

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010419\
 Data File : VL033062.D
 Acq On : 4 Jan 2019 9:55
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:01:03 AM

Quant Time: Jan 04 11:56:49 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	5.76	49	1509415	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3682830	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3507744	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2626909	10.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	368607	1.095	ppbv	97
3) Chlorodifluoromethane	3.01	51	319648	1.740	ppbv	100
4) Chloromethane	3.17	50	187613	1.757	ppbv	93
5) Vinyl Chloride	3.29	62	180160	1.589	ppbv	99
6) Bromomethane	3.52	94	122768	1.779	ppbv	94
7) Chloroethane	3.60	64	69244	1.777	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	472170	1.761	ppbv	99
9) Propene	3.04	41	118688	1.665	ppbv	97
10) Heptane	8.25	43	401802	2.203	ppbv	99
11) Trichlorofluoromethane	4.01	101	763185	2.578	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	346479	1.731	ppbv	99
13) Ethanol	3.65	45	49964	1.799	ppbv	95
14) Bromoethene	3.79	108	166347	1.952	ppbv	99
15) Acetone	3.90	43	523688	2.653	ppbv	100
16) 1,3-Butadiene	3.36	39	166800	1.939	ppbv	90
17) tert-Butyl alcohol	4.36	59	79976m	1.814	ppbv	
18) 1,1-Dichloroethene	4.35	96	166972	1.862	ppbv	97
19) Isopropyl Alcohol	4.03	45	367587m	2.787	ppbv	
20) Methylene Chloride	4.41	84	151388	1.733	ppbv	93
21) Allyl Chloride	4.48	41	220282	1.641	ppbv	94
22) trans-1,2-Dichloroethene	4.96	96	190168	2.172	ppbv	95
23) Vinyl Acetate	5.15	43	576936	2.115	ppbv #	99
24) 1,1-Dichloroethane	5.09	63	489783	2.163	ppbv	99
25) Ethyl Acetate	5.77	43	777239	2.199	ppbv	100
26) Hexane	5.78	57	378028	2.256	ppbv	97
27) Carbon Disulfide	4.62	76	367587	1.755	ppbv	97
28) Methyl tert-Butyl Ether	5.12	73	571296	2.177	ppbv	99
29) Chloroform	5.85	83	628957	2.264	ppbv	97
30) Cyclohexane	7.25	84	275822	2.192	ppbv	87
31) cis-1,2-Dichloroethene	5.64	61	339755	2.189	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	613304	2.092	ppbv	98
34) 2-Butanone	5.33	43	481553	2.240	ppbv	100
35) Carbon Tetrachloride	7.13	117	678470	2.134	ppbv	96
36) Benzene	7.01	78	668184	2.205	ppbv	96
37) 1,2-Dichloroethane	6.41	62	456982	2.217	ppbv	99
38) Trichloroethene	7.96	130	289459	2.287	ppbv	99
39) 1,2-Dichloropropane	7.74	63	242381	2.132	ppbv	99
40) 1,4-Dioxane	7.97	88	95605m	2.216	ppbv	
41) Tetrahydrofuran	6.15	42	243052	2.217	ppbv	99
42) Bromodichloromethane	7.92	83	641646	2.163	ppbv	95
43) Methyl Methacrylate	8.14	69	253266	2.242	ppbv	95

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Manual Integrations
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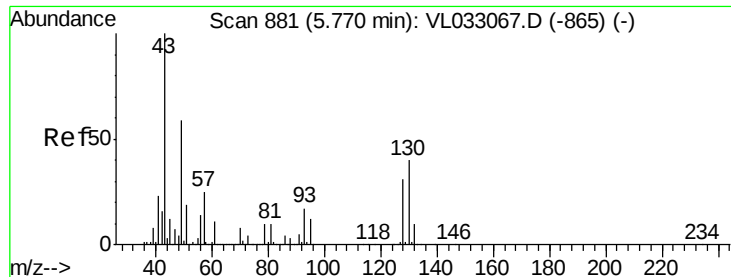
MMDadoda
 1/8/2019 12:01:03 AM

Quant Time: Jan 04 11:56:49 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)

44) 2,2,4-Trimethylpentane	7.99	57	1167088	2.175	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	301916	1.934	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	302819	1.784	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	279445	2.036	ppbv	98
48) Dibromochloromethane	10.45	129	521194	2.290	ppbv	99
49) Bromoform	13.20	173	458891	2.188	ppbv	98
50) 4-Methyl-2-Pentanone	8.87	43	511021	1.768	ppbv	100
51) 2-Hexanone	10.28	43	454735	2.328	ppbv #	98
52) Tetrachloroethene	11.37	164	237998	2.170	ppbv	93
53) Toluene	9.95	91	726700	2.330	ppbv	100
54) 1,2-Dibromoethane	10.76	107	430551	2.160	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	392821	2.213	ppbv #	1
57) Chlorobenzene	12.30	112	630423	2.217	ppbv	98
58) Ethyl Benzene	12.87	91	1022753	2.370	ppbv	95
59) m/p-Xylene	13.12	91	1850483m	4.618	ppbv	
60) o-Xylene	13.85	91	911721	2.327	ppbv	99
61) Styrene	13.69	104	599037	2.371	ppbv	98
62) Isopropylbenzene	14.83	105	1295095	2.315	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.84	83	663077	2.162	ppbv	99
64) n-propylbenzene	15.72	120	332050	2.407	ppbv	94
65) tert-Butylbenzene	16.91	119	1193704	2.397	ppbv	96
66) Benzyl Chloride	17.16	91	643601	2.299	ppbv	100
67) sec-Butylbenzene	17.46	105	1687190	2.403	ppbv	100
69) p-Isopropyltoluene	17.82	119	1397956	2.461	ppbv	99
70) n-Butylbenzene	18.72	91	1433225	2.472	ppbv	99
71) 2-Chlorotoluene	15.62	91	957376	2.415	ppbv	97
72) 4-Ethyltoluene	16.00	105	1030942	2.362	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	1015137	2.383	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	1113600	2.380	ppbv	94
75) 1,3-Dichlorobenzene	17.16	146	639267	2.333	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	602224m	2.416	ppbv	
77) 1,2-Dichlorobenzene	17.99	146	598053	2.384	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	535153	3.035	ppbv	99
79) Naphthalene	22.42	128	1000607	2.353	ppbv	97
80) Naphthalene, 2-methyl-	25.12	142	325004	2.757	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	476113m	2.459	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 1509415

Ion Ratio Lower Upper

49 100

128 52.0 26.2 78.5

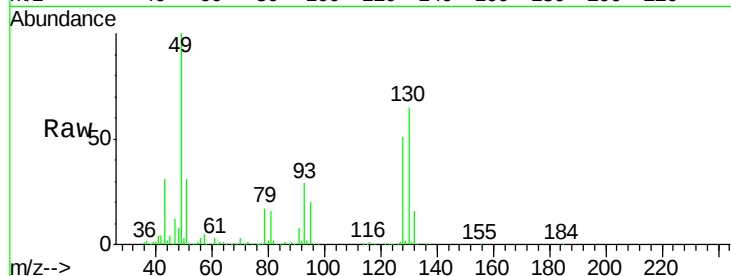
130 67.7 33.6 100.6

Manual Integrations

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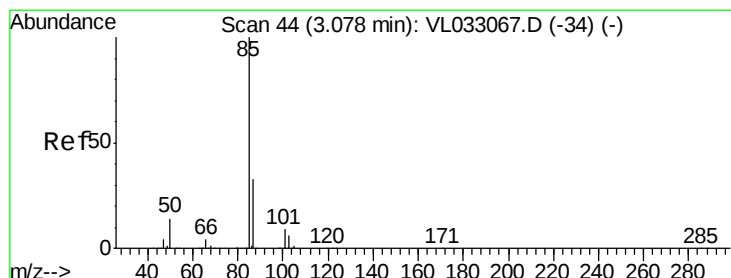
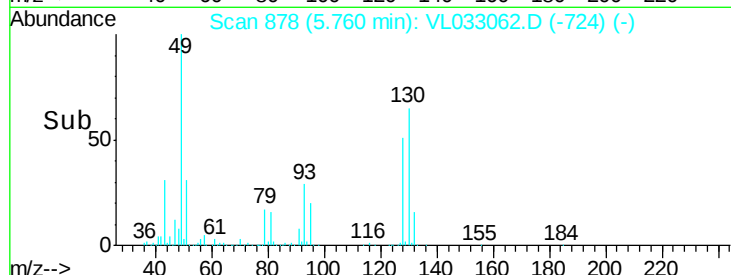
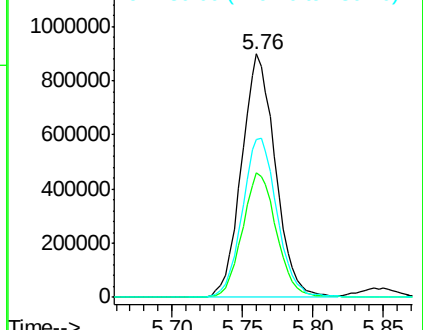
1/8/2019 12:01:03 AM



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: 1.095 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033062.D

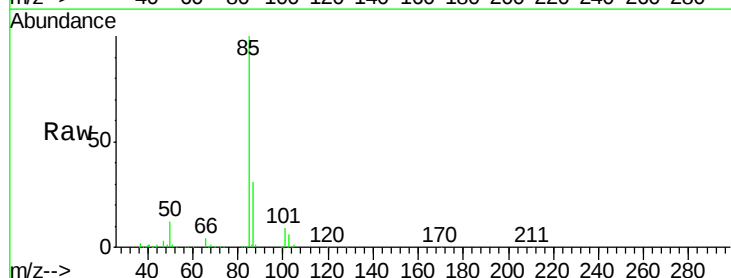
Acq: 4 Jan 2019 9:55

Tgt Ion: 85 Resp: 368607

Ion Ratio Lower Upper

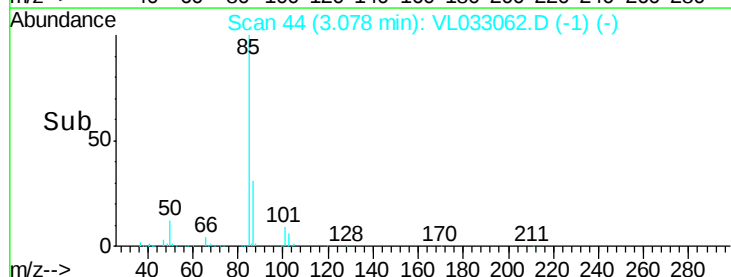
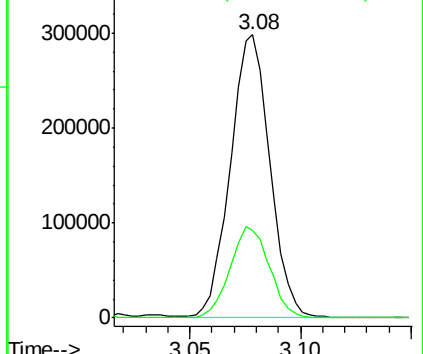
85 100

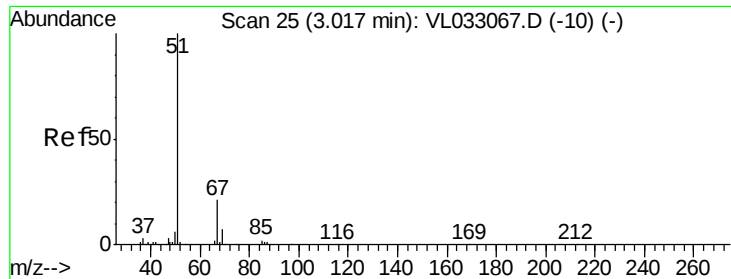
87 31.2 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.740 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Tot Ion: 51 Resp: 319648

Ion Ratio Lower Upper

51 100

67 20.3 16.3 24.5

Instrument :

MSVOA_L

ClientSampleId :

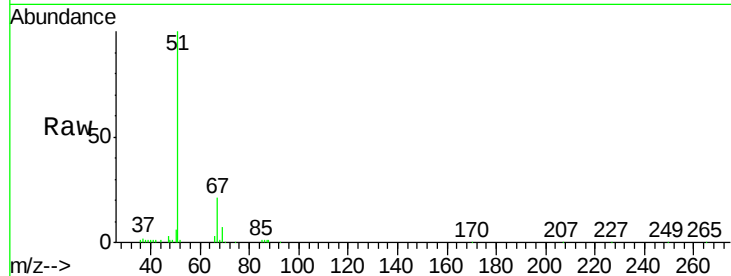
VSTDIC002

Manual Integrations

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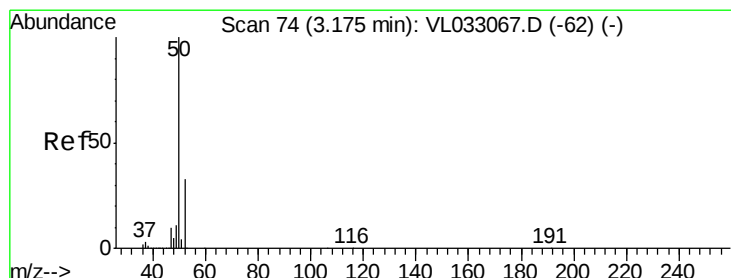
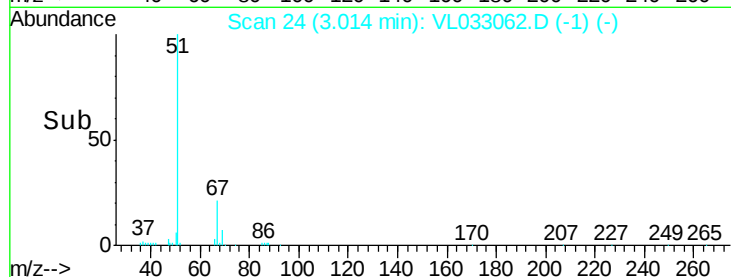
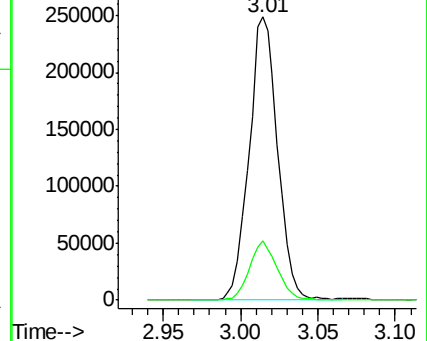
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.757 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033062.D

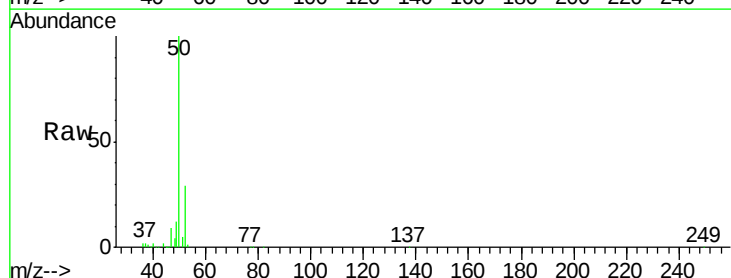
Acq: 4 Jan 2019 9:55

Tgt Ion: 50 Resp: 187613

Ion Ratio Lower Upper

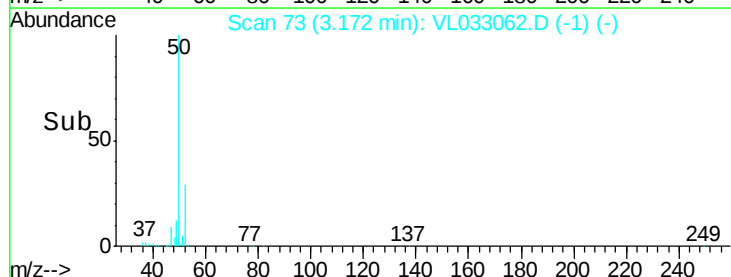
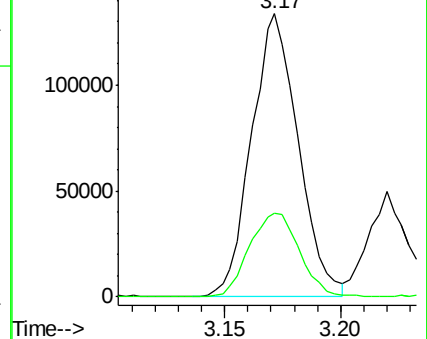
50 100

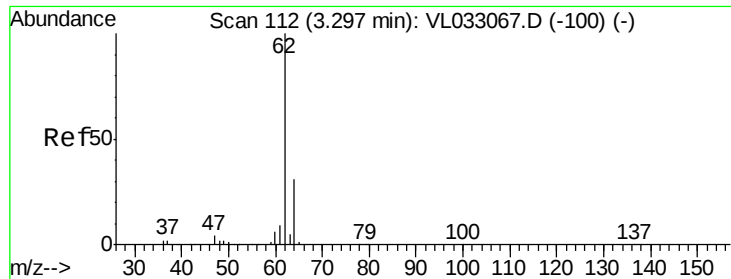
52 29.5 26.9 40.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 1.589 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 180160

Ion Ratio Lower Upper

62 100

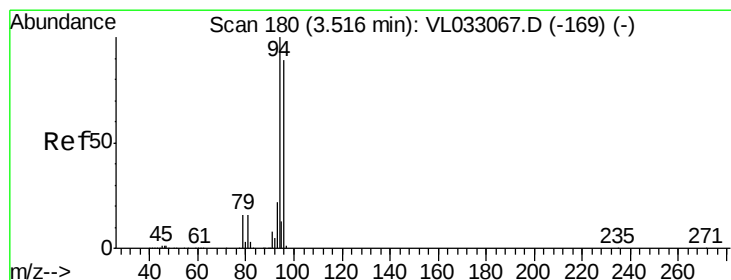
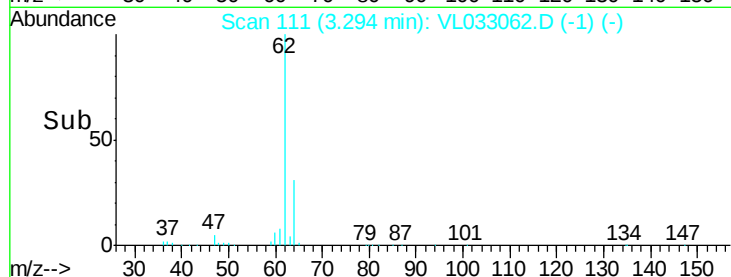
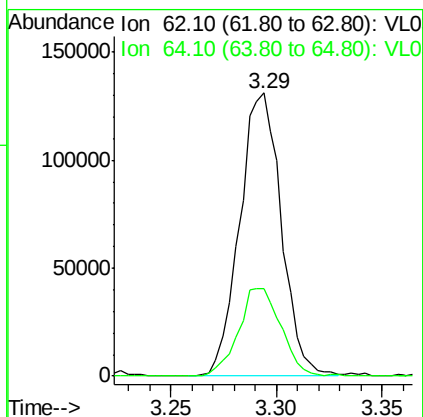
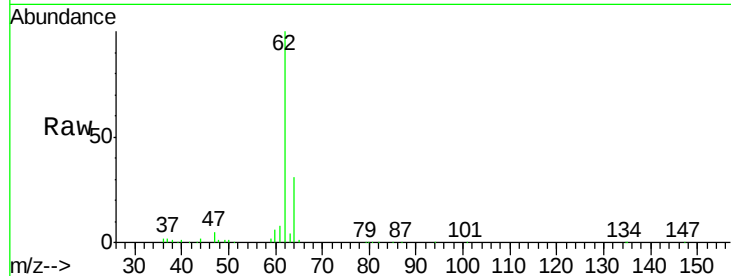
64 31.0 25.3 37.9

Manual Integrations

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#6

Bromomethane

Concen: 1.779 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033062.D

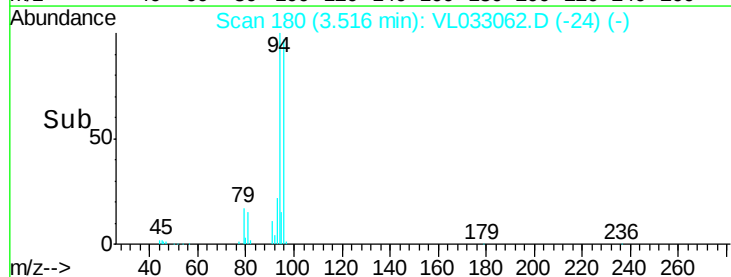
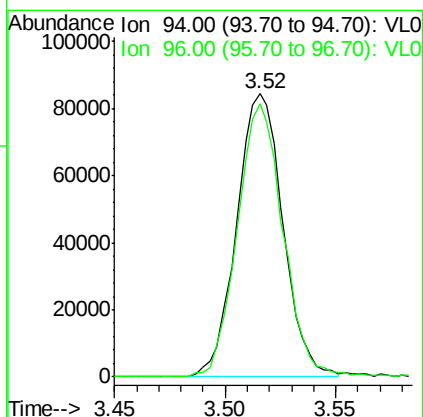
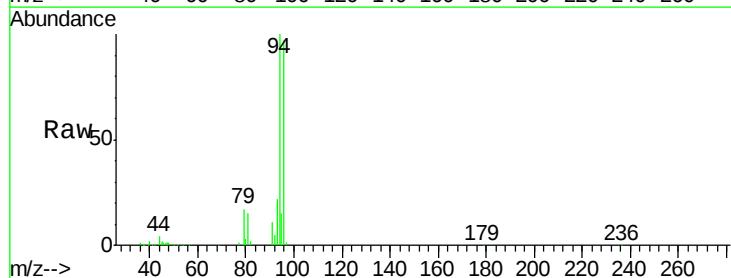
Acq: 4 Jan 2019 9:55

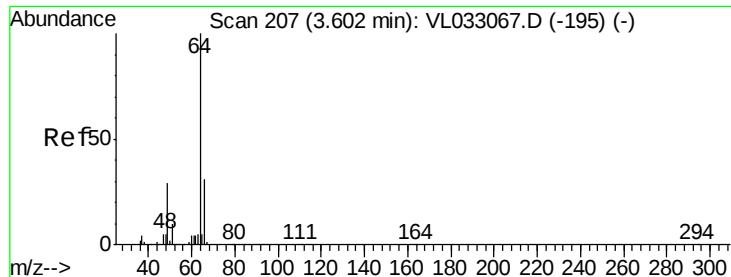
Tgt Ion: 94 Resp: 122768

Ion Ratio Lower Upper

94 100

96 96.4 72.8 109.2





#7

Chloroethane

Concen: 1.777 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 69244

Ion Ratio Lower Upper

64 100

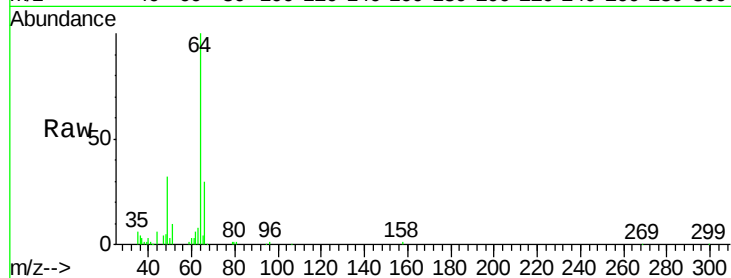
66 30.7 23.7 35.5

Manual Integrations

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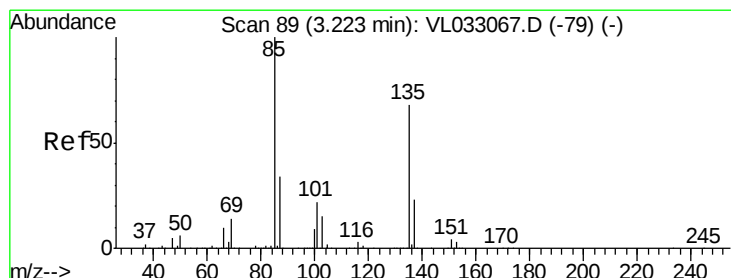
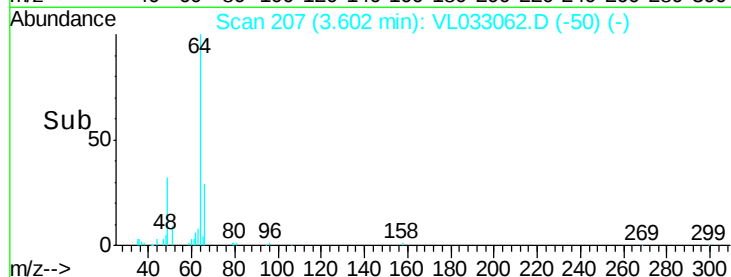
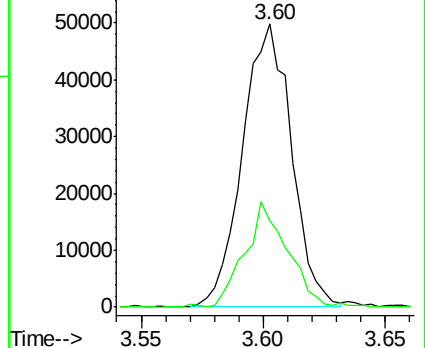
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 1.761 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033062.D

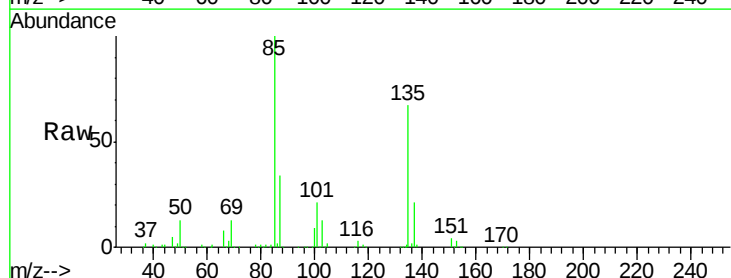
Acq: 4 Jan 2019 9:55

Tgt Ion: 85 Resp: 472170

Ion Ratio Lower Upper

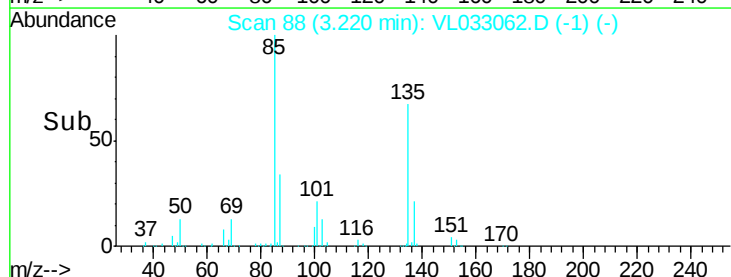
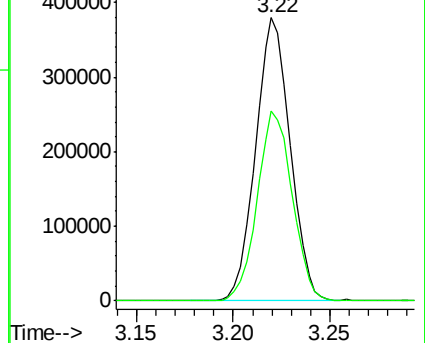
85 100

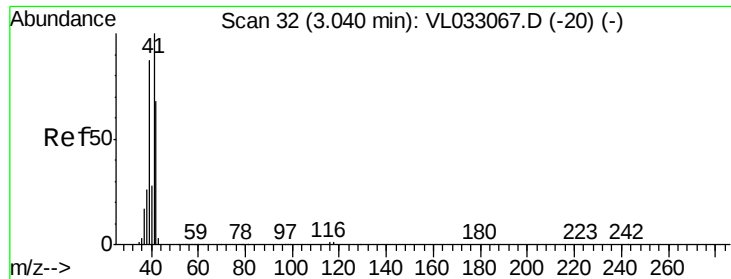
135 68.2 54.9 82.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 1.665 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 41 Resp: 118688

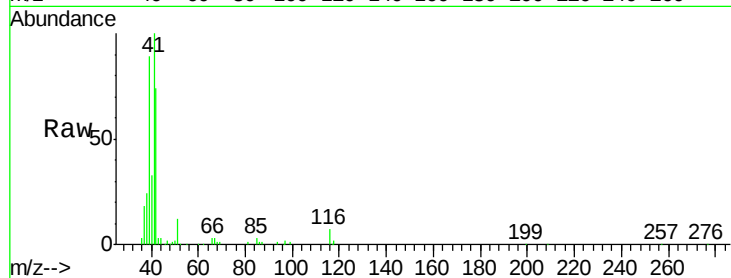
Ion Ratio Lower Upper

41 100

42 71.4 55.3 82.9

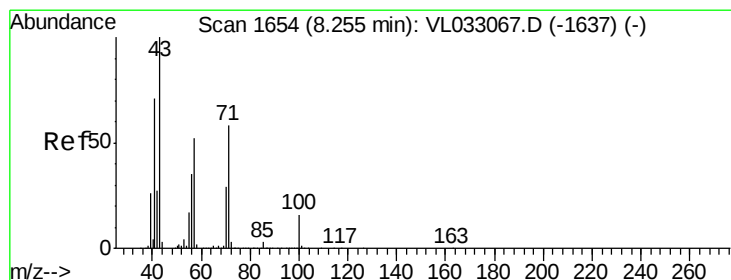
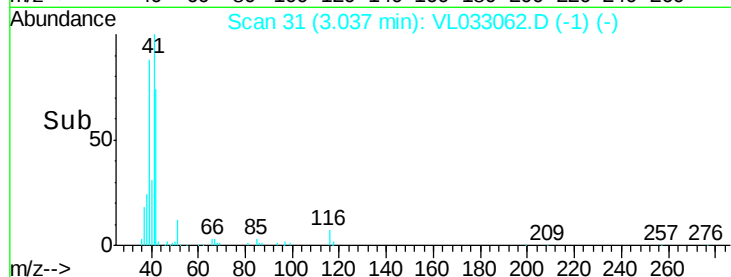
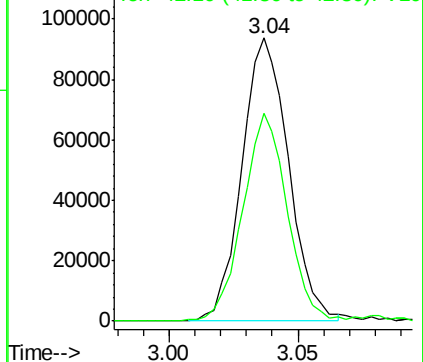
Manual Integrations
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1/8/2019 12:01:03 AM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 2.203 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033062.D

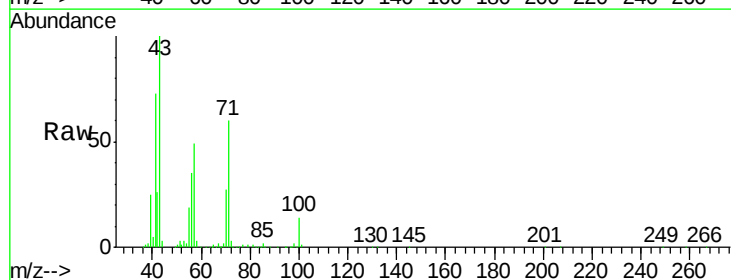
Acq: 4 Jan 2019 9:55

Tgt Ion: 43 Resp: 401802

Ion Ratio Lower Upper

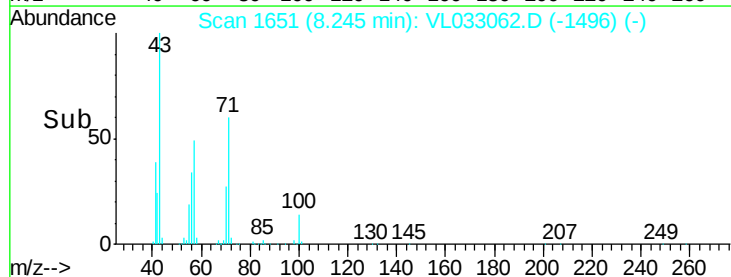
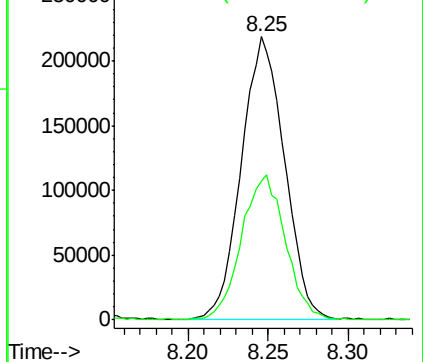
43 100

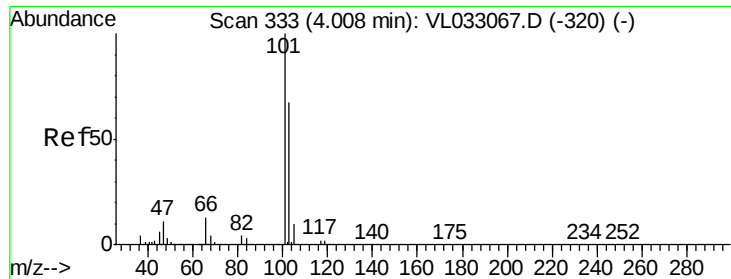
57 52.0 41.9 62.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





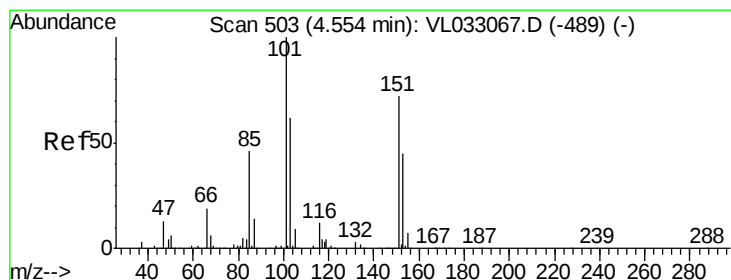
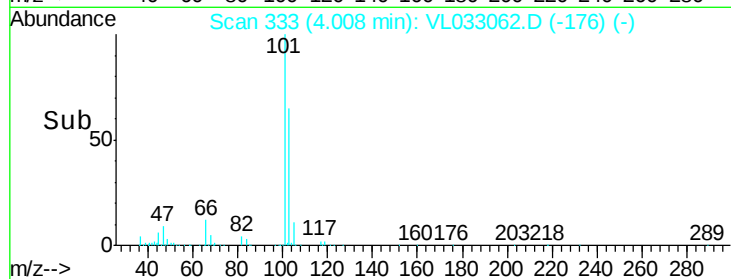
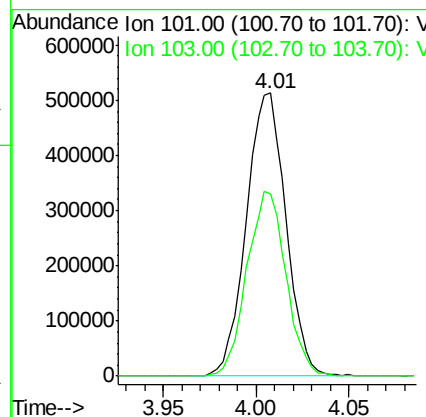
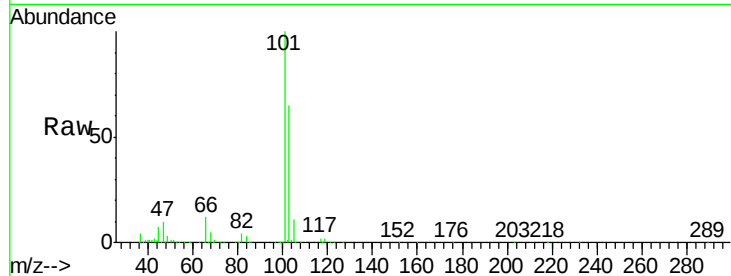
#11
 Trichlorofluoromethane
 Concen: 2.578 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VL033062.D
 Acq: 4 Jan 2019 9:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.5	51.7	77.5

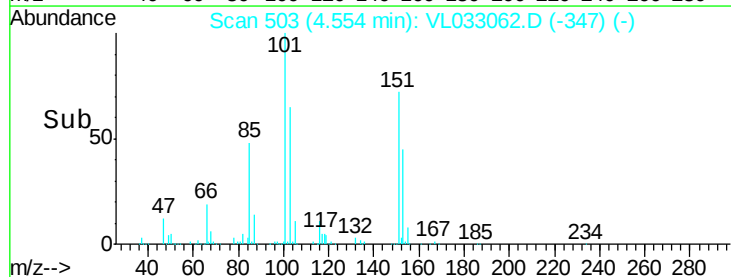
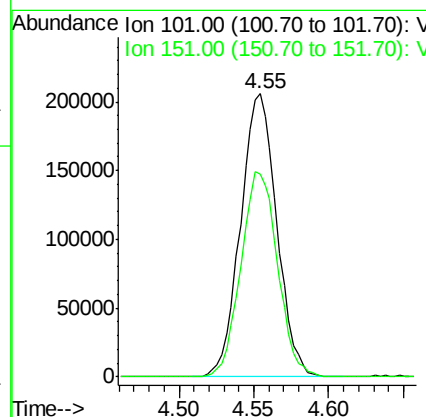
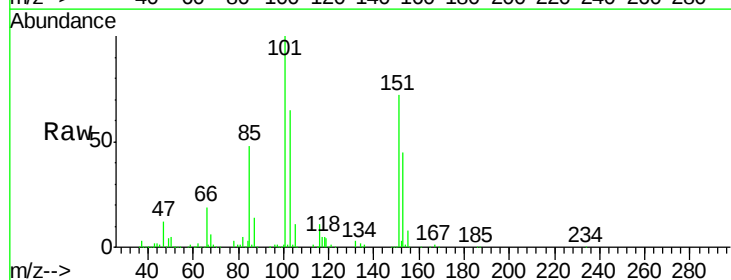
Manual Integrations
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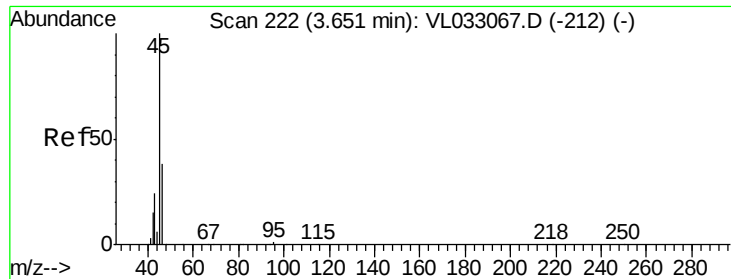
MMDadoda
 1/8/2019 12:01:03 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.731 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033062.D
 Acq: 4 Jan 2019 9:55

Tgt Ion	Ratio	Lower	Upper
101	100		
151	73.5	58.3	87.5





#13

Ethanol

Concen: 1.799 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 45 Resp: 49964

Ion Ratio Lower Upper

45 100

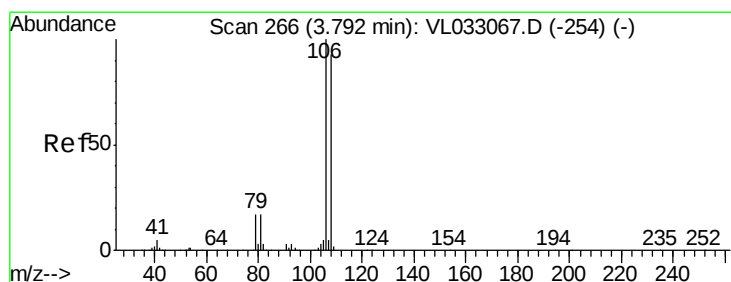
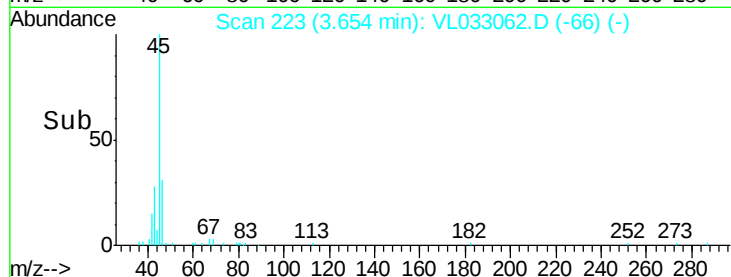
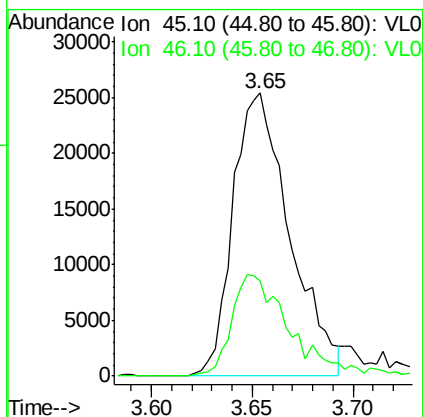
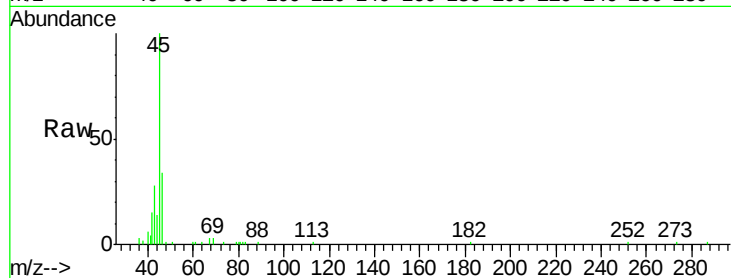
46 37.4 13.8 55.2

Manual Integrations

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#14

Bromoethene

Concen: 1.952 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

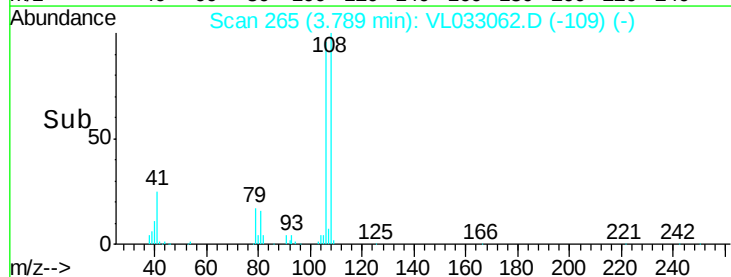
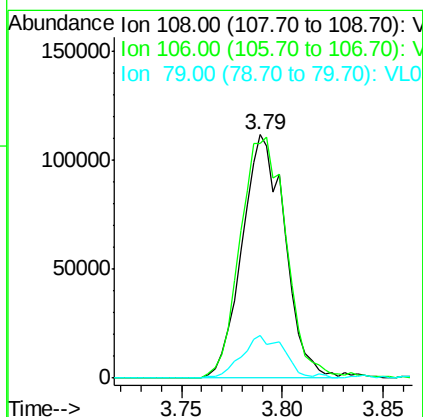
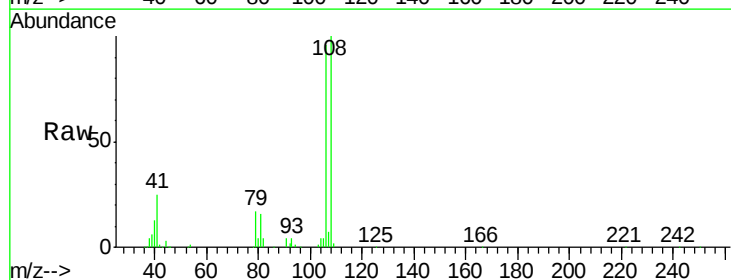
Tgt Ion: 108 Resp: 166347

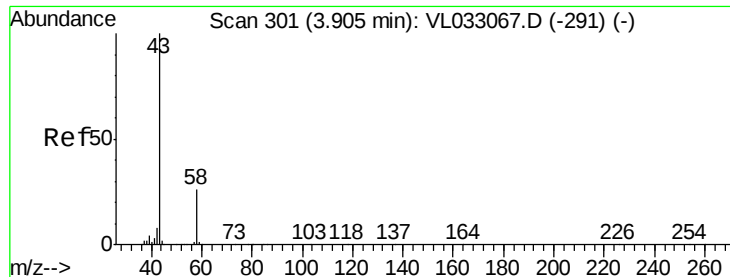
Ion Ratio Lower Upper

108 100

106 107.4 86.4 129.6

79 16.9 14.3 21.5





#15

Acetone

Concen: 2.653 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.00 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 523688

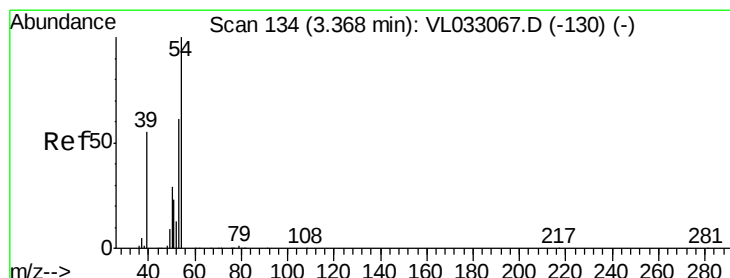
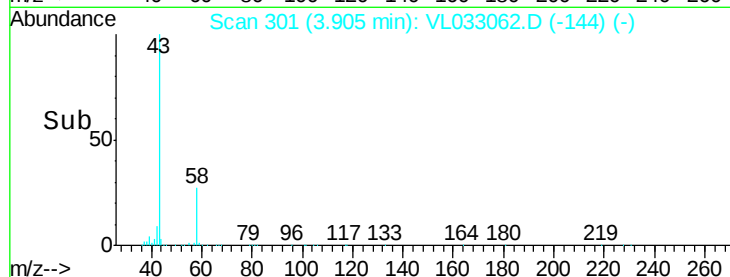
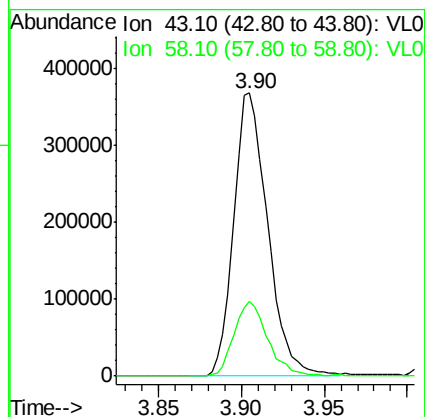
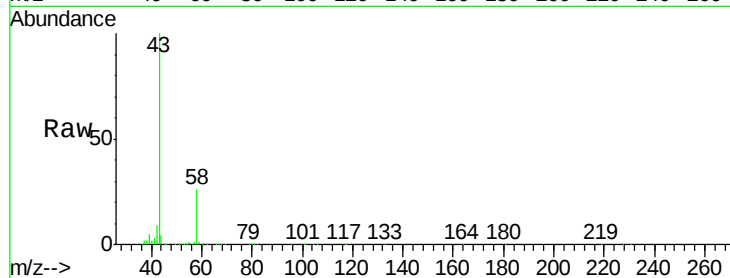
Ion Ratio Lower Upper

43 100

58 26.5 21.1 31.7

Manual Integrations
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#16

1,3-Butadiene

Concen: 1.939 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033062.D

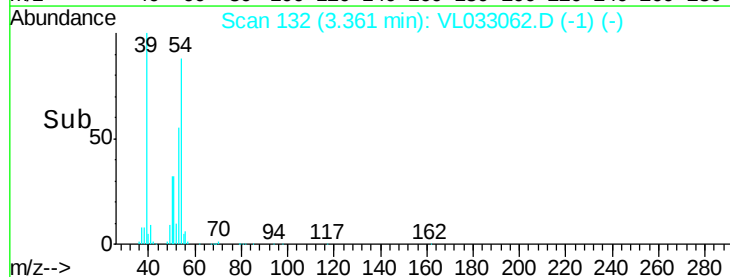
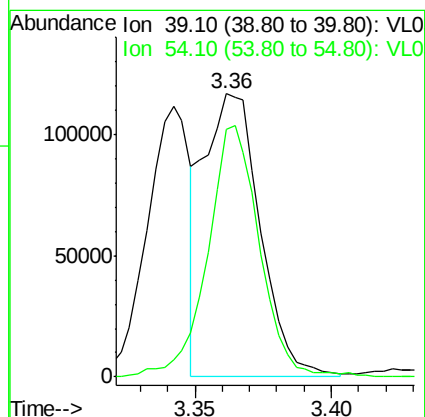
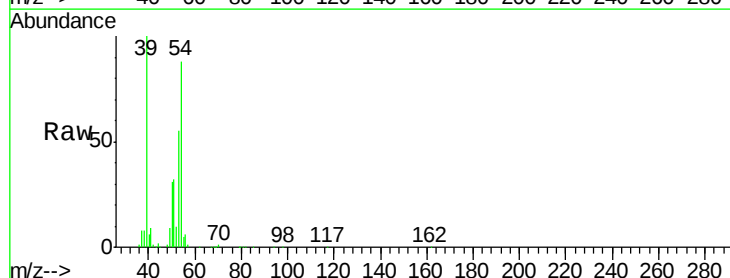
Acq: 4 Jan 2019 9:55

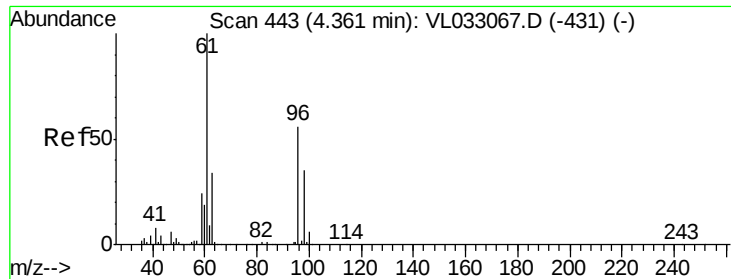
Tgt Ion: 39 Resp: 166800

Ion Ratio Lower Upper

39 100

54 82.6 73.7 110.5





#17

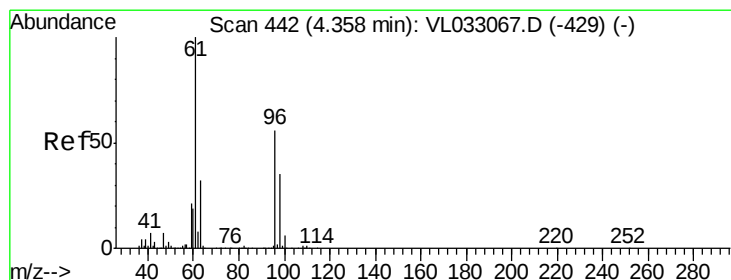
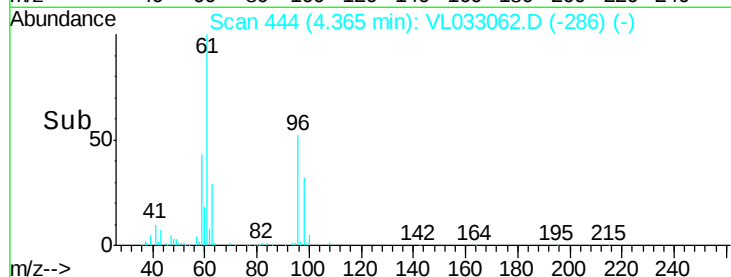
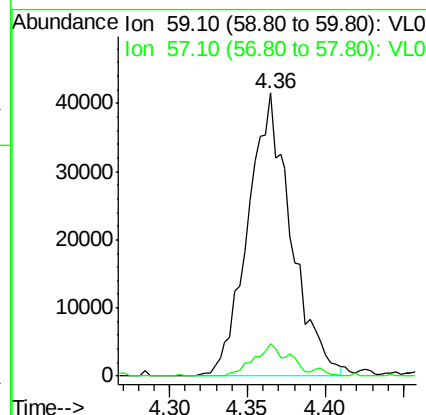
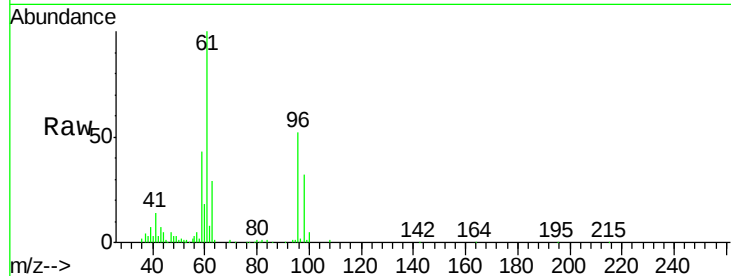
tert-Butyl alcohol
Concen: 1.814 ppbv m
RT: 4.36 min Scan# 444
Delta R.T. 0.01 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 59 Resp: 79976
Ion Ratio Lower Upper
59 100
57 10.2 7.7 11.5

Manual Integrations
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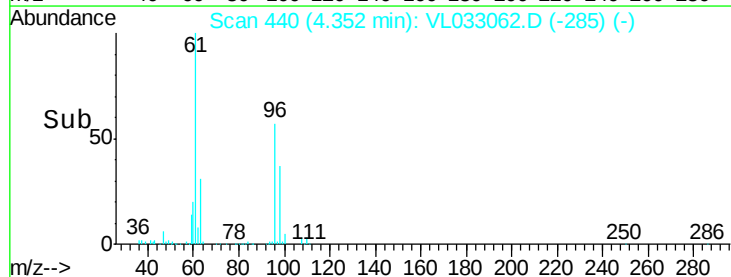
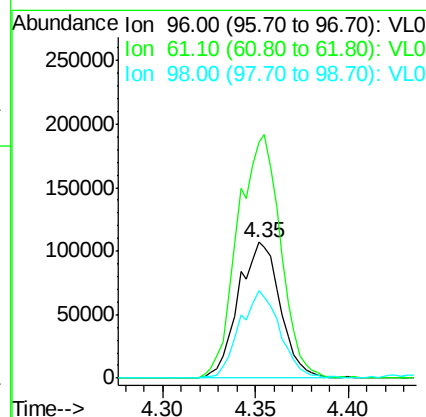
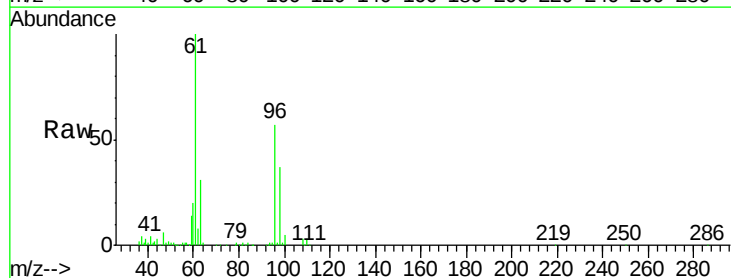
MMDadoda
1/8/2019 12:01:03 AM

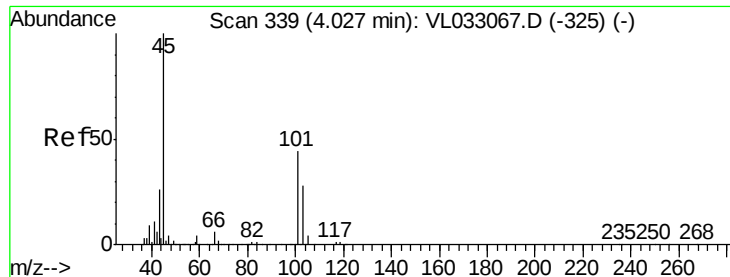


#18

1,1-Dichloroethene
Concen: 1.862 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Tgt Ion: 96 Resp: 166972
Ion Ratio Lower Upper
96 100
61 173.9 143.7 215.5
98 64.4 52.1 78.1





#19

Isopropyl Alcohol

Concen: 2.787 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.00 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Tot Ion: 45 Resp: 367587

Ion Ratio Lower Upper

45 100

58 2.6 1.4 2.2#

Instrument :

MSVOA_L

ClientSampleId :

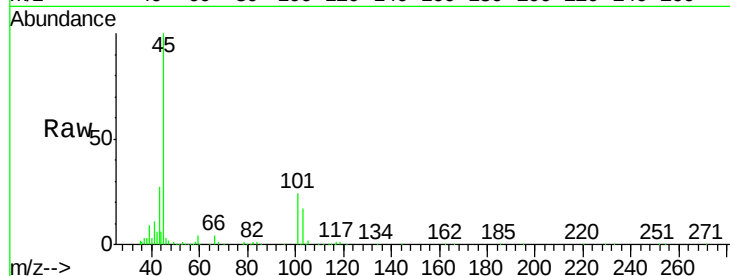
VSTDIC002

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.03

200000

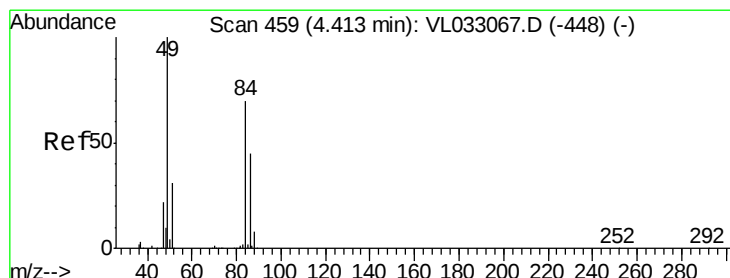
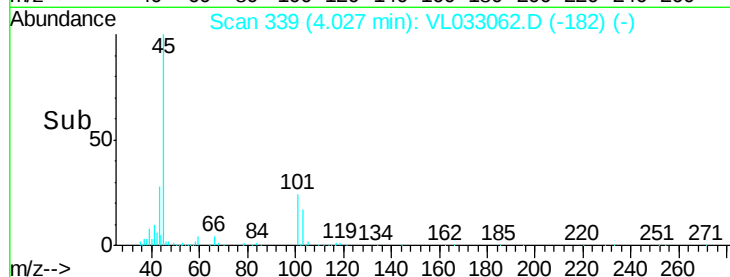
150000

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 1.733 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Tgt Ion: 84 Resp: 151388

Ion Ratio Lower Upper

84 100

49 131.6 115.8 173.6

51 41.5 35.7 53.5

86 63.7 49.7 74.5

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

200000

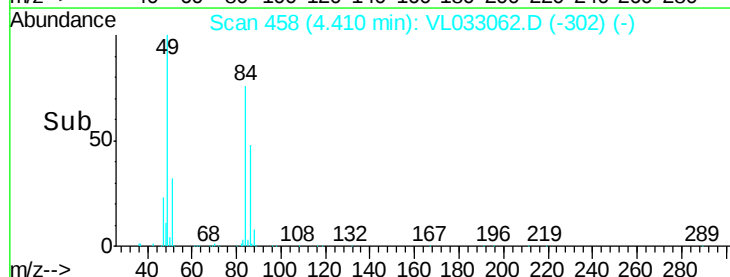
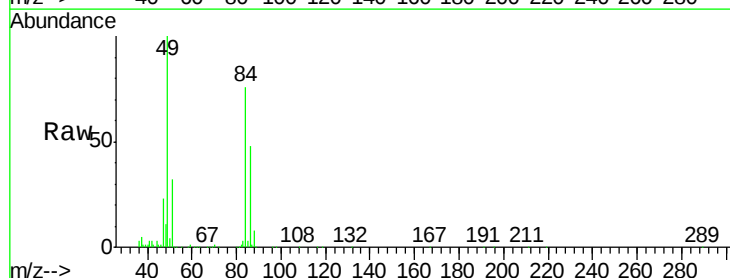
150000

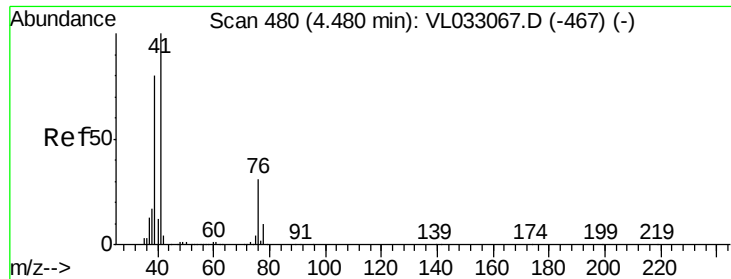
100000

50000

0

Time-->





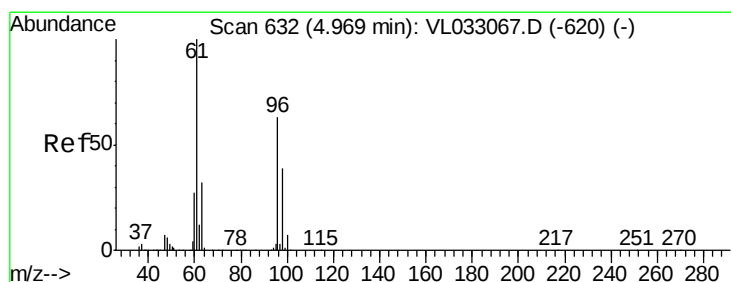
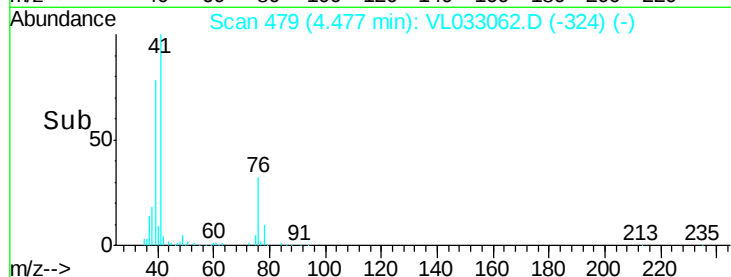
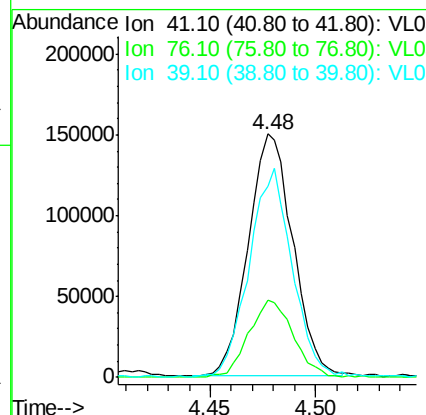
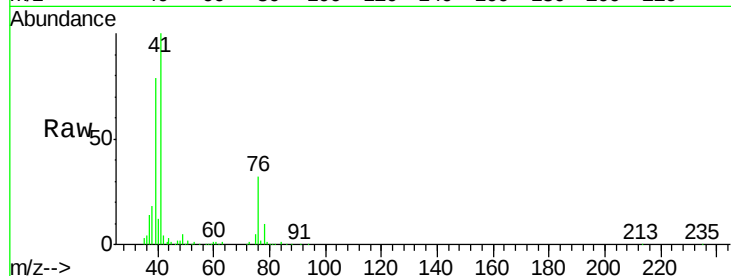
#21
Allvl Chloride
Concen: 1.641 ppbv
RT: 4.48 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
41	100		
76	32.1	24.6	36.8
39	84.7	62.8	94.2

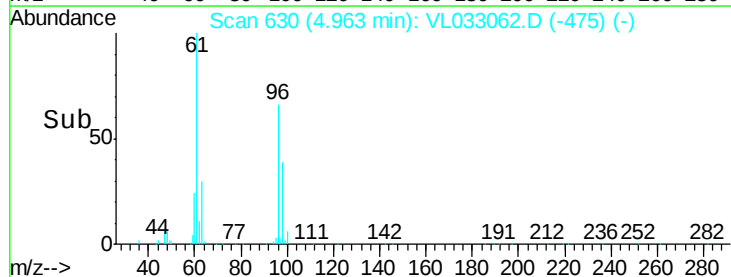
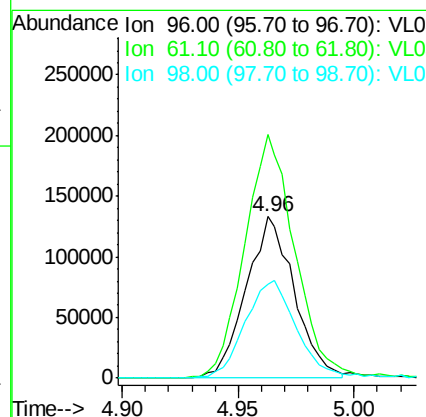
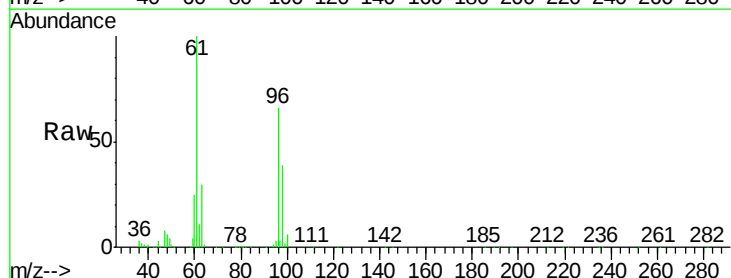
Manual Integrations
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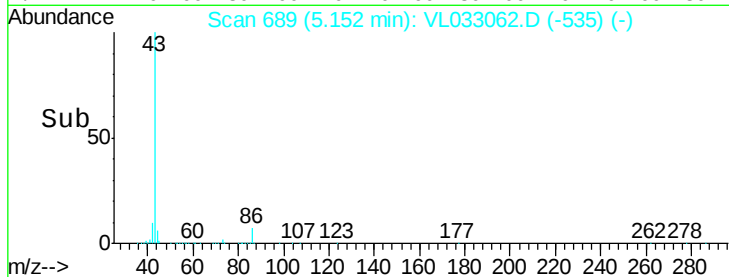
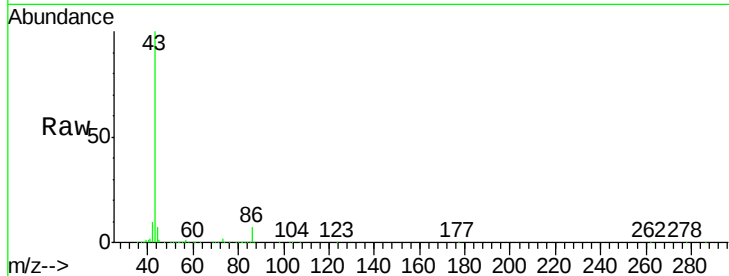
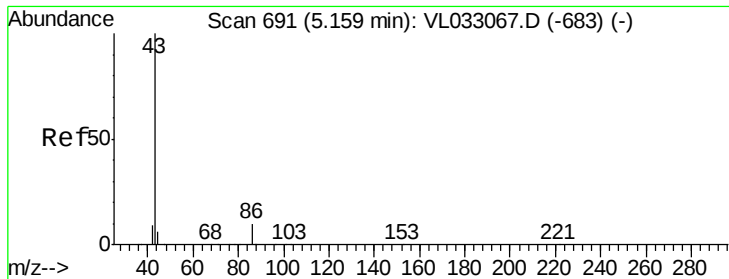
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#22
trans-1,2-Dichloroethene
Concen: 2.172 ppbv
RT: 4.96 min Scan# 630
Delta R.T. -0.00 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Tgt Ion	Ratio	Lower	Upper
96	100		
61	150.6	125.2	187.8
98	58.7	50.9	76.3





#23

Vinyl Acetate

Concen: 2.115 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.01 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Tot Ion	Ratio	Lower	Upper
43	100		
86	7.3	6.2	9.4
42	10.0	8.1	12.1
44	6.5	4.3	6.5

Instrument :

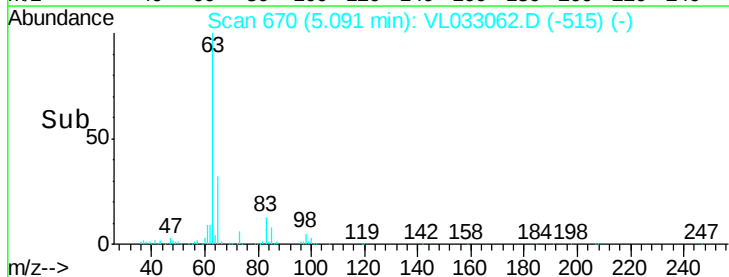
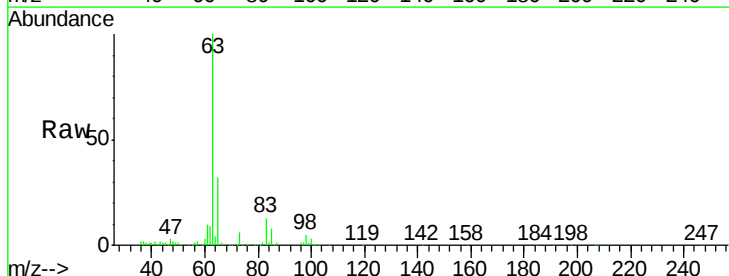
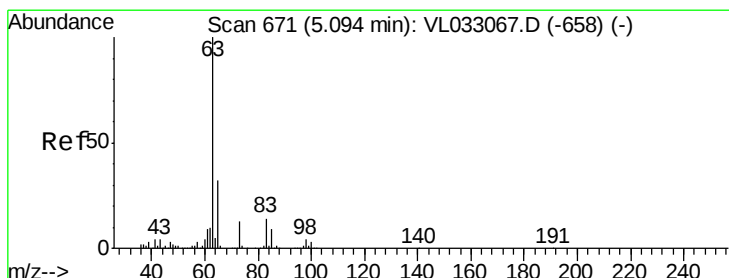
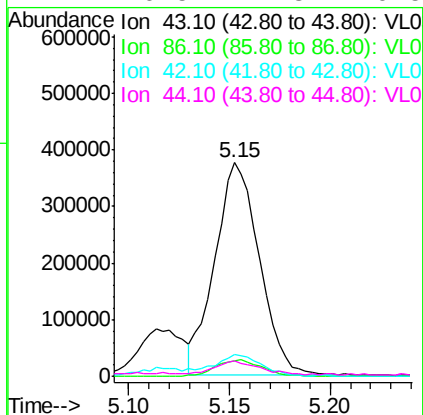
MSVOA_L

ClientSampleId :

VSTDIC002

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#24

1,1-Dichloroethane

Concen: 2.163 ppbv

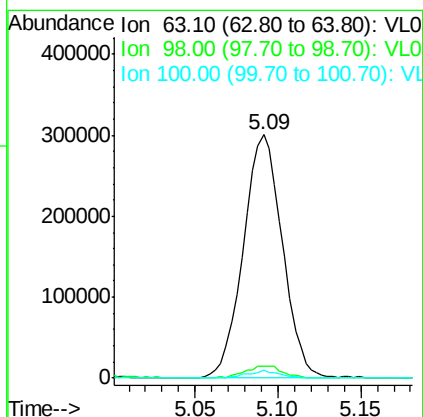
RT: 5.09 min Scan# 670

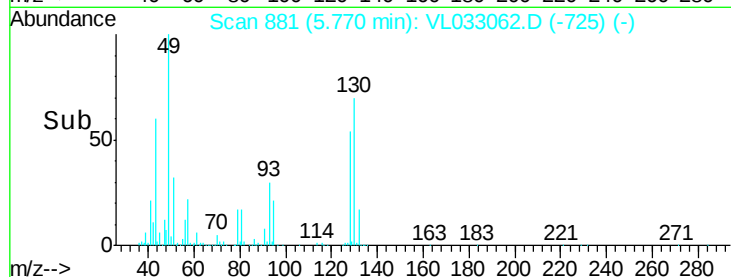
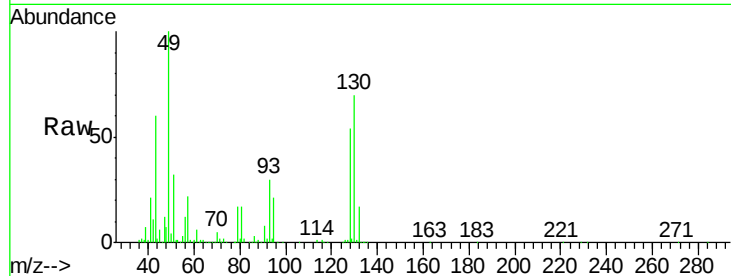
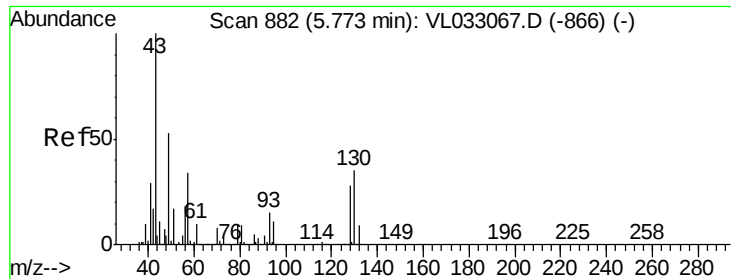
Delta R.T. -0.00 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Tgt Ion	Ratio	Lower	Upper
63	100		
98	4.8	2.4	7.2
100	3.1	1.4	4.0





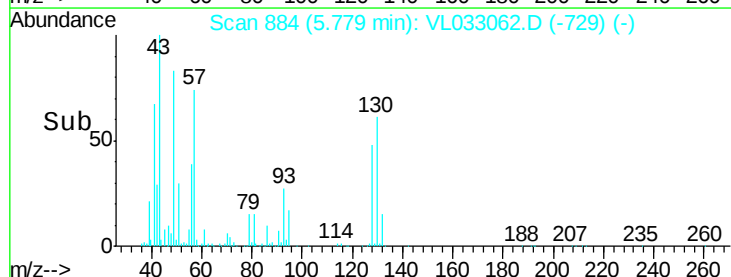
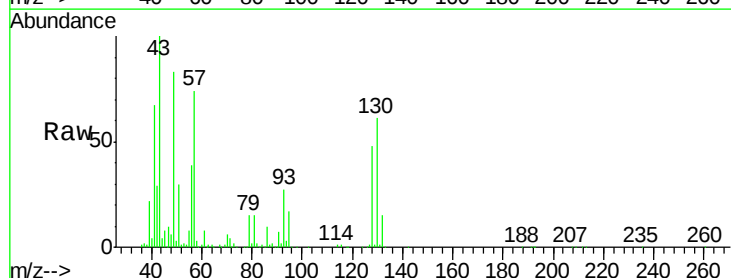
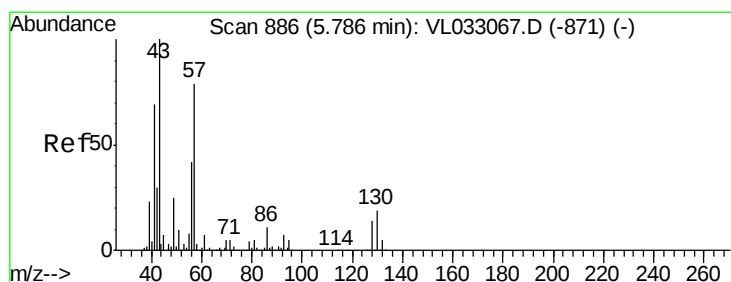
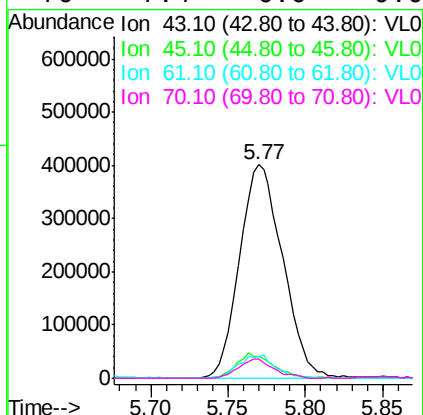
#25
Ethyl Acetate
Concen: 2.199 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.9	11.9
61	9.8	7.8	11.8
70	7.4	6.0	9.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

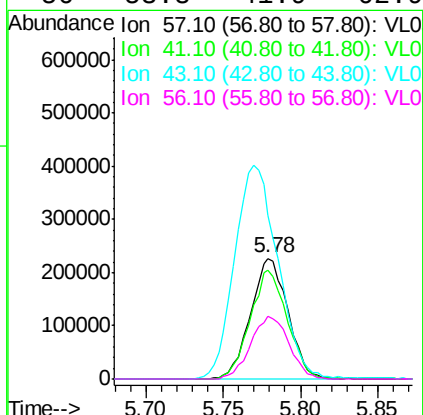
Manual Integrations
APPROVED

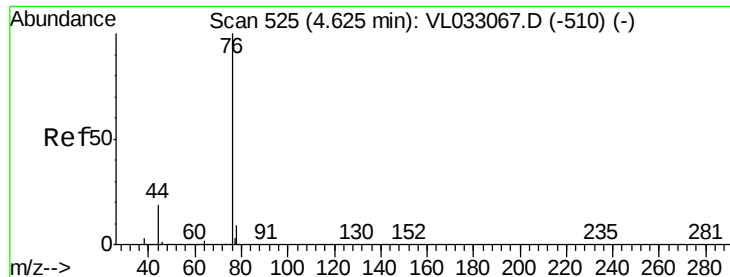
MMDadoda
1/8/2019 12:01:03 AM



#26
Hexane
Concen: 2.256 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Tgt Ion	Ratio	Lower	Upper
57	100		
41	90.8	70.8	106.2
43	208.1	171.8	257.6
56	53.8	41.9	62.9





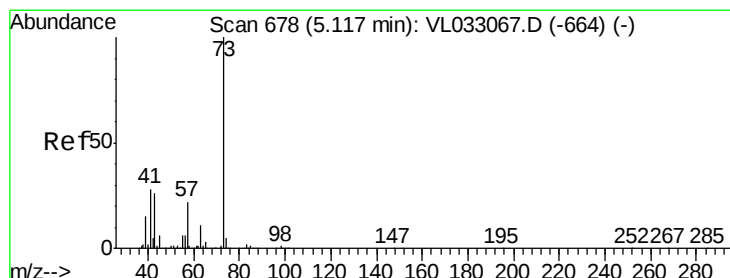
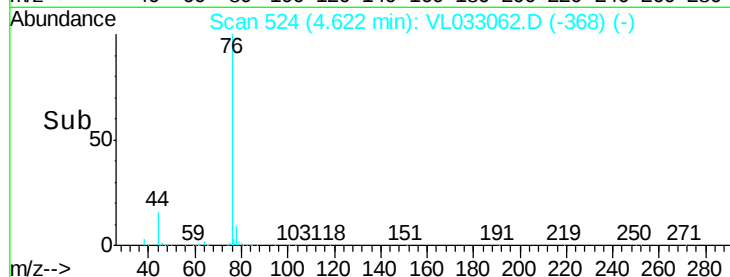
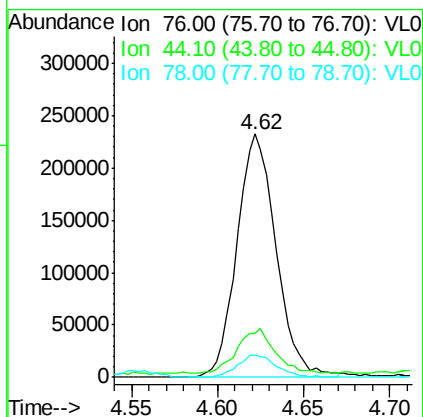
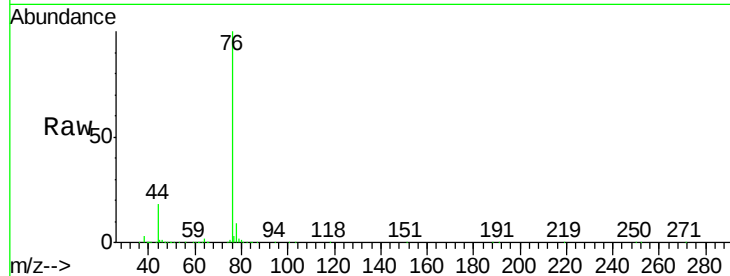
#27
Carbon Disulfide
Concen: 1.755 ppbv
RT: 4.62 min Scan# 524
Delta R.T. 0.00 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
76	100		
44	19.3	13.9	20.9
78	9.1	7.3	10.9

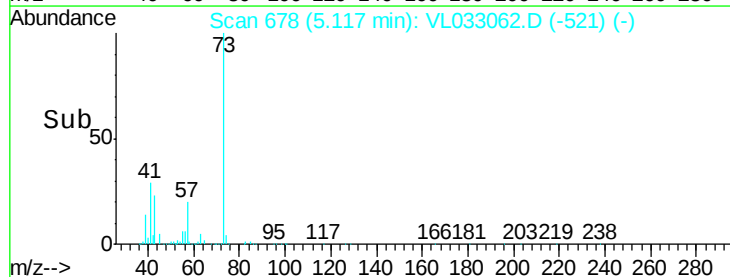
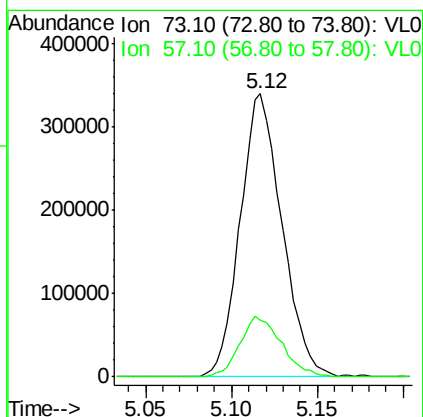
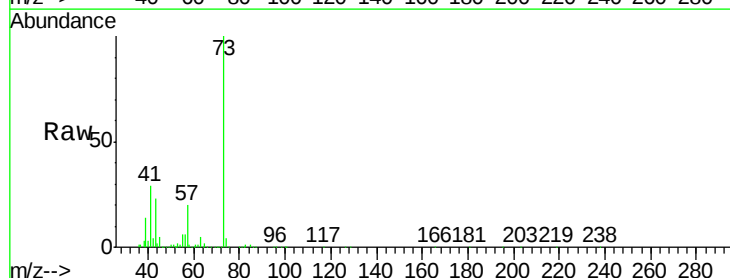
Manual Integrations
APPROVED

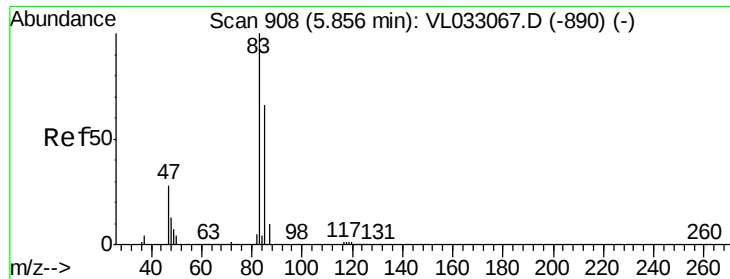
MMDadoda
1/8/2019 12:01:03 AM



#28
Methyl tert-Butyl Ether
Concen: 2.177 ppbv
RT: 5.12 min Scan# 678
Delta R.T. 0.00 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Tgt Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.5	26.3





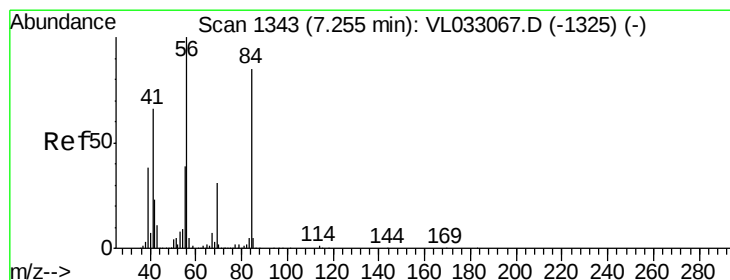
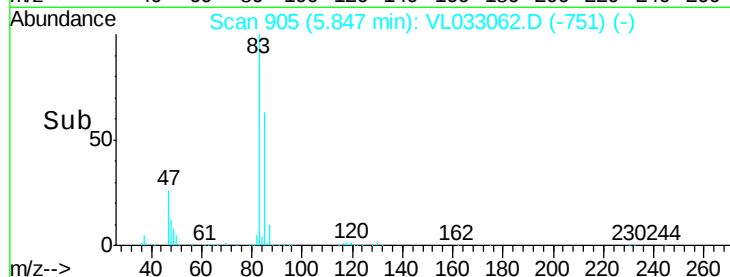
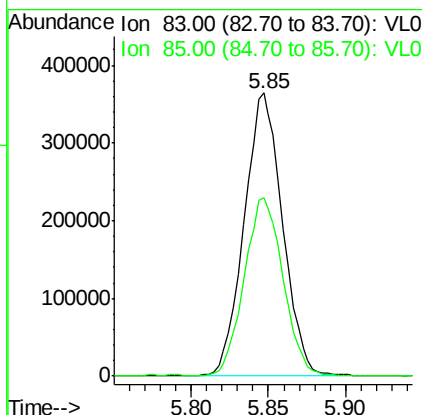
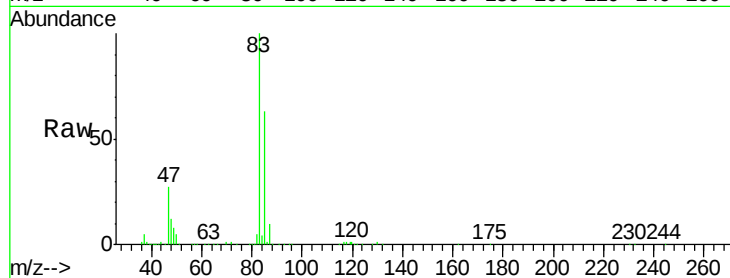
#29
Chloroform
Concen: 2.264 ppbv
RT: 5.85 min Scan# 905
Delta R.T. -0.01 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	83	Resp	628957
Ion Ratio	100	Lower	Upper
85	63.0	52.5	78.7

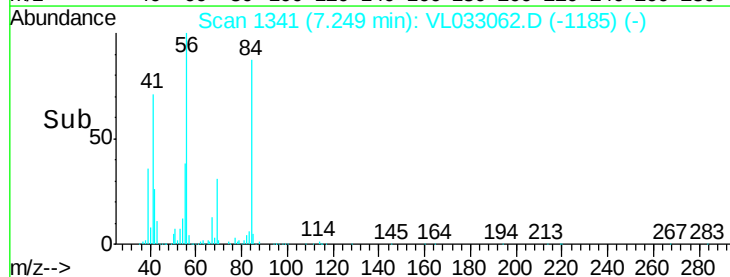
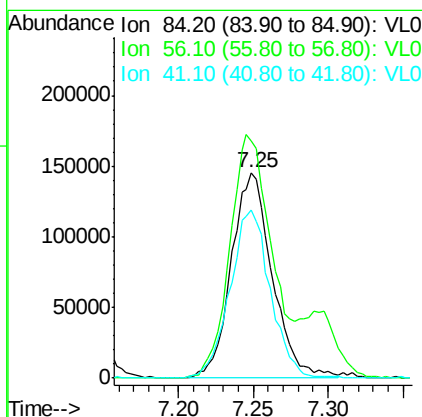
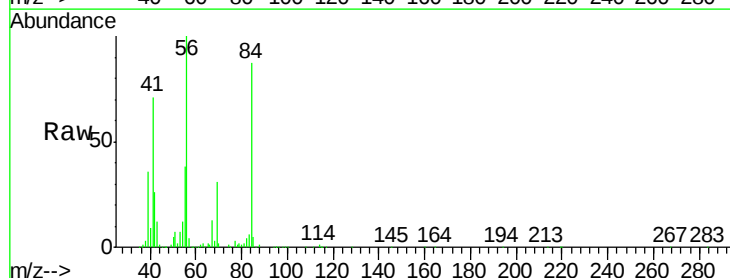
Manual Integrations
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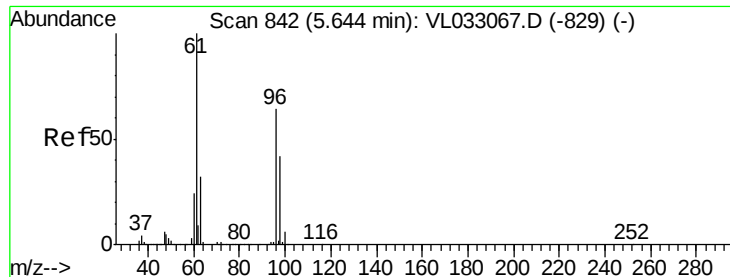
MMDadoda
1/8/2019 12:01:03 AM



#30
Cyclohexane
Concen: 2.192 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Tgt Ion	84	Resp	275822
Ion Ratio	100	Lower	Upper
56	150.3	101.8	152.6
41	80.5	63.2	94.8





#31

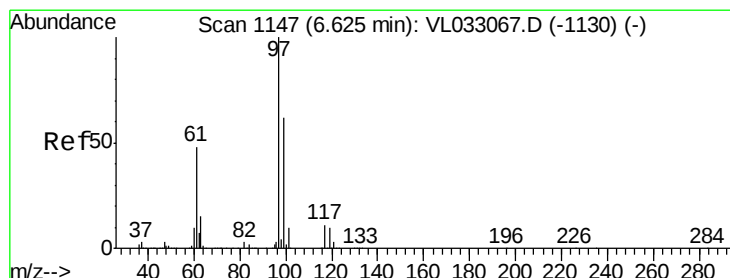
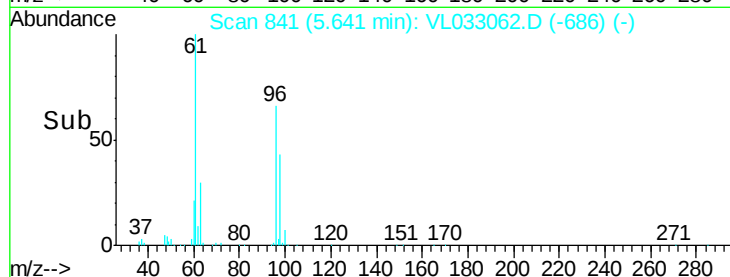
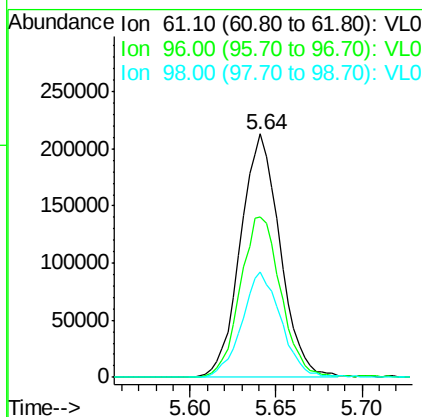
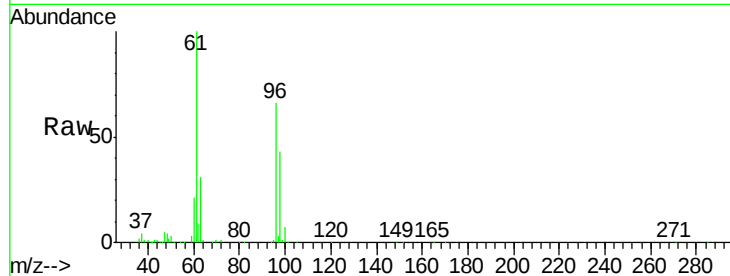
cis-1,2-Dichloroethene
Concen: 2.189 ppbv
RT: 5.64 min Scan# 841
Delta R.T. -0.00 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
61	100			
96	66.1	52.8	79.2	
98	43.4	33.8	50.6	

Manual Integrations
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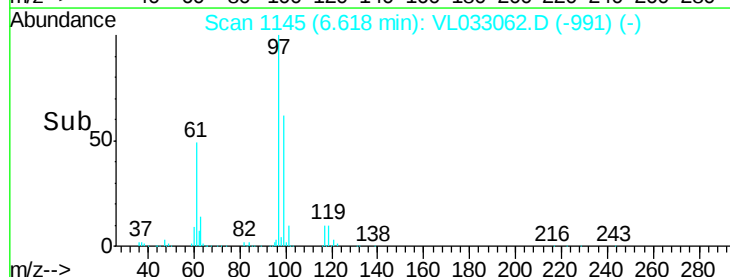
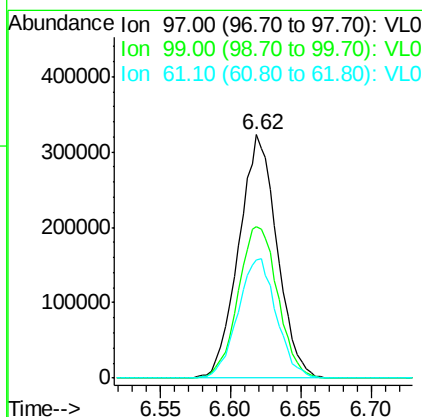
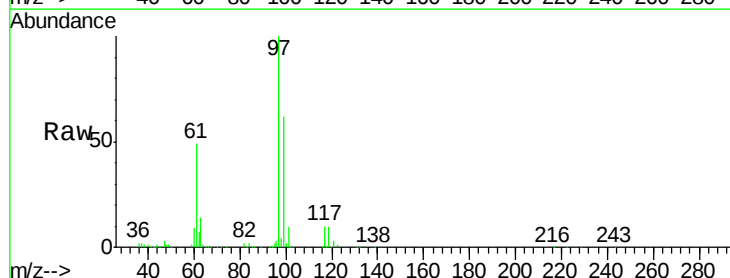
MMDadoda
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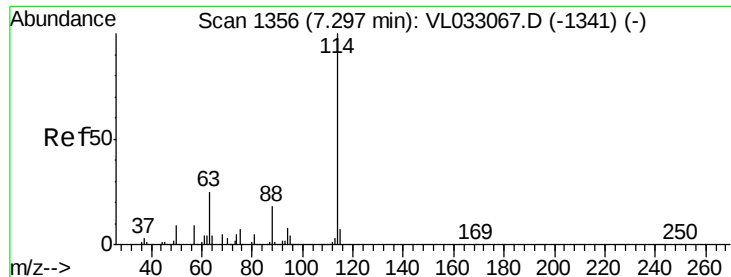


#32

1,1,1-Trichloroethane
Concen: 2.092 ppbv
RT: 6.62 min Scan# 1145
Delta R.T. -0.01 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Tgt Ion	Ratio	Resp	Lower	Upper
97	100			
99	64.8	51.1	76.7	
61	49.8	38.3	57.5	





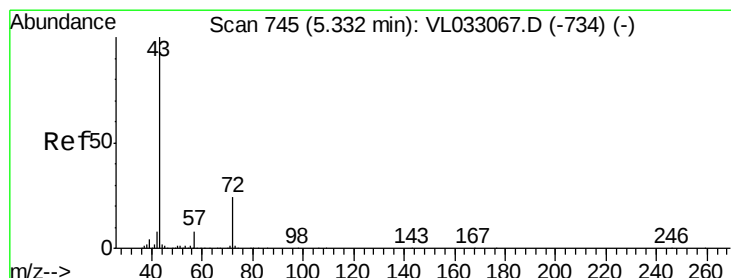
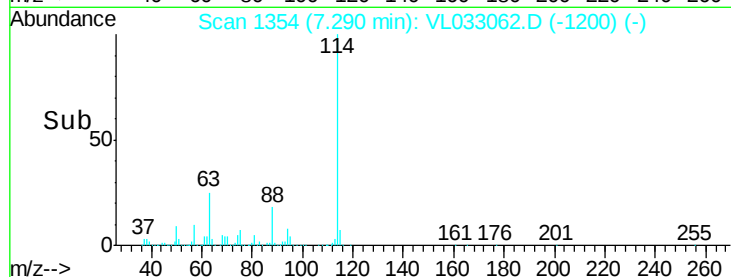
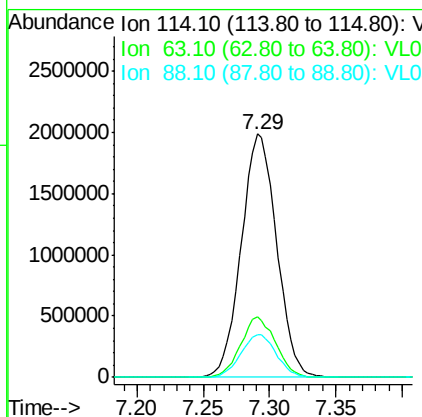
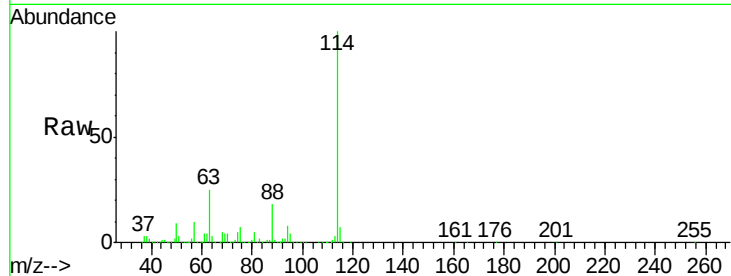
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.01 min
 Lab File: VL033062.D
 Acq: 4 Jan 2019 9:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:114 Resp: 3682830
 Ion Ratio Lower Upper
 114 100
 63 24.8 20.1 30.1
 88 17.6 14.0 21.0

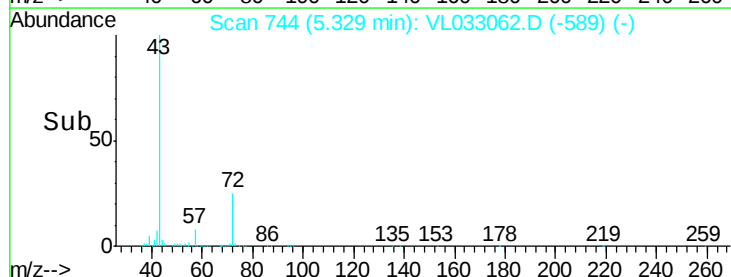
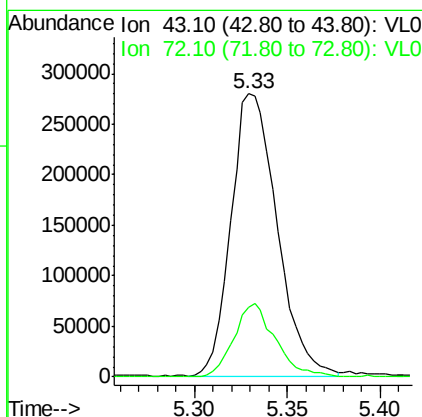
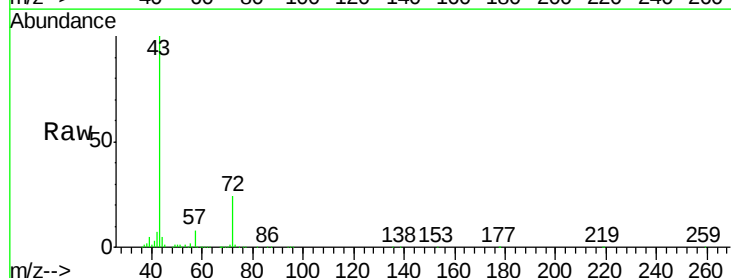
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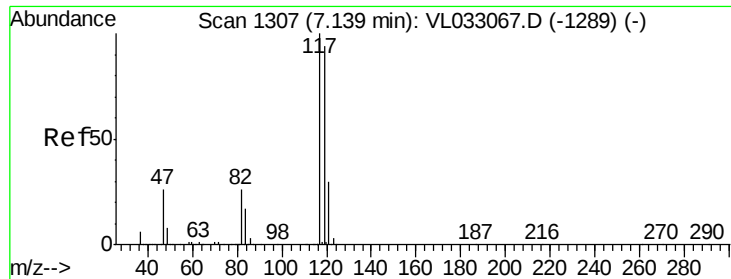
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#34
 2-Butanone
 Concen: 2.240 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. -0.00 min
 Lab File: VL033062.D
 Acq: 4 Jan 2019 9:55

Tgt Ion: 43 Resp: 481553
 Ion Ratio Lower Upper
 43 100
 72 23.7 18.9 28.3





#35

Carbon Tetrachloride

Concen: 2.134 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.01 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Instrument :

MSVOA_L

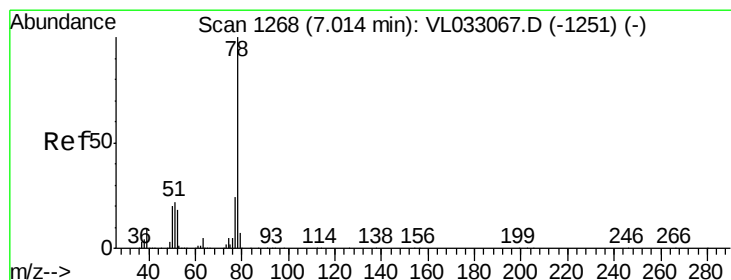
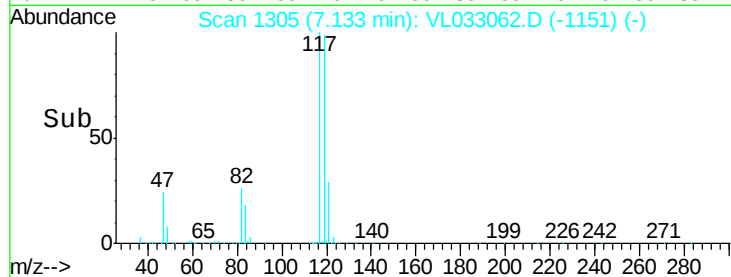
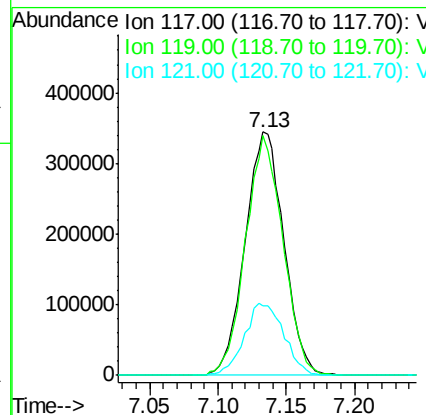
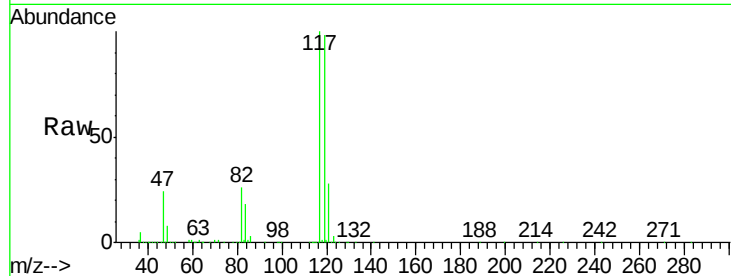
ClientSampleId :

VSTDIC002

Tot Ion	Ratio	Lower	Upper
117	100		
119	98.4	76.5	114.7
121	28.4	25.2	37.8

Manual Integrations
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MMDadoda
1/8/2019 12:01:03 AM



#36

Benzene

Concen: 2.205 ppbv

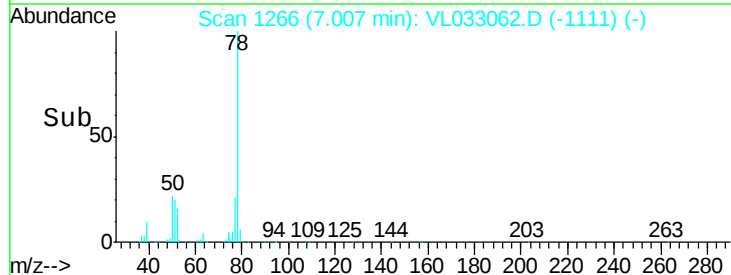
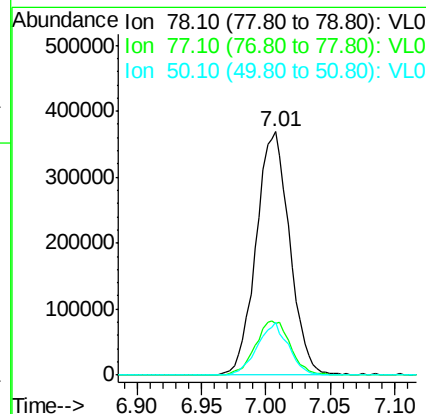
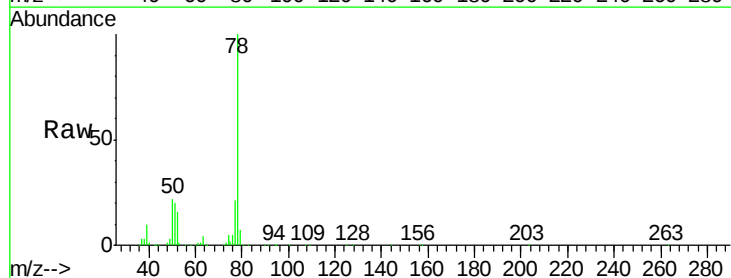
RT: 7.01 min Scan# 1266

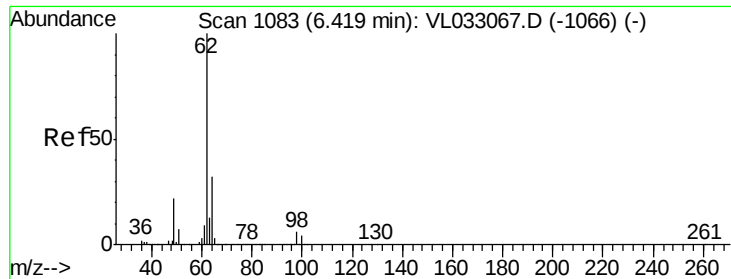
Delta R.T. -0.00 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.3	18.5	27.7
50	21.9	15.7	23.5





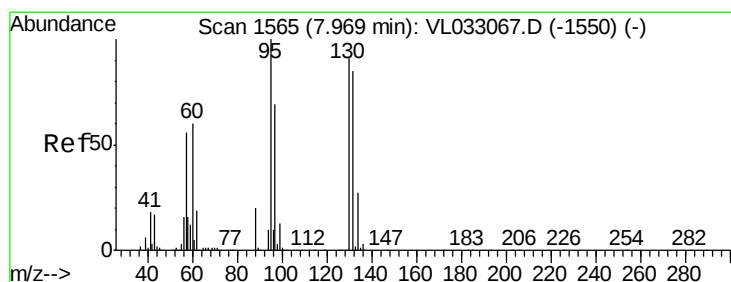
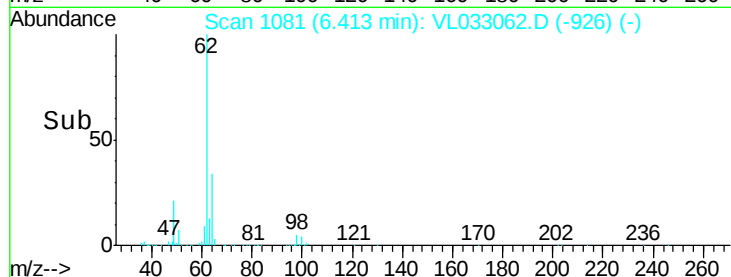
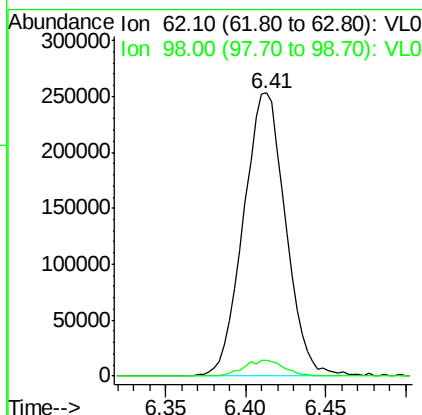
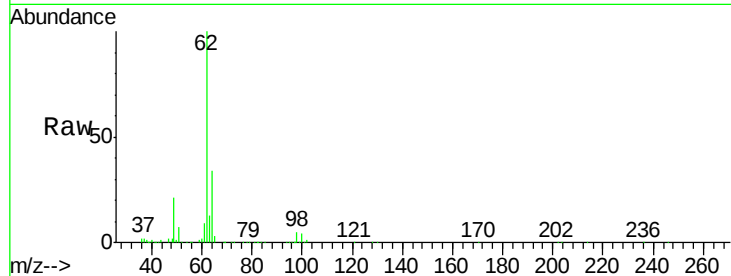
#37
 1,2-Dichloroethane
 Concen: 2.217 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. -0.00 min
 Lab File: VL033062.D
 Acq: 4 Jan 2019 9:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
62	100	456982		
98	5.4	4.6	7.0	

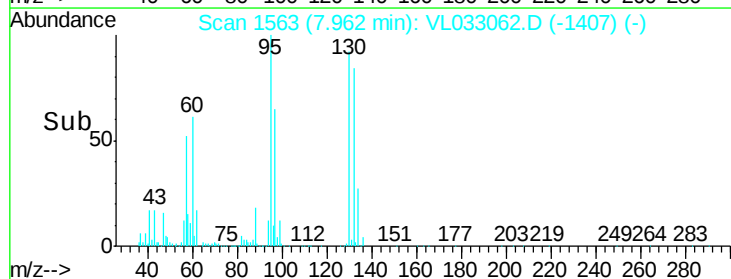
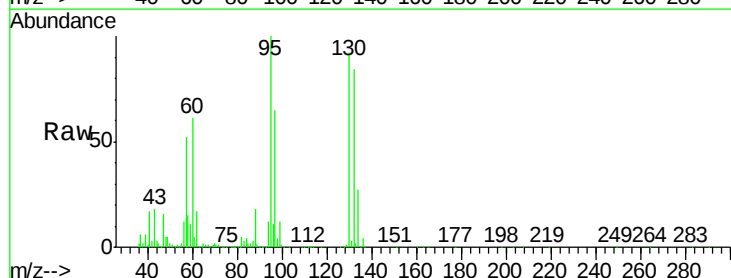
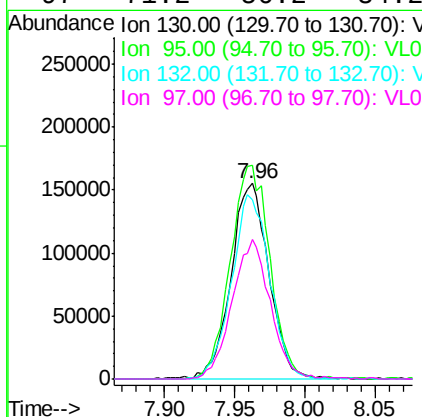
Manual Integrations
 APPROVED

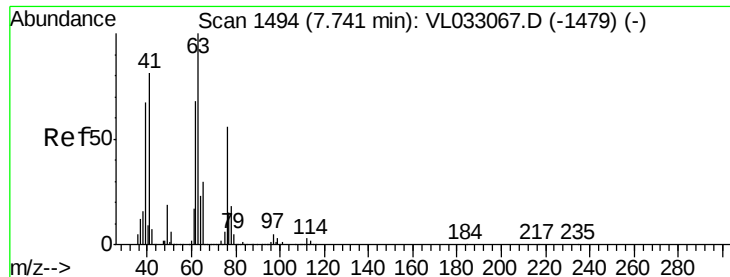
MMDadoda
 1/8/2019 12:01:03 AM



#38
 Trichloroethene
 Concen: 2.287 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. 0.00 min
 Lab File: VL033062.D
 Acq: 4 Jan 2019 9:55

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	289459		
95	108.7	88.6	132.8	
132	91.6	74.2	111.2	
97	71.2	56.2	84.2	





#39

1,2-Dichloropropane

Concen: 2.132 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. -0.01 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Instrument :

MSVOA_L

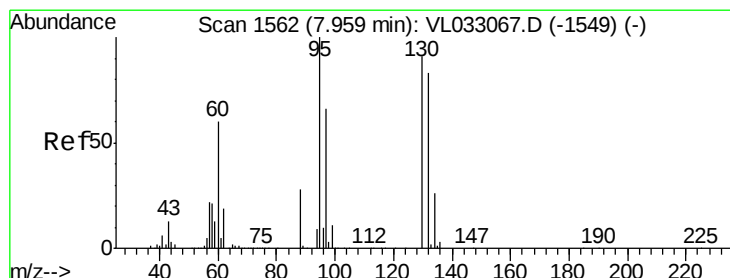
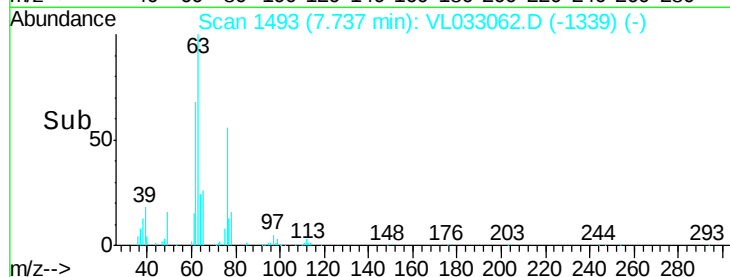
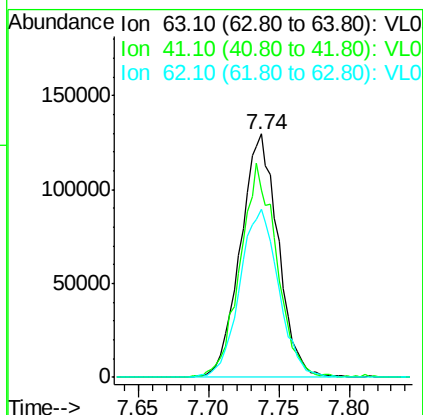
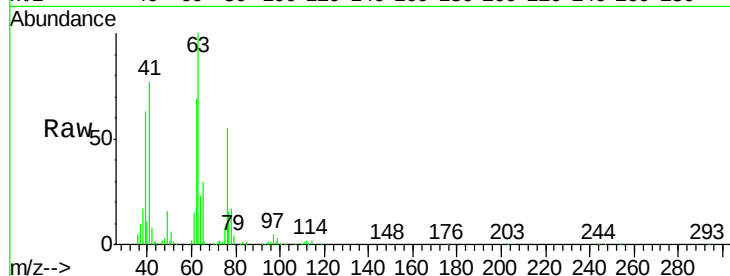
ClientSampleId :

VSTDIC002

Tot Ion:	63	Resp:	242381
Ion Ratio	Lower	Upper	
63	100		
41	77.1	61.9	92.9
62	68.8	55.8	83.6

Manual Integrations
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#40

1,4-Dioxane

Concen: 2.216 ppbv m

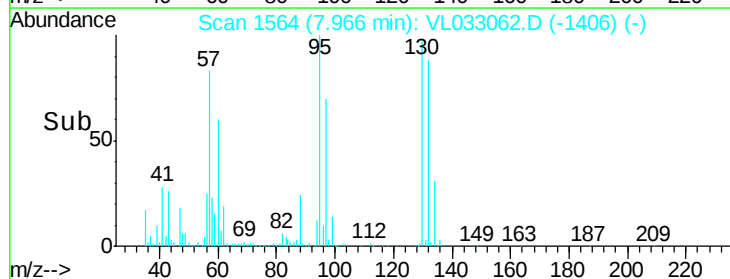
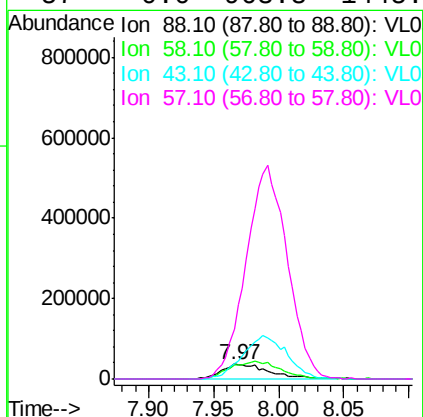
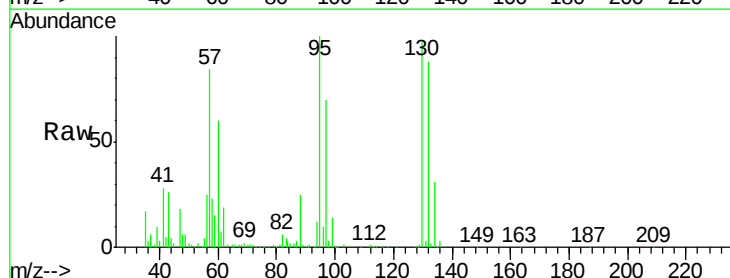
RT: 7.97 min Scan# 1564

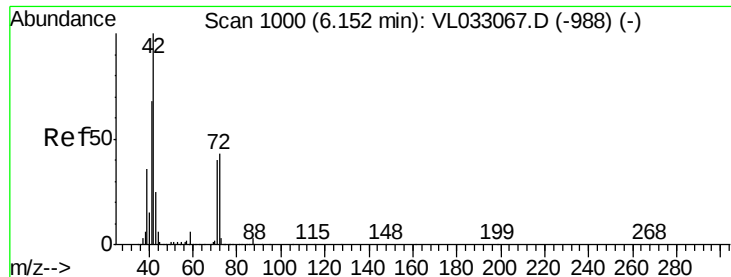
Delta R.T. 0.01 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Tgt Ion:	88	Resp:	95605
Ion Ratio	Lower	Upper	
88	100		
58	0.0	101.9	152.9#
43	0.0	212.6	319.0#
57	0.0	963.8	1445.6#





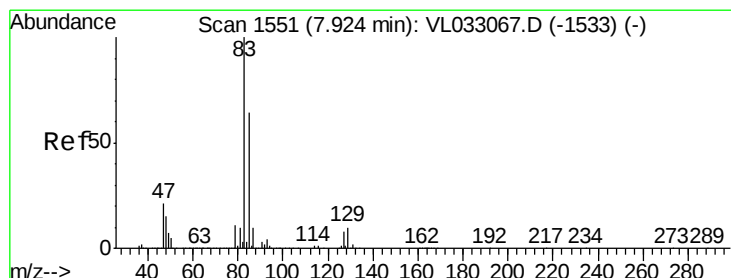
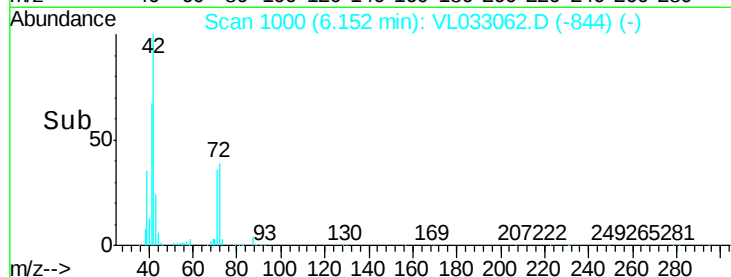
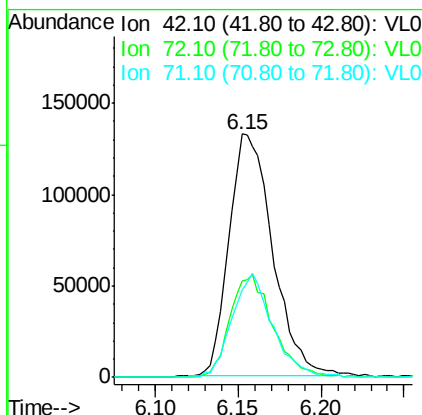
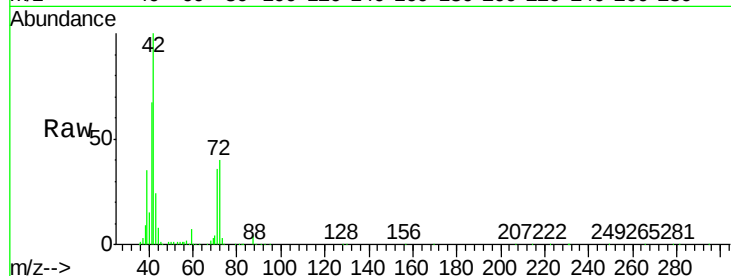
#41
Tetrahydrofuran
Concen: 2.217 ppbv
RT: 6.15 min Scan# 1000
Delta R.T. 0.00 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.8	32.9	49.3
71	40.0	31.8	47.6

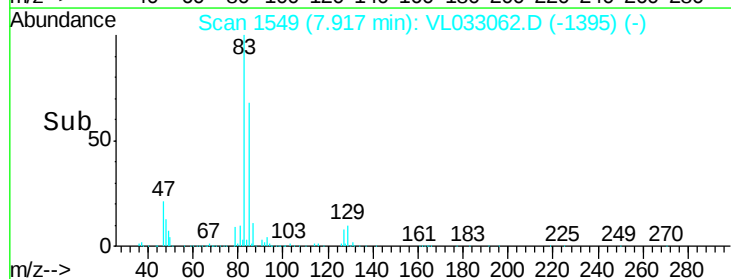
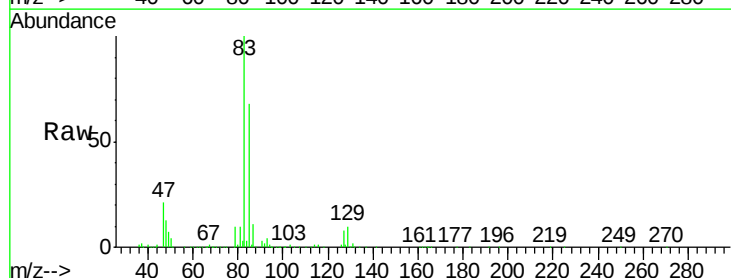
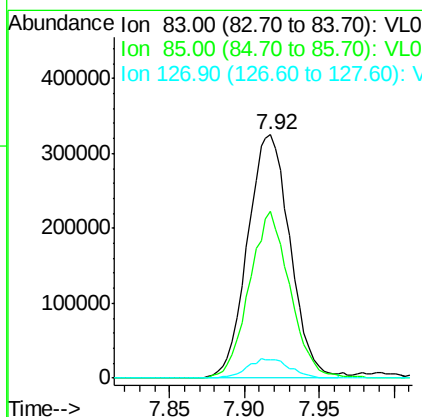
Manual Integrations
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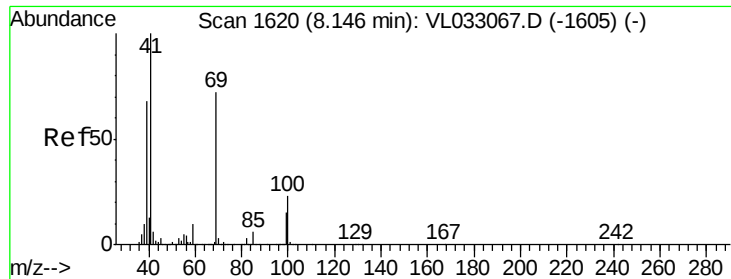
MMDadoda
1/8/2019 12:01:03 AM



#42
Bromodichloromethane
Concen: 2.163 ppbv
RT: 7.92 min Scan# 1549
Delta R.T. -0.01 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.3	51.0	76.4
127	7.5	6.5	9.7





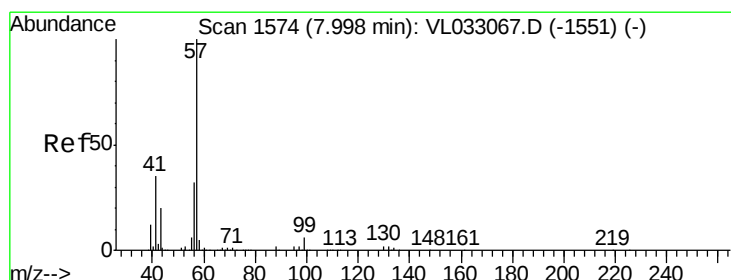
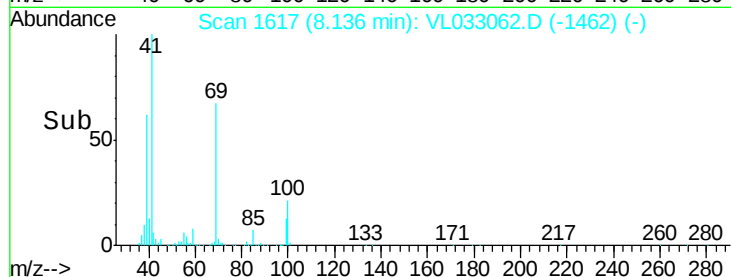
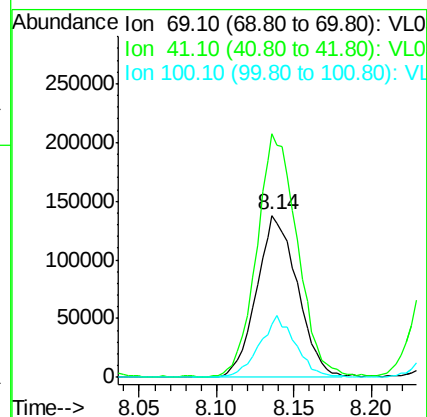
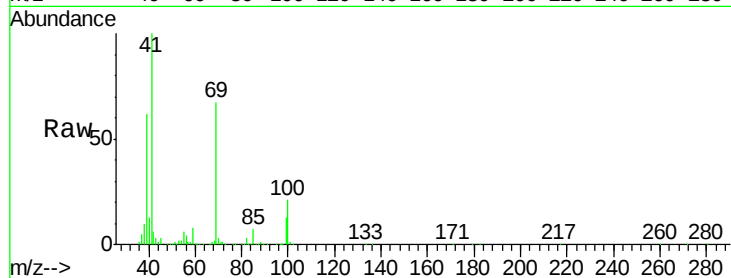
#43
Methvl Methacrylate
Concen: 2.242 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.00 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
69	100		
41	149.5	114.0	171.0
100	33.5	26.3	39.5

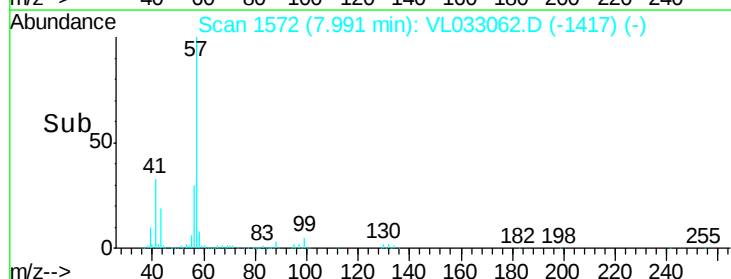
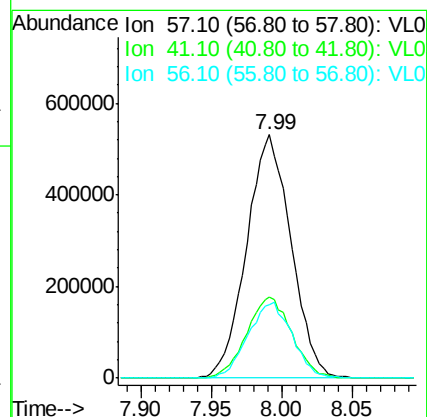
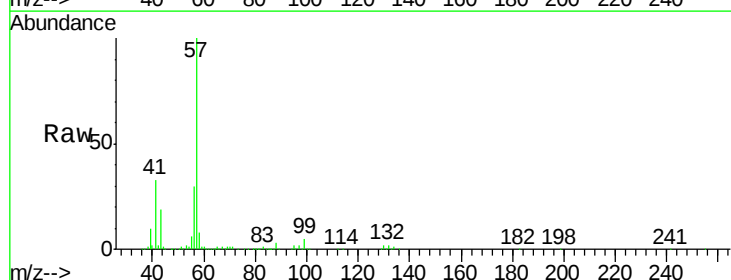
Manual Integrations
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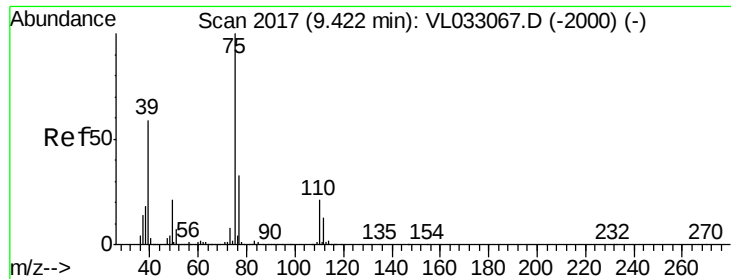
MMDadoda
1/8/2019 12:01:03 AM



#44
2,2,4-Trimethylpentane
Concen: 2.175 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.6	26.2	39.2
56	31.0	24.9	37.3





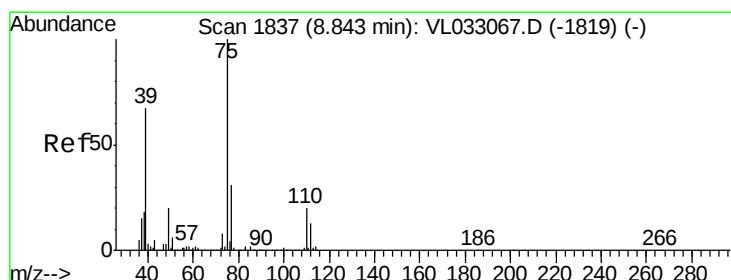
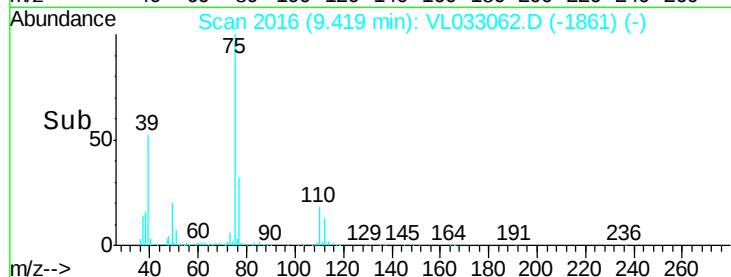
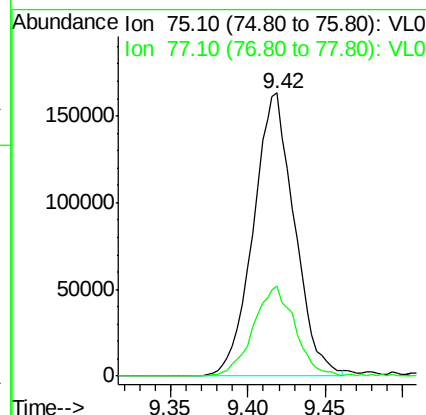
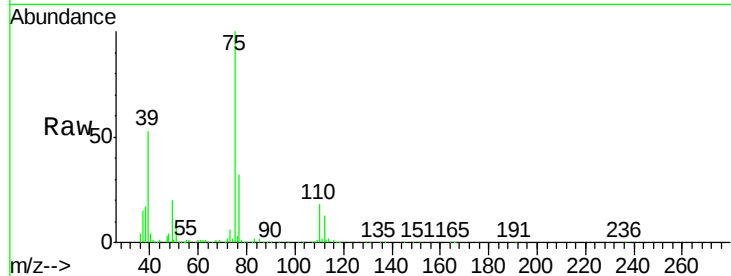
#45
 t-1,3-Dichloropropene
 Concen: 1.934 ppbv
 RT: 9.42 min Scan# 2016
 Delta R.T. -0.00 min
 Lab File: VL033062.D
 Acq: 4 Jan 2019 9:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion: 75 Resp: 301916
 Ion Ratio Lower Upper
 75 100
 77 31.7 24.8 37.2

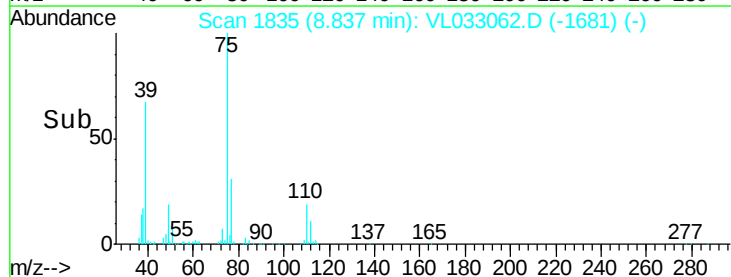
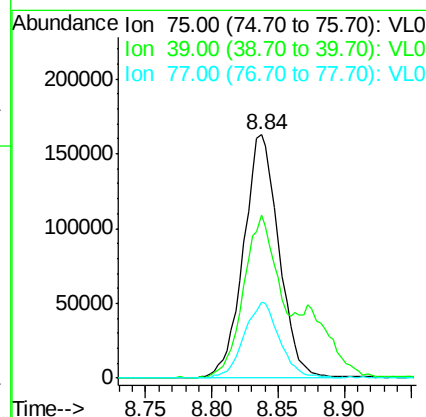
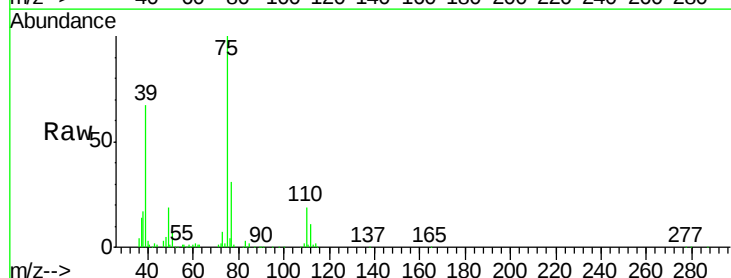
Manual Integrations
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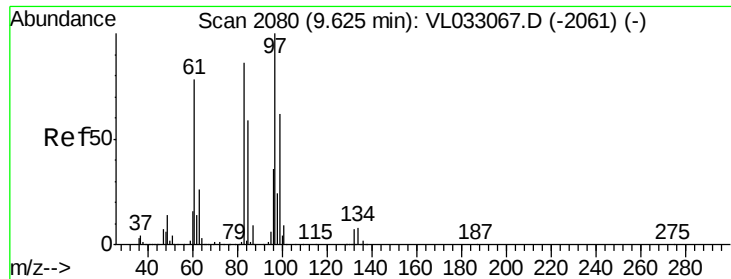
MMDadoda
 1/8/2019 12:01:03 AM



#46
 cis-1,3-Dichloropropene
 Concen: 1.784 ppbv
 RT: 8.84 min Scan# 1835
 Delta R.T. -0.01 min
 Lab File: VL033062.D
 Acq: 4 Jan 2019 9:55

Tgt Ion: 75 Resp: 302819
 Ion Ratio Lower Upper
 75 100
 39 66.7 51.3 76.9
 77 31.3 25.5 38.3





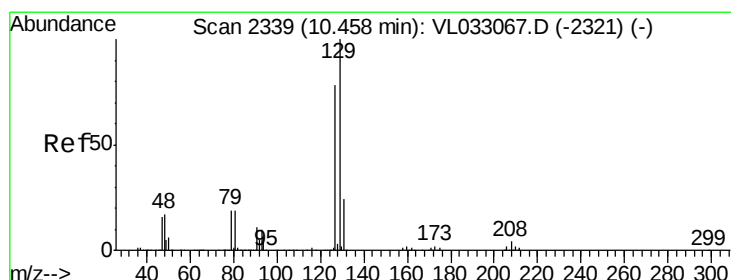
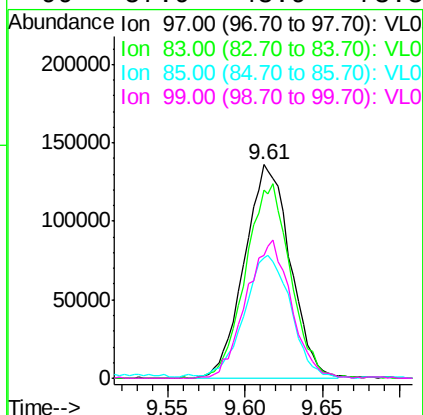
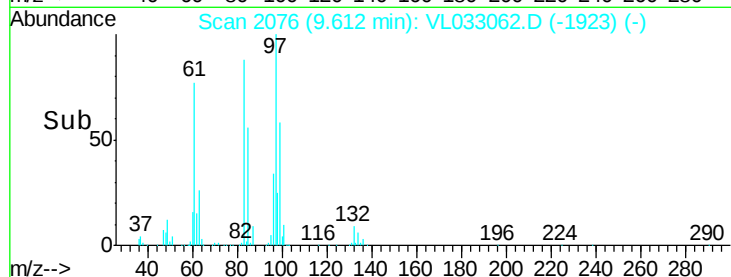
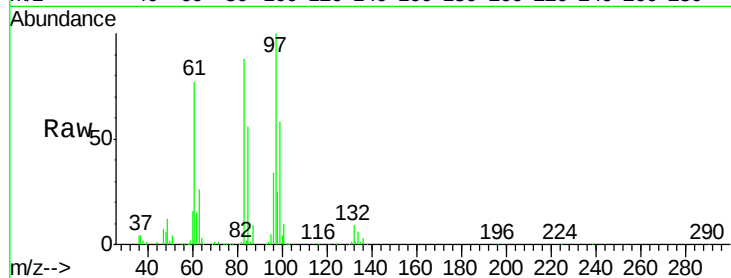
#47
 1,1,2-Trichloroethane
 Concen: 2.036 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL033062.D
 Acq: 4 Jan 2019 9:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
97	100		
83	87.9	69.4	104.2
85	55.6	44.2	66.2
99	57.9	48.9	73.3

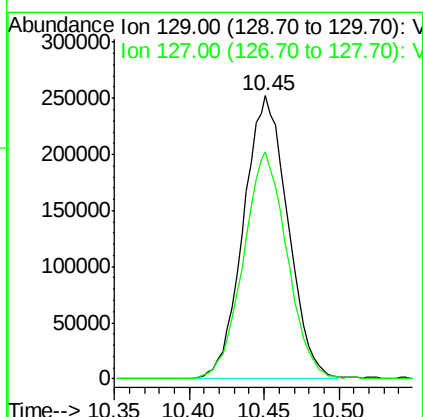
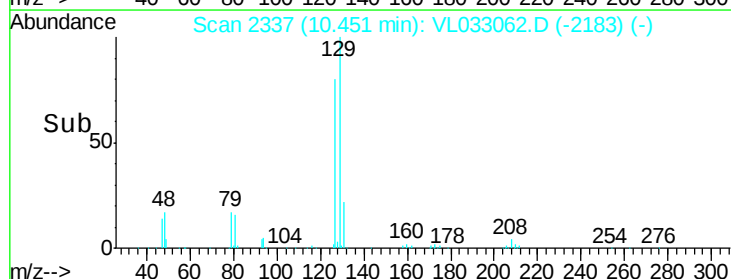
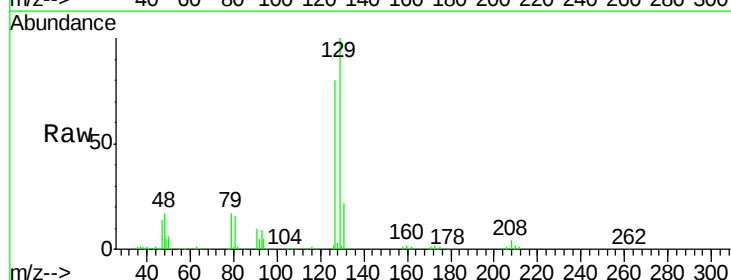
Manual Integrations
 APPROVED

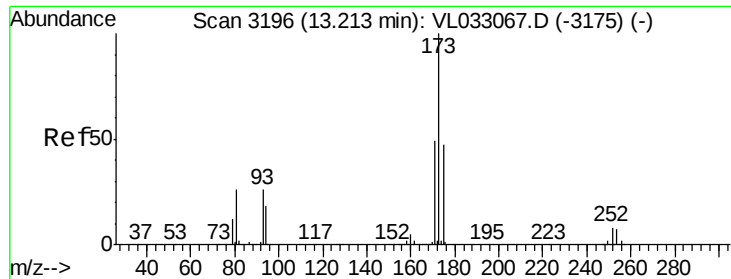
MMDadoda
 1/8/2019 12:01:03 AM



#48
 Dibromochloromethane
 Concen: 2.290 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. -0.01 min
 Lab File: VL033062.D
 Acq: 4 Jan 2019 9:55

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.2	39.1	117.3





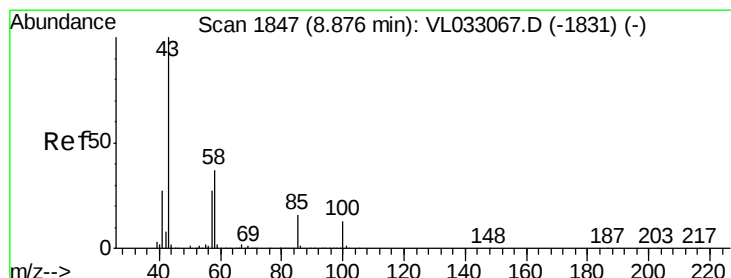
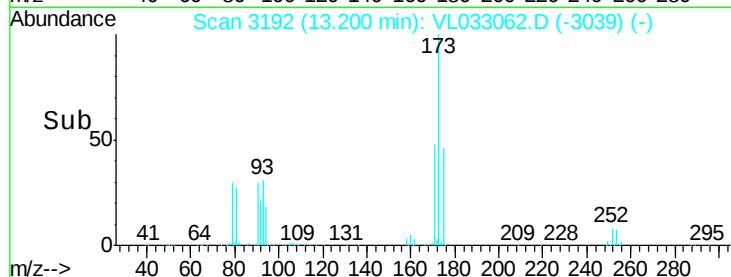
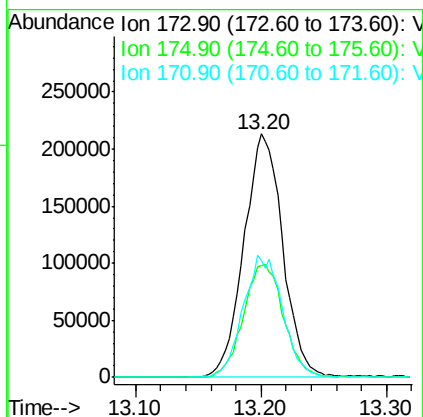
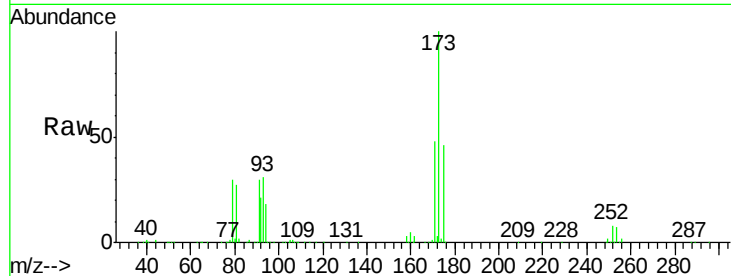
#49
Bromoform
Concen: 2.188 ppbv
RT: 13.20 min Scan# 3192
Delta R.T. -0.01 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.0	39.4	59.2
171	51.2	42.1	63.1

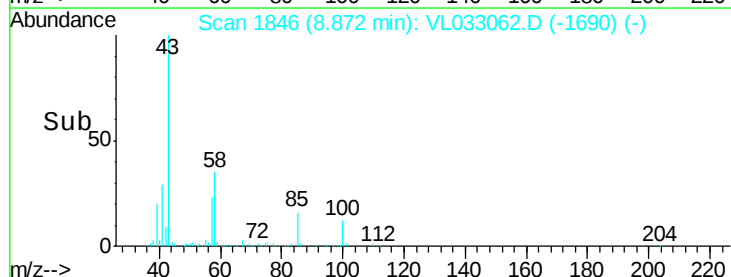
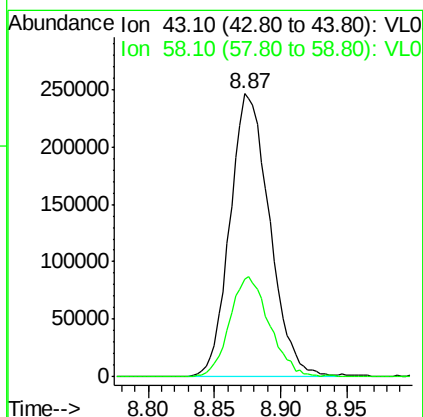
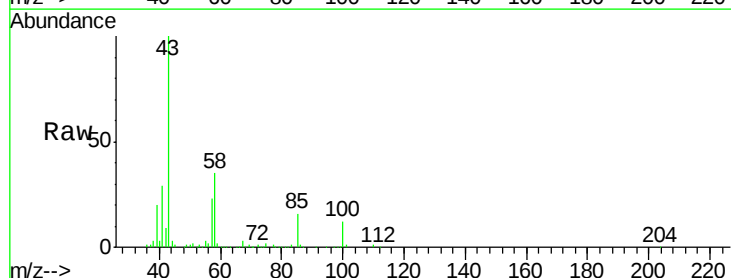
Manual Integrations
APPROVED

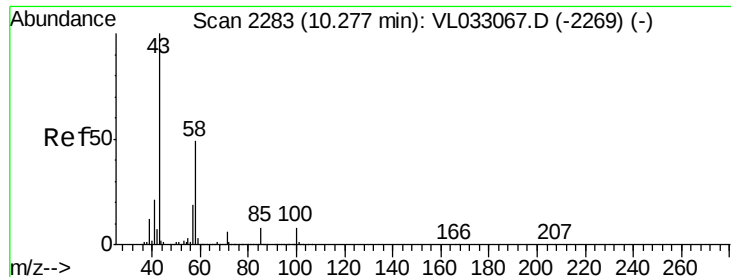
MMDadoda
1/8/2019 12:01:03 AM



#50
4-Methyl-2-Pentanone
Concen: 1.768 ppbv
RT: 8.87 min Scan# 1846
Delta R.T. 0.00 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.9	28.9	43.3





#51

2-Hexanone

Concen: 2.328 ppbv

RT: 10.28 min Scan# 2284

Delta R.T. 0.00 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Instrument :

MSVOA_L

ClientSampleId :

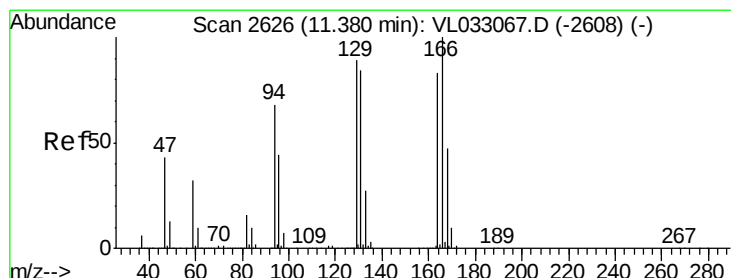
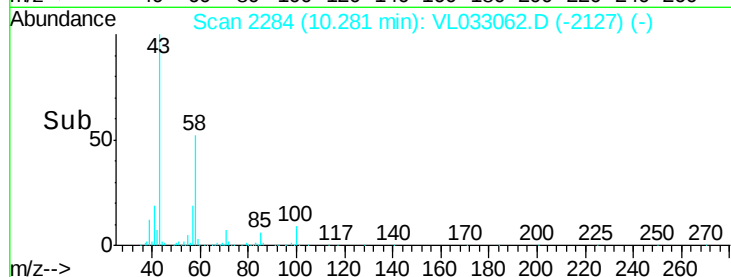
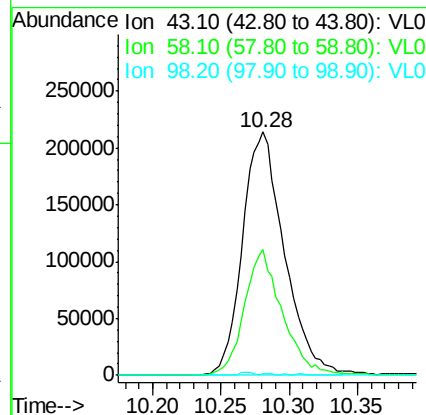
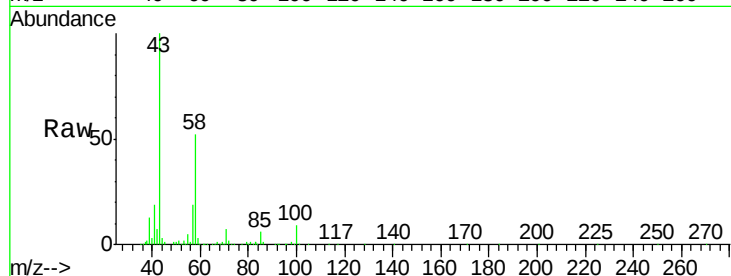
VSTDIC002

Tot Ion: 43 Resp: 454735

Ion	Ratio	Lower	Upper
43	100		
58	47.3	39.0	58.6
98	0.9	0.4	0.6

Manual Integrations
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MMDadoda
1/8/2019 12:01:03 AM



#52

Tetrachloroethene

Concen: 2.170 ppbv

RT: 11.37 min Scan# 2623

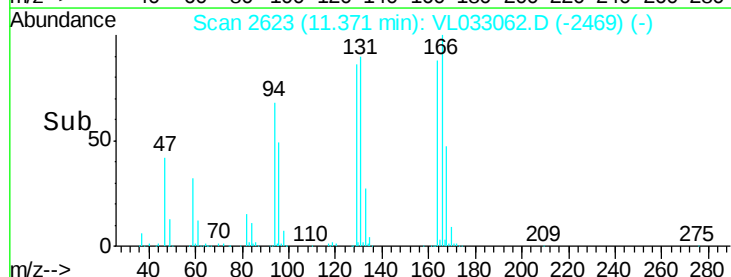
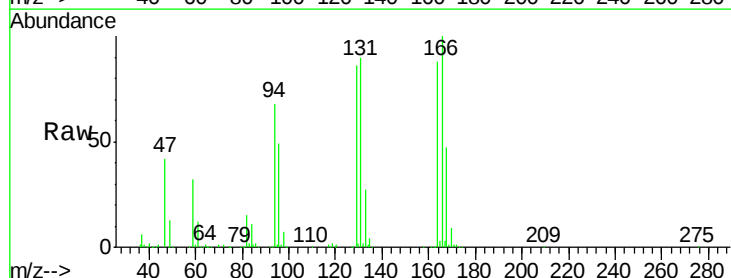
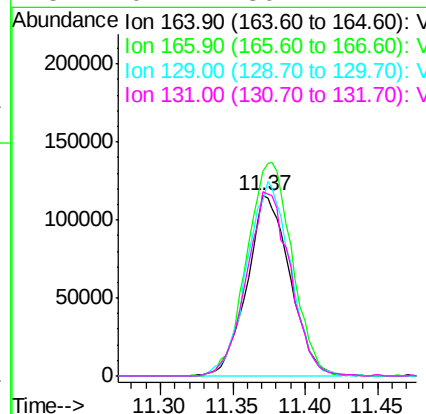
Delta R.T. -0.01 min

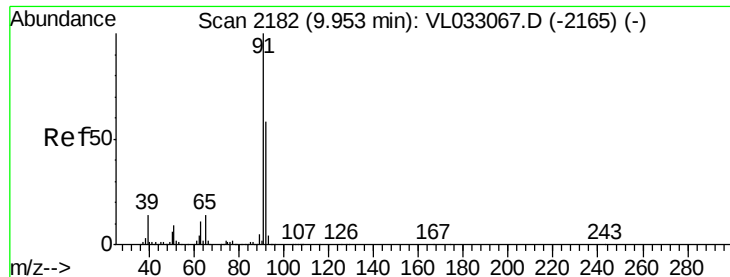
Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Tgt Ion: 164 Resp: 237998

Ion	Ratio	Lower	Upper
164	100		
166	113.1	100.8	151.2
129	97.0	84.6	126.8
131	102.2	80.7	121.1





#53

Toluene

Concen: 2.330 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 726700

Ion Ratio Lower Upper

91 100

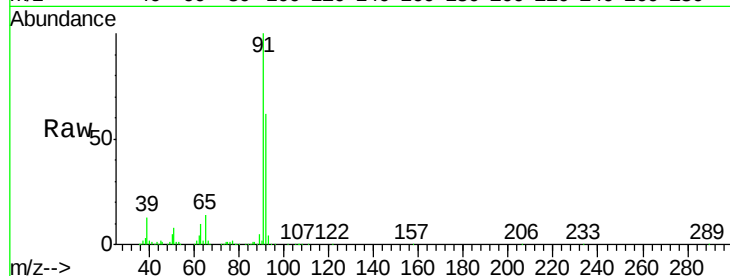
92 59.5 47.7 71.5

Manual Integrations

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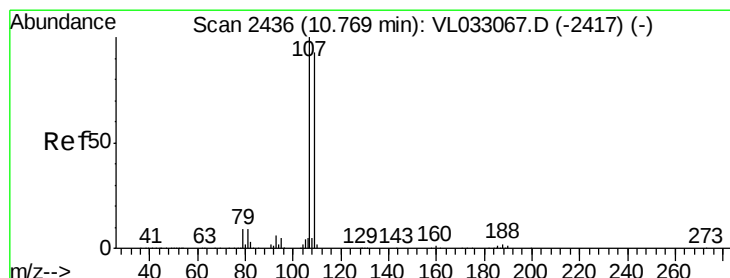
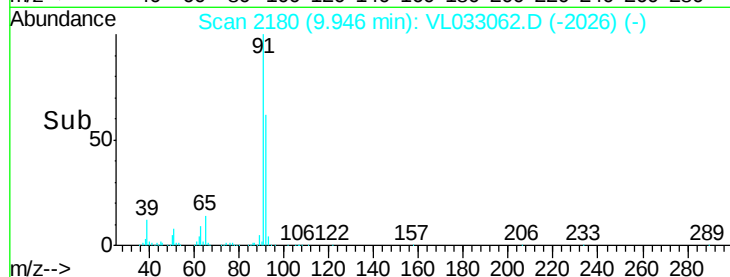
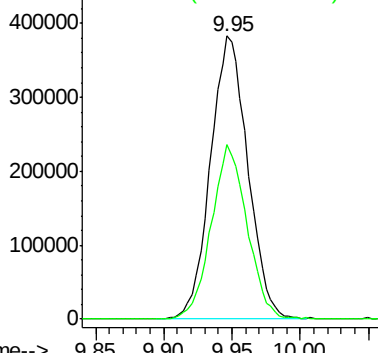
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 2.160 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. -0.00 min

Lab File: VL033062.D

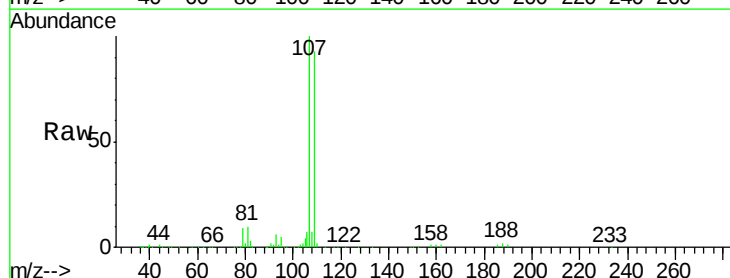
Acq: 4 Jan 2019 9:55

Tgt Ion: 107 Resp: 430551

Ion Ratio Lower Upper

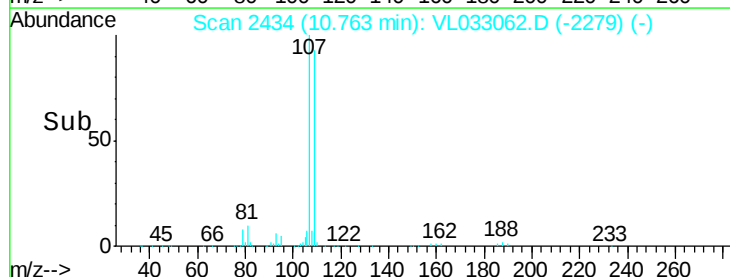
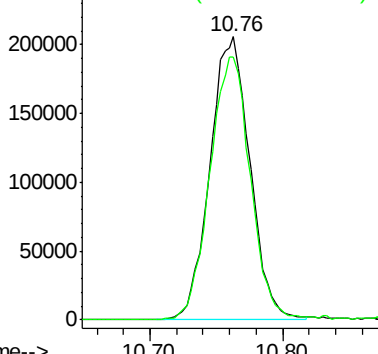
107 100

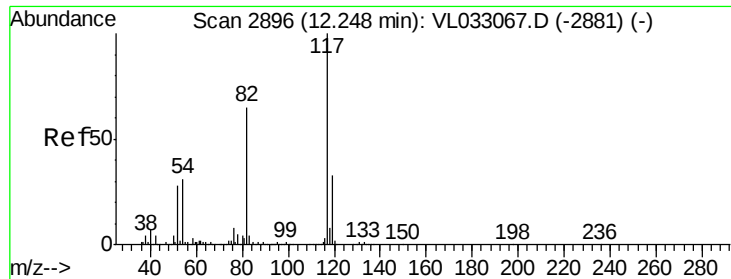
109 92.7 74.9 112.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





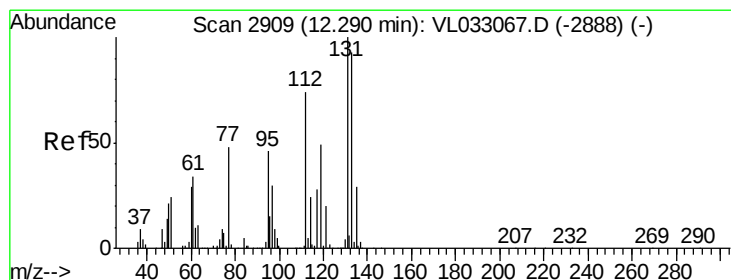
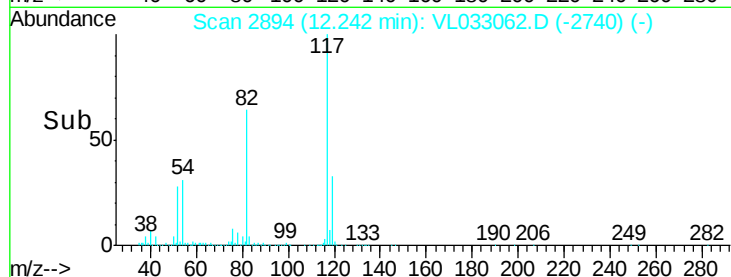
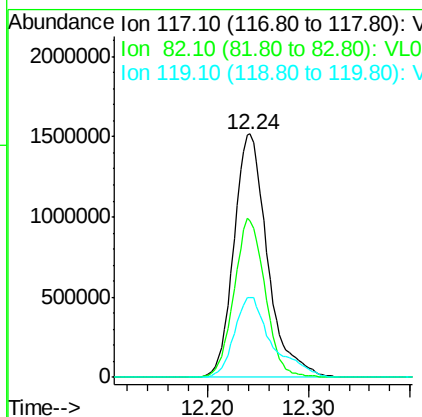
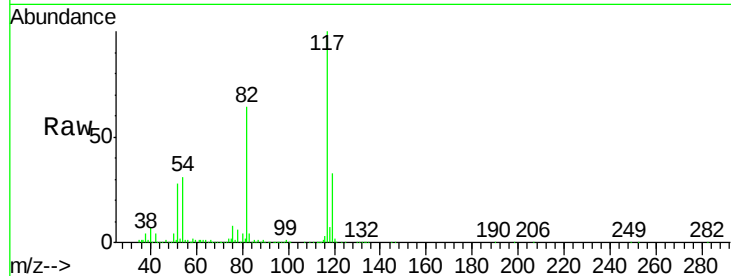
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.01 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.7	48.9	73.3
119	37.0	24.6	37.0#

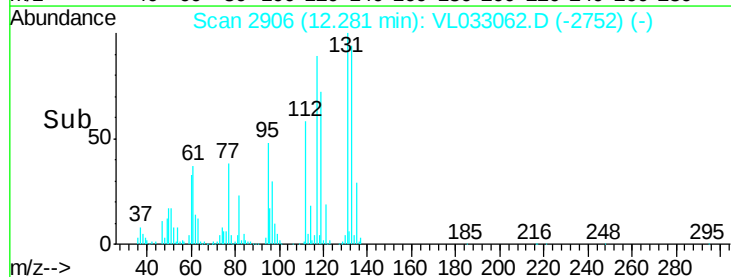
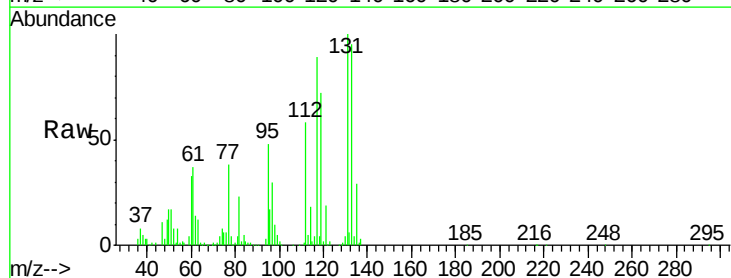
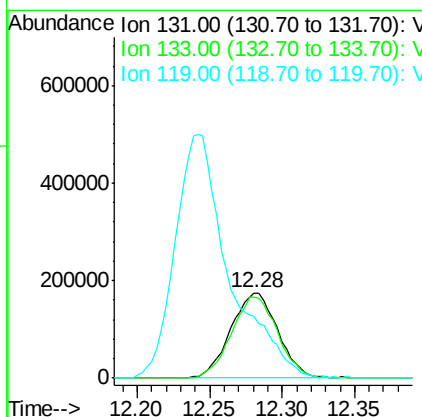
Manual Integrations
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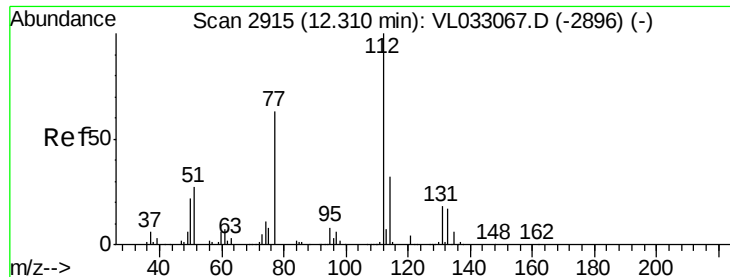
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 2.213 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.01 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.0	76.0	114.0
119	330.9	44.2	66.2#





#57

Chlorobenzene

Concen: 2.217 ppbv

RT: 12.30 min Scan# 2912

Delta R.T. -0.01 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Instrument :

MSVOA_L

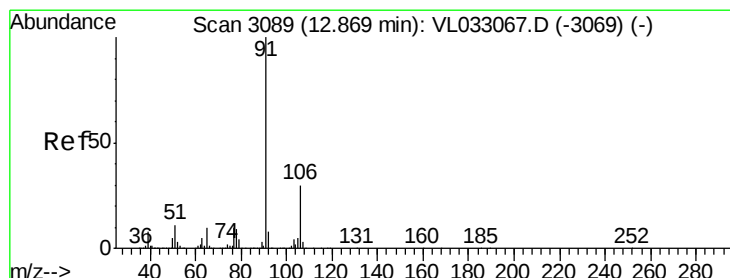
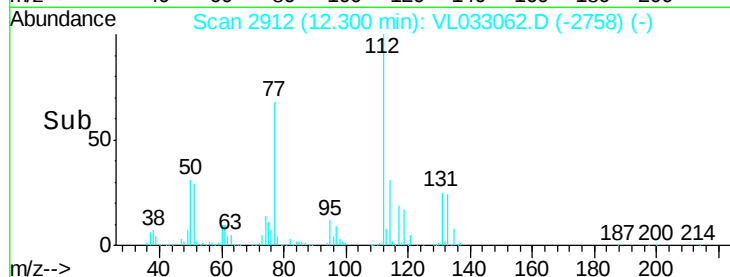
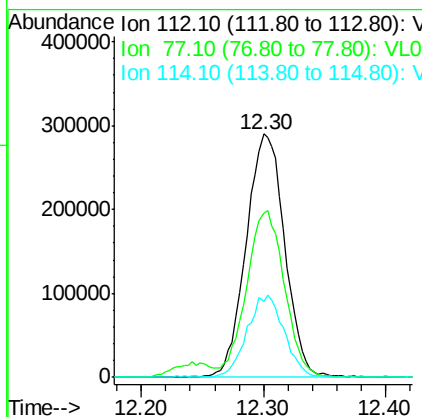
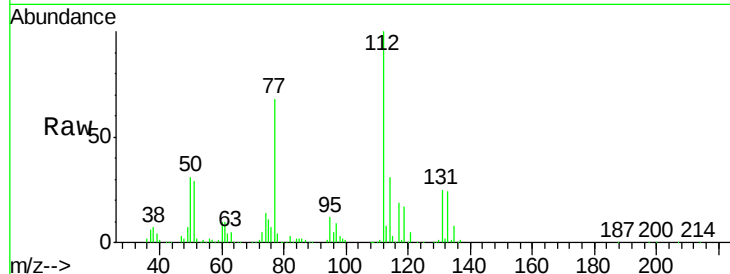
ClientSampleId :

VSTDIC002

Tot Ion:	112	Resp:	630423
Ion Ratio	Lower	Upper	
112	100		
77	67.2	53.4	80.0
114	31.4	30.0	36.6

Manual Integrations
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#58

Ethyl Benzene

Concen: 2.370 ppbv

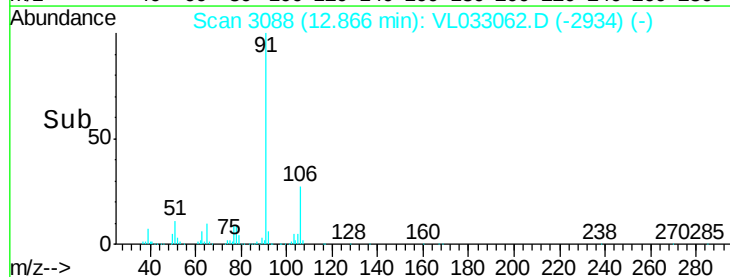
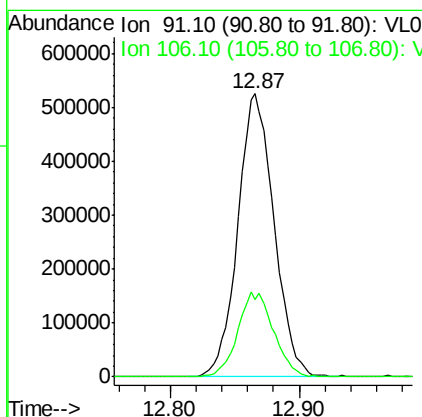
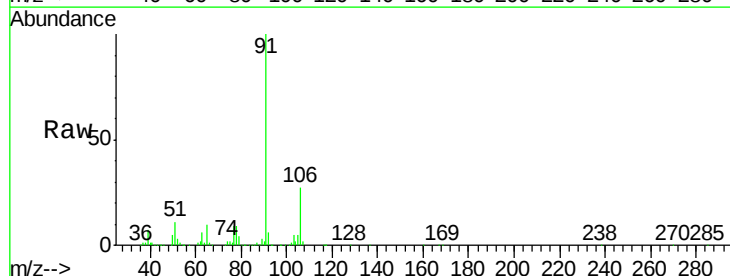
RT: 12.87 min Scan# 3088

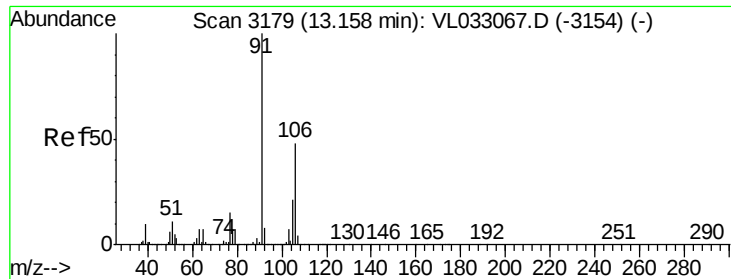
Delta R.T. -0.01 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Tgt Ion:	91	Resp:	1022753
Ion Ratio	Lower	Upper	
91	100		
106	27.4	24.3	36.5





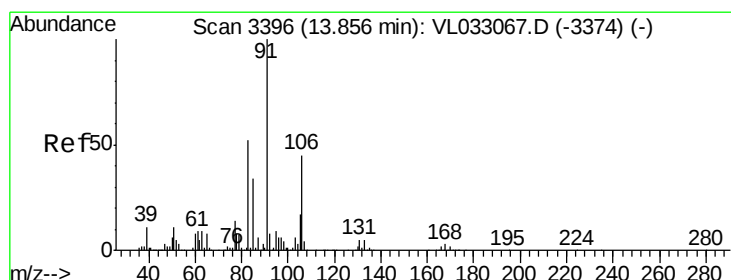
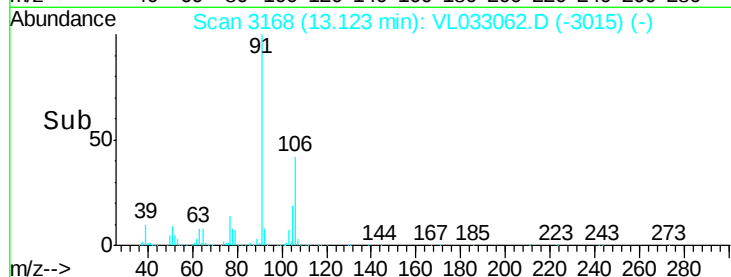
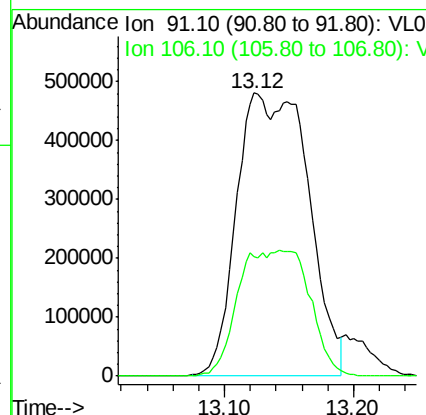
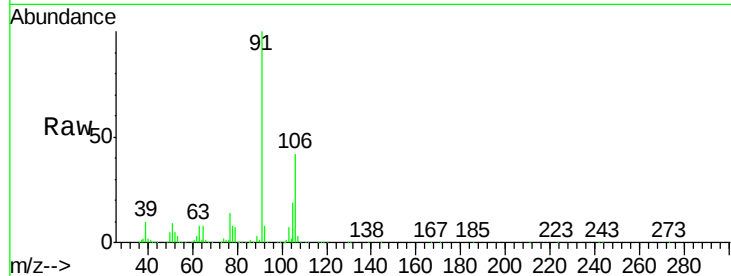
#59
m/p-Xylene
Concen: 4.618 ppbv m
RT: 13.12 min Scan# 3168
Delta R.T. -0.01 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 1850483
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

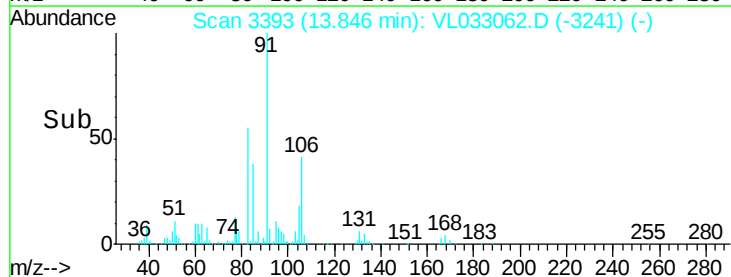
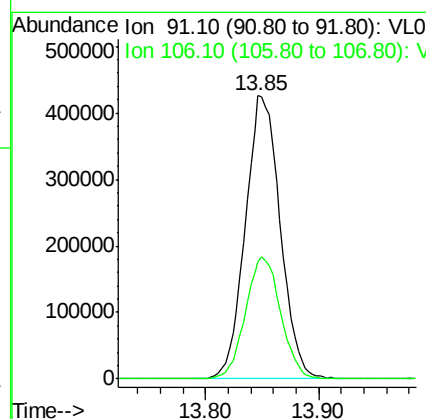
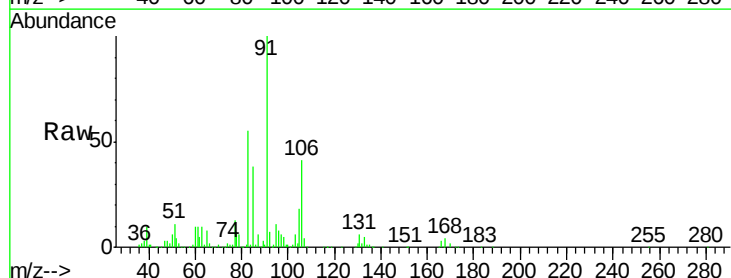
Manual Integrations
APPROVED

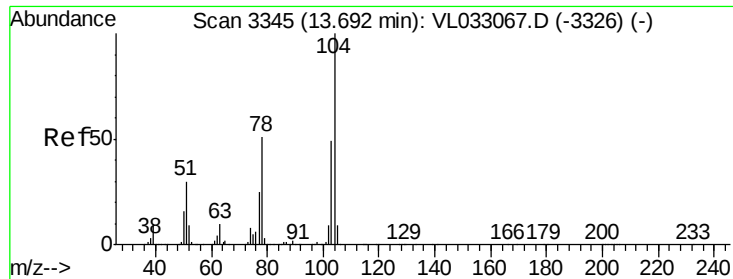
MMDadoda
1/8/2019 12:01:03 AM



#60
o-Xylene
Concen: 2.327 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Tgt Ion: 91 Resp: 911721
Ion Ratio Lower Upper
91 100
106 43.5 22.1 66.5





#61

Stvrene

Concen: 2.371 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Instrument :

MSVOA_L

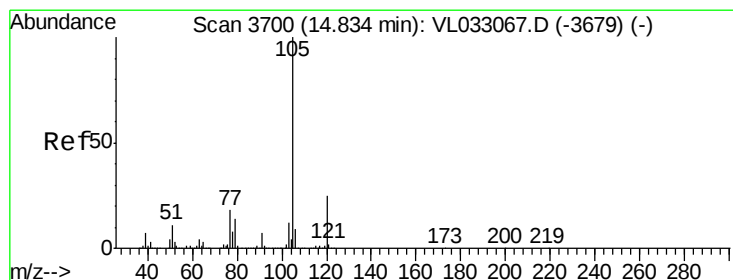
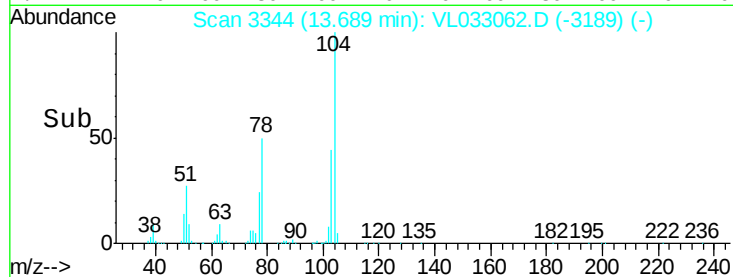
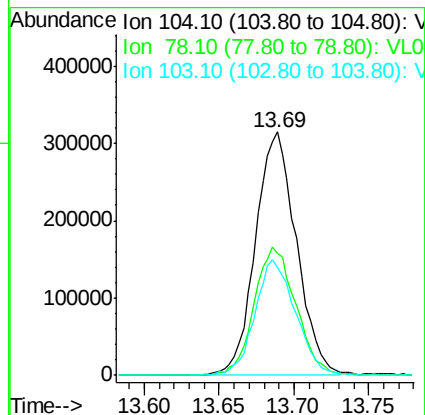
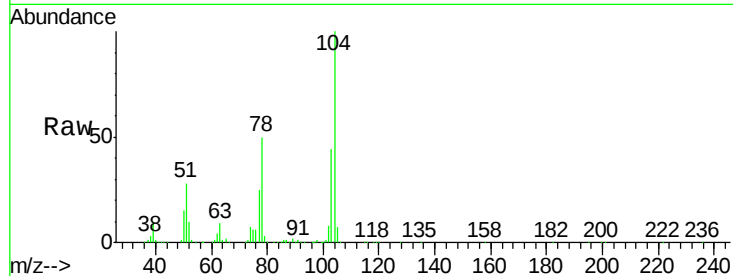
ClientSampleId :

VSTDIC002

Tot Ion:	104	Resp:	599037
Ion Ratio		Lower	Upper
104	100		
78	53.9	41.6	62.4
103	47.4	38.1	57.1

Manual Integrations
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#62

Isopropylbenzene

Concen: 2.315 ppbv

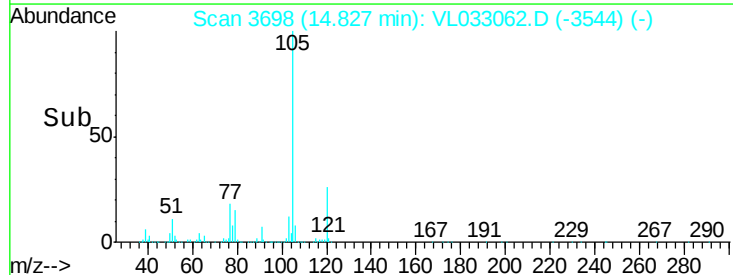
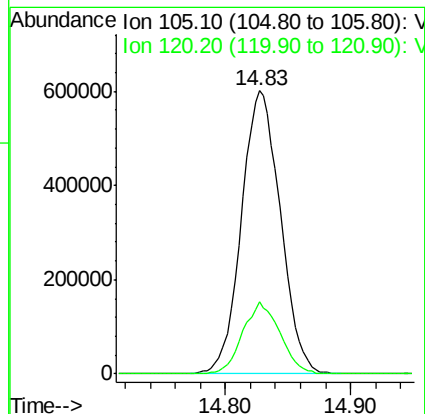
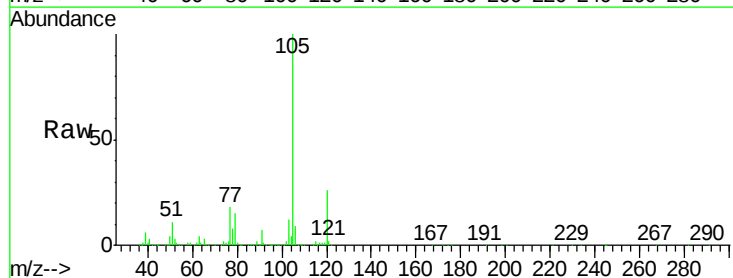
RT: 14.83 min Scan# 3698

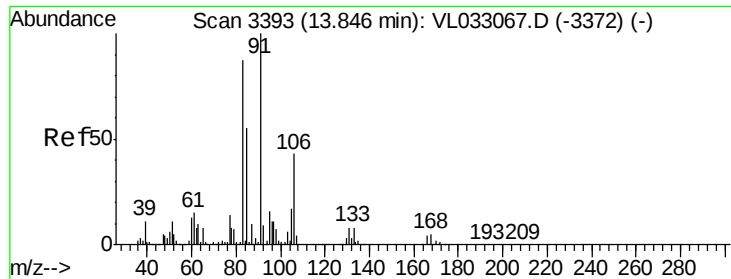
Delta R.T. -0.01 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Tgt Ion:	105	Resp:	1295095
Ion Ratio		Lower	Upper
105	100		
120	24.4	20.4	30.6





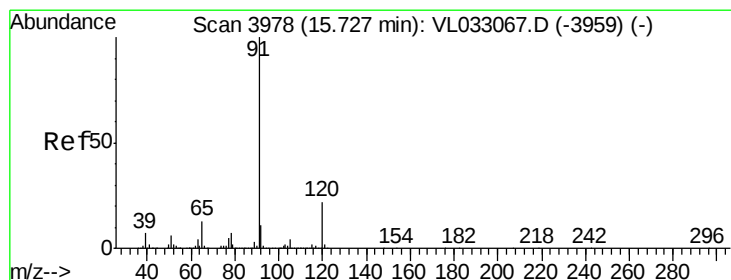
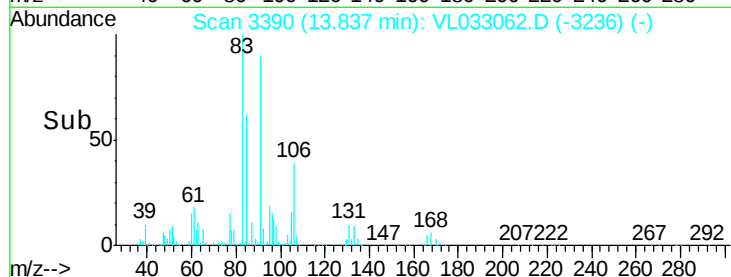
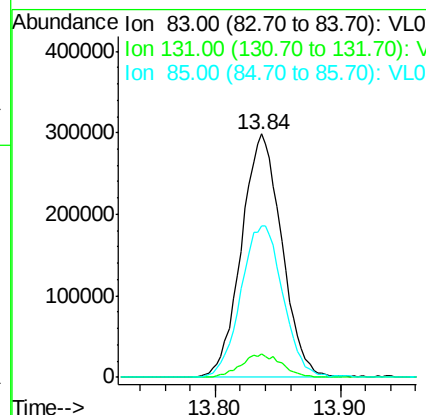
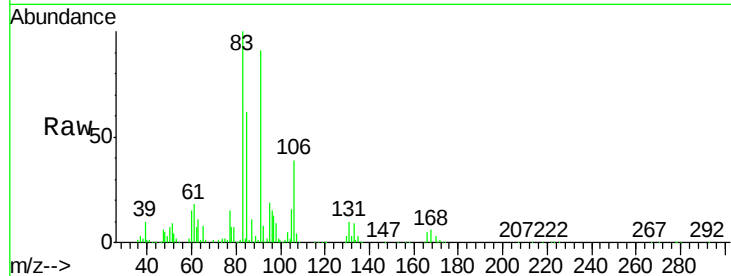
#63
 1,1,2,2-Tetrachloroethane
 Concen: 2.162 ppbv
 RT: 13.84 min Scan# 3390
 Delta R.T. -0.01 min
 Lab File: VL033062.D
 Acq: 4 Jan 2019 9:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	83	Resp	663077
Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.8	14.4
85	65.8	32.6	97.8

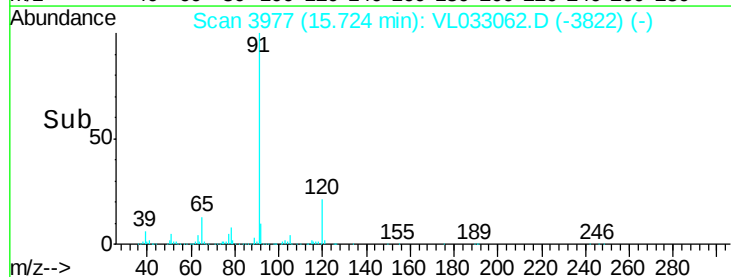
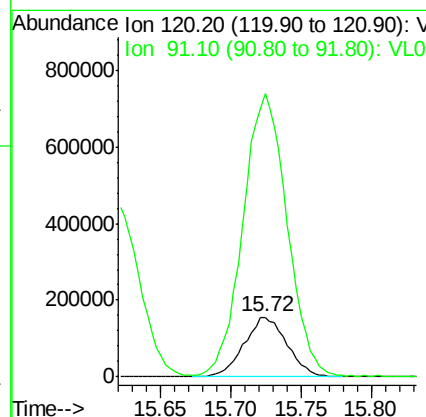
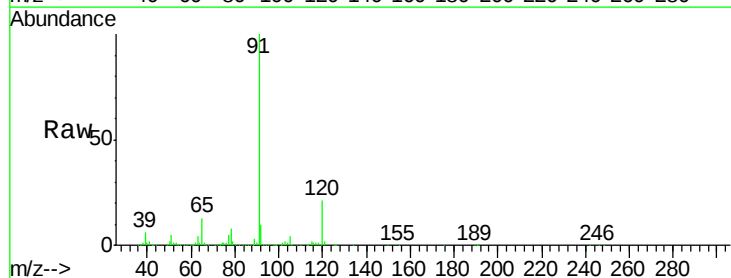
Manual Integrations
 APPROVED

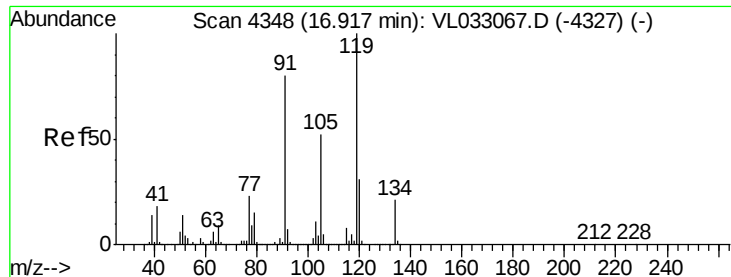
MMDadoda
 1/8/2019 12:01:03 AM



#64
 n-propylbenzene
 Concen: 2.407 ppbv
 RT: 15.72 min Scan# 3977
 Delta R.T. -0.00 min
 Lab File: VL033062.D
 Acq: 4 Jan 2019 9:55

Tgt Ion	120	Resp	332050
Ion	Ratio	Lower	Upper
120	100		
91	489.3	378.7	568.1





#65

tert-Butylbenzene

Concen: 2.397 ppbv

RT: 16.91 min Scan# 4346

Delta R.T. -0.01 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 119 Resp: 1193704

Ion Ratio Lower Upper

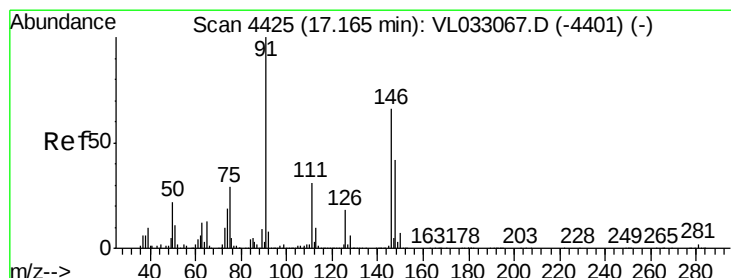
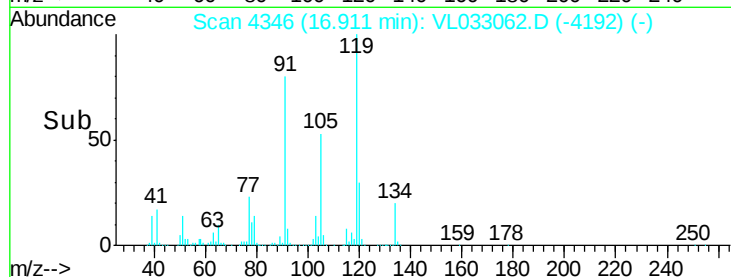
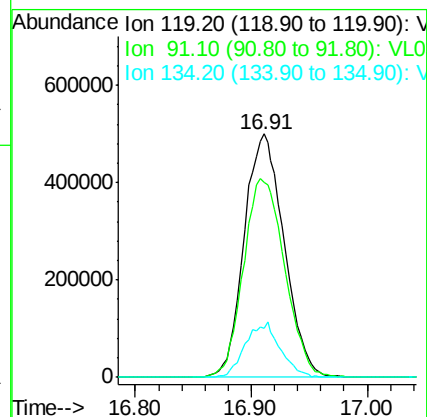
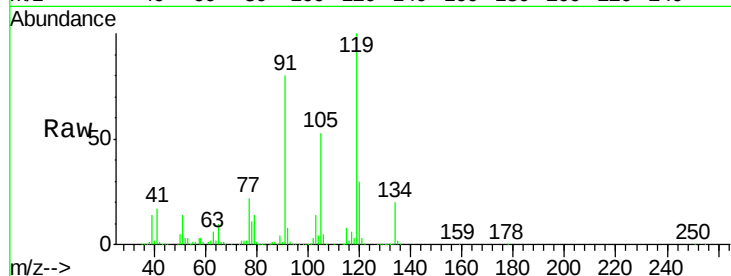
119 100

91 84.9 64.6 97.0

134 20.0 15.8 23.8

Manual Integrations
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#66

Benzyl Chloride

Concen: 2.299 ppbv

RT: 17.16 min Scan# 4422

Delta R.T. -0.01 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

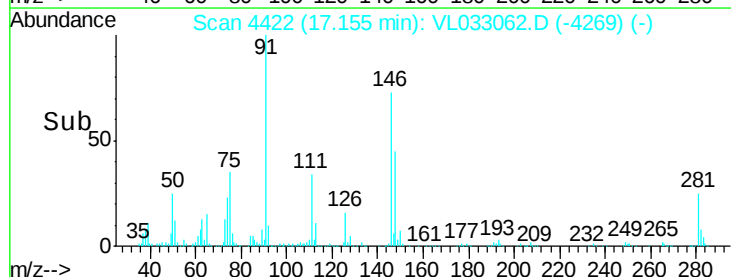
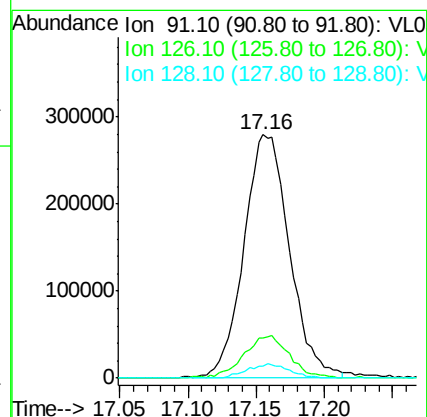
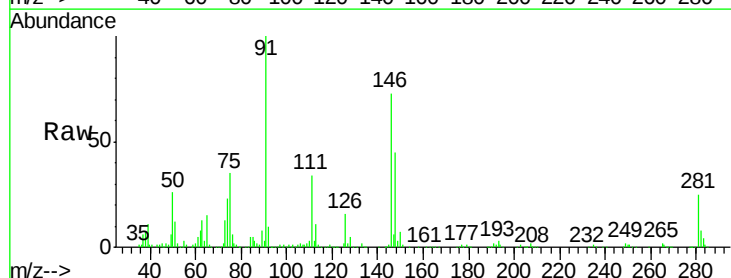
Tgt Ion: 91 Resp: 643601

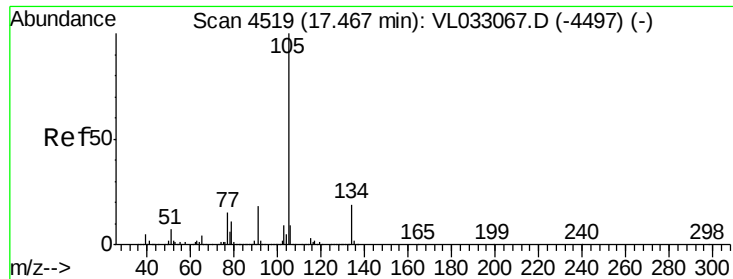
Ion Ratio Lower Upper

91 100

126 17.9 14.4 21.6

128 5.6 4.5 6.7





#67

sec-Butylbenzene

Concen: 2.403 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.01 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 1687190

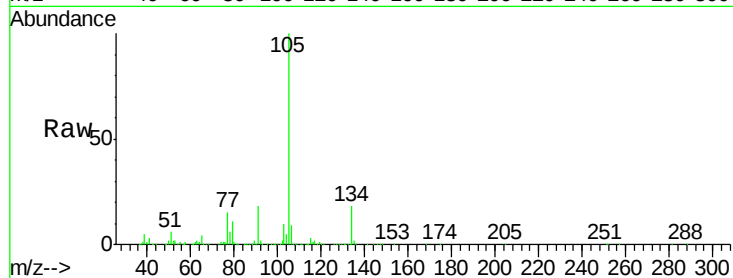
Ion Ratio Lower Upper

105 100

134 18.0 14.6 21.8

Manual Integrations
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MMDadoda
1/8/2019 12:01:03 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.46

800000

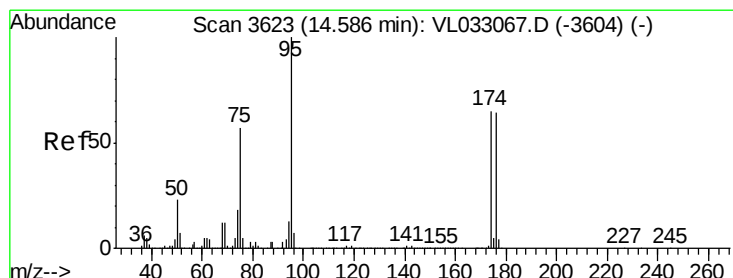
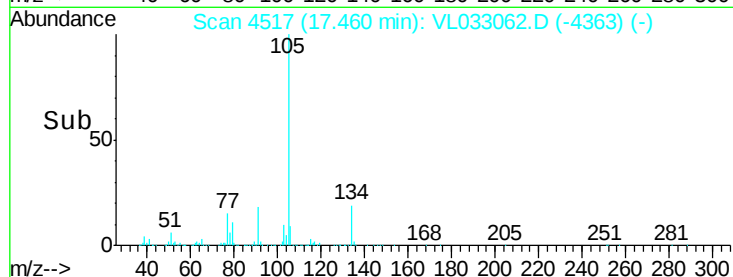
600000

400000

200000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.041 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.00 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

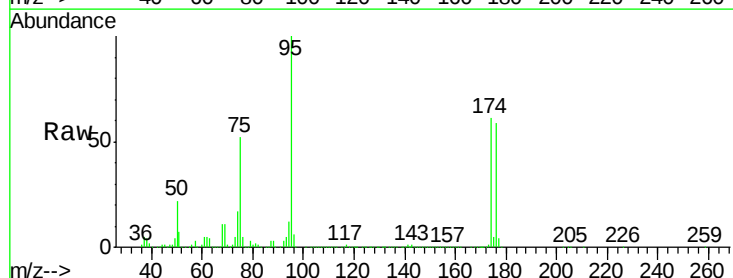
Tgt Ion: 95 Resp: 2626909

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

14.58

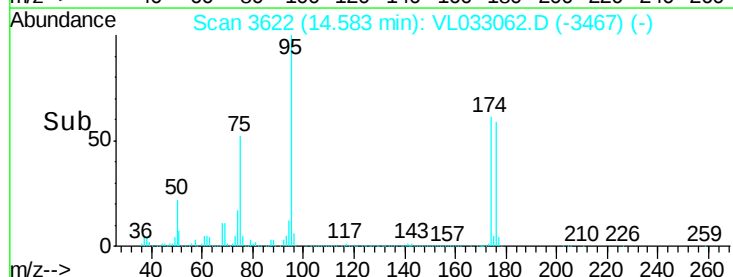
1500000

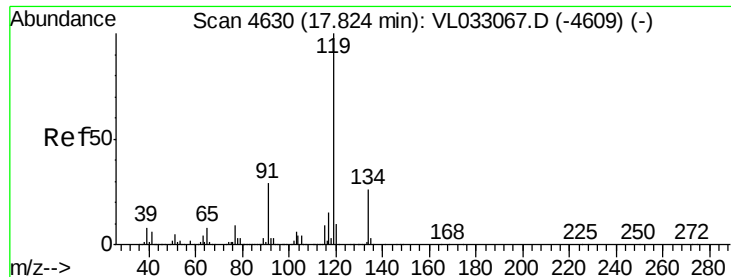
1000000

500000

0

Time-->





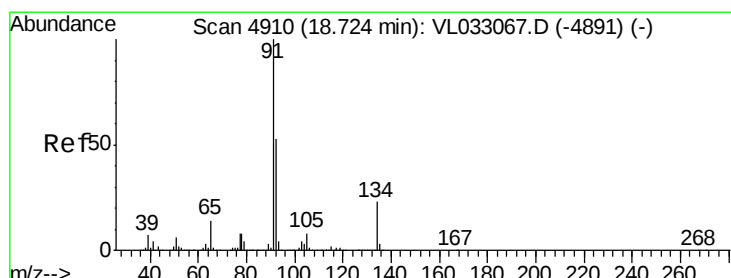
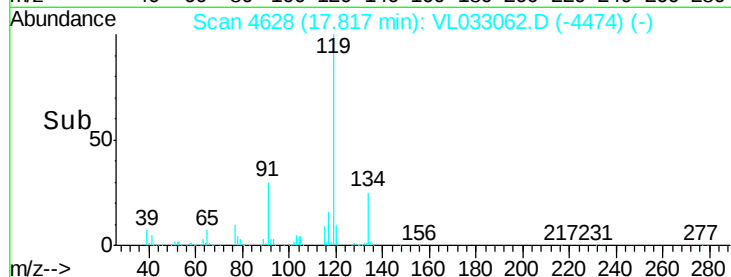
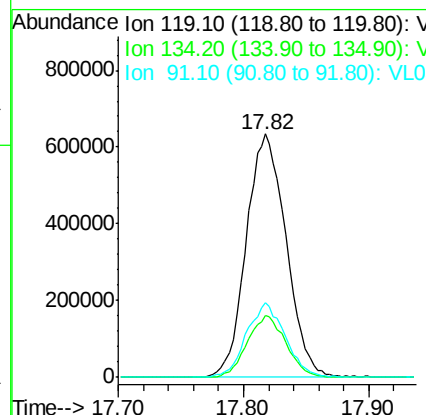
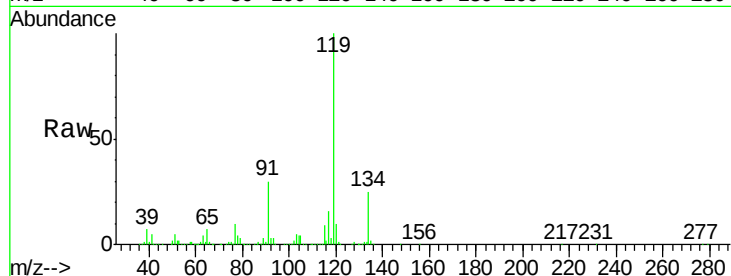
#69
p-Isopropyltoluene
Concen: 2.461 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. -0.01 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.8	20.1	30.1
91	29.8	23.0	34.4

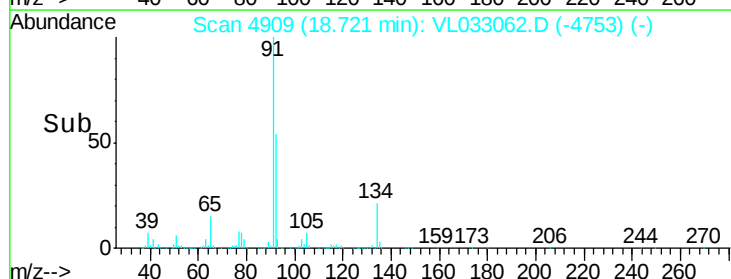
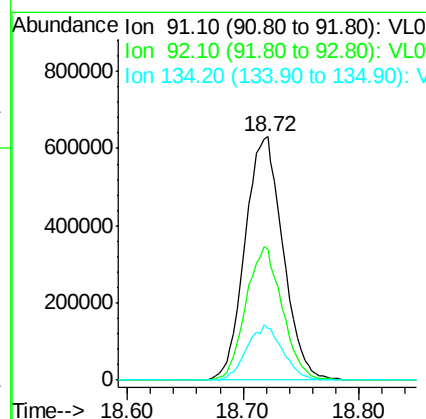
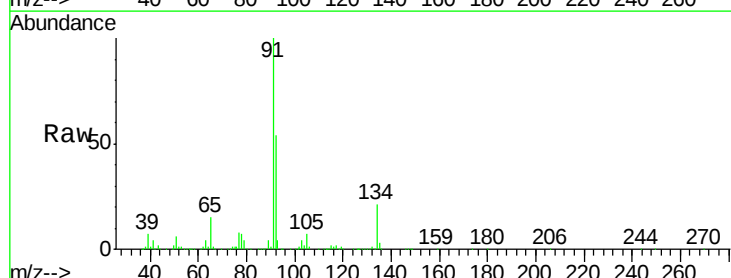
Manual Integrations
APPROVED

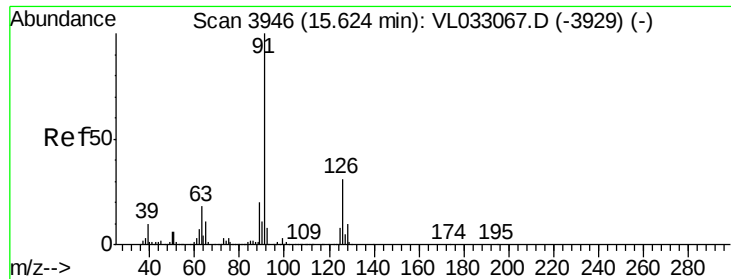
MMDadoda
1/8/2019 12:01:03 AM



#70
n-Butylbenzene
Concen: 2.472 ppbv
RT: 18.72 min Scan# 4909
Delta R.T. 0.00 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.8	42.4	63.6
134	21.5	18.0	27.0





#71

2-Chlorotoluene

Concen: 2.415 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.01 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 957376

Ion Ratio Lower Upper

91 100

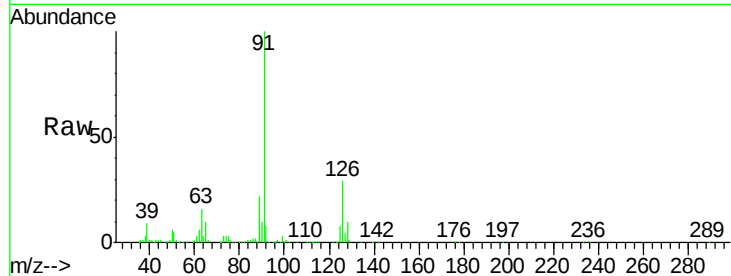
126 29.6 12.4 49.6

Manual Integrations

APPROVED

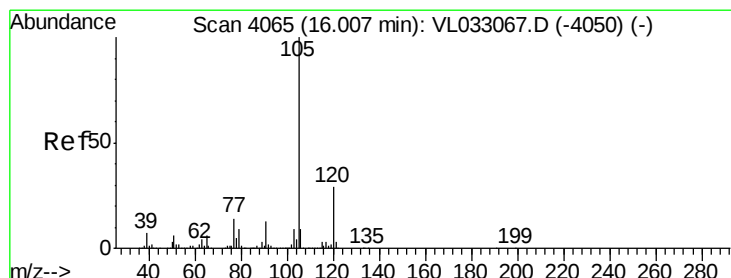
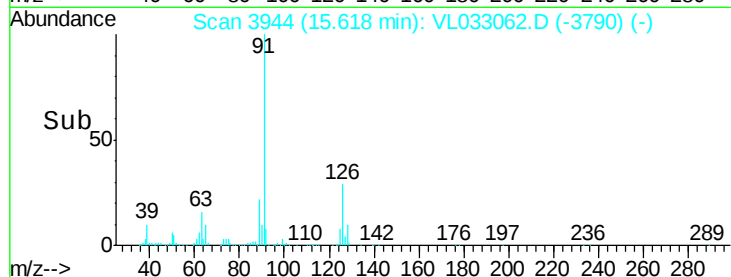
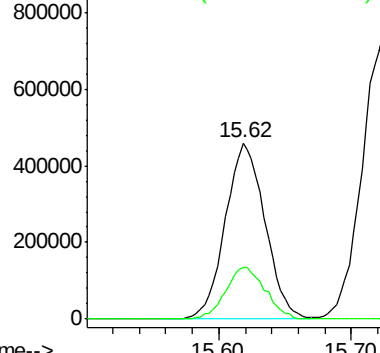
MMDadoda

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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: 2.362 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. -0.01 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Tgt Ion: 105 Resp: 1030942

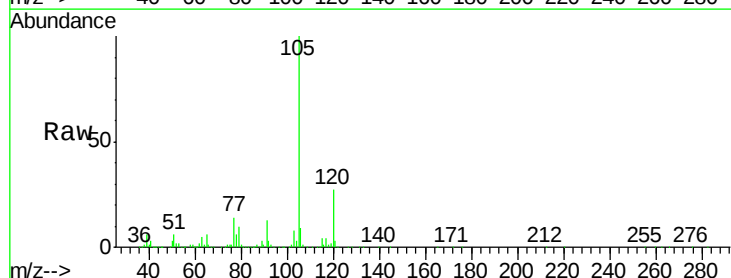
Ion Ratio Lower Upper

105 100

120 29.0 23.0 34.6

91 14.1 10.3 15.5

77 14.0 11.1 16.7

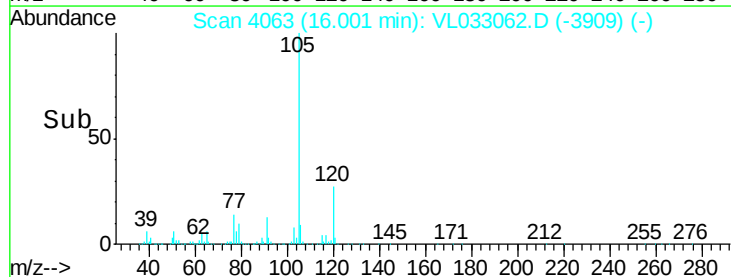
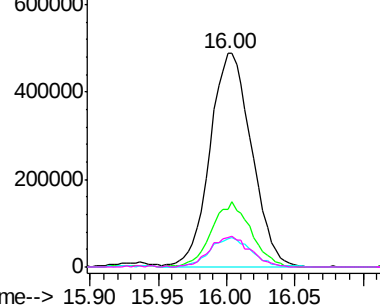


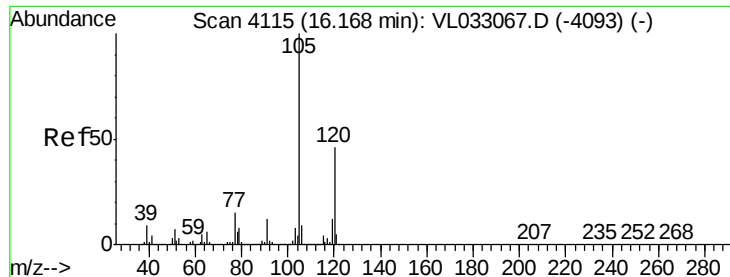
Abundance Ion 105.10 (104.80 to 105.80): V

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: 2.383 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. -0.00 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 1015137

Ion Ratio Lower Upper

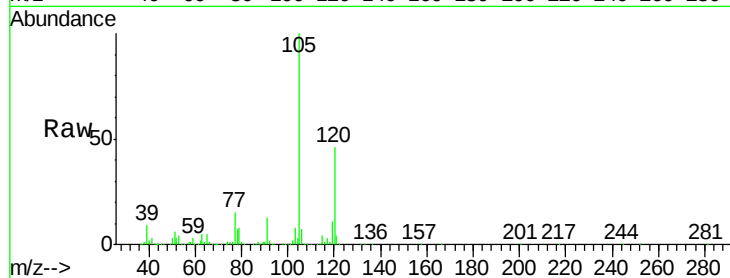
105 100

120 45.8 36.1 54.1

Manual Integrations
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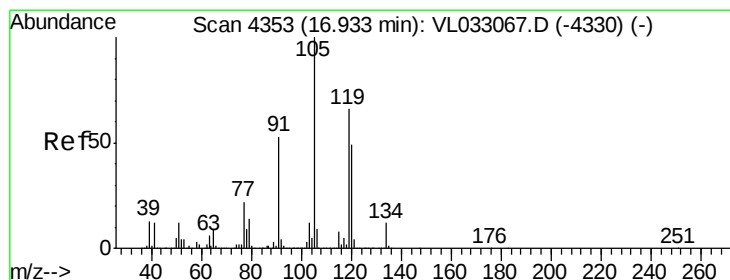
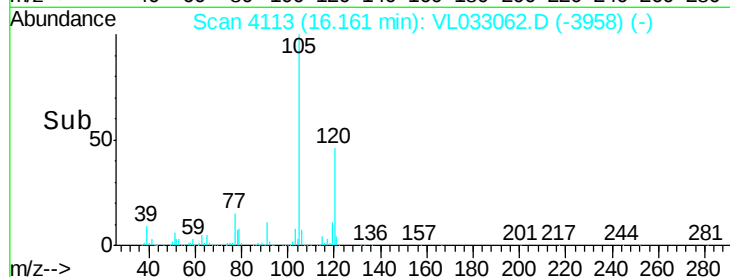
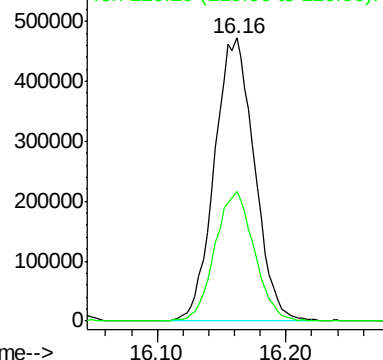
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 2.380 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.01 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Tgt Ion:105 Resp: 1113600

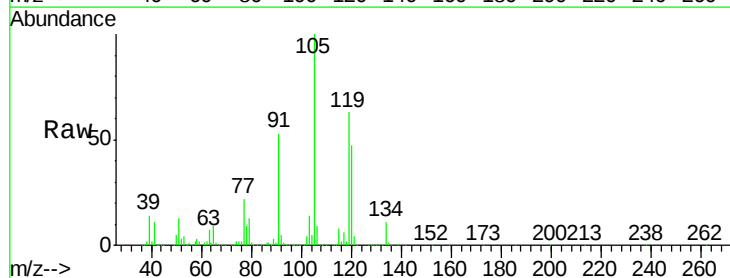
Ion Ratio Lower Upper

105 100

120 46.6 37.0 55.4

91 52.6 35.4 53.0

77 21.7 17.1 25.7

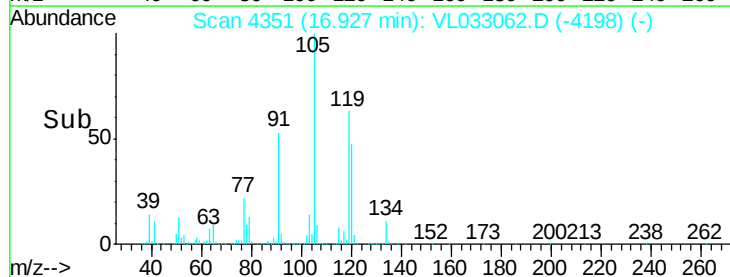
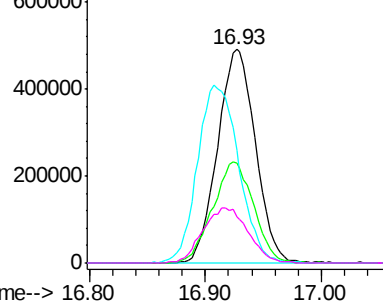


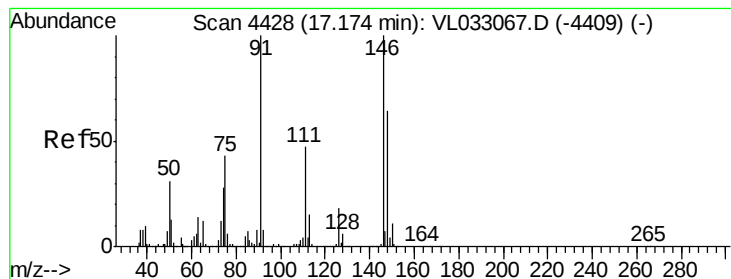
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





#75

1,3-Dichlorobenzene

Concen: 2.333 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. -0.01 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Instrument :

MSVOA_L

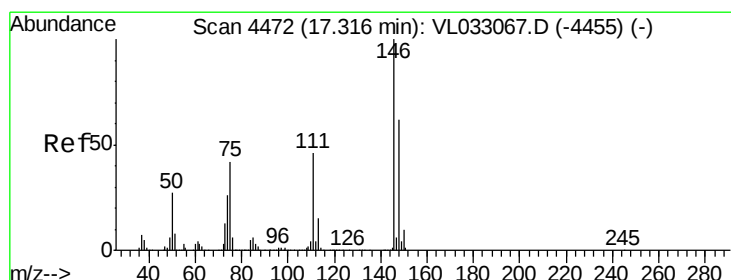
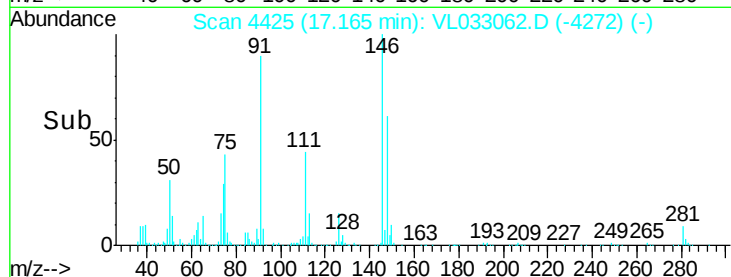
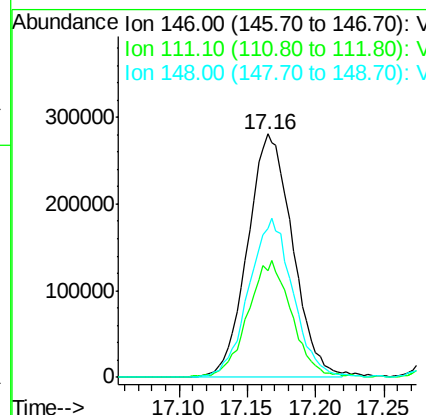
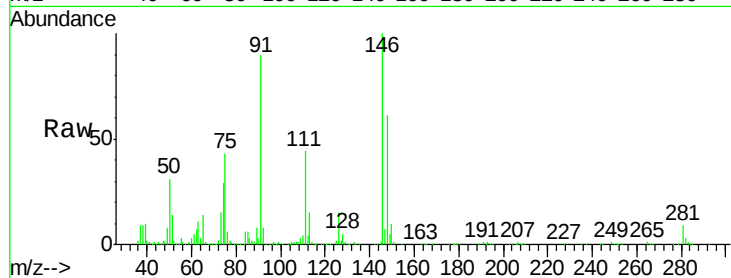
ClientSampleId :

VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.5	23.4	70.2
148	64.7	32.1	96.3

Manual Integrations
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1/8/2019 12:01:03 AM



#76

1,4-Dichlorobenzene

Concen: 2.416 ppbv m

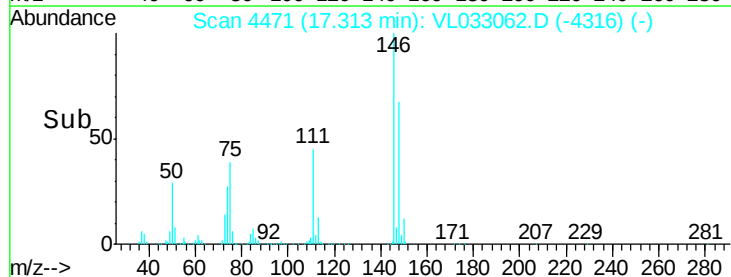
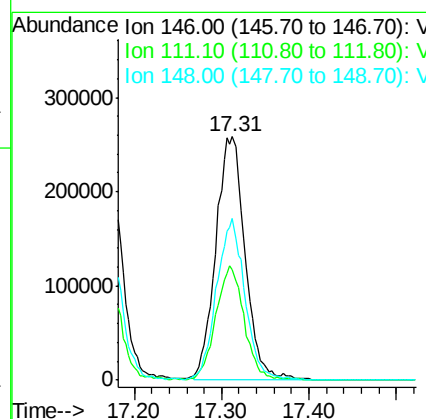
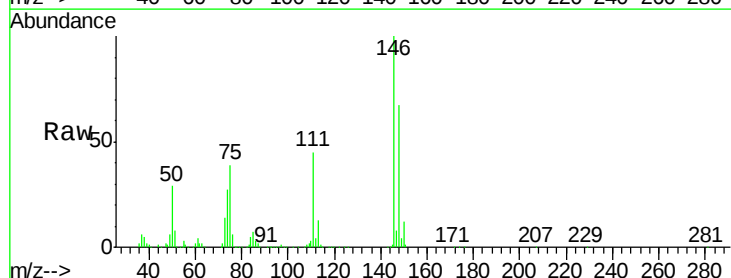
RT: 17.31 min Scan# 4471

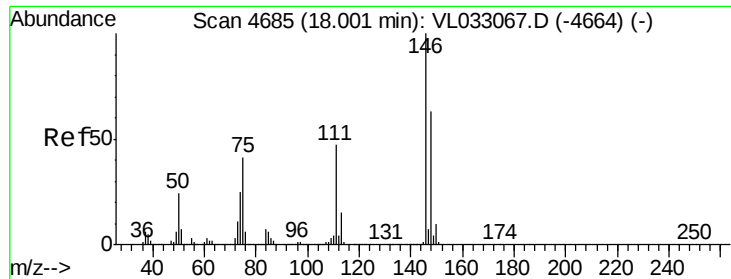
Delta R.T. -0.00 min

Lab File: VL033062.D

Acq: 4 Jan 2019 9:55

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.7	68.1#
148	0.0	32.4	97.2#





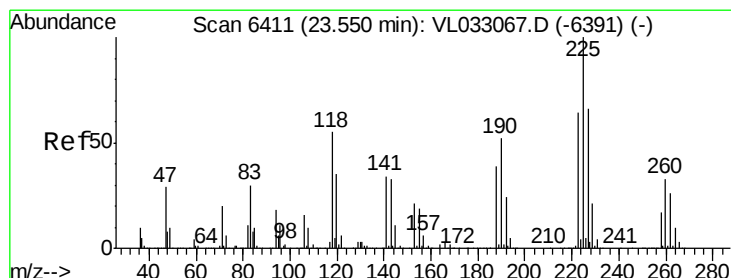
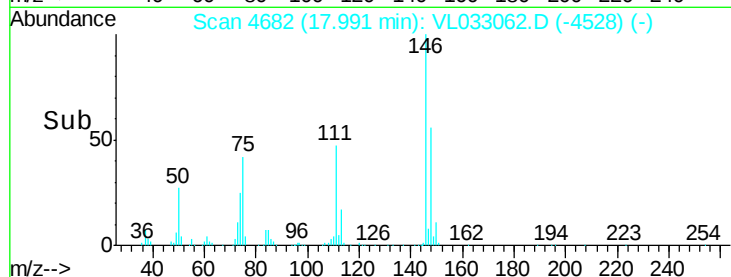
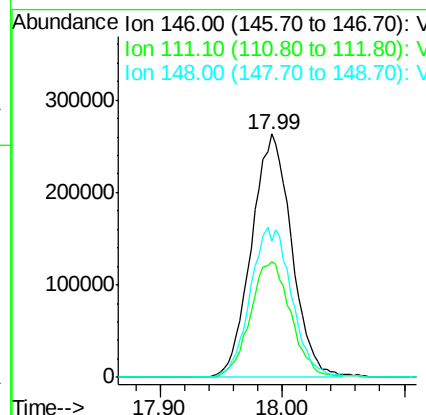
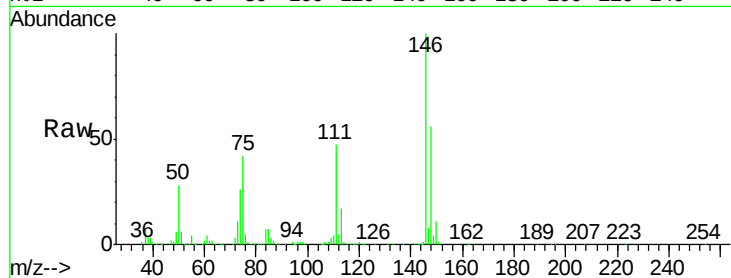
#77
 1,2-Dichlorobenzene
 Concen: 2.384 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. -0.01 min
 Lab File: VL033062.D
 Acq: 4 Jan 2019 9:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.1	24.4	73.2
148	63.8	32.3	96.9

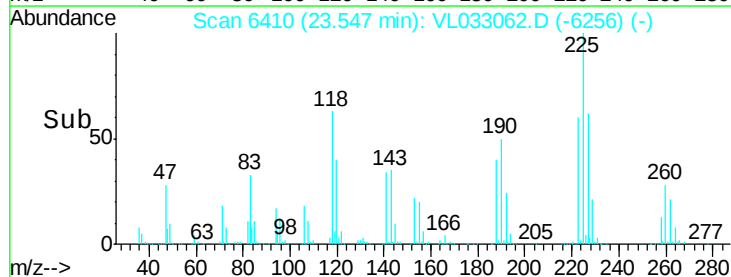
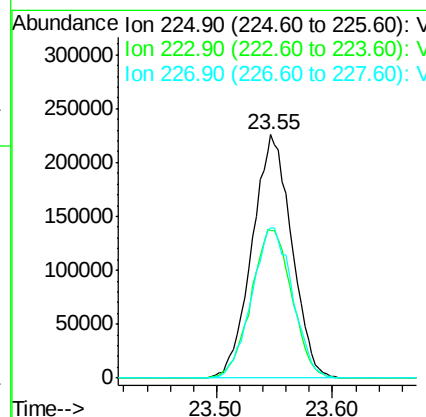
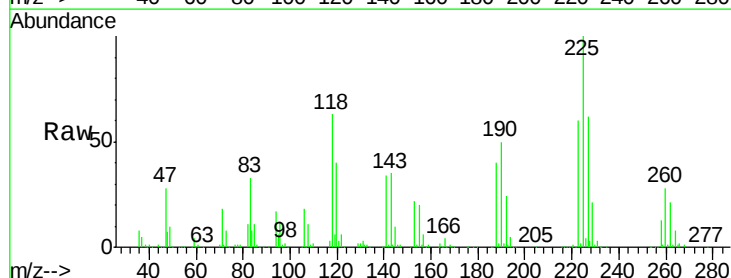
Manual Integrations
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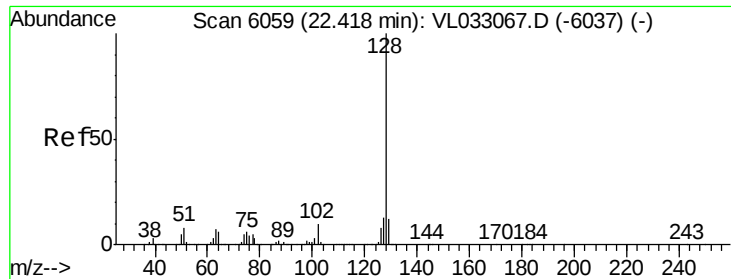
MMDadoda
 1/8/2019 12:01:03 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 3.035 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.01 min
 Lab File: VL033062.D
 Acq: 4 Jan 2019 9:55

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.8	51.0	76.6
227	63.7	51.0	76.4





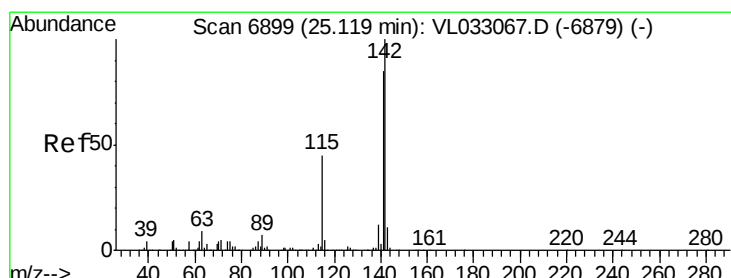
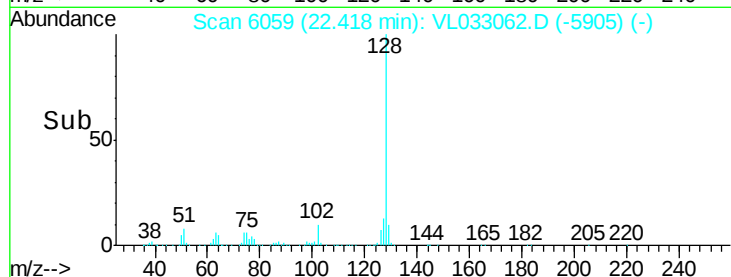
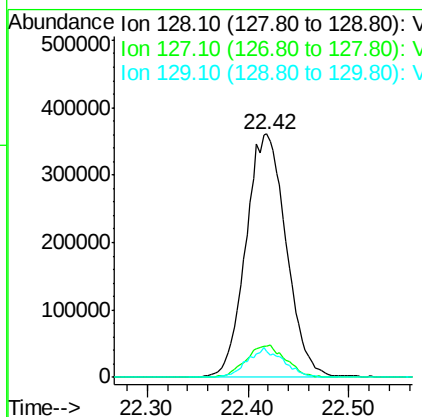
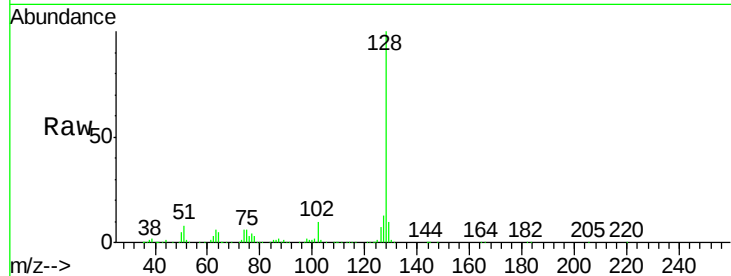
#79
Naphthalene
Concen: 2.353 ppbv
RT: 22.42 min Scan# 6059
Delta R.T. -0.01 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	11.0	16.6
129	10.5	9.4	14.0

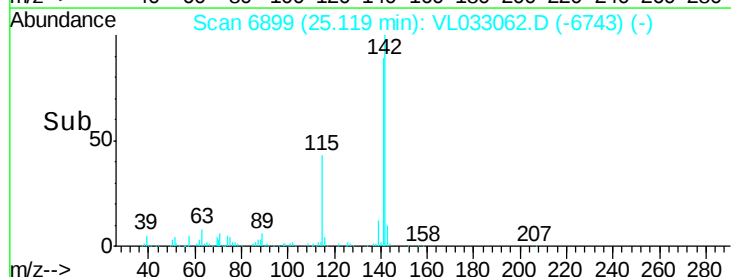
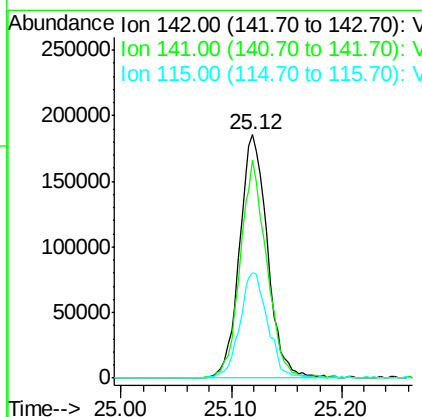
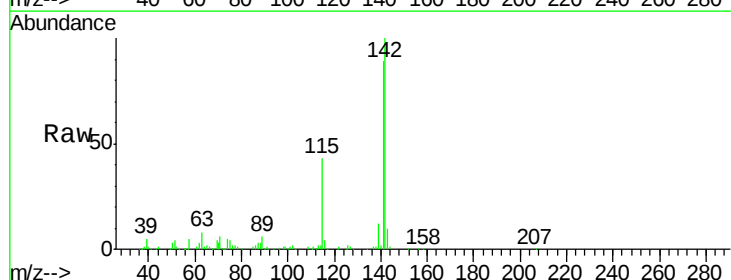
Manual Integrations
APPROVED

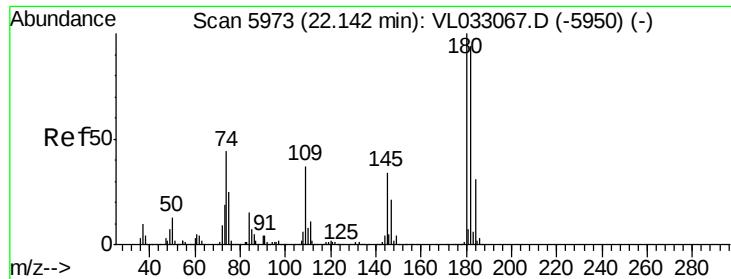
MMDadoda
1/8/2019 12:01:03 AM



#80
Naphthalene, 2-methyl-
Concen: 2.757 ppbv
RT: 25.12 min Scan# 6899
Delta R.T. 0.00 min
Lab File: VL033062.D
Acq: 4 Jan 2019 9:55

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.4	68.6	103.0
115	43.3	35.6	53.4





#81
 1,2,4-Trichlorobenzene
 Concen: 2.459 ppbv m
 RT: 22.14 min Scan# 5973
 Delta R.T. -0.00 min
 Lab File: VL033062.D
 Acq: 4 Jan 2019 9:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
180	100	476113		
182	0.0	76.1	114.1#	
184	0.0	24.6	37.0#	

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:01:03 AM

