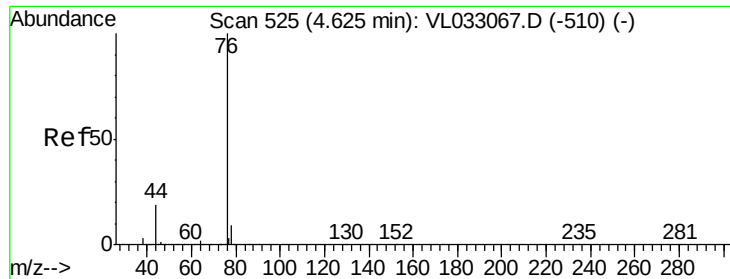
MMDadoda
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#26
Hexane
Concen: 12.728 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.00 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	86.8	70.8	106.2	
43	216.7	171.8	257.6	
56	52.5	41.9	62.9	





#27

Carbon Disulfide

Concen: 14.027 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 2328019

Ion Ratio Lower Upper

76 100

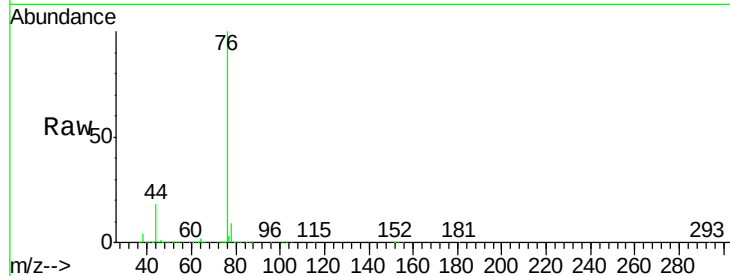
44 18.2 13.9 20.9

78 9.1 7.3 10.9

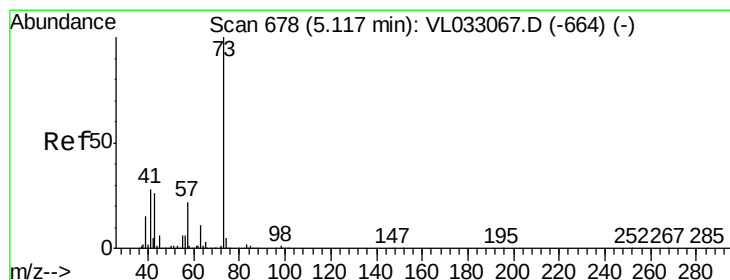
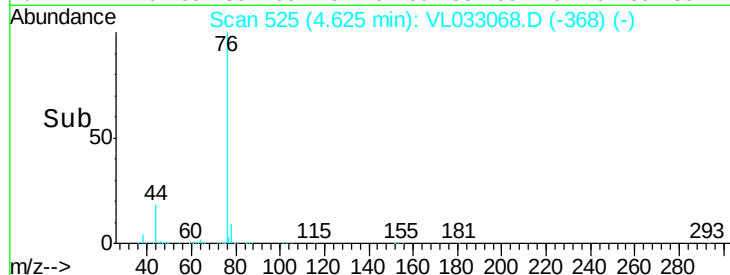
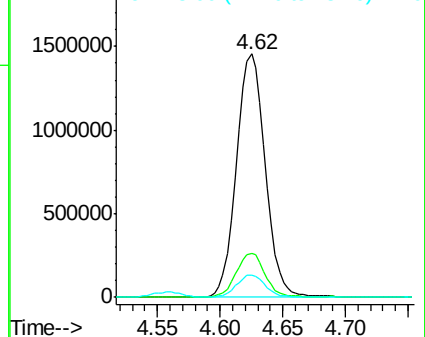
Manual Integrations
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 13.796 ppbv

RT: 5.12 min Scan# 678

Delta R.T. 0.00 min

Lab File: VL033068.D

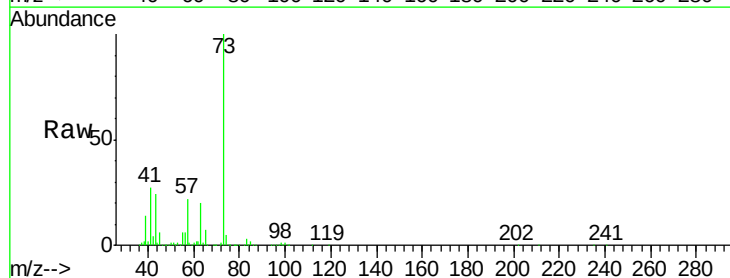
Acq: 4 Jan 2019 13:53

Tgt Ion: 73 Resp: 2868513

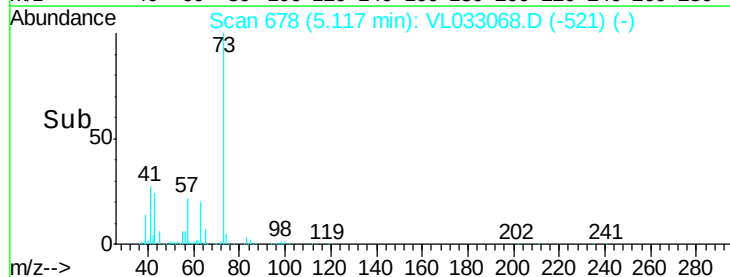
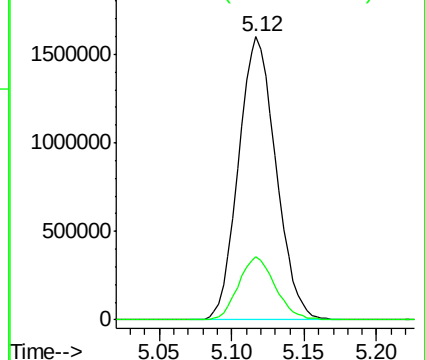
Ion Ratio Lower Upper

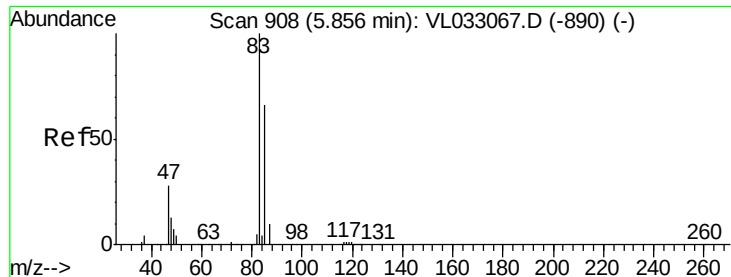
73 100

57 22.0 17.5 26.3



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





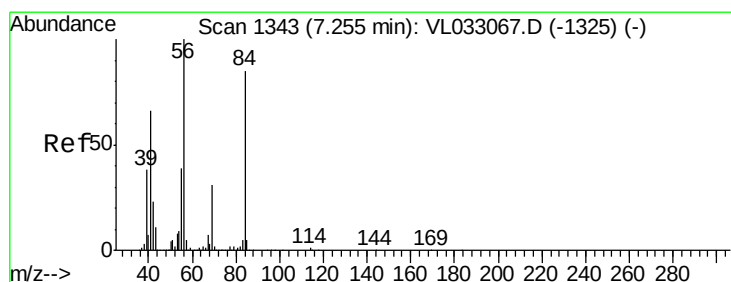
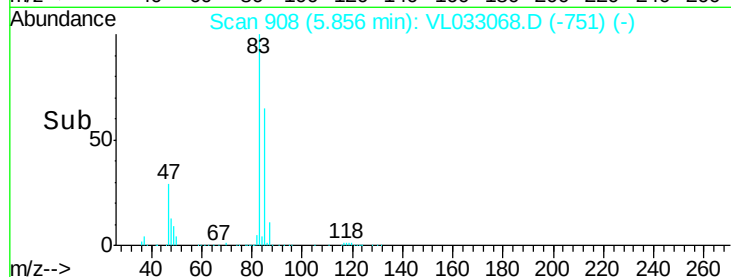
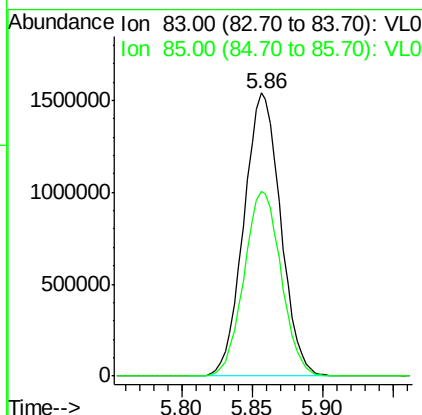
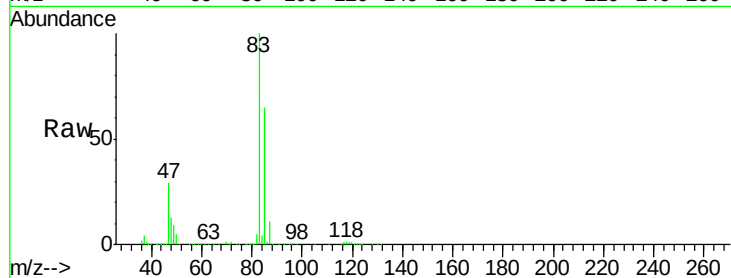
#29
Chloroform
Concen: 12.780 ppbv
RT: 5.86 min Scan# 908
Delta R.T. 0.00 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 2812589
Ion Ratio Lower Upper
83 100
85 65.2 52.5 78.7

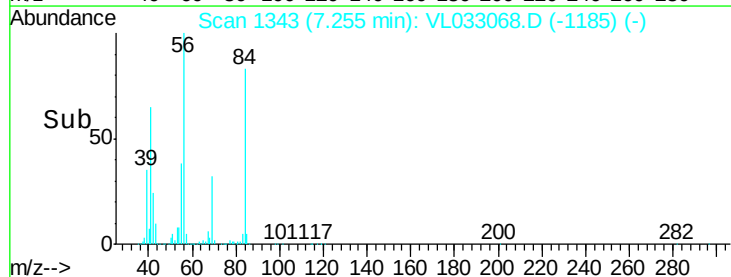
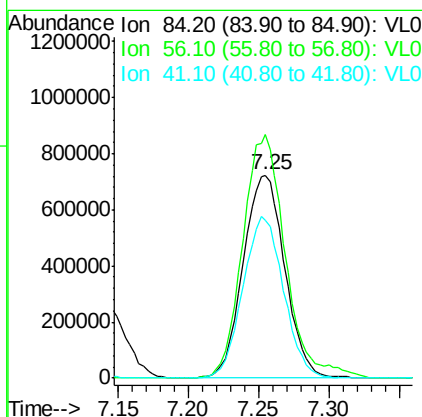
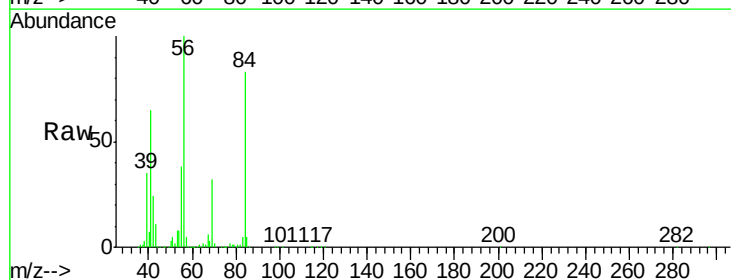
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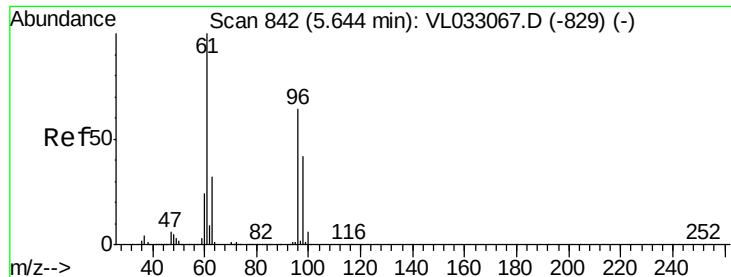
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#30
Cyclohexane
Concen: 14.940 ppbv
RT: 7.25 min Scan# 1343
Delta R.T. 0.01 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Tgt Ion: 84 Resp: 1489431
Ion Ratio Lower Upper
84 100
56 123.4 101.8 152.6
41 78.2 63.2 94.8





#31

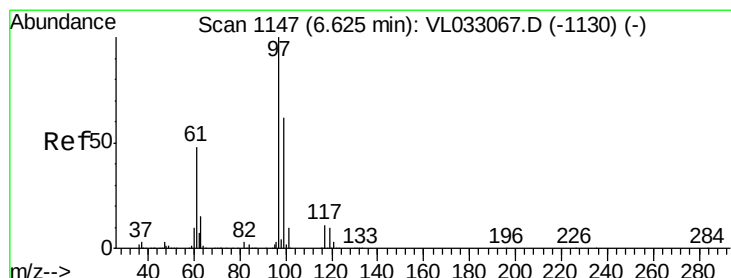
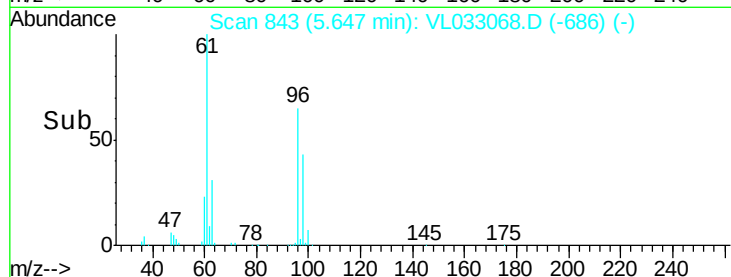
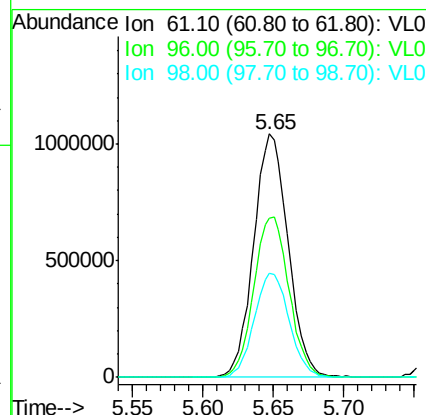
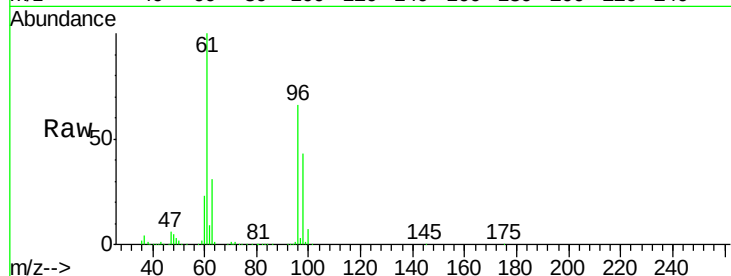
cis-1,2-Dichloroethene
 Concen: 14.504 ppbv
 RT: 5.65 min Scan# 843
 Delta R.T. 0.00 min
 Lab File: VL033068.D
 Acq: 4 Jan 2019 13:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	65.5	52.8	79.2
98	42.6	33.8	50.6

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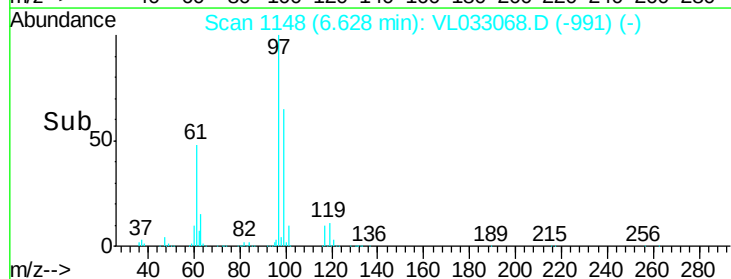
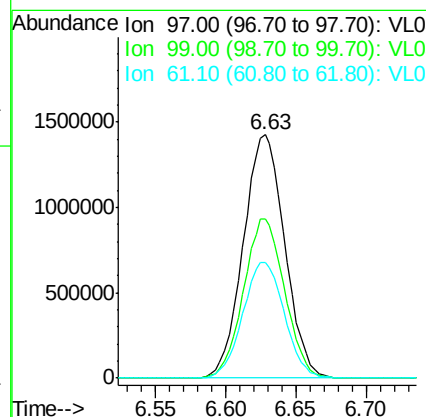
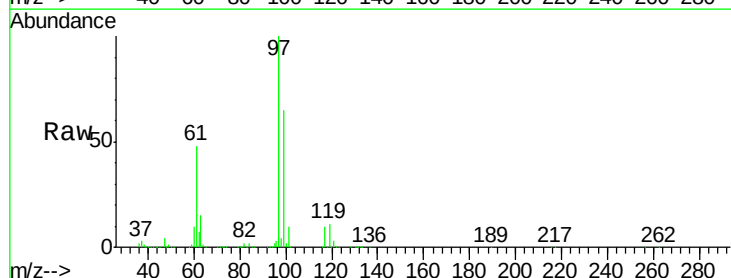
MMDadoda
 1/8/2019 12:01:12 AM

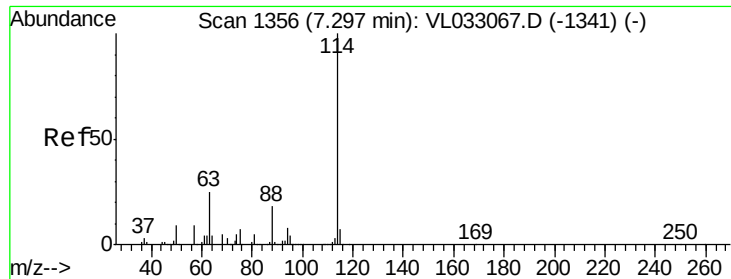


#32

1,1,1-Trichloroethane
 Concen: 12.605 ppbv
 RT: 6.63 min Scan# 1148
 Delta R.T. 0.00 min
 Lab File: VL033068.D
 Acq: 4 Jan 2019 13:53

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.1	76.7
61	48.0	38.3	57.5





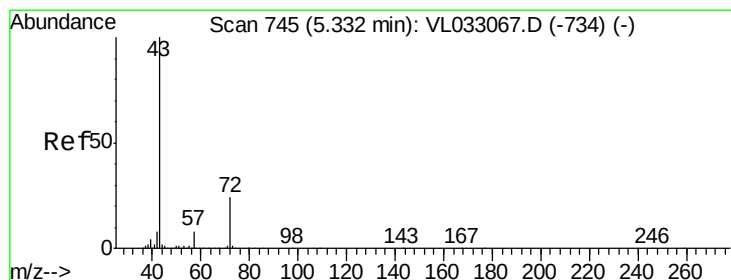
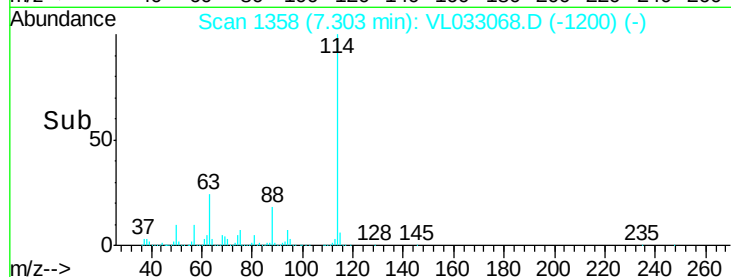
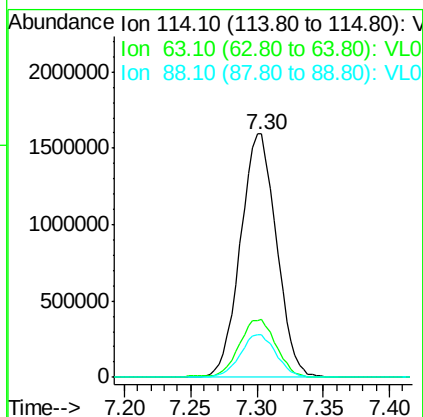
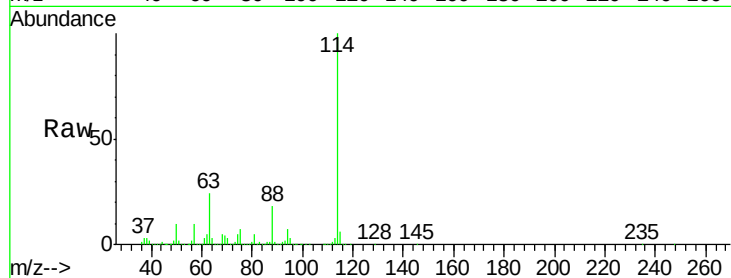
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1358
 Delta R.T. 0.01 min
 Lab File: VL033068.D
 Acq: 4 Jan 2019 13:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:114 Resp: 3016034
 Ion Ratio Lower Upper
 114 100
 63 24.8 20.1 30.1
 88 17.5 14.0 21.0

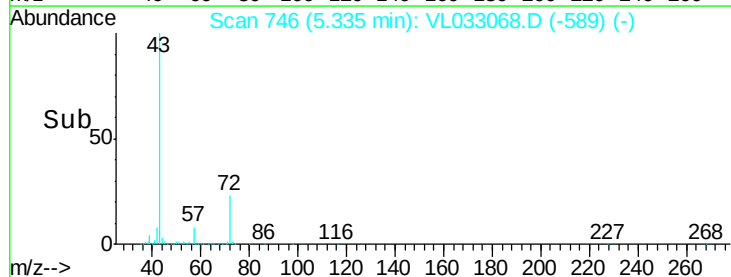
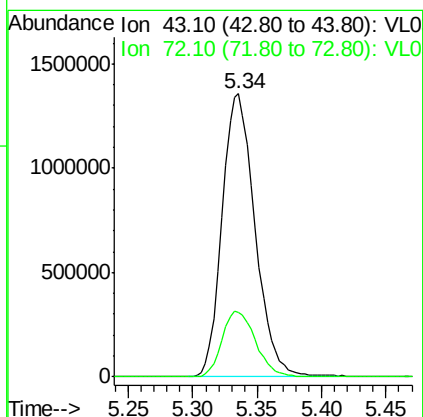
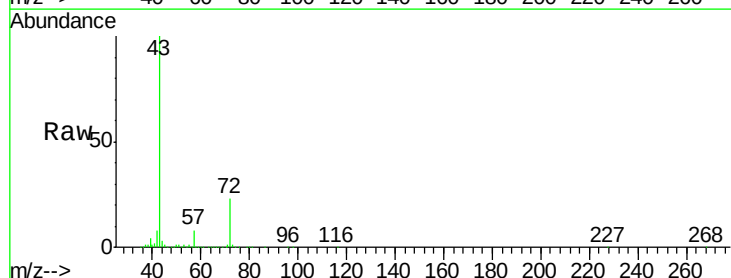
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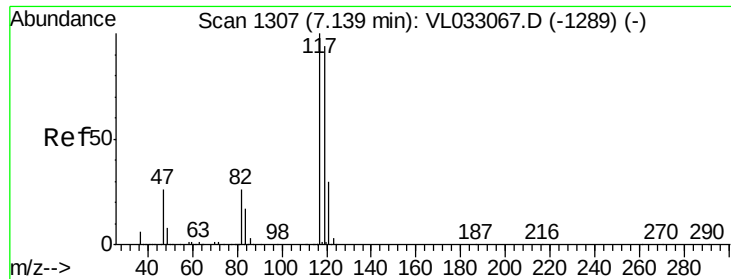
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#34
 2-Butanone
 Concen: 13.607 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. 0.00 min
 Lab File: VL033068.D
 Acq: 4 Jan 2019 13:53

Tgt Ion: 43 Resp: 2396116
 Ion Ratio Lower Upper
 43 100
 72 23.8 18.9 28.3





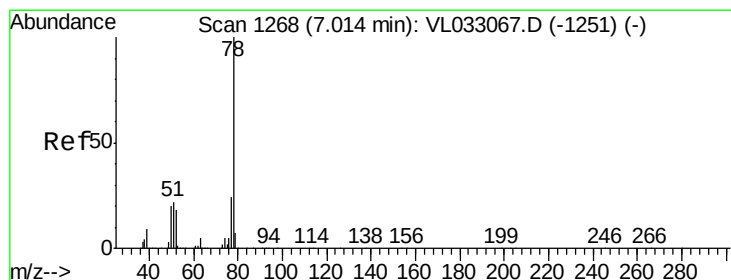
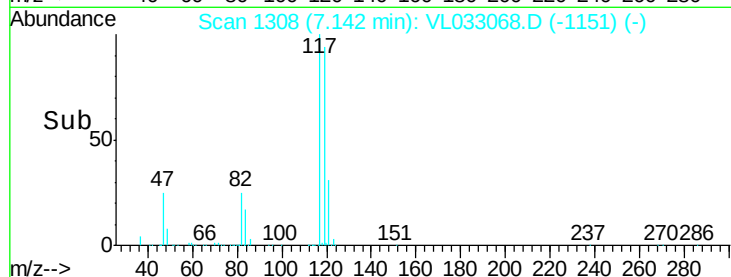
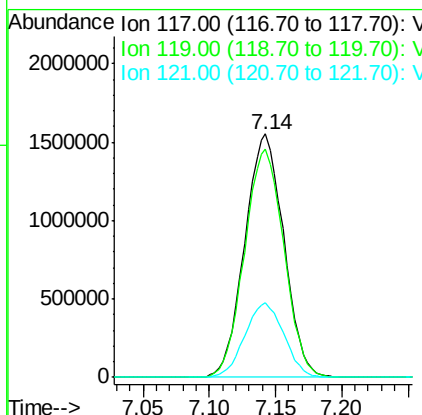
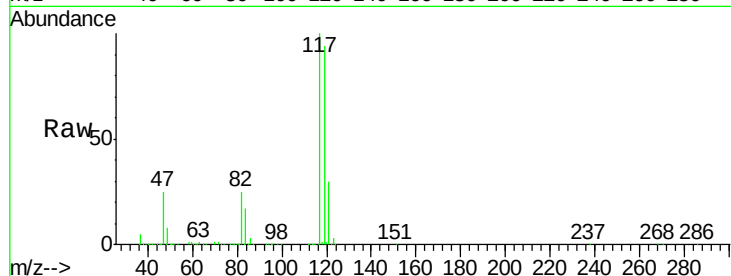
#35
Carbon Tetrachloride
Concen: 12.213 ppbv
RT: 7.14 min Scan# 1308
Delta R.T. 0.00 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
117	100		
119	93.7	76.5	114.7
121	30.5	25.2	37.8

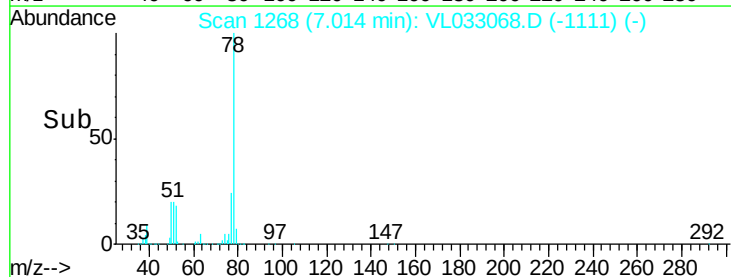
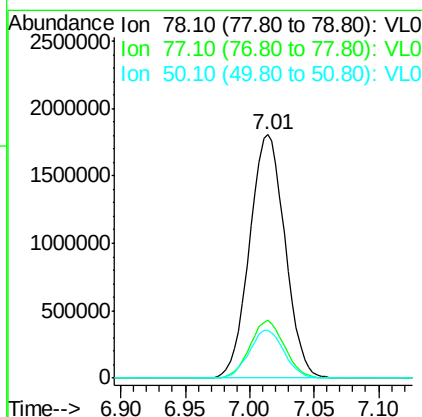
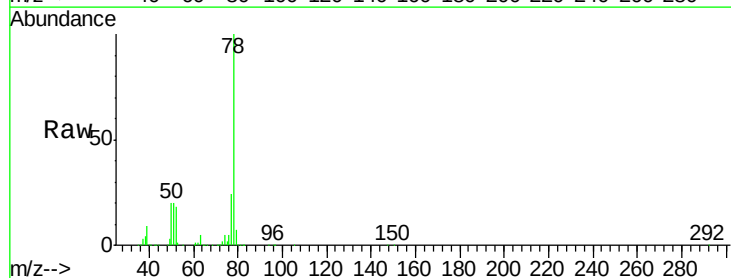
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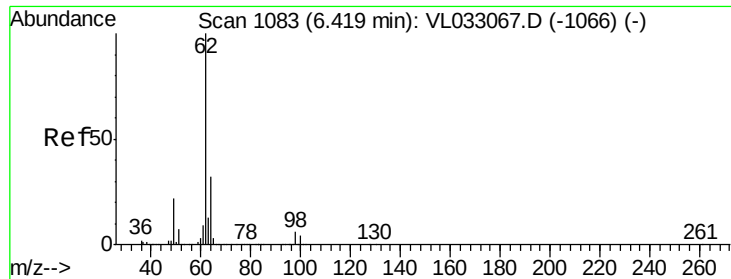
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#36
Benzene
Concen: 13.959 ppbv
RT: 7.01 min Scan# 1268
Delta R.T. 0.00 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.5	27.7
50	19.6	15.7	23.5





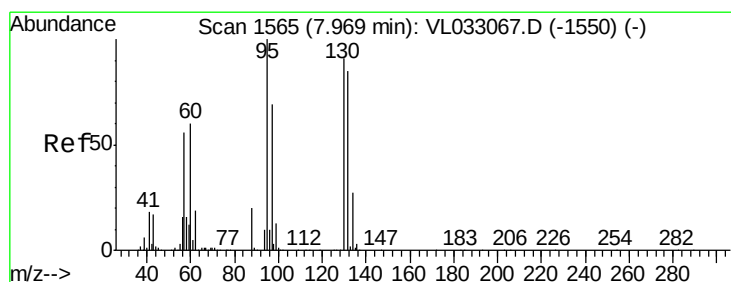
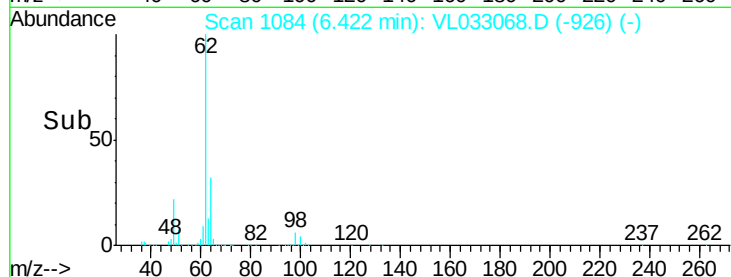
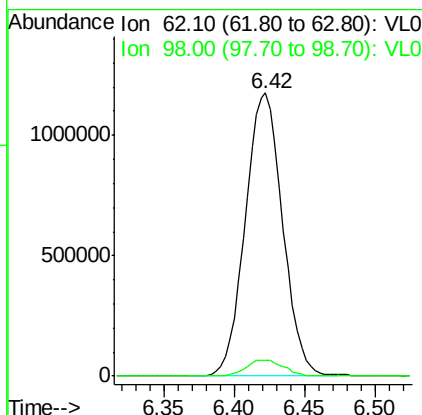
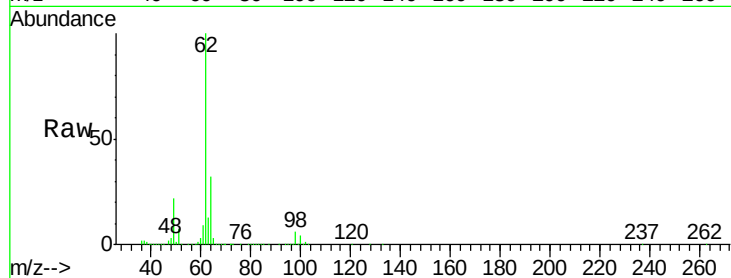
#37
1,2-Dichloroethane
Concen: 12.903 ppbv
RT: 6.42 min Scan# 1084
Delta R.T. 0.01 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 62 Resp: 2178442
Ion Ratio Lower Upper
62 100
98 5.8 4.6 7.0

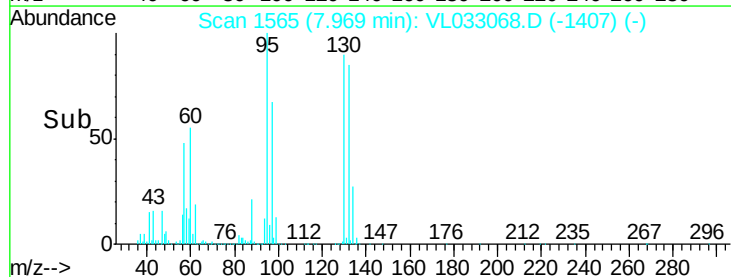
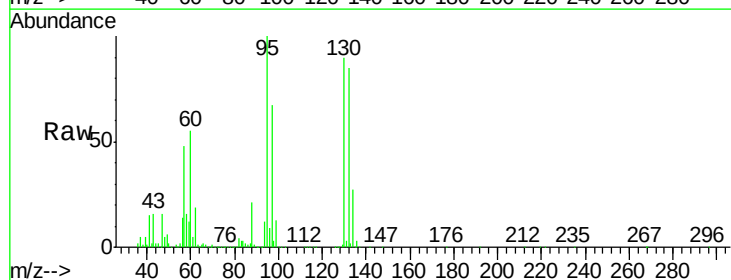
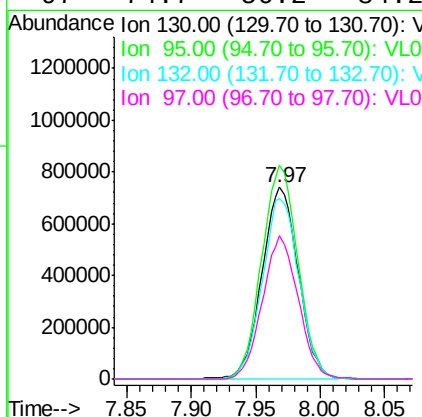
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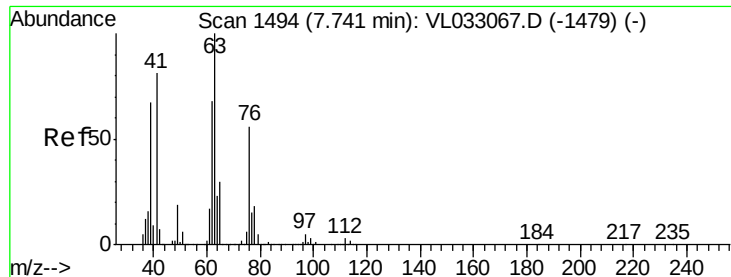
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1/8/2019 12:01:12 AM



#38
Trichloroethene
Concen: 13.983 ppbv
RT: 7.97 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Tgt Ion:130 Resp: 1449241
Ion Ratio Lower Upper
130 100
95 111.6 88.6 132.8
132 94.5 74.2 111.2
97 74.7 56.2 84.2





#39

1,2-Dichloropropane

Concen: 13.921 ppbv

RT: 7.74 min Scan# 1495

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 63 Resp: 1295860

Ion Ratio Lower Upper

63 100

41 77.9 61.9 92.9

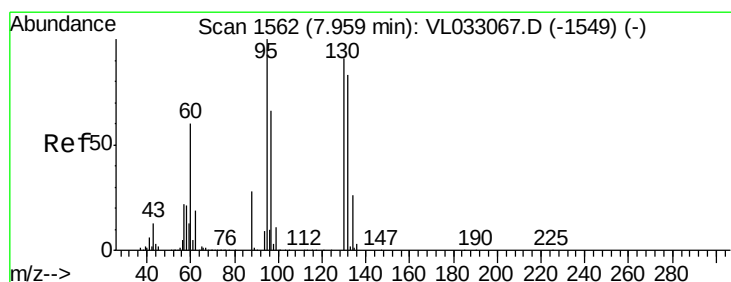
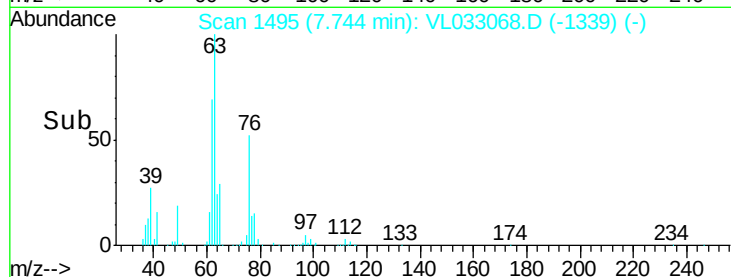
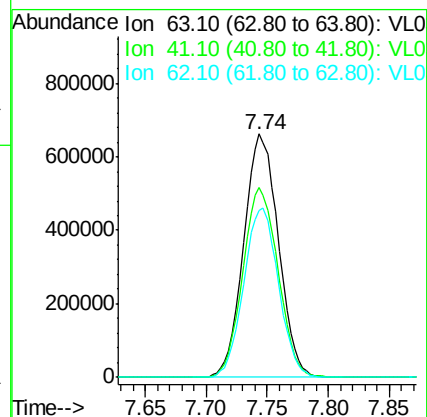
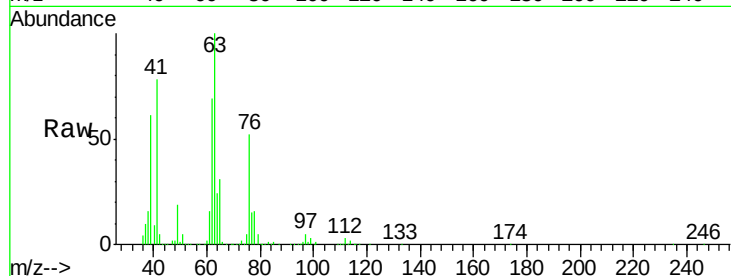
62 68.7 55.8 83.6

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1/8/2019 12:01:12 AM



#40

1,4-Dioxane

Concen: 13.175 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Tgt Ion: 88 Resp: 465522

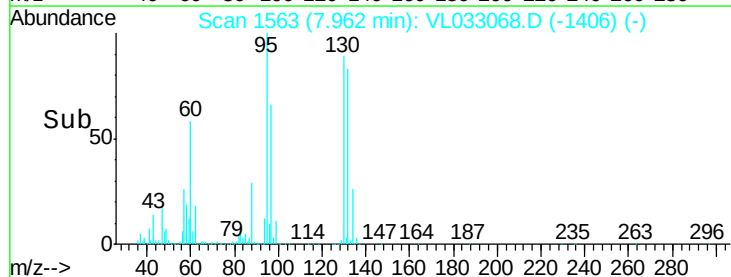
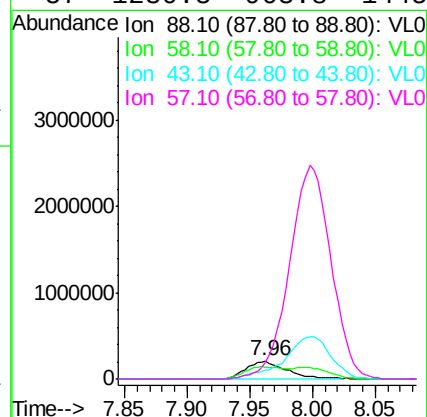
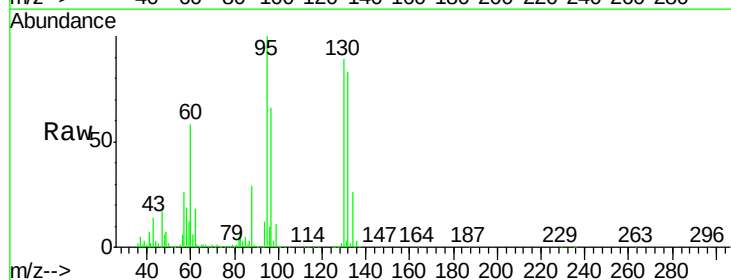
Ion Ratio Lower Upper

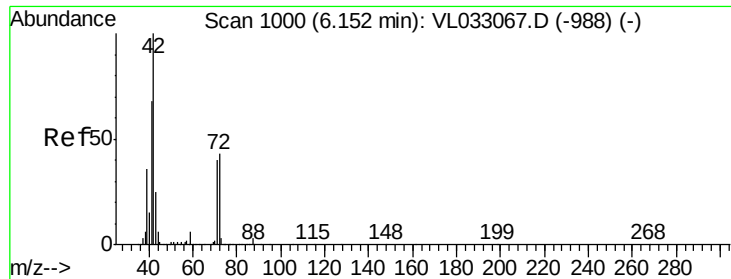
88 100

58 125.4 101.9 152.9

43 273.2 212.6 319.0

57 1230.3 963.8 1445.6





#41

Tetrahydrofuran

Concen: 14.918 ppbv

RT: 6.15 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 42 Resp: 1339528

Ion Ratio Lower Upper

42 100

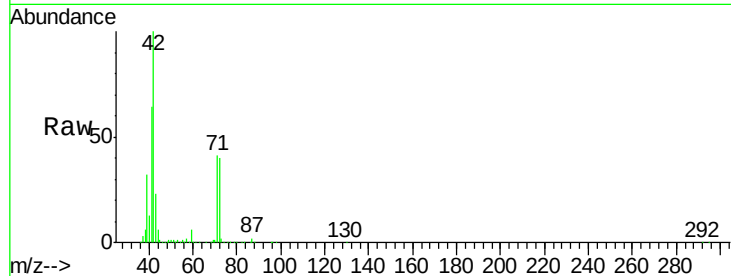
72 41.6 32.9 49.3

71 40.2 31.8 47.6

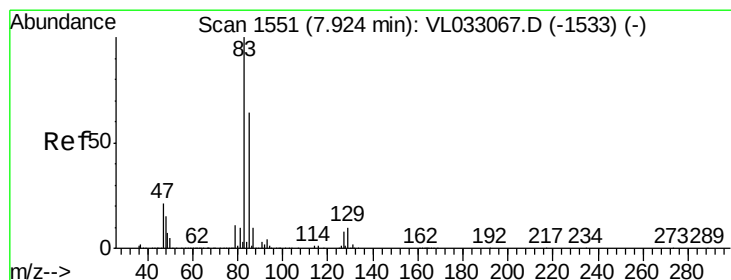
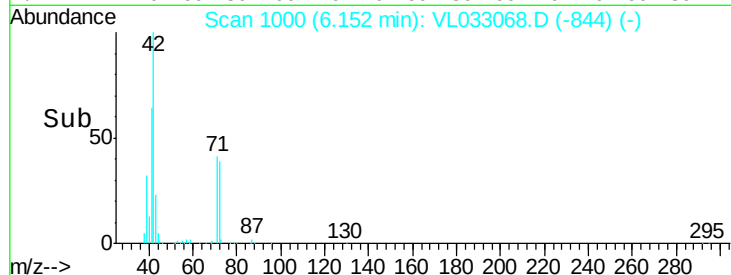
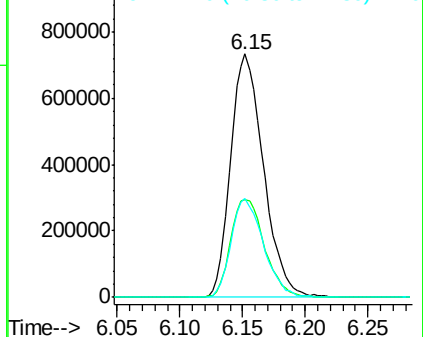
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Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 12.808 ppbv

RT: 7.93 min Scan# 1552

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

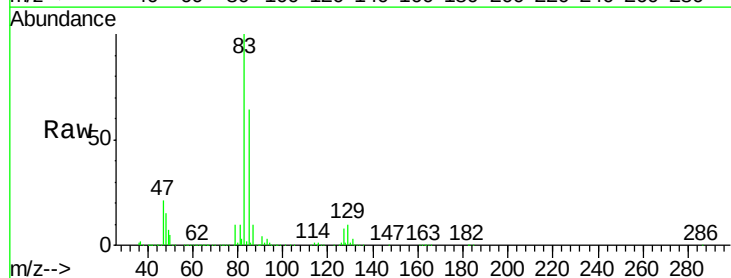
Tgt Ion: 83 Resp: 3110932

Ion Ratio Lower Upper

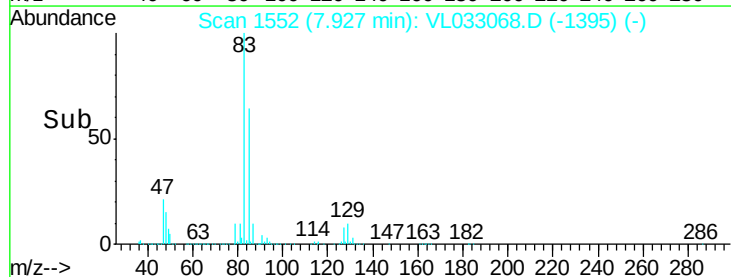
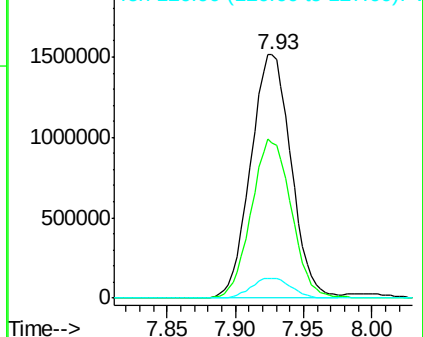
83 100

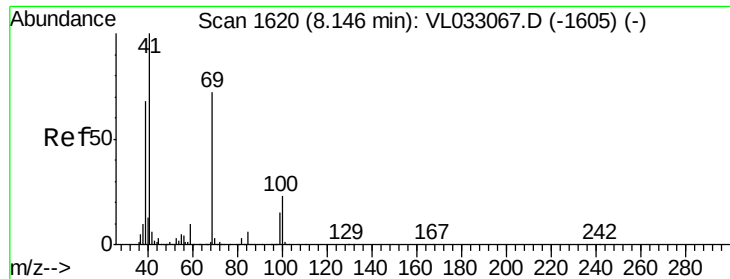
85 64.0 51.0 76.4

127 7.9 6.5 9.7



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





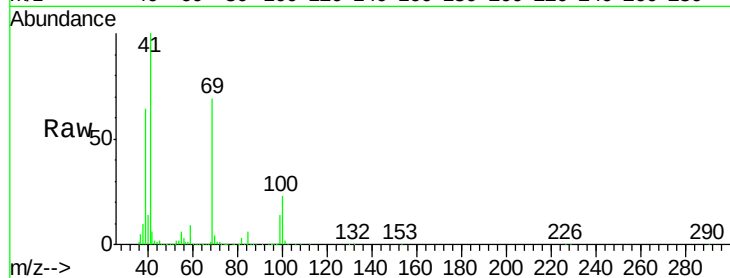
#43
Methyl Methacrylate
Concen: 15.389 ppbv
RT: 8.14 min Scan# 1619
Delta R.T. 0.00 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

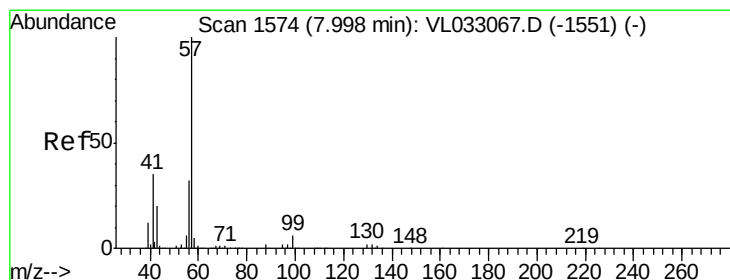
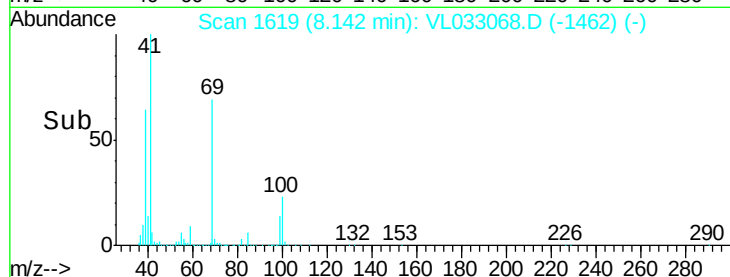
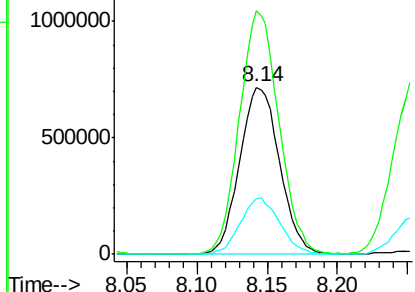
Tot Ion: 69 Resp: 1423862
Ion Ratio Lower Upper
69 100
41 144.2 114.0 171.0
100 33.2 26.3 39.5

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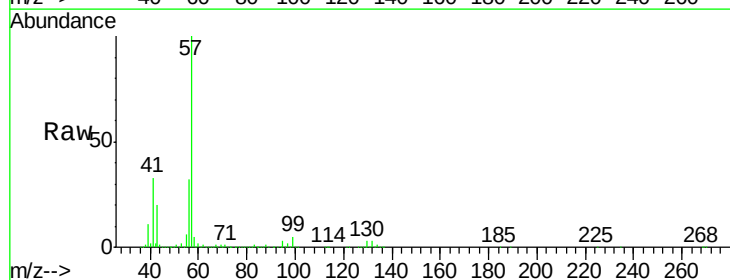


Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

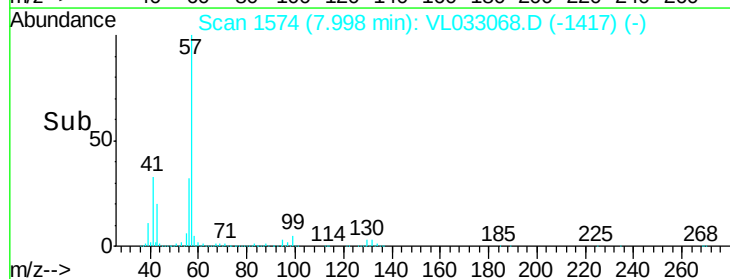
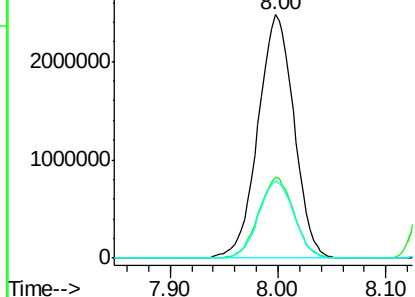


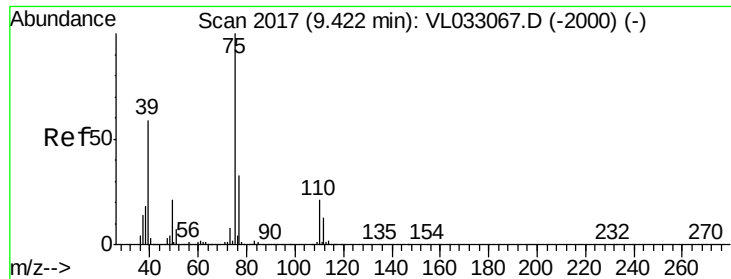
#44
2,2,4-Trimethylpentane
Concen: 13.017 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Tgt Ion: 57 Resp: 5719034
Ion Ratio Lower Upper
57 100
41 32.8 26.2 39.2
56 31.3 24.9 37.3



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





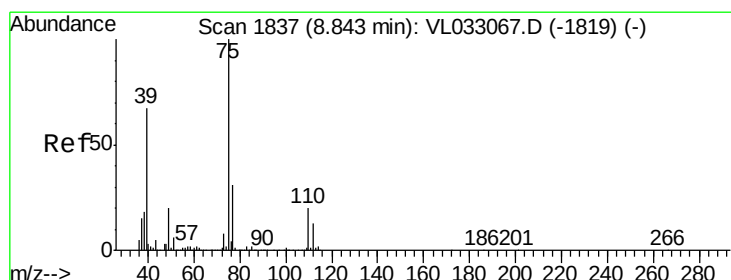
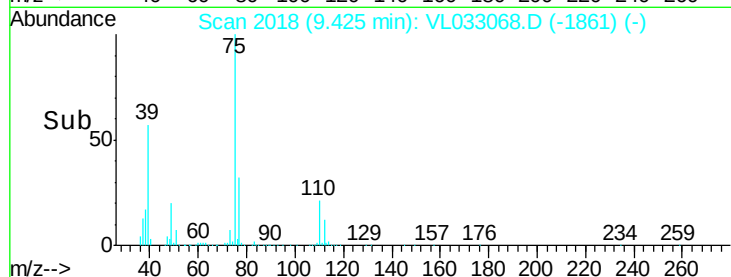
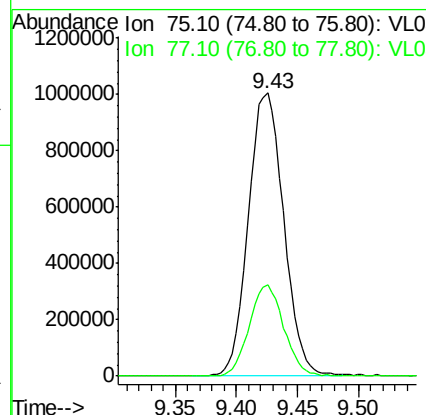
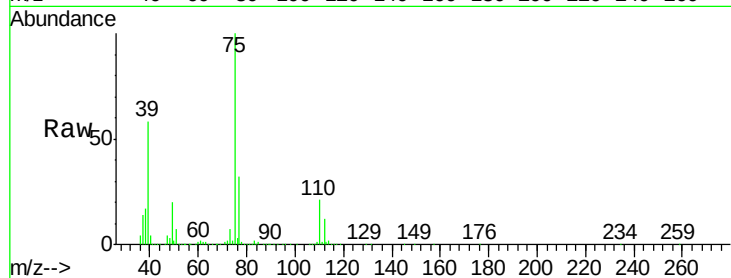
#45
t-1,3-Dichloropropene
Concen: 15.721 ppbv
RT: 9.43 min Scan# 2018
Delta R.T. 0.00 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 75 Resp: 2010218
Ion Ratio Lower Upper
75 100
77 32.2 24.8 37.2

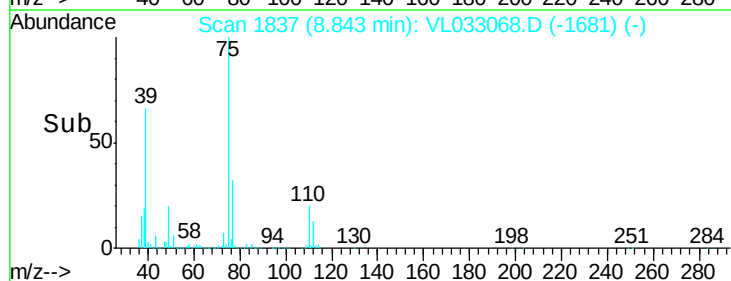
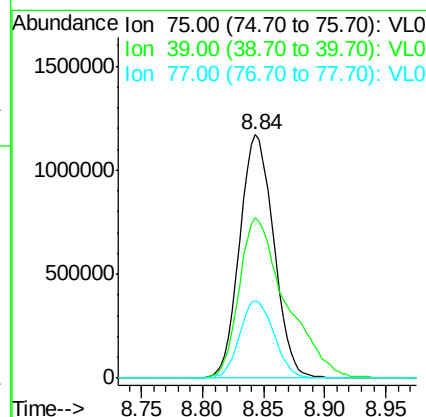
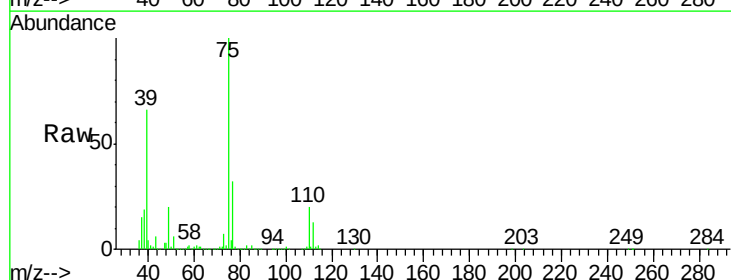
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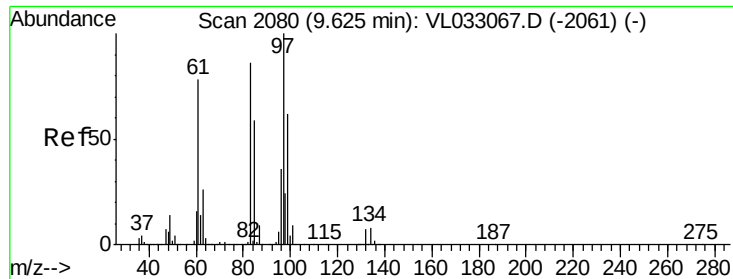
MMDadoda
1/8/2019 12:01:12 AM



#46
cis-1,3-Dichloropropene
Concen: 16.276 ppbv
RT: 8.84 min Scan# 1837
Delta R.T. 0.00 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Tgt Ion: 75 Resp: 2262487
Ion Ratio Lower Upper
75 100
39 65.9 51.3 76.9
77 31.7 25.5 38.3





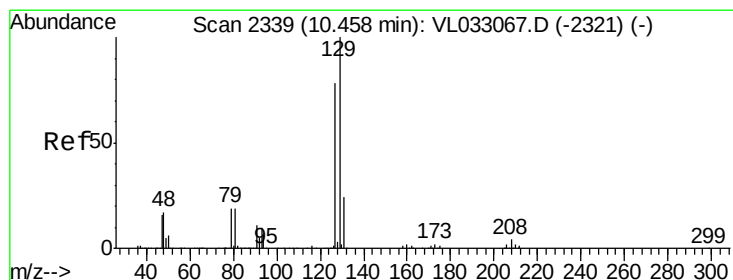
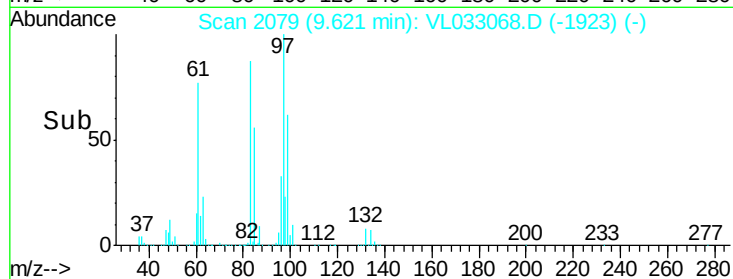
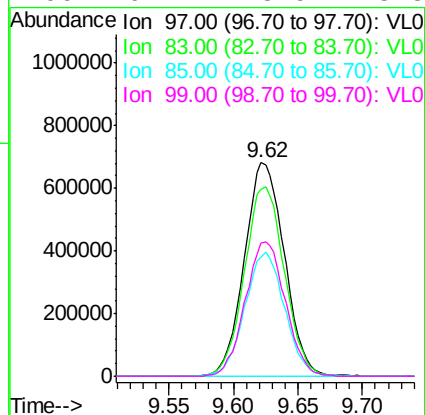
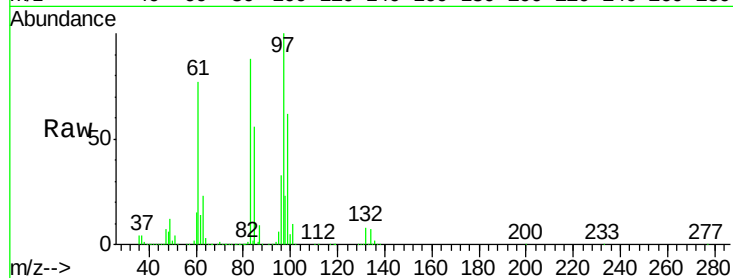
#47
 1,1,2-Trichloroethane
 Concen: 13.123 ppbv
 RT: 9.62 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VL033068.D
 Acq: 4 Jan 2019 13:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	87.5	69.4	104.2	
85	55.6	44.2	66.2	
99	62.4	48.9	73.3	

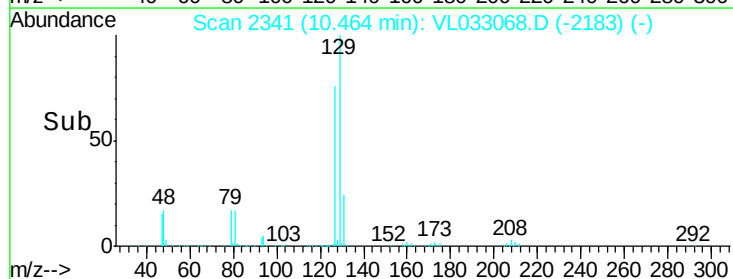
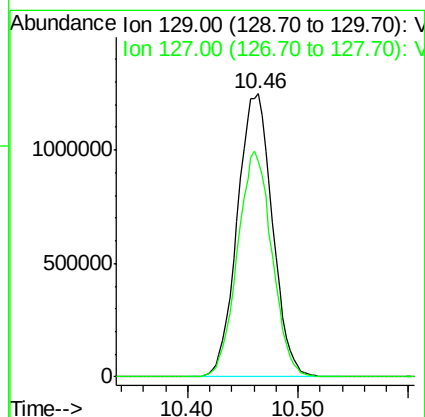
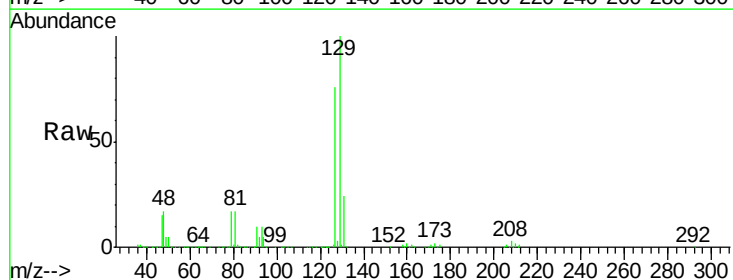
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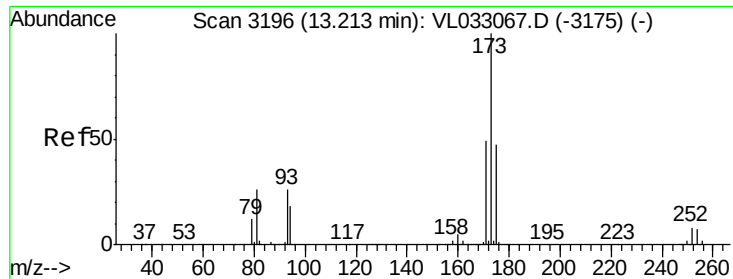
MMDadoda
 1/8/2019 12:01:12 AM



#48
 Dibromochloromethane
 Concen: 14.765 ppbv
 RT: 10.46 min Scan# 2341
 Delta R.T. 0.01 min
 Lab File: VL033068.D
 Acq: 4 Jan 2019 13:53

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.5	39.1	117.3	





#49

Bromoform

Concen: 13.686 ppbv

RT: 13.21 min Scan# 3195

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 2351092

Ion Ratio Lower Upper

173 100

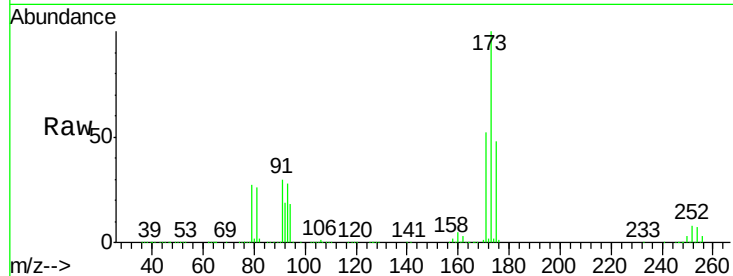
175 49.5 39.4 59.2

171 52.6 42.1 63.1

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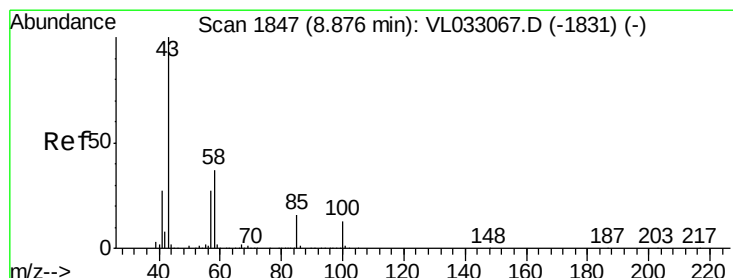
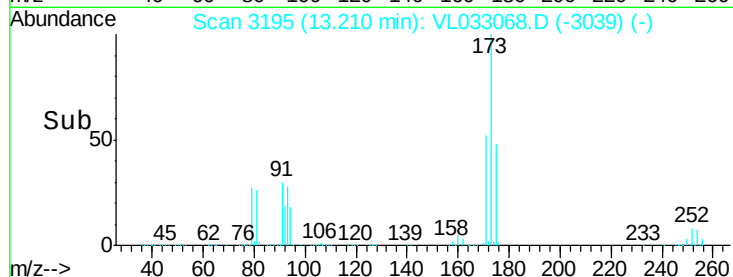
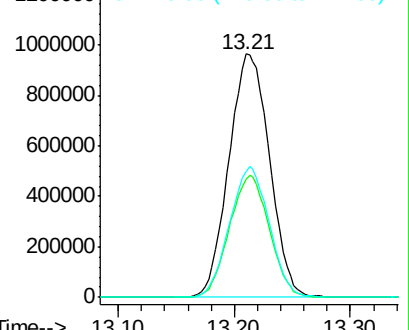
1/8/2019 12:01:12 AM



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: 14.130 ppbv

RT: 8.88 min Scan# 1848

Delta R.T. 0.01 min

Lab File: VL033068.D

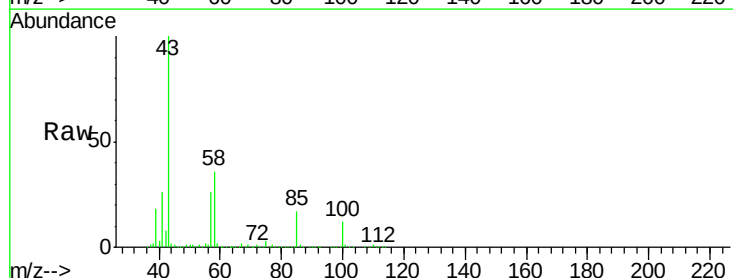
Acq: 4 Jan 2019 13:53

Tgt Ion: 43 Resp: 3345400

Ion Ratio Lower Upper

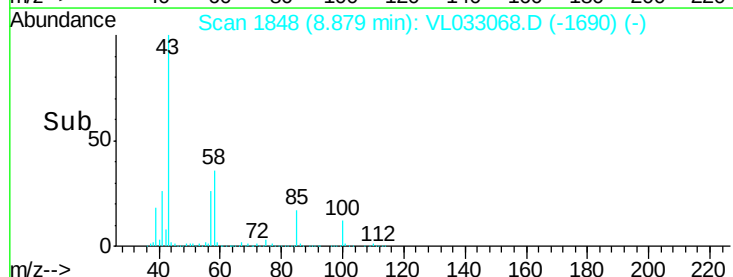
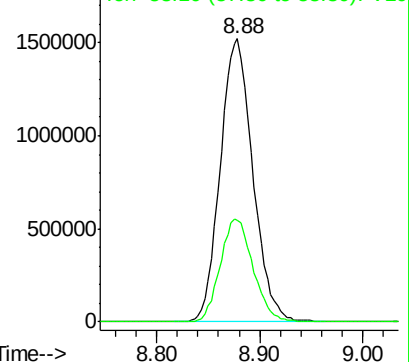
43 100

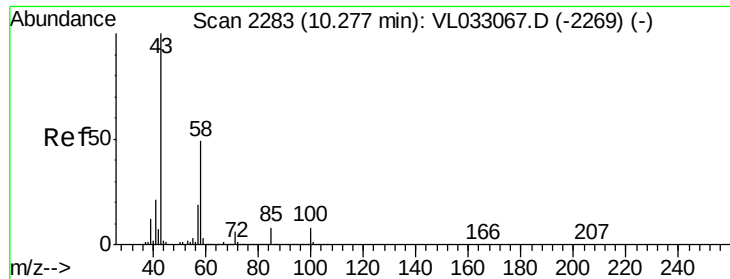
58 36.7 28.9 43.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 16.105 ppbv

RT: 10.28 min Scan# 2284

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2576051

Ion Ratio Lower Upper

43 100

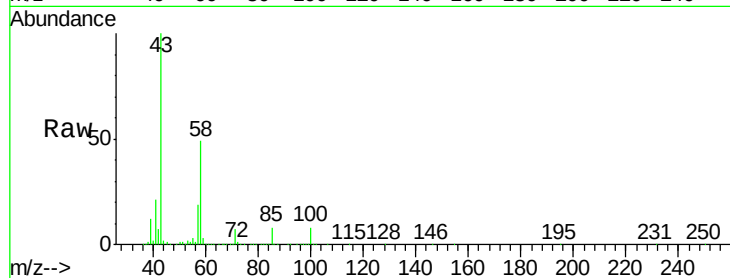
58 48.9 39.0 58.6

98 0.2 0.4 0.6#

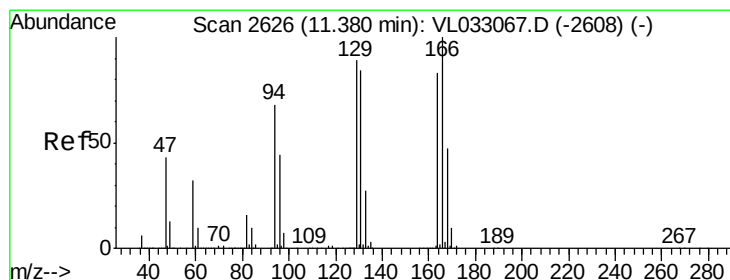
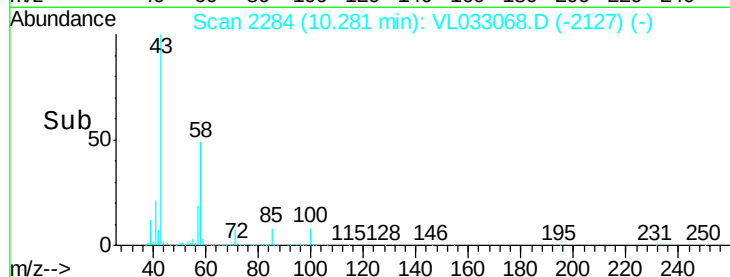
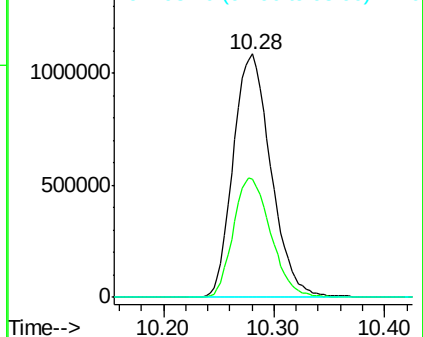
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 14.441 ppbv

RT: 11.38 min Scan# 2627

Delta R.T. 0.01 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Tgt Ion: 164 Resp: 1297220

Ion Ratio Lower Upper

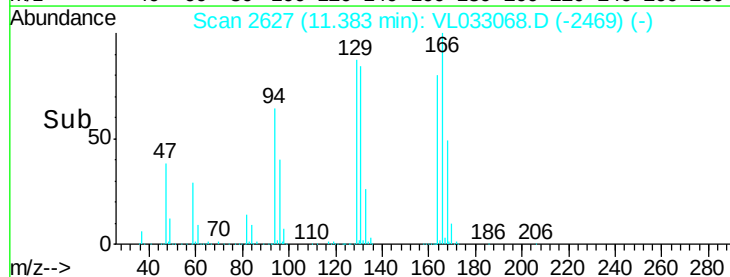
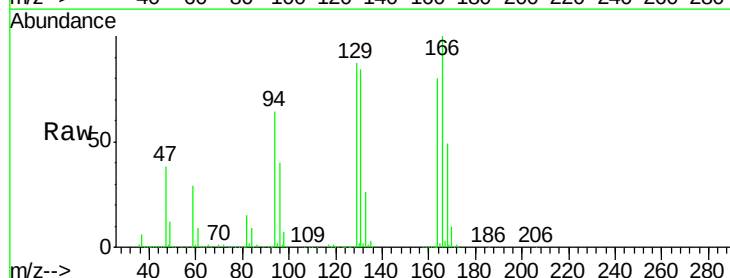
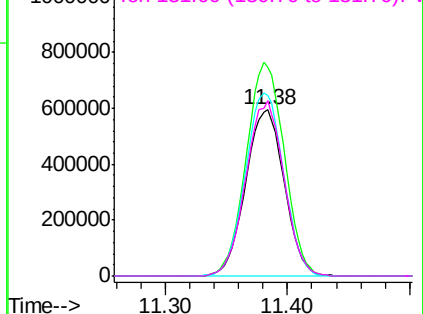
164 100

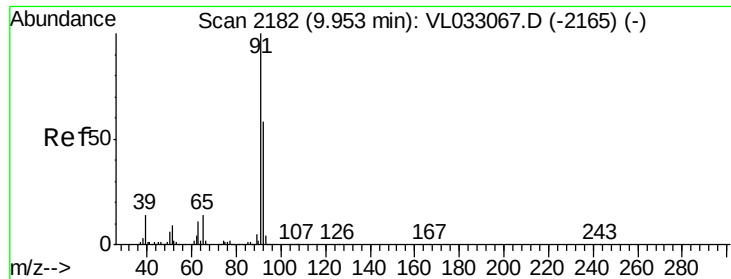
166 125.5 100.8 151.2

129 108.6 84.6 126.8

131 105.9 80.7 121.1

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





#53

Toluene

Concen: 16.176 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 4131963

Ion Ratio Lower Upper

91 100

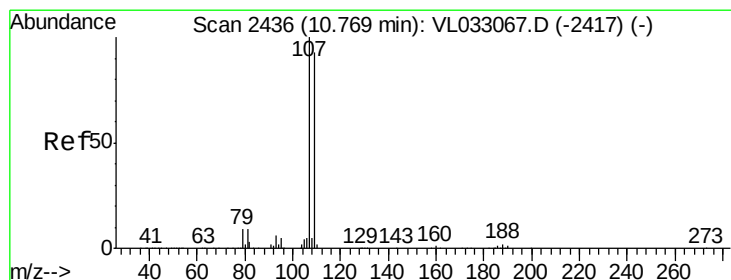
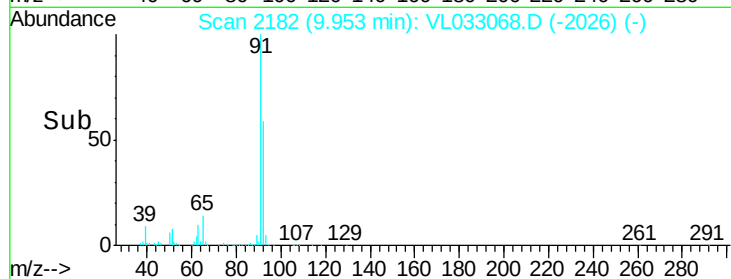
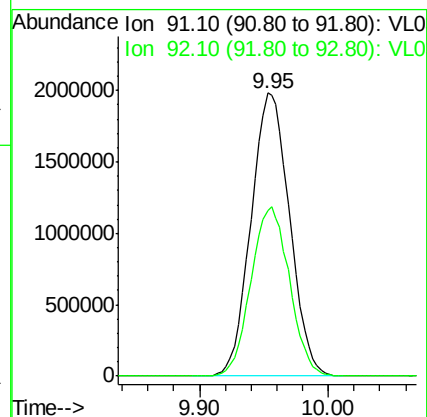
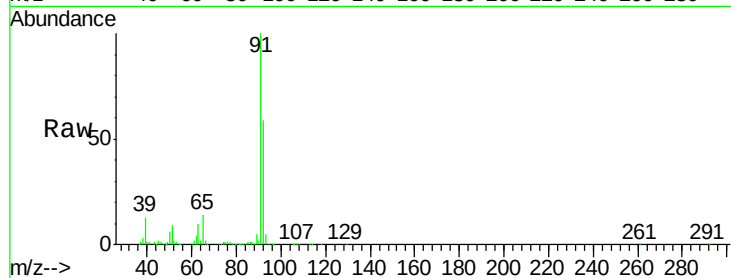
92 59.8 47.7 71.5

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#54

1,2-Dibromoethane

Concen: 14.339 ppbv

RT: 10.77 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VL033068.D

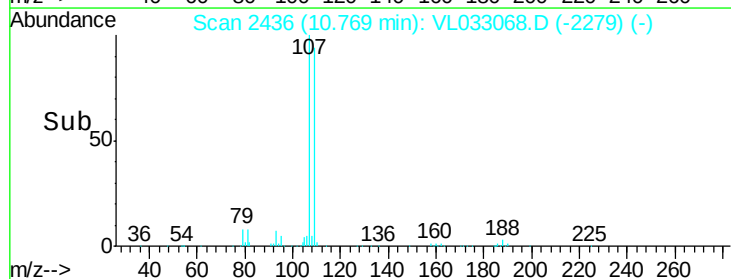
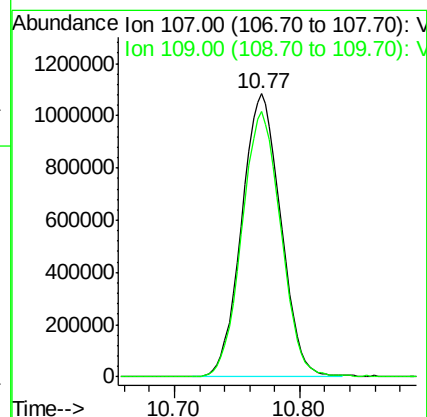
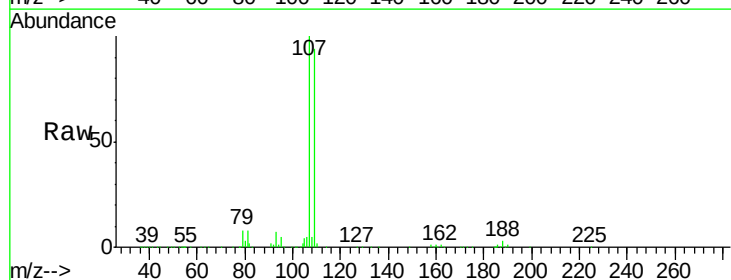
Acq: 4 Jan 2019 13:53

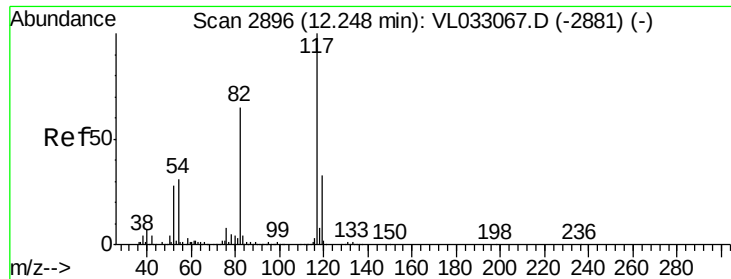
Tgt Ion: 107 Resp: 2340957

Ion Ratio Lower Upper

107 100

109 93.6 74.9 112.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 2915186

Ion Ratio Lower Upper

117 100

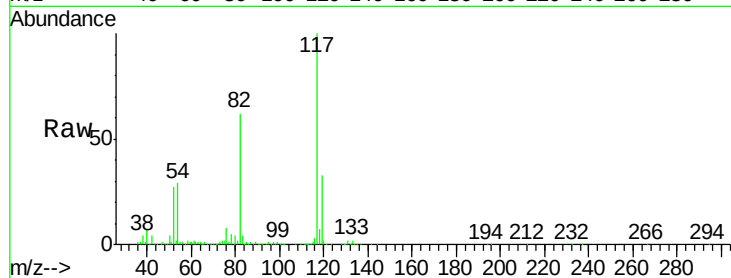
82 65.1 48.9 73.3

119 27.1 24.6 37.0

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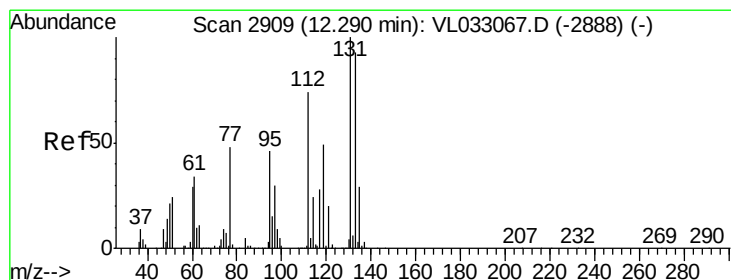
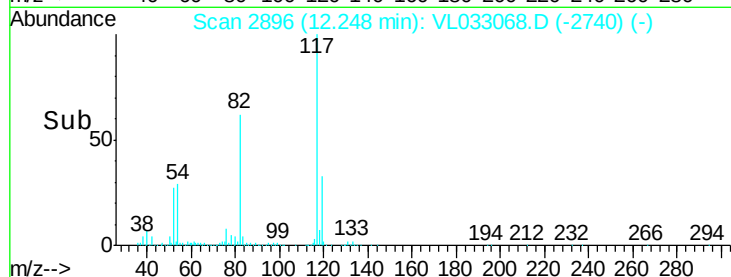
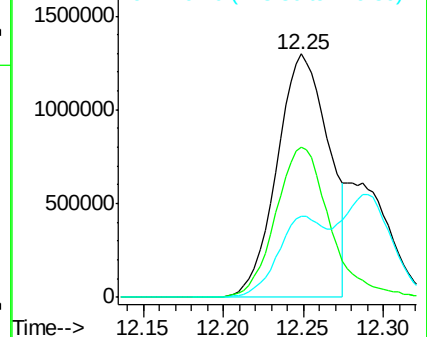
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 12.910 ppbv

RT: 12.29 min Scan# 2909

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

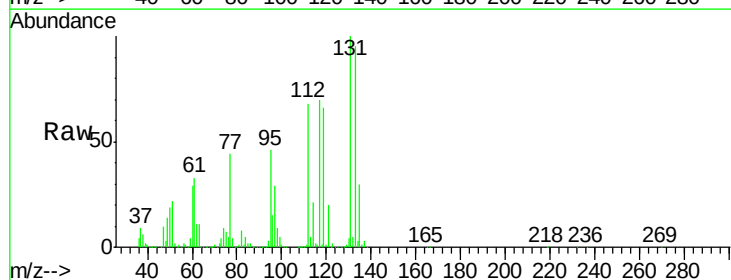
Tgt Ion:131 Resp: 1904693

Ion Ratio Lower Upper

131 100

133 95.3 76.0 114.0

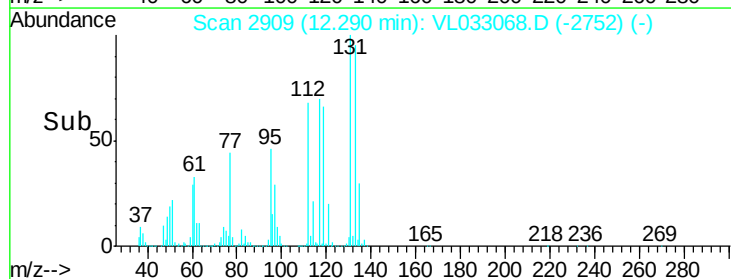
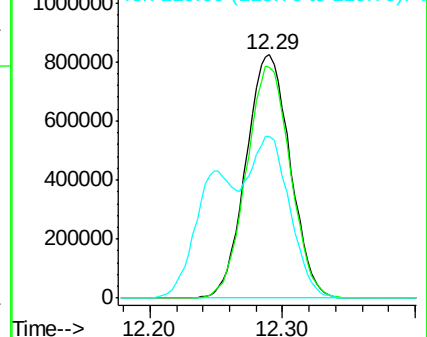
119 111.3 44.2 66.2#

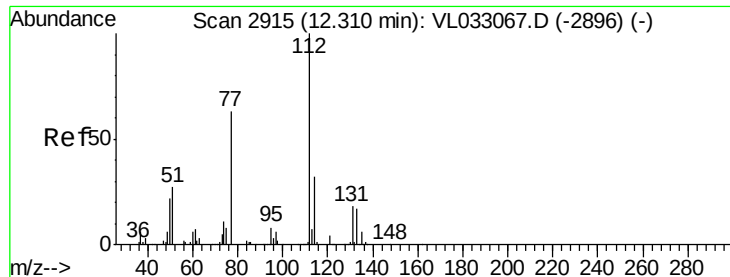


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 13.590 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:112 Resp: 3212372

Ion Ratio Lower Upper

112 100

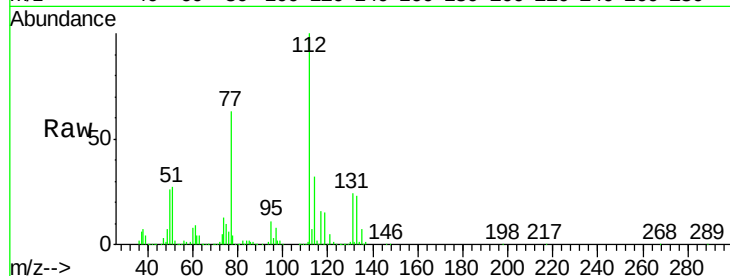
77 63.2 53.4 80.0

114 32.2 30.0 36.6

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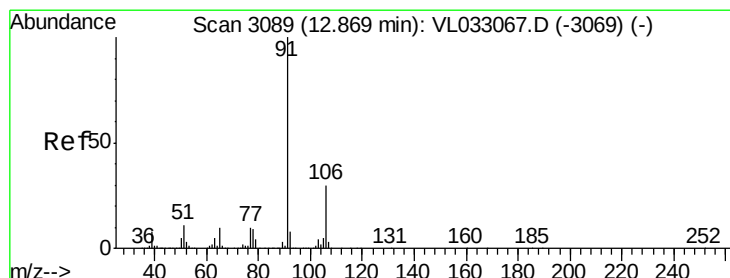
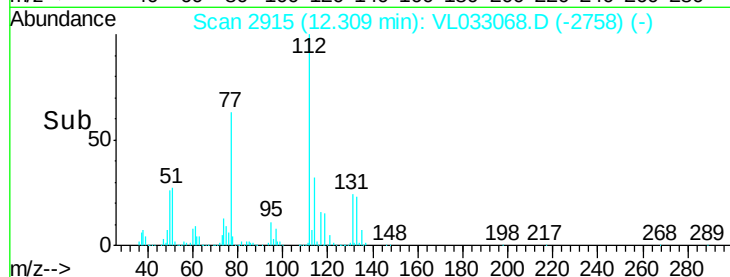
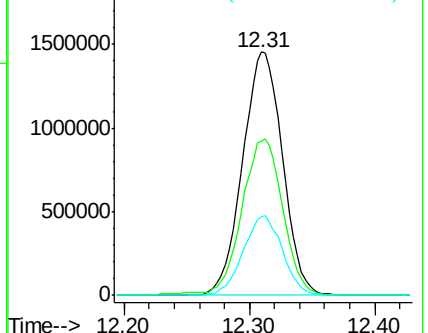
1/8/2019 12:01:12 AM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 15.726 ppbv

RT: 12.87 min Scan# 3090

Delta R.T. 0.00 min

Lab File: VL033068.D

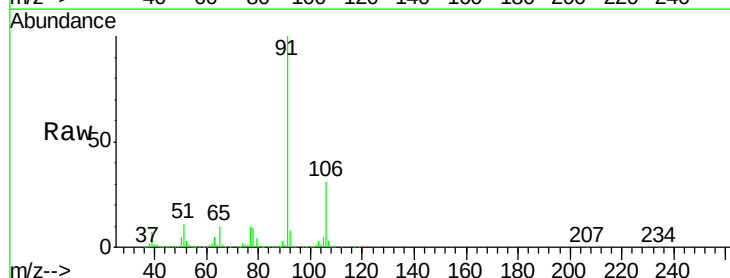
Acq: 4 Jan 2019 13:53

Tgt Ion: 91 Resp: 5639544

Ion Ratio Lower Upper

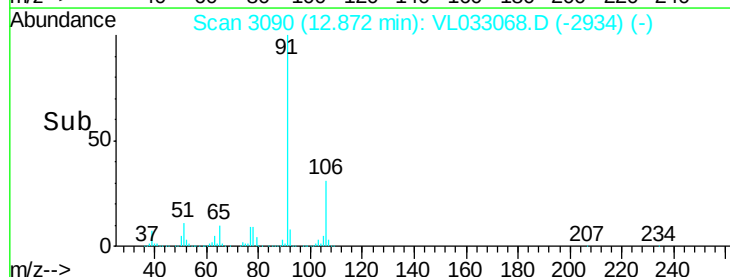
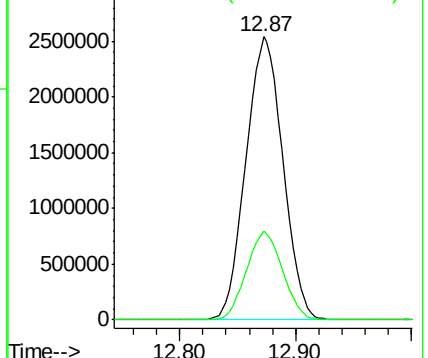
91 100

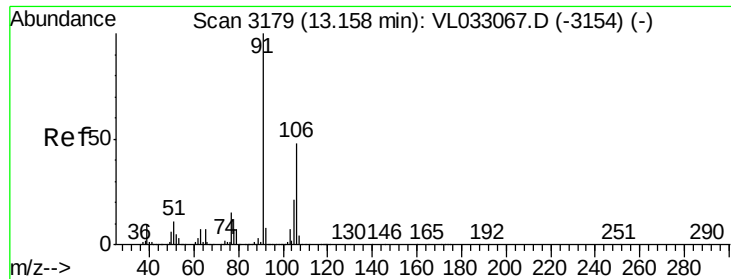
106 31.3 24.3 36.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





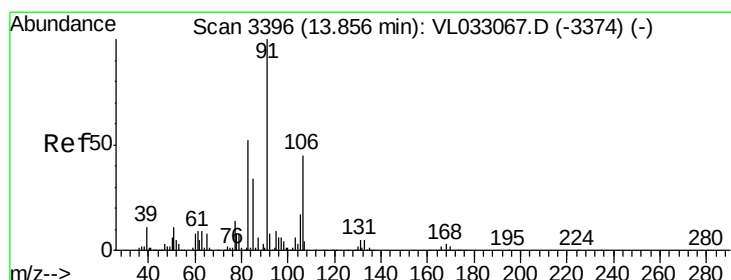
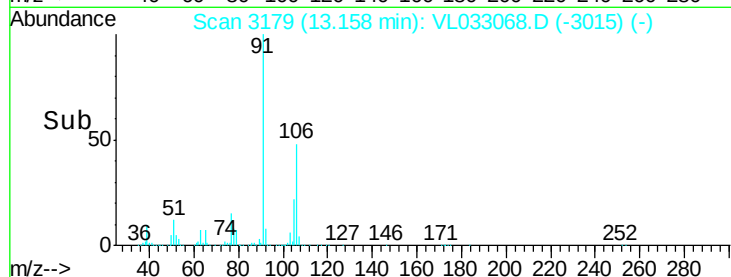
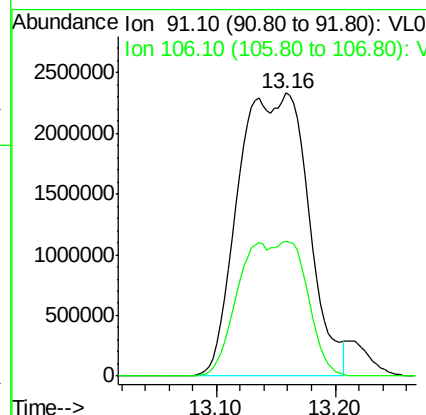
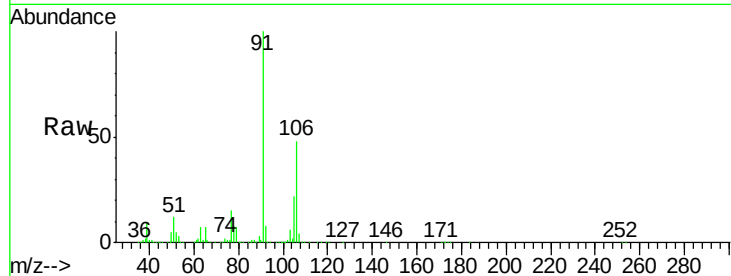
#59
m/p-Xylene
Concen: 28.437 ppbv m
RT: 13.16 min Scan# 3179
Delta R.T. 0.03 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 9471041
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

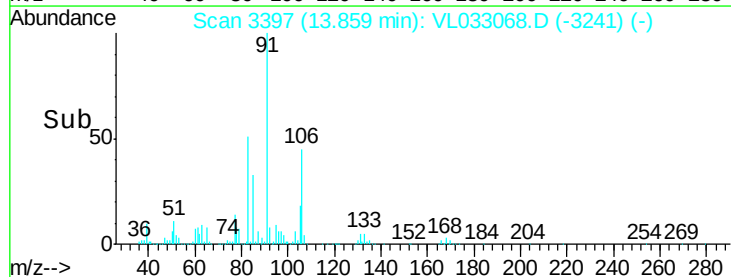
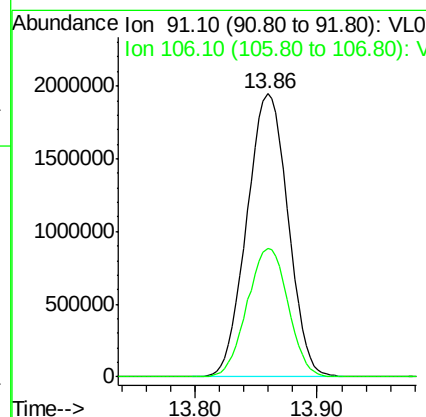
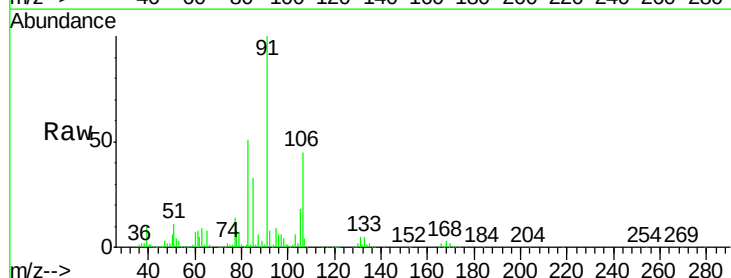
Manual Integrations
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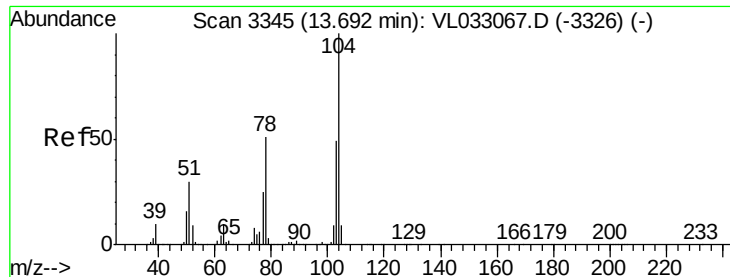
MMDadoda
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#60
o-Xylene
Concen: 13.933 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. 0.00 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Tgt Ion: 91 Resp: 4536273
Ion Ratio Lower Upper
91 100
106 45.3 22.1 66.5





#61

Stvrene

Concen: 16.847 ppbv

RT: 13.70 min Scan# 3346

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:104 Resp: 3537245

Ion Ratio Lower Upper

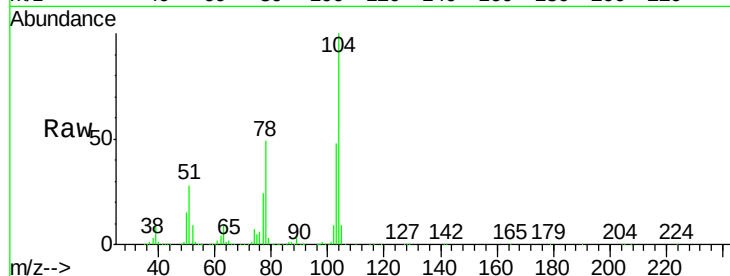
104 100

78 50.7 41.6 62.4

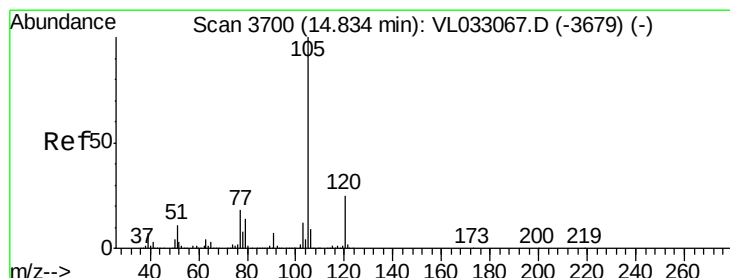
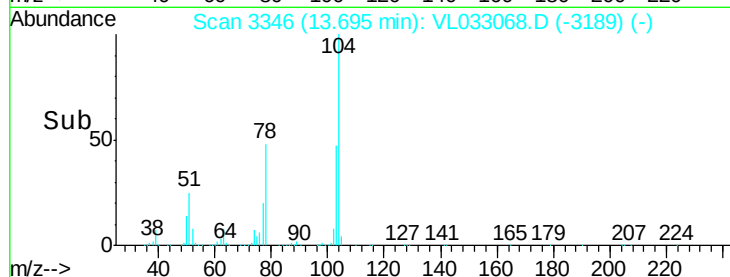
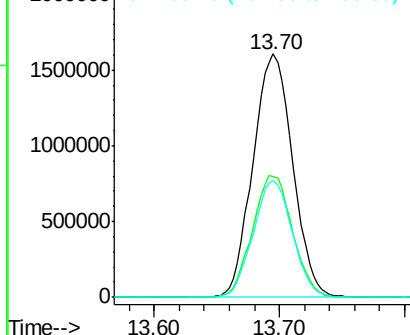
103 47.7 38.1 57.1

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Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): V
Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 13.951 ppbv

RT: 14.84 min Scan# 3701

Delta R.T. 0.00 min

Lab File: VL033068.D

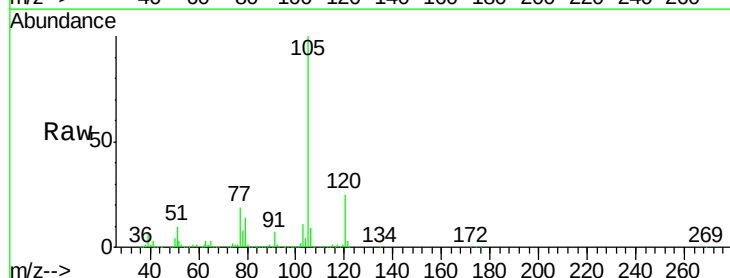
Acq: 4 Jan 2019 13:53

Tgt Ion:105 Resp: 6487147

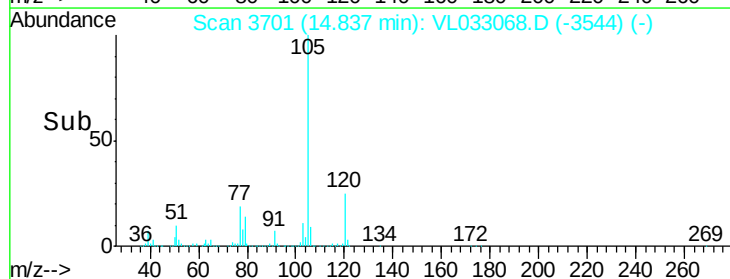
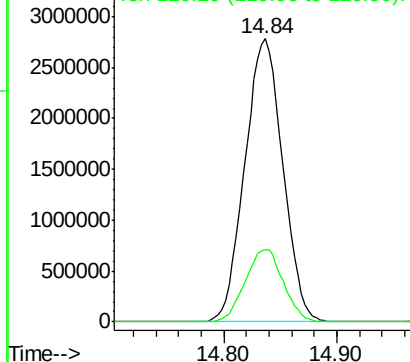
Ion Ratio Lower Upper

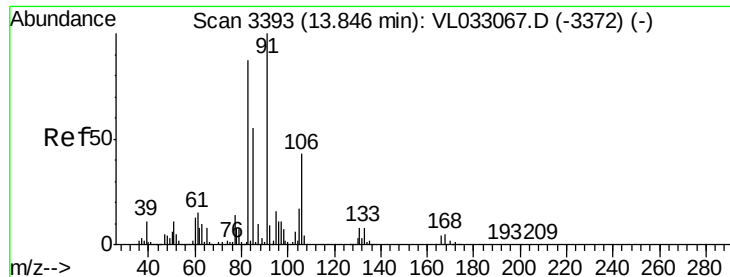
105 100

120 25.6 20.4 30.6



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 12.204 ppbv

RT: 13.85 min Scan# 3393

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 3110061

Ion Ratio Lower Upper

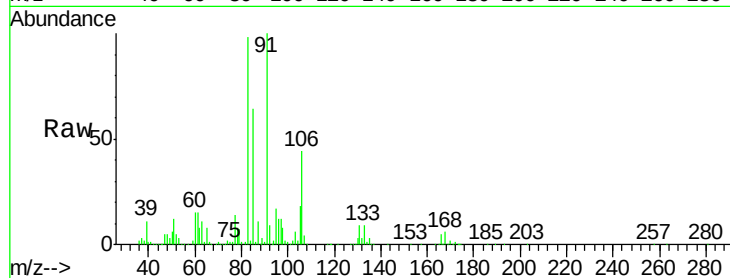
83 100

131 9.7 4.8 14.4

85 65.3 32.6 97.8

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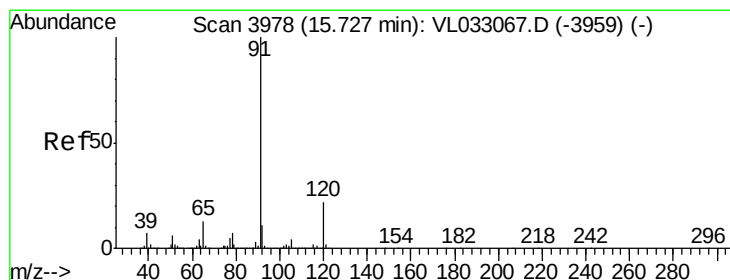
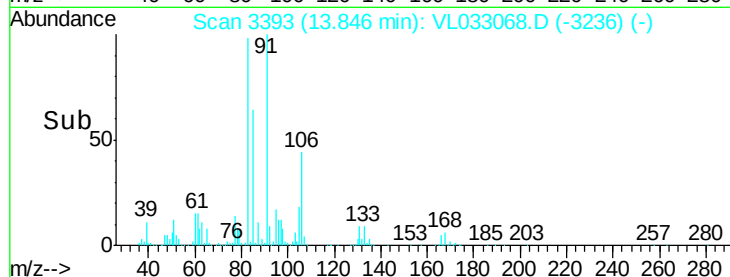
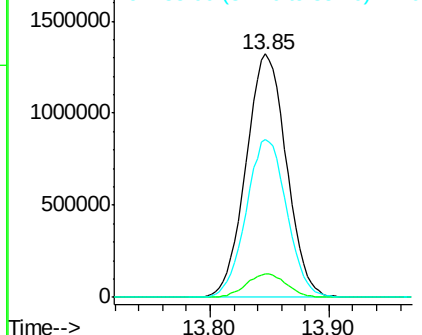
MMDadoda
1/8/2019 12:01:12 AM



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: 14.648 ppbv

RT: 15.73 min Scan# 3980

Delta R.T. 0.01 min

Lab File: VL033068.D

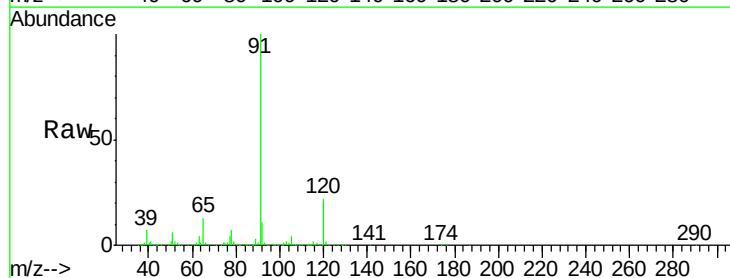
Acq: 4 Jan 2019 13:53

Tgt Ion:120 Resp: 1679617

Ion Ratio Lower Upper

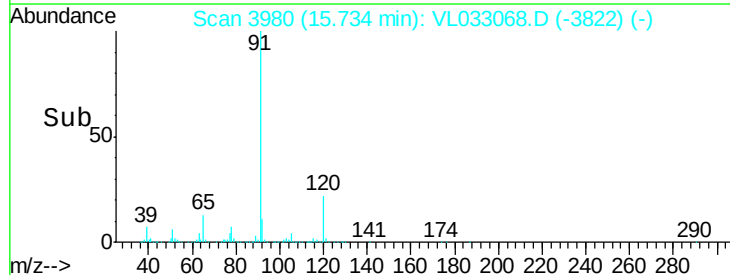
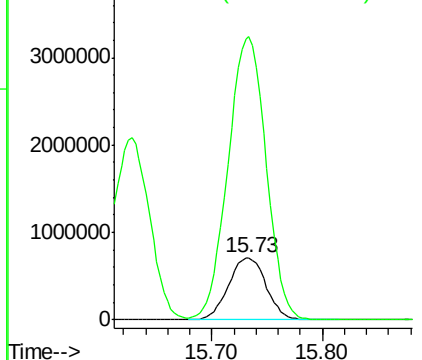
120 100

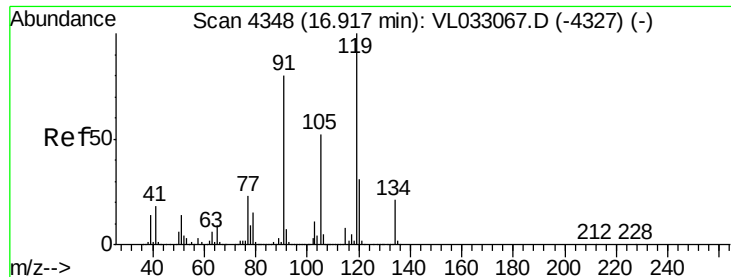
91 461.2 378.7 568.1



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





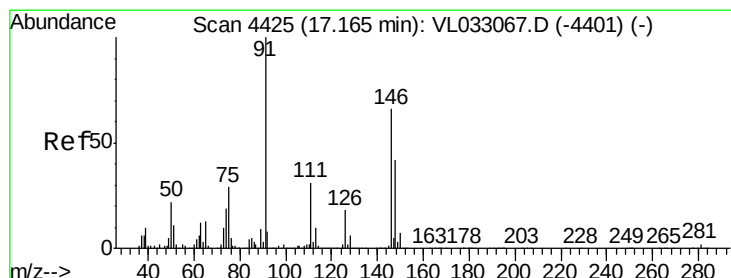
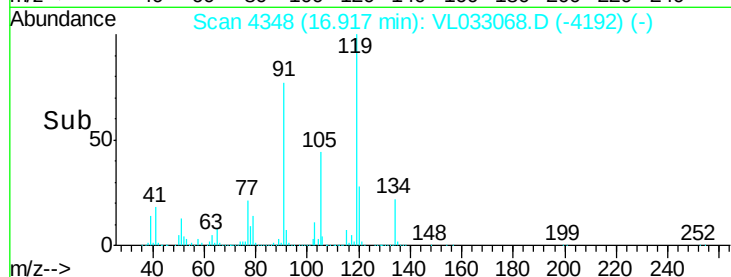
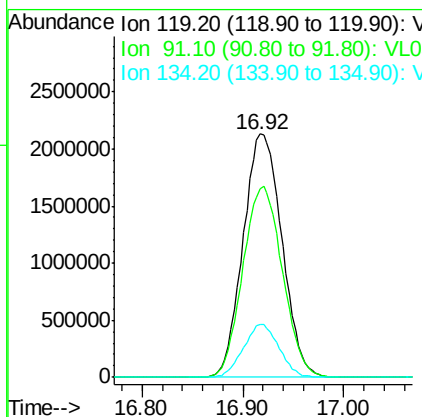
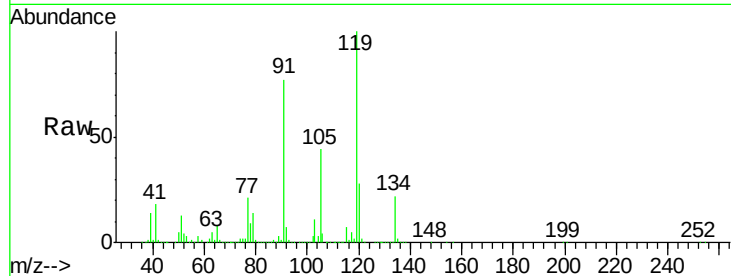
#65
 tert-Butylbenzene
 Concen: 13.724 ppbv
 RT: 16.92 min Scan# 4348
 Delta R.T. 0.00 min
 Lab File: VL033068.D
 Acq: 4 Jan 2019 13:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 119 Resp: 5680402
 Ion Ratio Lower Upper
 119 100
 91 80.1 64.6 97.0
 134 20.1 15.8 23.8

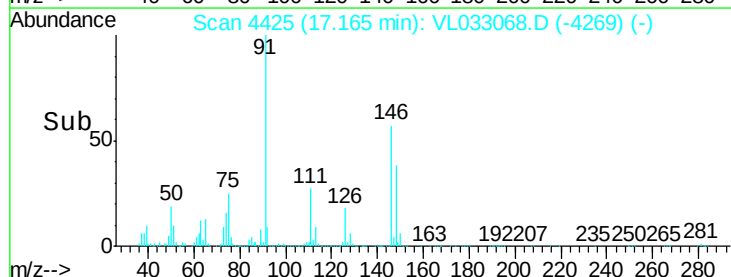
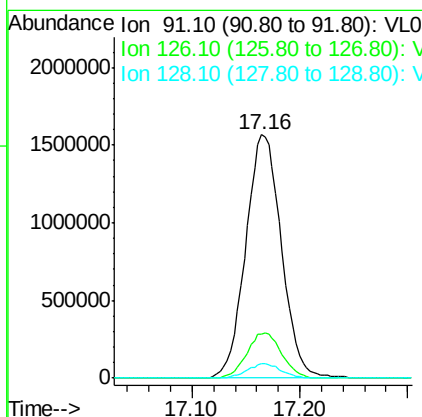
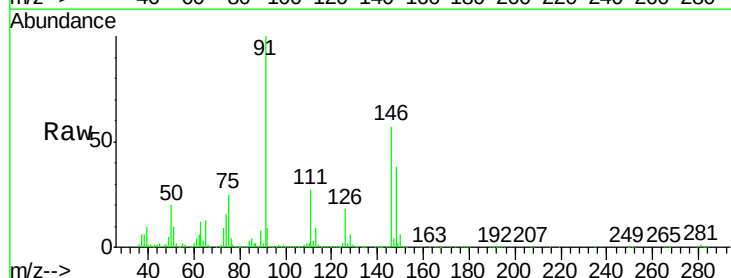
Manual Integrations
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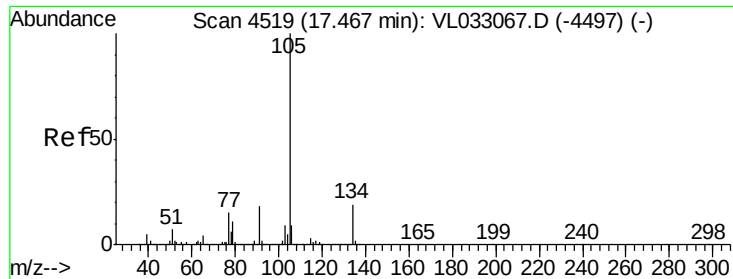
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#66
 Benzyl Chloride
 Concen: 15.459 ppbv
 RT: 17.16 min Scan# 4425
 Delta R.T. 0.00 min
 Lab File: VL033068.D
 Acq: 4 Jan 2019 13:53

Tgt Ion: 91 Resp: 3596574
 Ion Ratio Lower Upper
 91 100
 126 18.2 14.4 21.6
 128 5.8 4.5 6.7





#67

sec-Butylbenzene

Concen: 13.625 ppbv

RT: 17.47 min Scan# 4520

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 7951641

Ion Ratio Lower Upper

105 100

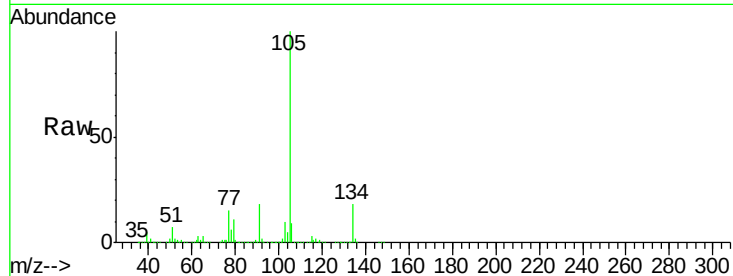
134 18.4 14.6 21.8

Manual Integrations

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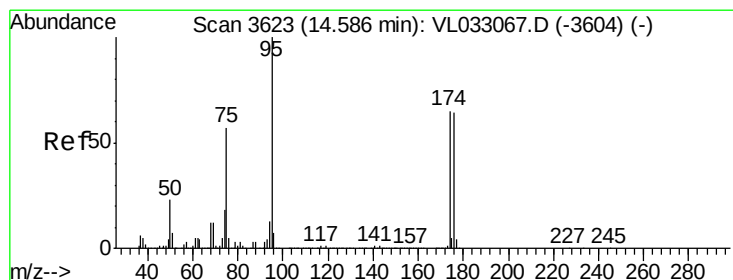
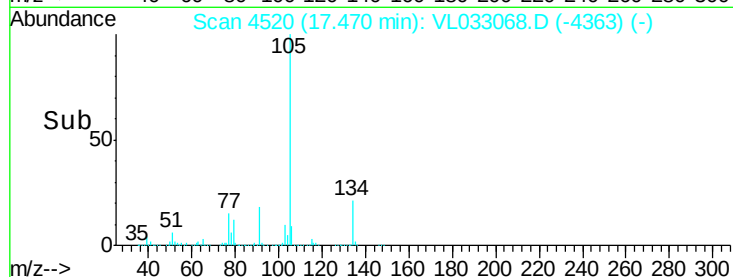
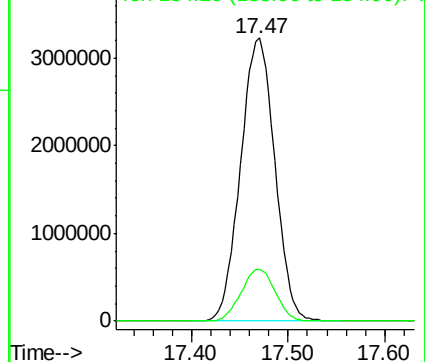
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.256 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

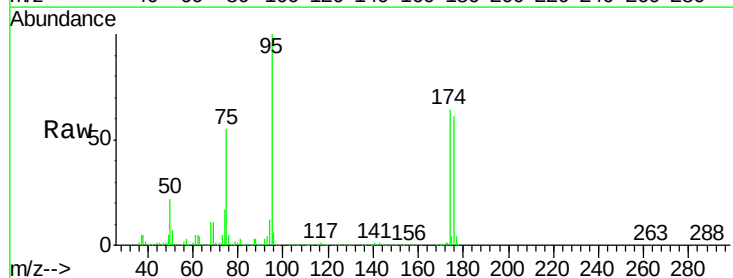
Tgt Ion: 95 Resp: 2230030

Ion Ratio Lower Upper

95 100

174 64.4 51.9 77.9

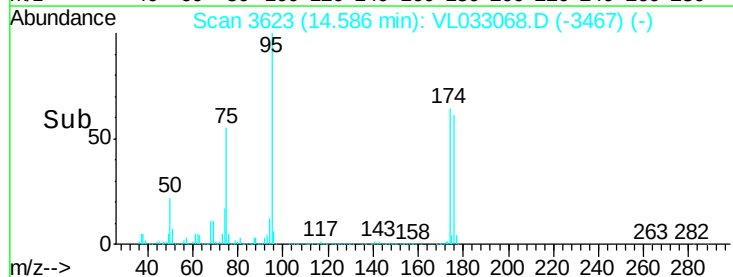
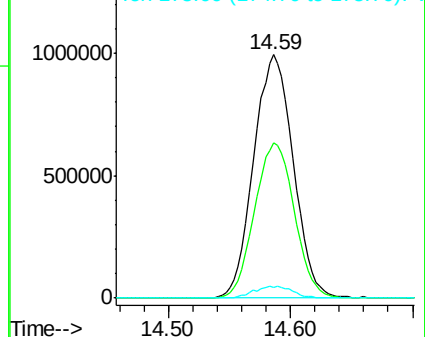
175 4.8 3.9 5.9

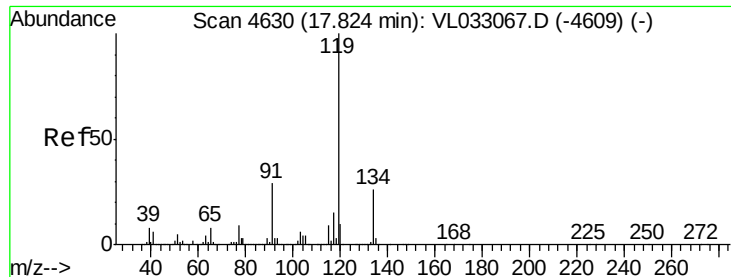


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





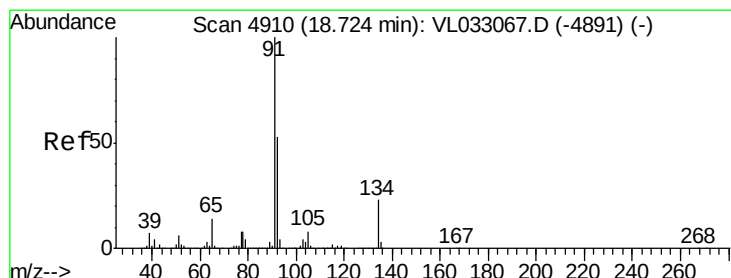
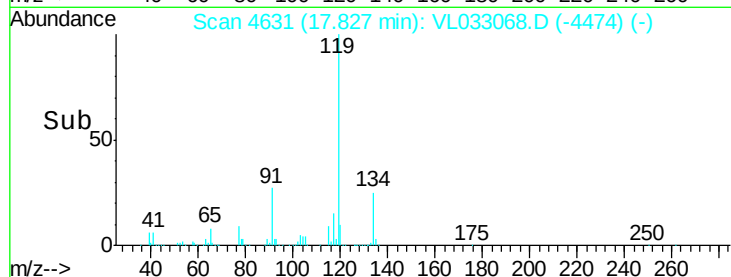
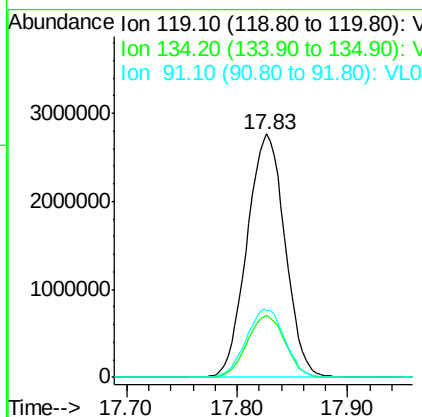
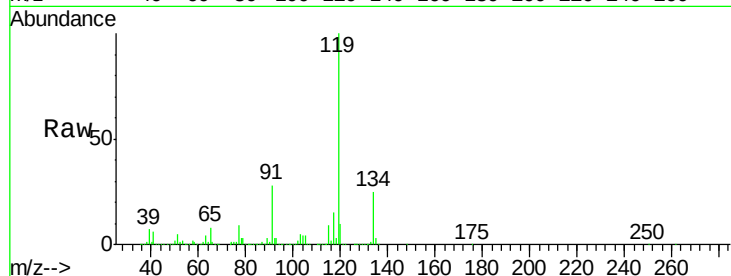
#69
 p-Isopropyltoluene
 Concen: 13.976 ppbv
 RT: 17.83 min Scan# 4631
 Delta R.T. 0.00 min
 Lab File: VL033068.D
 Acq: 4 Jan 2019 13:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.1	30.1
91	28.5	23.0	34.4

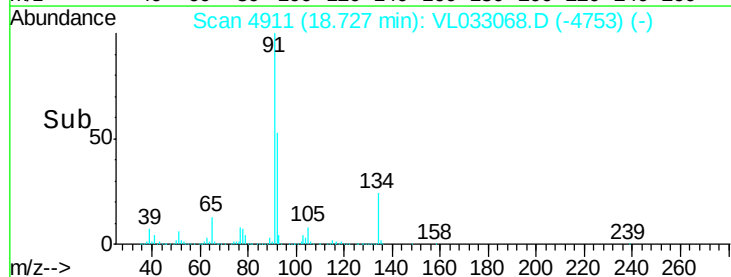
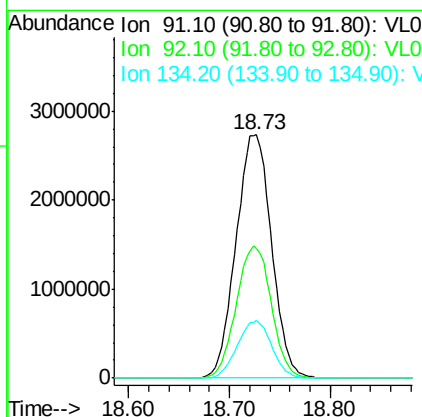
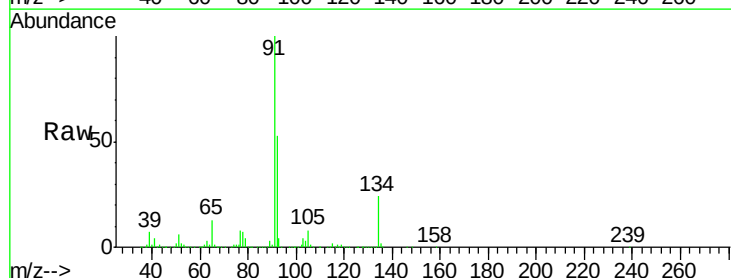
Manual Integrations
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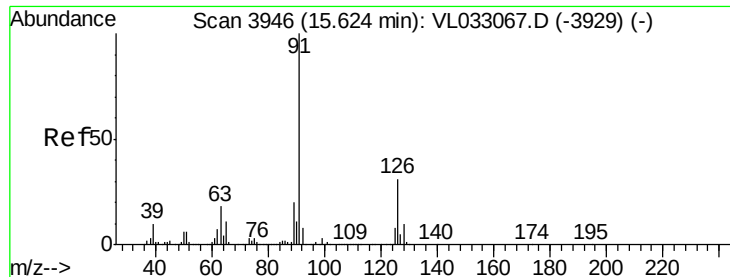
MMDadoda
 1/8/2019 12:01:12 AM



#70
 n-Butylbenzene
 Concen: 13.845 ppbv
 RT: 18.73 min Scan# 4911
 Delta R.T. 0.01 min
 Lab File: VL033068.D
 Acq: 4 Jan 2019 13:53

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.6	42.4	63.6
134	22.9	18.0	27.0





#71

2-Chlorotoluene

Concen: 14.674 ppbv

RT: 15.63 min Scan# 3947

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 4833546

Ion Ratio Lower Upper

91 100

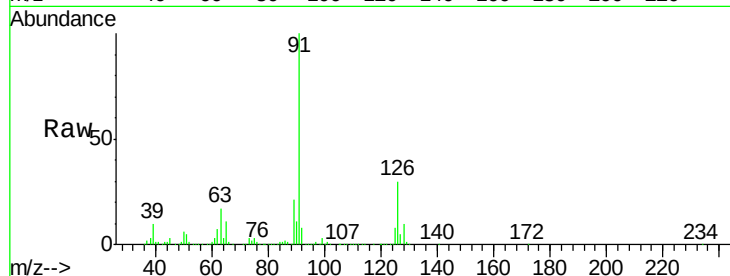
126 31.1 12.4 49.6

Manual Integrations

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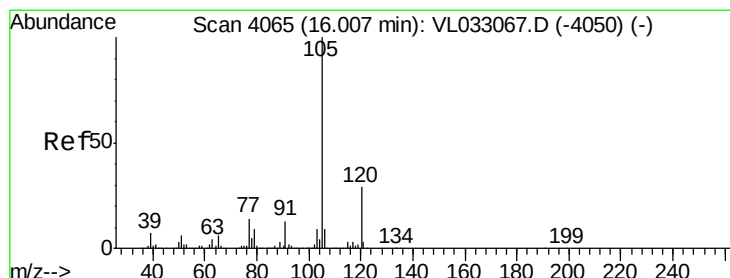
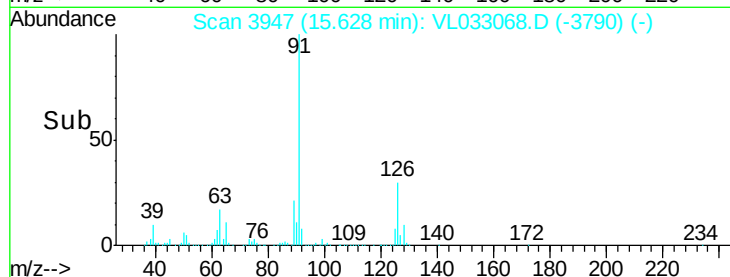
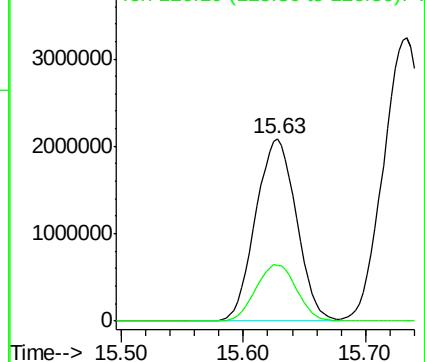
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 14.768 ppbv

RT: 16.01 min Scan# 4066

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Tgt Ion:105 Resp: 5357081

Ion Ratio Lower Upper

105 100

120 29.2 23.0 34.6

91 12.8 10.3 15.5

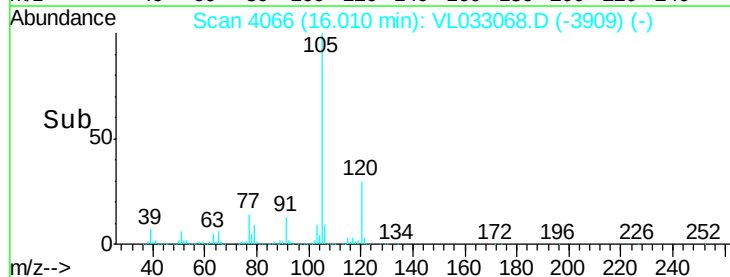
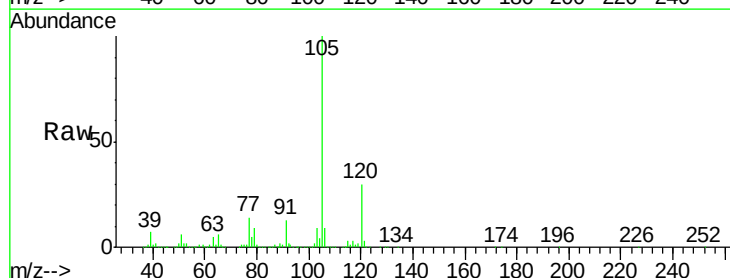
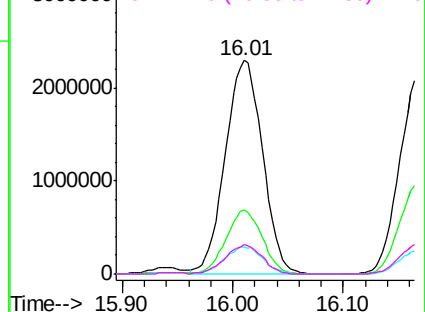
77 13.5 11.1 16.7

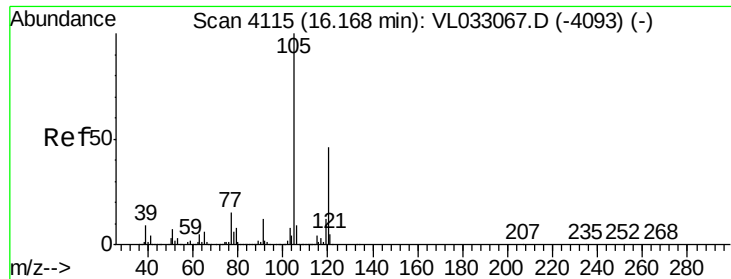
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 14.238 ppbv

RT: 16.17 min Scan# 4115

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 5041666

Ion Ratio Lower Upper

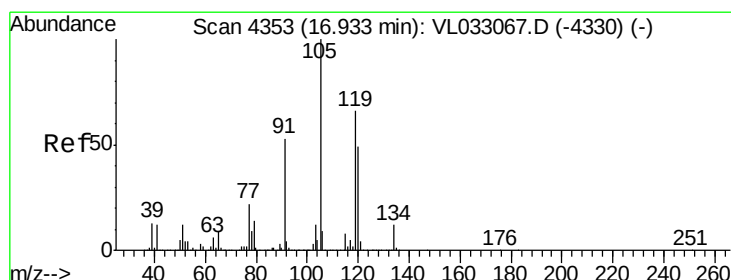
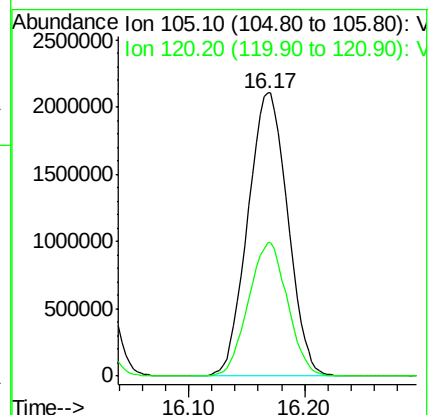
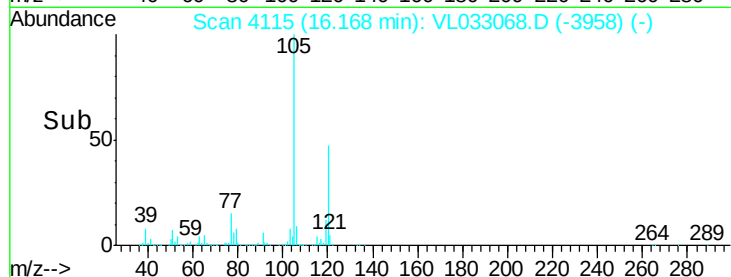
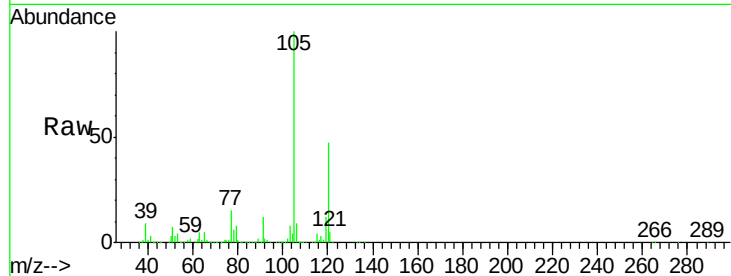
105 100

120 47.2 36.1 54.1

Manual Integrations
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#74

1,2,4-Trimethylbenzene

Concen: 13.202 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. 0.00 min

Lab File: VL033068.D

Acq: 4 Jan 2019 13:53

Tgt Ion:105 Resp: 5134695

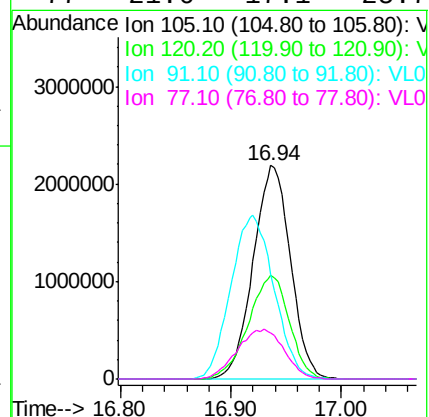
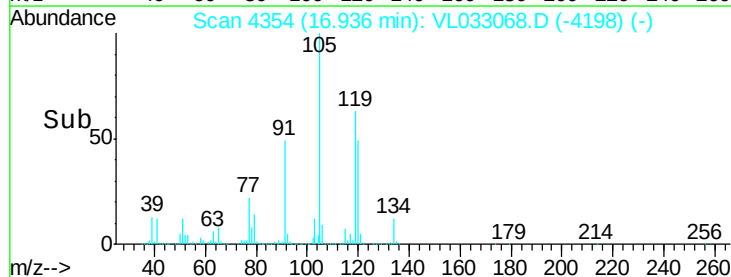
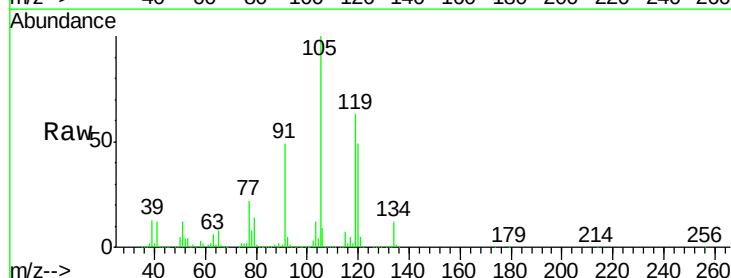
Ion Ratio Lower Upper

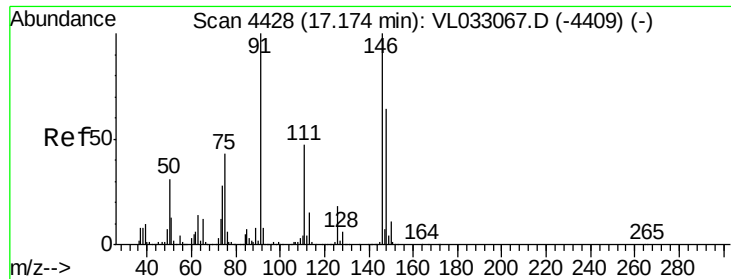
105 100

120 48.6 37.0 55.4

91 48.9 35.4 53.0

77 21.6 17.1 25.7





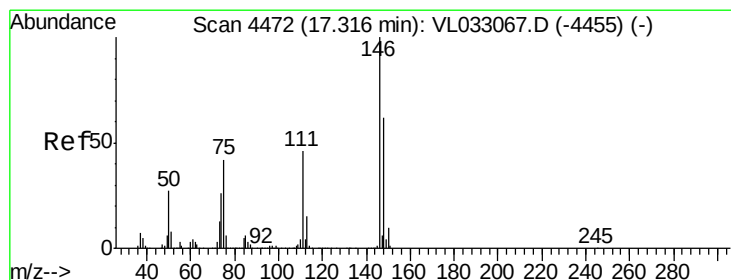
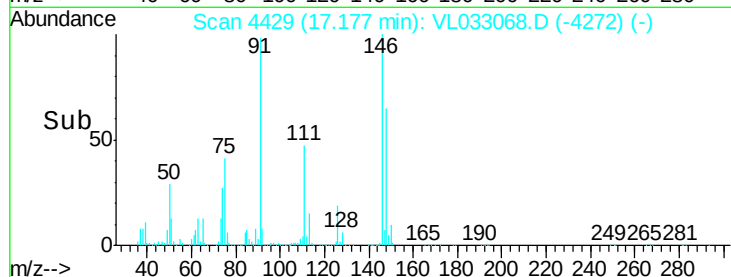
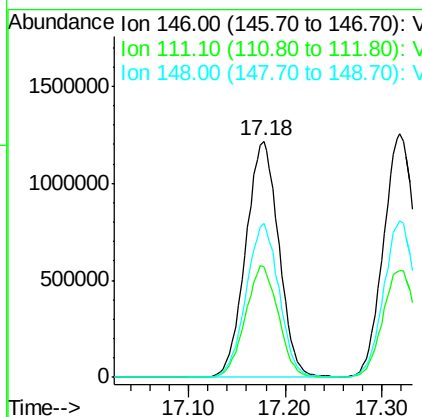
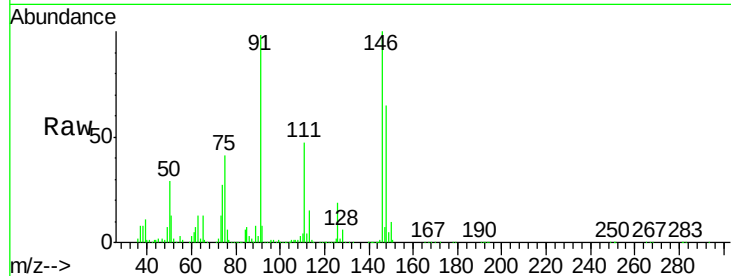
#75
 1,3-Dichlorobenzene
 Concen: 12.688 ppbv
 RT: 17.18 min Scan# 4429
 Delta R.T. 0.00 min
 Lab File: VL033068.D
 Acq: 4 Jan 2019 13:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:146 Resp: 2889729
 Ion Ratio Lower Upper
 146 100
 111 46.8 23.4 70.2
 148 64.7 32.1 96.3

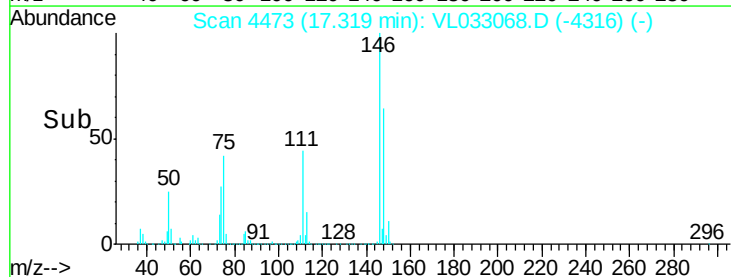
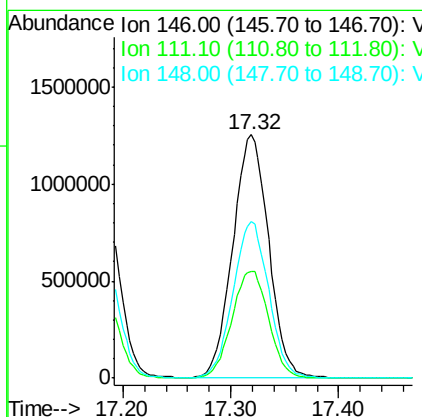
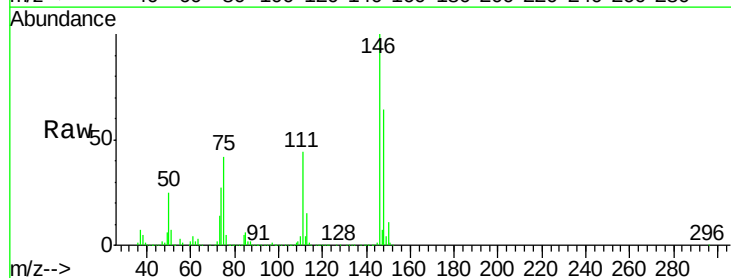
Manual Integrations
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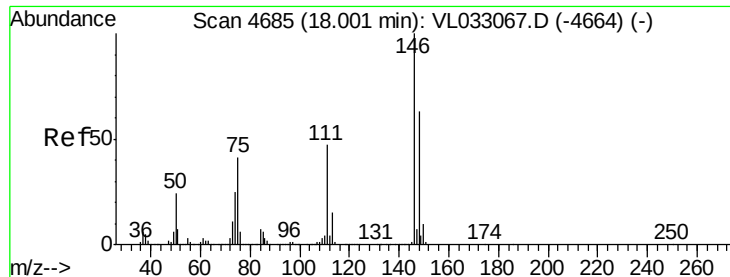
MMDadoda
 1/8/2019 12:01:12 AM



#76
 1,4-Dichlorobenzene
 Concen: 13.969 ppbv
 RT: 17.32 min Scan# 4473
 Delta R.T. 0.00 min
 Lab File: VL033068.D
 Acq: 4 Jan 2019 13:53

Tgt Ion:146 Resp: 2894123
 Ion Ratio Lower Upper
 146 100
 111 45.1 22.7 68.1
 148 64.3 32.4 97.2





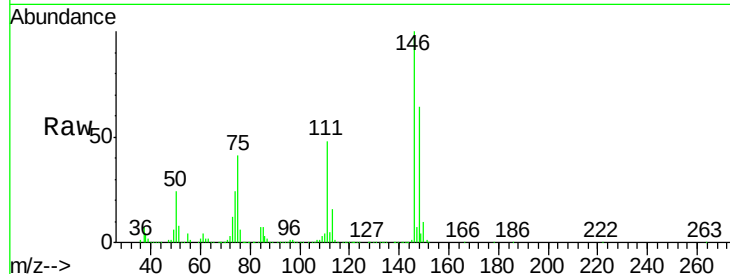
#77
 1,2-Dichlorobenzene
 Concen: 13.289 ppbv
 RT: 18.00 min Scan# 4684
 Delta R.T. 0.00 min
 Lab File: VL033068.D
 Acq: 4 Jan 2019 13:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

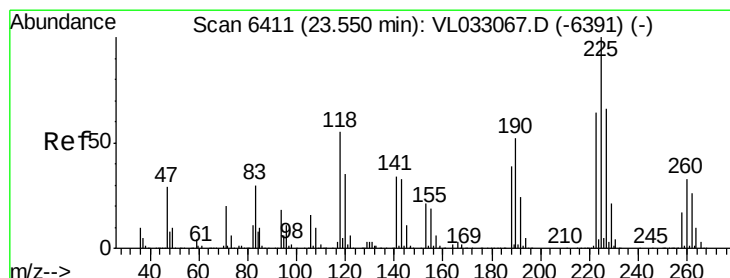
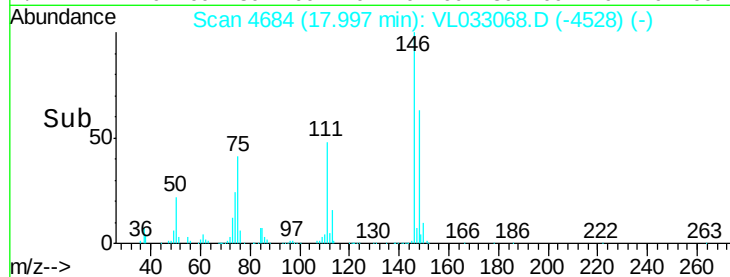
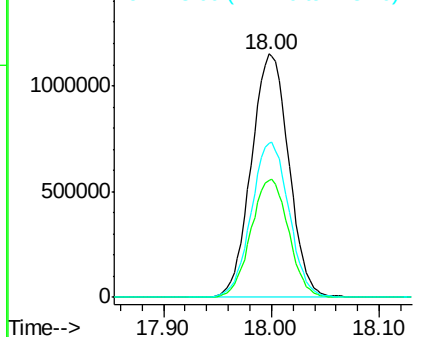
Tot Ion:146 Resp: 2770370
 Ion Ratio Lower Upper
 146 100
 111 48.7 24.4 73.2
 148 64.1 32.3 96.9

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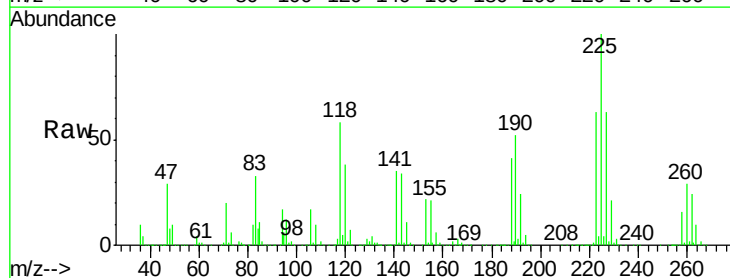


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

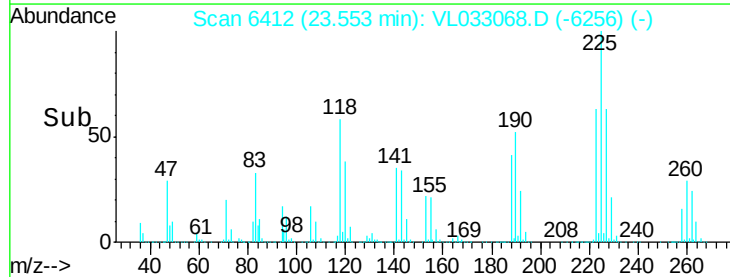
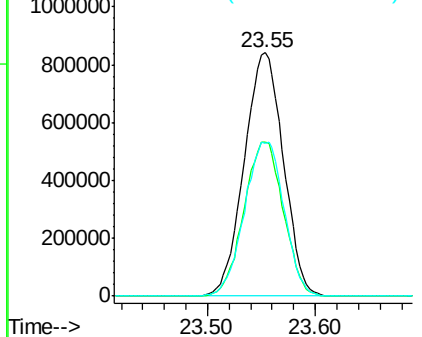


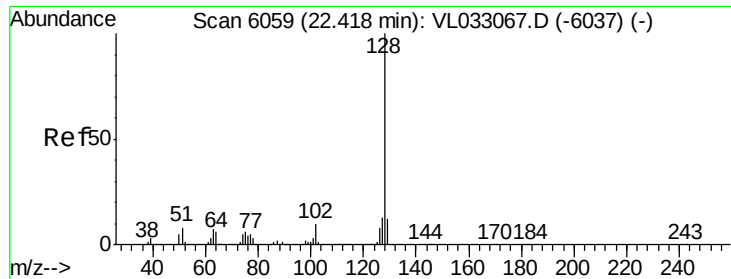
#78
 Hexachloro-1,3-Butadiene
 Concen: 14.489 ppbv
 RT: 23.55 min Scan# 6412
 Delta R.T. 0.00 min
 Lab File: VL033068.D
 Acq: 4 Jan 2019 13:53

Tgt Ion:225 Resp: 2122913
 Ion Ratio Lower Upper
 225 100
 223 63.7 51.0 76.6
 227 64.3 51.0 76.4



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





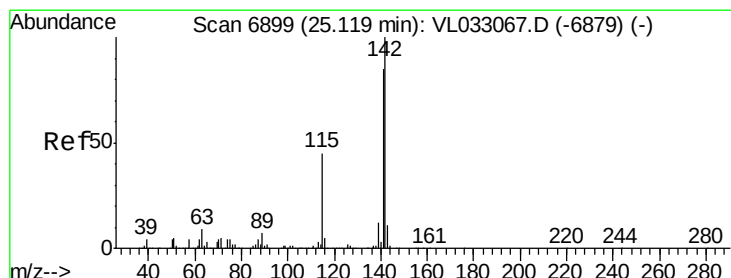
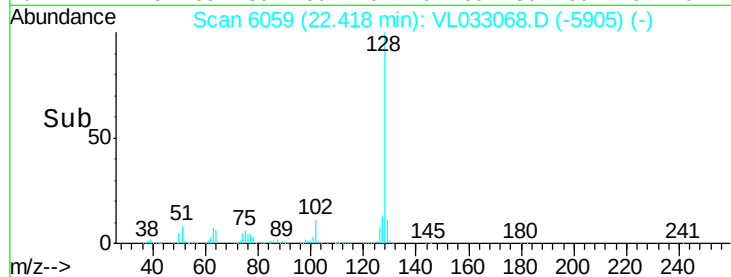
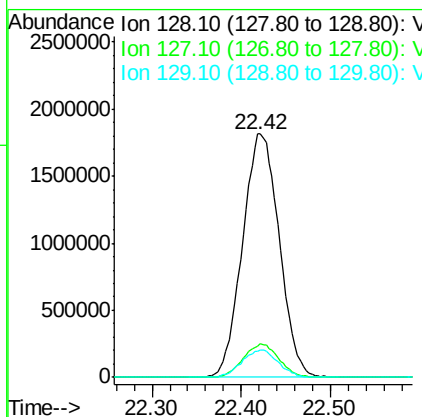
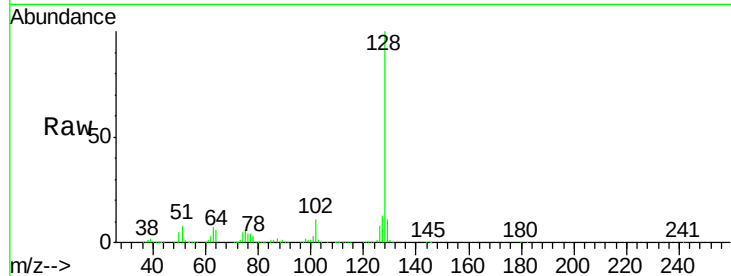
#79
Naphthalene
Concen: 14.733 ppbv
RT: 22.42 min Scan# 6059
Delta R.T. -0.01 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	11.0	16.6
129	10.7	9.4	14.0

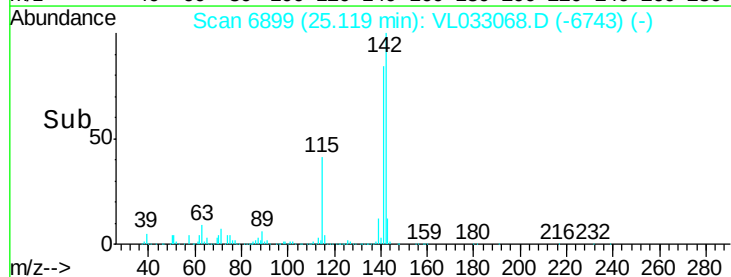
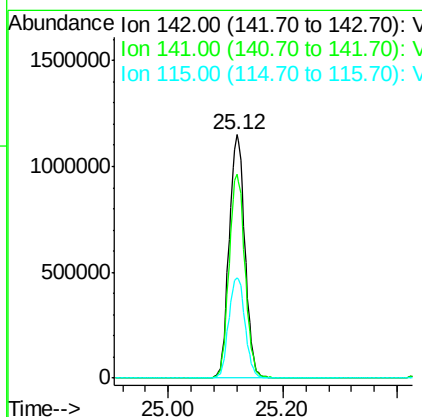
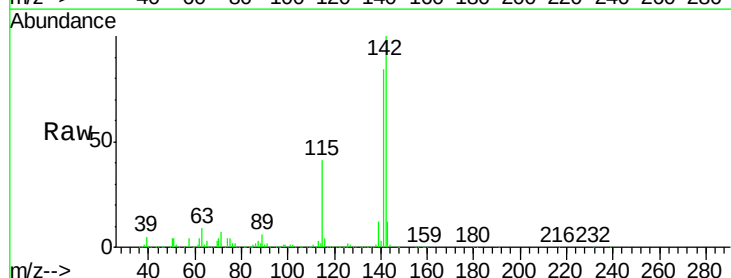
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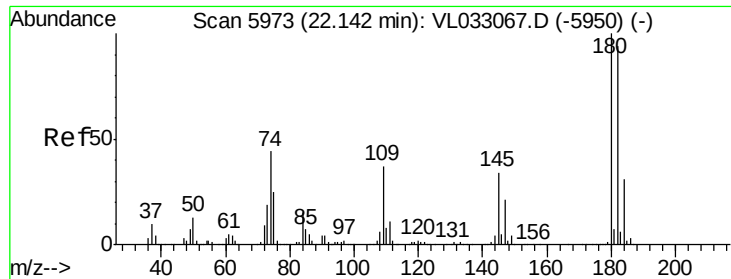
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#80
Naphthalene, 2-methyl-
Concen: 22.404 ppbv
RT: 25.12 min Scan# 6899
Delta R.T. 0.00 min
Lab File: VL033068.D
Acq: 4 Jan 2019 13:53

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.4	68.6	103.0
115	42.6	35.6	53.4





#81
 1,2,4-Trichlorobenzene
 Concen: 15.020 ppbv
 RT: 22.15 min Scan# 5975
 Delta R.T. 0.00 min
 Lab File: VL033068.D
 Acq: 4 Jan 2019 13:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.1	114.1
184	30.5	24.6	37.0

Manual Integrations
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