

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032355.D
 Acq On : 15 Aug 2018 15:15
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL081518

Manual Integrations
 APPROVED

MMDadoda
 8/28/2018 2:52:34 PM

Quant Time: Aug 16 05:50:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 1
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	2207867	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.36	114	4751499	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	4765696	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.65	95	3386182	9.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.10%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.11	85	2282591	13.00	ppbv	99
3) Chlorodifluoromethane	3.05	51	1928963	9.43	ppbv	100
4) Chloromethane	3.21	50	1174043	9.65	ppbv	96
5) Vinyl Chloride	3.33	62	1129223	9.73	ppbv	99
6) Bromomethane	3.56	94	612720	9.85	ppbv	98
7) Chloroethane	3.64	64	398922	9.80	ppbv	100
8) Dichlorotetrafluoroethane	3.26	85	2281771	9.15	ppbv	100
9) Propene	3.07	41	901077	10.29	ppbv	99
10) Heptane	8.31	43	2879087	10.92	ppbv	99
11) Trichlorofluoromethane	4.05	101	2314831	9.37	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.60	101	1557841	9.37	ppbv	97
13) Ethanol	3.69	45	242766	10.80	ppbv	97
14) Bromoethene	3.83	108	713091	9.92	ppbv	99
15) Acetone	3.95	43	1827064	8.71	ppbv	100
16) 1,3-Butadiene	3.40	39	974835	11.26	ppbv	85
17) tert-Butyl alcohol	4.41	59	347595m	9.88	ppbv	
18) 1,1-Dichloroethene	4.40	96	755949	9.76	ppbv	98
19) Isopropyl Alcohol	4.07	45	1443006	10.22	ppbv	99
20) Methylene Chloride	4.46	84	670868	8.47	ppbv	94
21) Allyl Chloride	4.53	41	1348129	10.18	ppbv	99
22) trans-1,2-Dichloroethene	5.02	96	724459	9.27	ppbv	99
23) Vinyl Acetate	5.21	43	3486076	9.62	ppbv	98
24) 1,1-Dichloroethane	5.14	63	2420879	9.26	ppbv	100
25) Ethyl Acetate	5.83	43	4330365	9.63	ppbv	99
26) Hexane	5.84	57	1987143	9.92	ppbv	100
27) Carbon Disulfide	4.67	76	1913363	10.23	ppbv	99
28) Methyl tert-Butyl Ether	5.17	73	2641209	9.93	ppbv	100
29) Chloroform	5.91	83	2842296	9.68	ppbv	100
30) Cyclohexane	7.31	84	1686668	11.05	ppbv	99
31) cis-1,2-Dichloroethene	5.70	61	2065932	10.54	ppbv	99
32) 1,1,1-Trichloroethane	6.68	97	2764637	9.67	ppbv	99
34) 2-Butanone	5.38	43	3144237	9.72	ppbv	99
35) Carbon Tetrachloride	7.20	117	2738895	9.78	ppbv	97
36) Benzene	7.07	78	3907351	9.70	ppbv	99
37) 1,2-Dichloroethane	6.48	62	2275375	9.31	ppbv	99
38) Trichloroethene	8.03	130	1367108	9.68	ppbv	98
39) 1,2-Dichloropropane	7.80	63	1645091	9.78	ppbv	96
40) 1,4-Dioxane	8.02	88	556327	10.88	ppbv	96
41) Tetrahydrofuran	6.21	42	1856308	10.69	ppbv	99
42) Bromodichloromethane	7.98	83	3121100	9.75	ppbv	99
43) Methyl Methacrylate	8.20	69	1694001	10.55	ppbv	98

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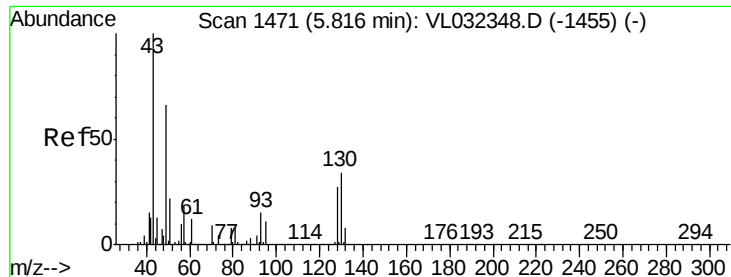
Manual Integrations
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Quant Time: Aug 16 05:50:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 14:58:02 2018
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.06	57	7182539	9.89	ppbv	99
45) t-1,3-Dichloropropene	9.49	75	2269991	11.18	ppbv	99
46) cis-1,3-Dichloropropene	8.90	75	2714486	11.15	ppbv	99
47) 1,1,2-Trichloroethane	9.68	97	1709852	9.23	ppbv	98
48) Dibromochloromethane	10.52	129	2442247	9.86	ppbv	100
49) Bromoform	13.28	173	1981725	9.64	ppbv	99
50) 4-Methyl-2-Pentanone	8.94	43	4670342	10.00	ppbv	100
51) 2-Hexanone	10.34	43	3523176	10.74	ppbv #	99
52) Tetrachloroethene	11.45	164	1154497	9.72	ppbv	97
53) Toluene	10.02	91	4369770	9.90	ppbv	99
54) 1,2-Dibromoethane	10.83	107	2285731	9.61	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.35	131	1752256	8.89	ppbv	99
57) Chlorobenzene	12.38	112	3175097	8.85	ppbv	98
58) Ethyl Benzene	12.94	91	5783001	10.09	ppbv	100
59) m/p-Xylene	13.22	91	9308223m	19.11	ppbv	
60) o-Xylene	13.92	91	4535233	9.47	ppbv	100
61) Styrene	13.76	104	3548550	10.61	ppbv	99
62) Isopropylbenzene	14.90	105	6406800	9.40	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.91	83	3440819	8.55	ppbv	100
64) n-propylbenzene	15.79	120	1697077	9.62	ppbv	99
65) tert-Butylbenzene	16.98	119	5323046	9.14	ppbv	100
66) Benzyl Chloride	17.23	91	3440944	9.98	ppbv	99
67) sec-Butylbenzene	17.53	105	7996933	9.24	ppbv	99
69) p-Isopropyltoluene	17.88	119	6298101	9.51	ppbv	100
70) n-Butylbenzene	18.78	91	6978964	9.61	ppbv	100
71) 2-Chlorotoluene	15.69	91	5147455	9.76	ppbv	100
72) 4-Ethyltoluene	16.07	105	5429999	10.17	ppbv	100
73) 1,3,5-Trimethylbenzene	16.23	105	5148405	10.02	ppbv	98
74) 1,2,4-Trimethylbenzene	17.00	105	5041976	9.23	ppbv	97
75) 1,3-Dichlorobenzene	17.24	146	2824354	8.60	ppbv	100
76) 1,4-Dichlorobenzene	17.38	146	2887950	9.28	ppbv	99
77) 1,2-Dichlorobenzene	18.06	146	2790429	8.89	ppbv	99
78) Hexachloro-1,3-Butadiene	23.61	225	1696393	16.11	ppbv	100
79) Naphthalene	22.49	128	4641248	9.11	ppbv	98
80) Naphthalene, 2-methyl-	25.17	142	1799950	16.51	ppbv	99
81) 1,2,4-Trichlorobenzene	22.22	180	2221267	10.51	ppbv	99

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.82 min Scan# 1472

Delta R.T. 0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081518

Tot Ion: 49 Resp: 2207867

Ion Ratio Lower Upper

49 100

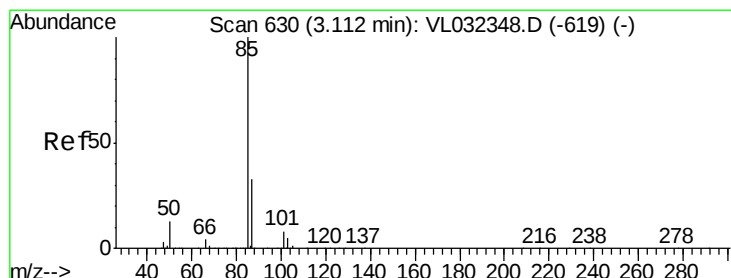
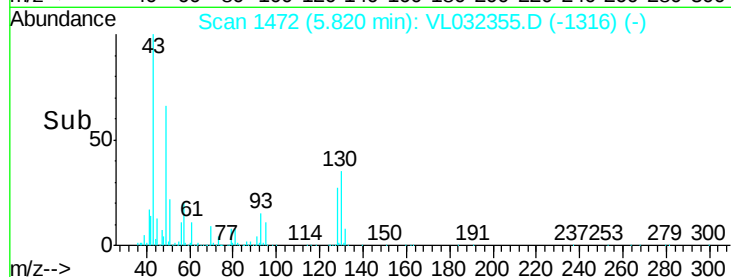
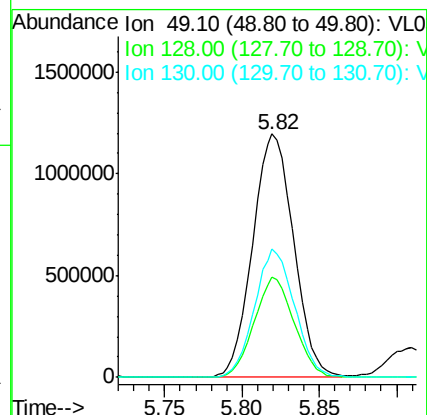
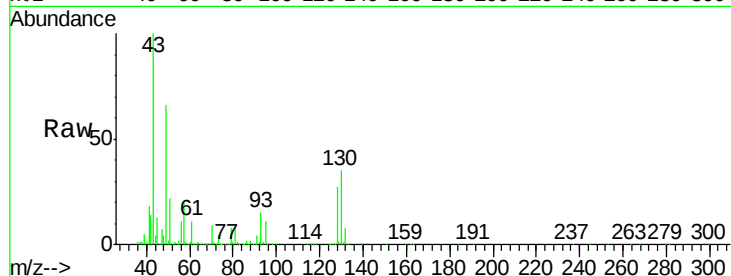
128 40.3 20.5 61.6

130 51.7 26.2 78.5

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#2

Dichlorodifluoromethane

Concen: 13.00 ppbv

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL032355.D

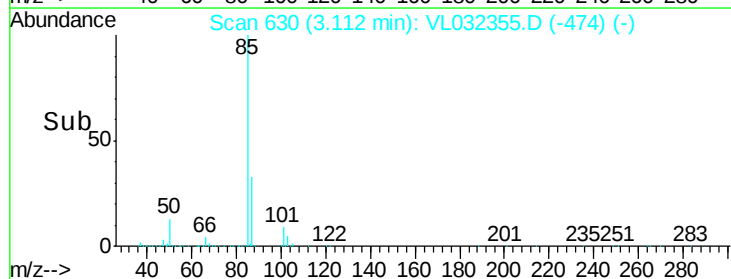
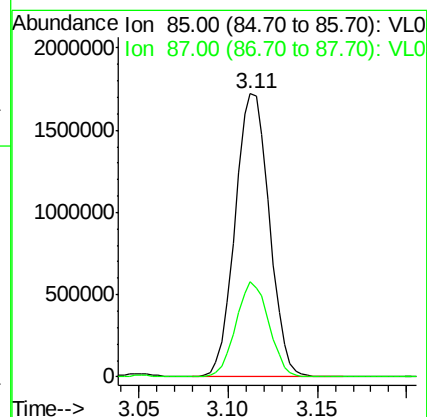
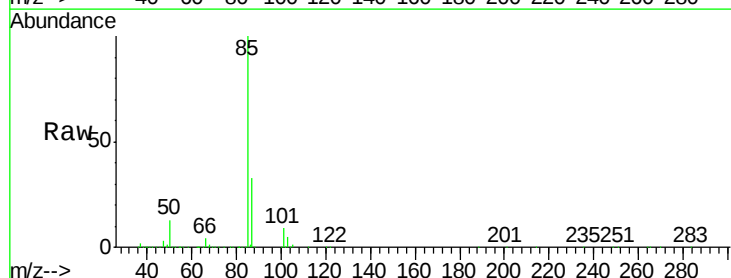
Acq: 15 Aug 2018 15:15

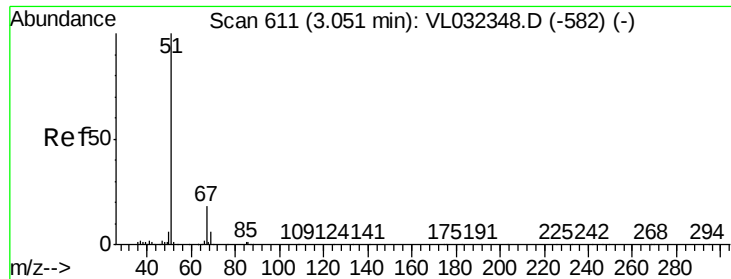
Tgt Ion: 85 Resp: 2282591

Ion Ratio Lower Upper

85 100

87 33.4 26.3 39.5





#3

Chlorodifluoromethane

Concen: 9.43 ppbv

RT: 3.05 min Scan# 611

Delta R.T. -0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081518

Tot Ion: 51 Resp: 1928963

Ion Ratio Lower Upper

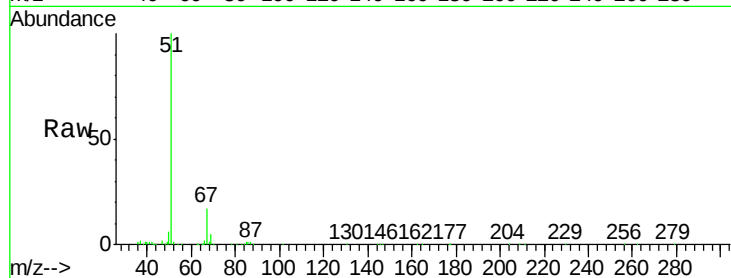
51 100

67 17.1 13.7 20.5

Manual Integrations
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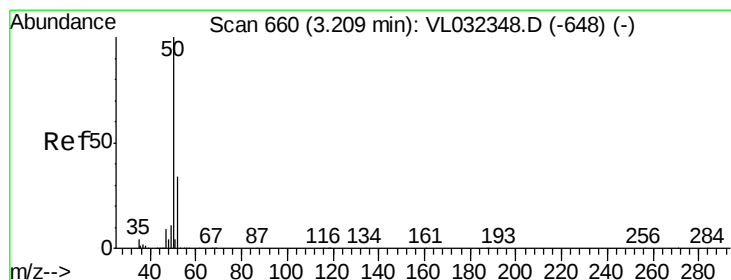
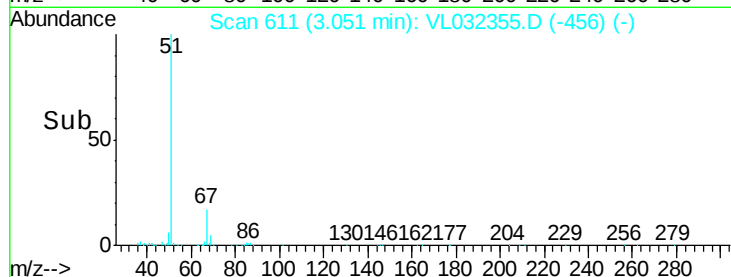
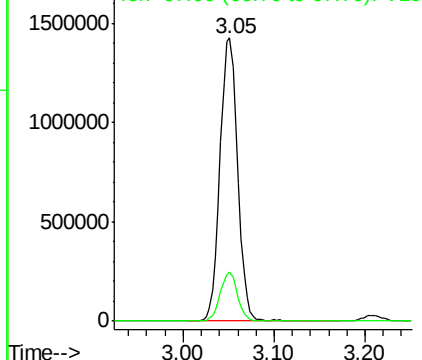
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.65 ppbv

RT: 3.21 min Scan# 660

Delta R.T. -0.00 min

Lab File: VL032355.D

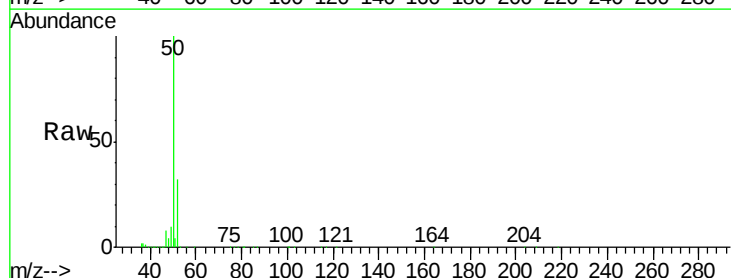
Acq: 15 Aug 2018 15:15

Tgt Ion: 50 Resp: 1174043

Ion Ratio Lower Upper

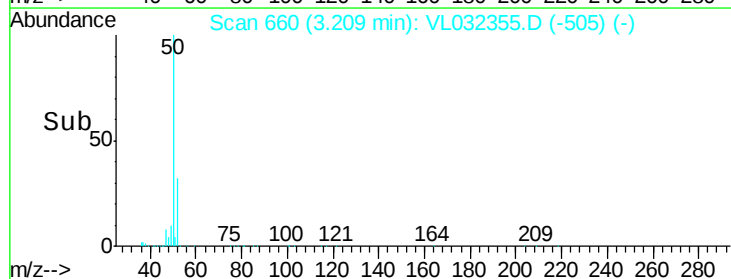
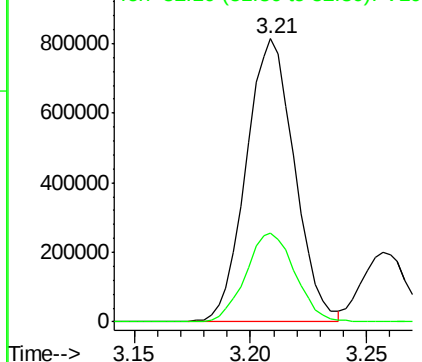
50 100

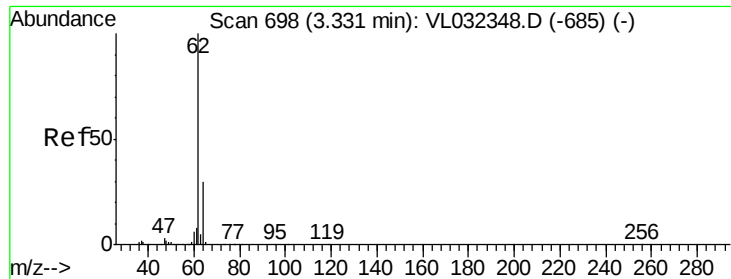
52 31.5 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.73 ppbv

RT: 3.33 min Scan# 698

Delta R.T. -0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Tot Ion: 62 Resp: 1129223

Ion Ratio Lower Upper

62 100

64 30.7 24.2 36.2

Instrument :

MSVOA_L

ClientSampleId :

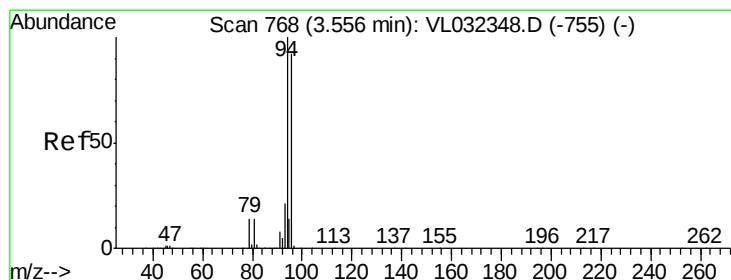
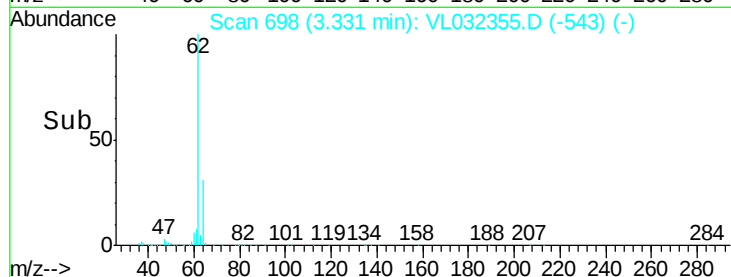
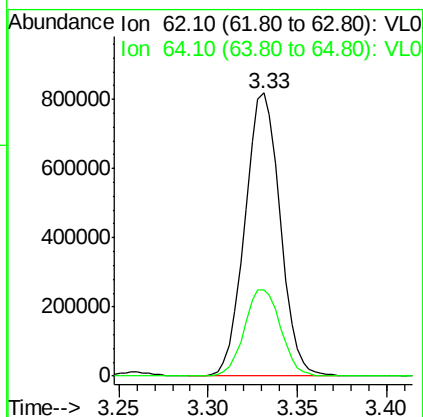
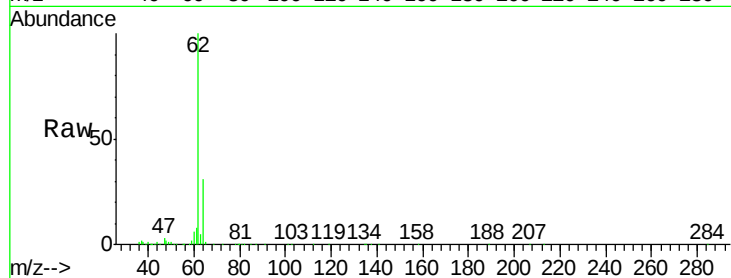
ICVVL081518

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#6

Bromomethane

Concen: 9.85 ppbv

RT: 3.56 min Scan# 768

Delta R.T. -0.00 min

Lab File: VL032355.D

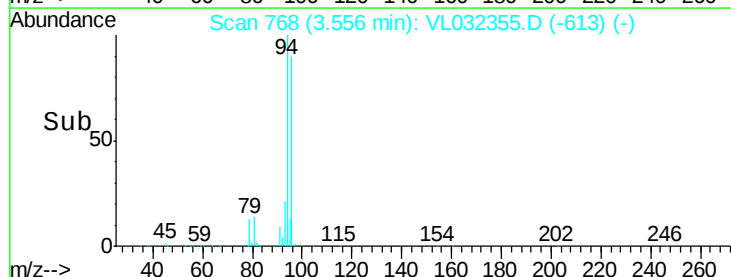
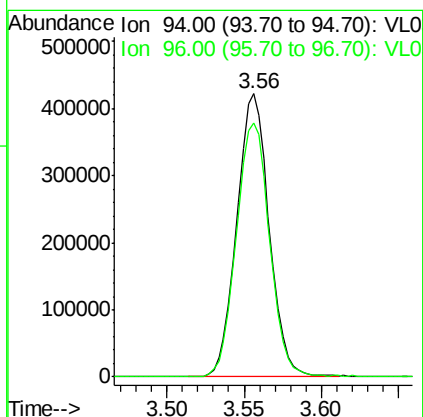
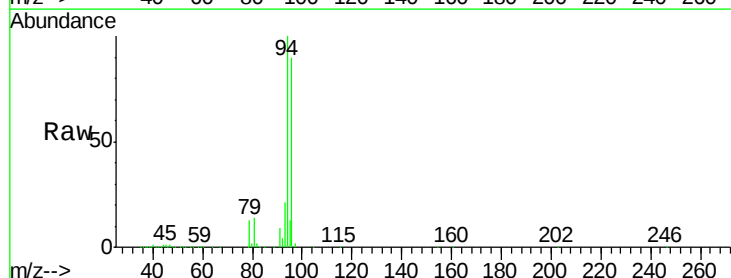
Acq: 15 Aug 2018 15:15

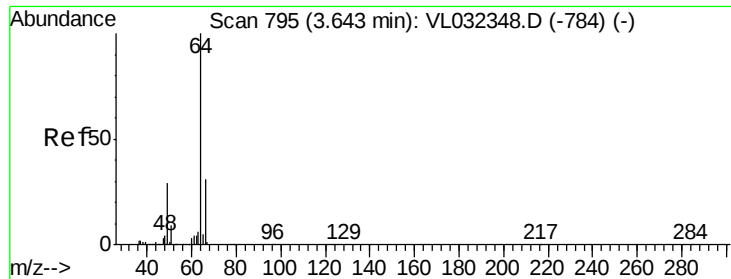
Tgt Ion: 94 Resp: 612720

Ion Ratio Lower Upper

94 100

96 89.9 73.7 110.5





#7

Chloroethane

Concen: 9.80 ppbv

RT: 3.64 min Scan# 795

Delta R.T. -0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081518

Tot Ion: 64 Resp: 398922

Ion Ratio Lower Upper

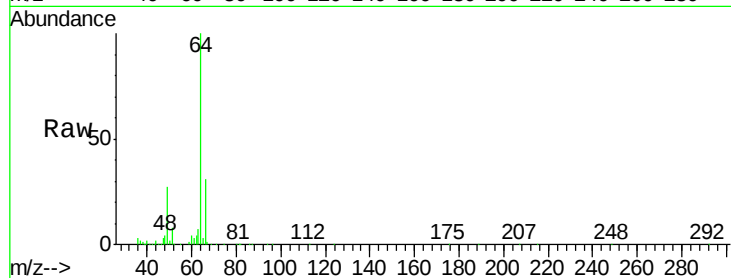
64 100

66 30.9 24.6 36.8

Manual Integrations
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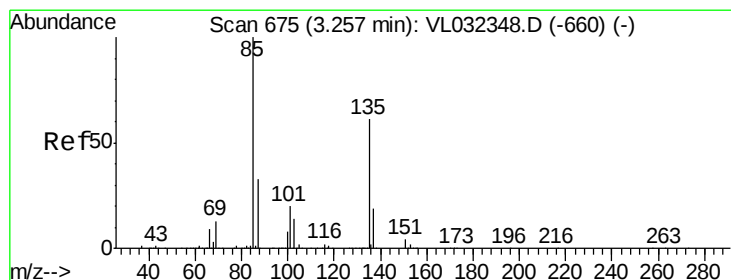
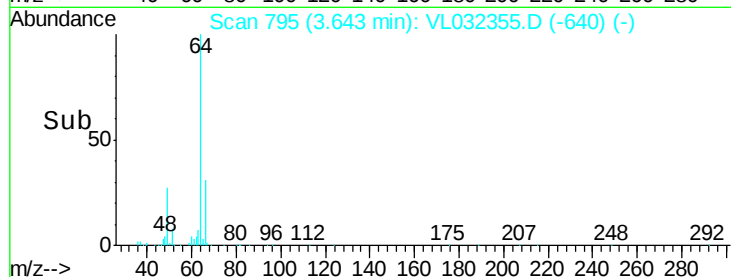
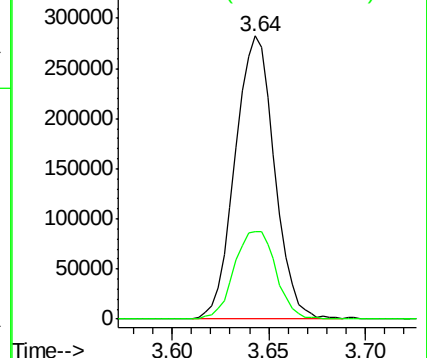
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.15 ppbv

RT: 3.26 min Scan# 676

Delta R.T. 0.00 min

Lab File: VL032355.D

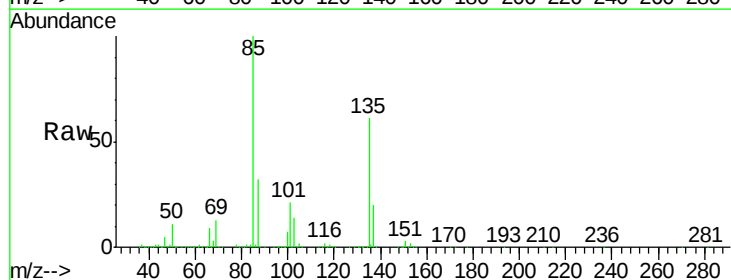
Acq: 15 Aug 2018 15:15

Tgt Ion: 85 Resp: 2281771

Ion Ratio Lower Upper

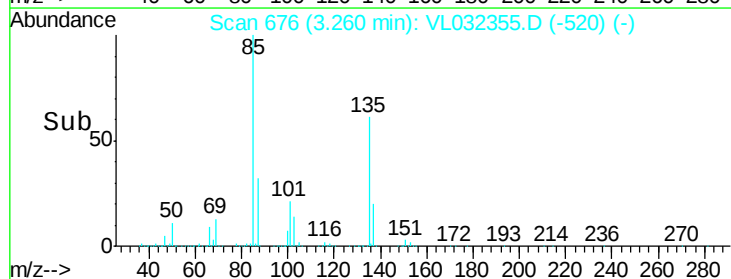
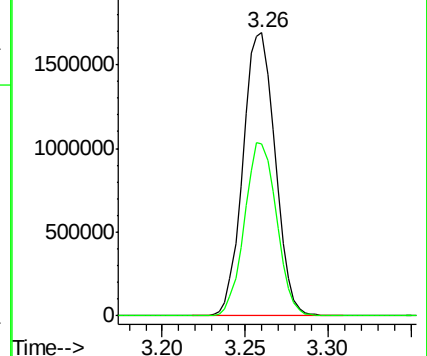
85 100

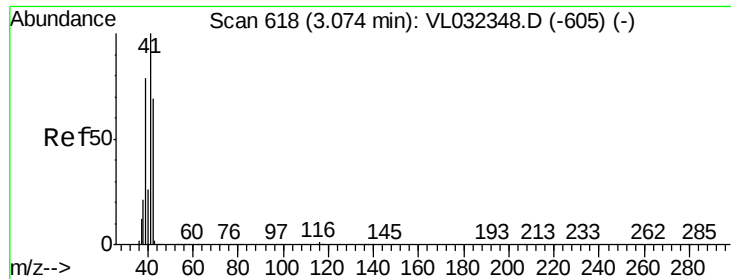
135 61.1 49.0 73.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 10.29 ppbv

RT: 3.07 min Scan# 618

Delta R.T. -0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081518

Tot Ion: 41 Resp: 901077

Ion Ratio Lower Upper

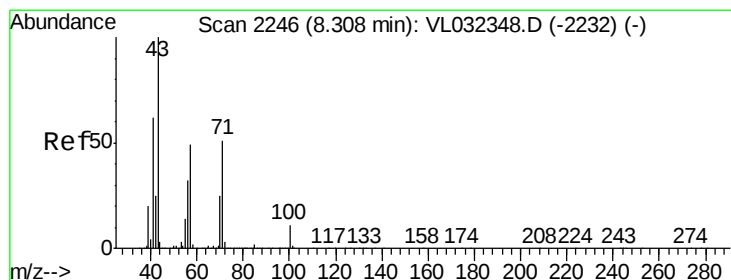
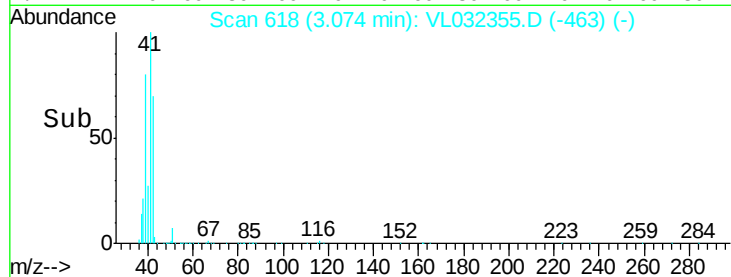
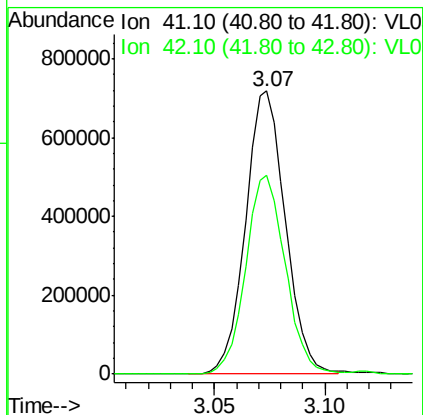
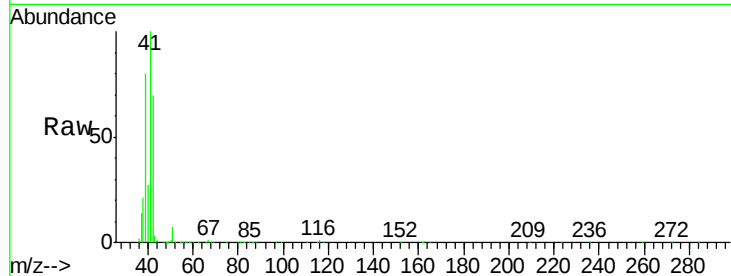
41 100

42 71.0 55.9 83.9

Manual Integrations
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#10

Heptane

Concen: 10.92 ppbv

RT: 8.31 min Scan# 2247

Delta R.T. 0.00 min

Lab File: VL032355.D

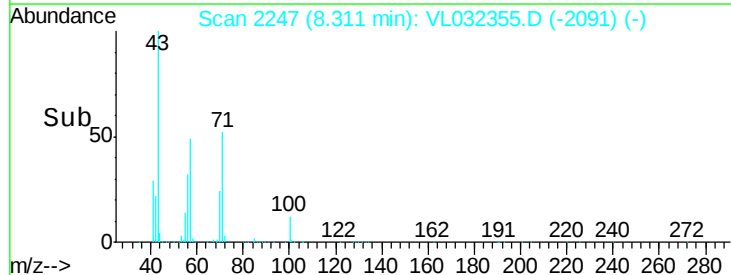
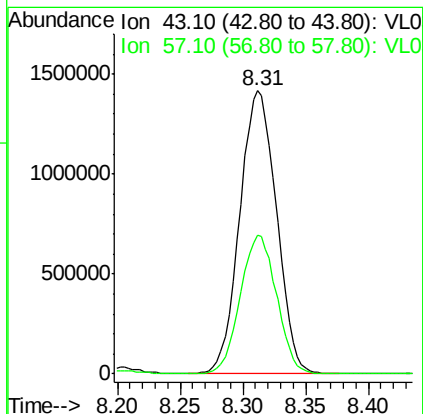
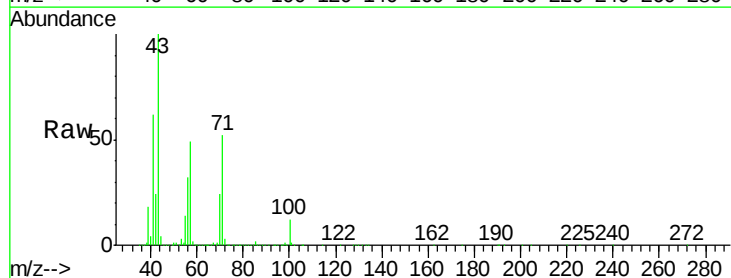
Acq: 15 Aug 2018 15:15

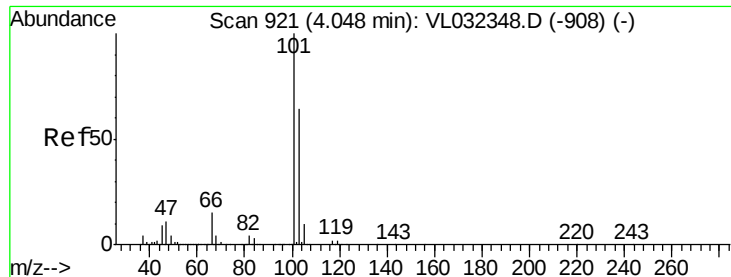
Tgt Ion: 43 Resp: 2879087

Ion Ratio Lower Upper

43 100

57 48.5 39.5 59.3





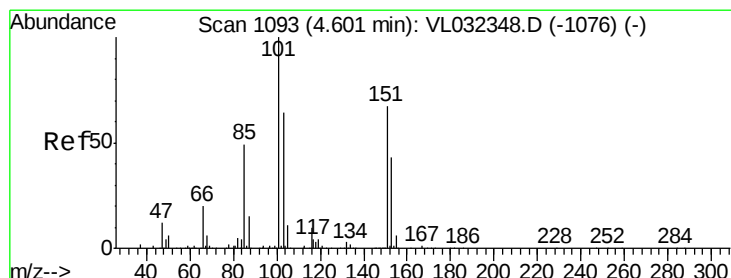
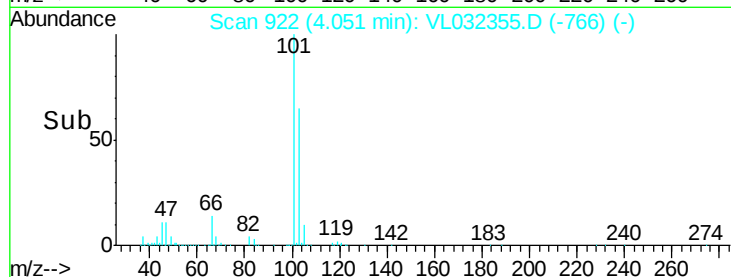
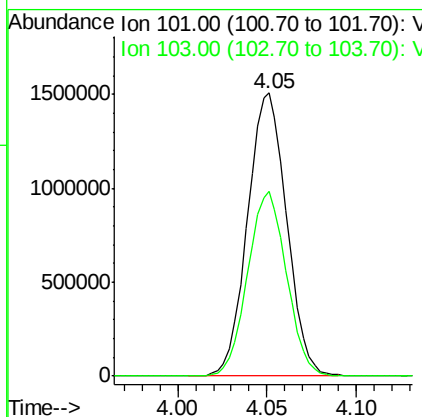
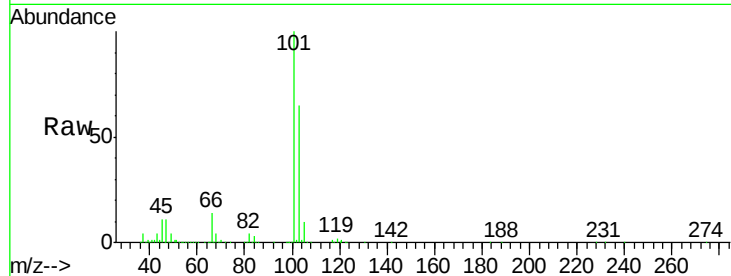
#11
 Trichlorofluoromethane
 Concen: 9.37 ppbv
 RT: 4.05 min Scan# 922
 Delta R.T. 0.00 min
 Lab File: VL032355.D
 Acq: 15 Aug 2018 15:15

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081518

Tot Ion:101 Resp: 2314831
 Ion Ratio Lower Upper
 101 100
 103 65.3 51.4 77.0

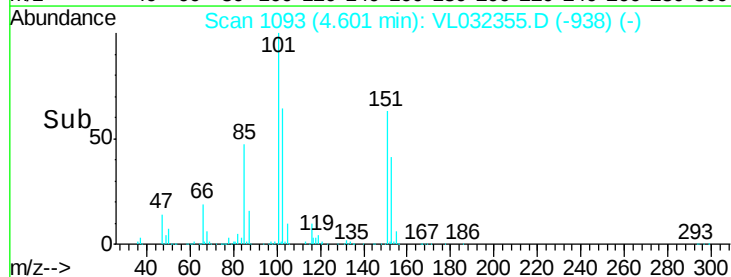
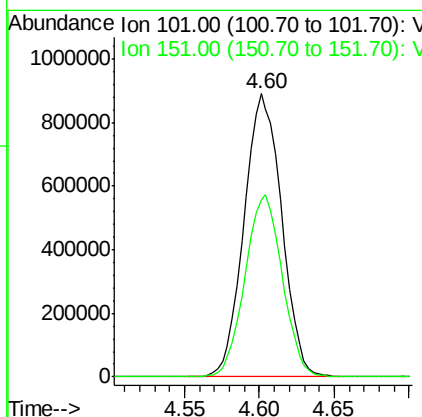
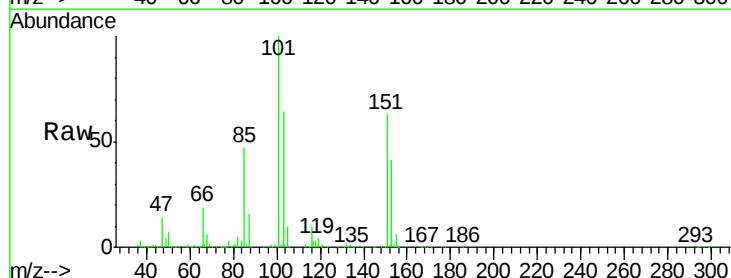
Manual Integrations
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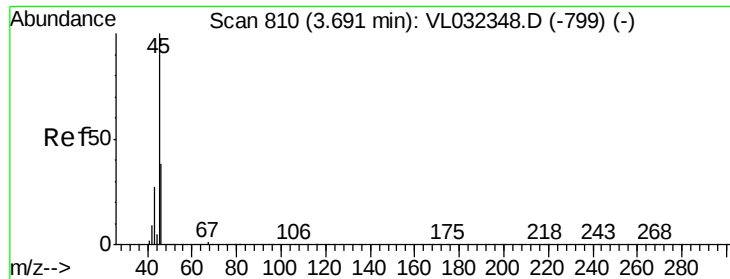
MMDadoda
 8/28/2018 2:52:34 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.37 ppbv
 RT: 4.60 min Scan# 1093
 Delta R.T. -0.00 min
 Lab File: VL032355.D
 Acq: 15 Aug 2018 15:15

Tgt Ion:101 Resp: 1557841
 Ion Ratio Lower Upper
 101 100
 151 64.0 53.1 79.7





#13

Ethanol

Concen: 10.80 ppbv

RT: 3.69 min Scan# 810

Delta R.T. -0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081518

Tot Ion: 45 Resp: 242766

Ion Ratio Lower Upper

45 100

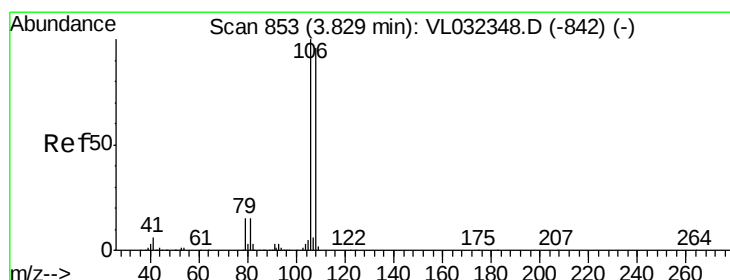
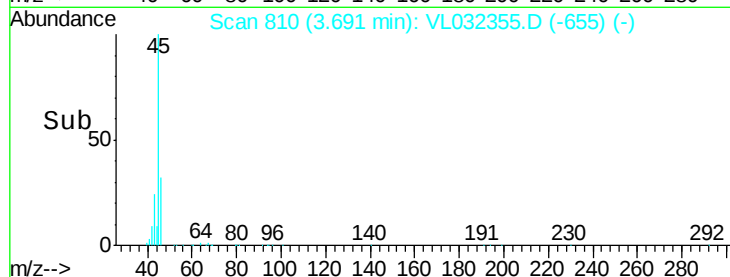
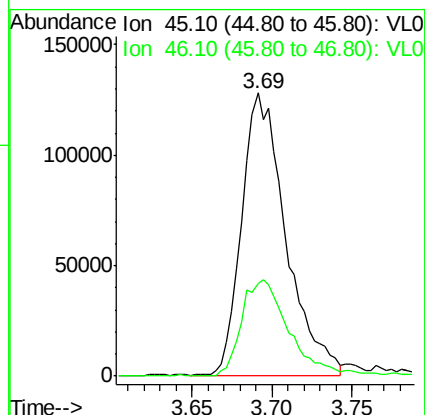
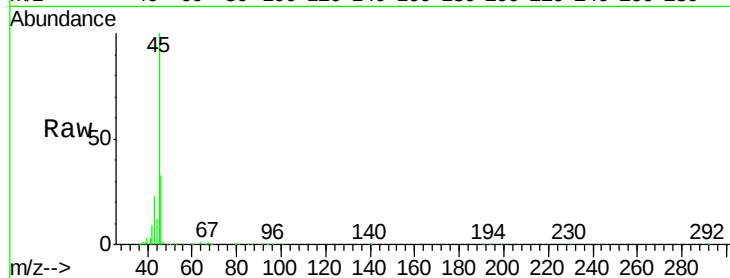
46 37.0 15.6 62.4

Manual Integrations

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#14

Bromoethene

Concen: 9.92 ppbv

RT: 3.83 min Scan# 854

Delta R.T. 0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

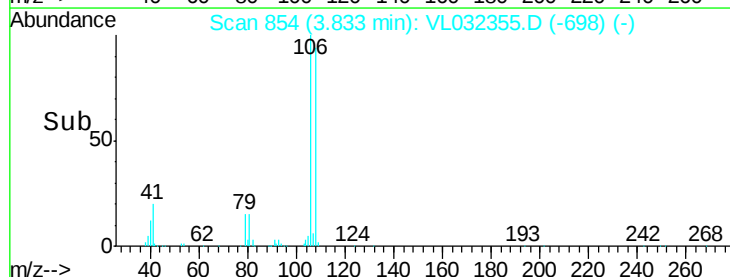
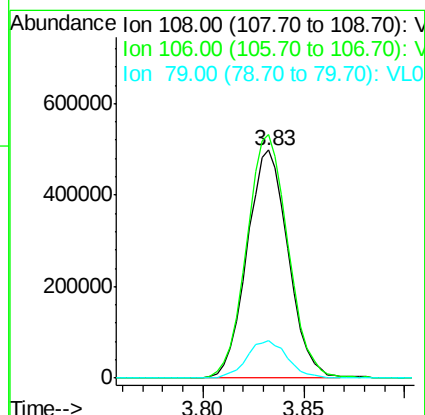
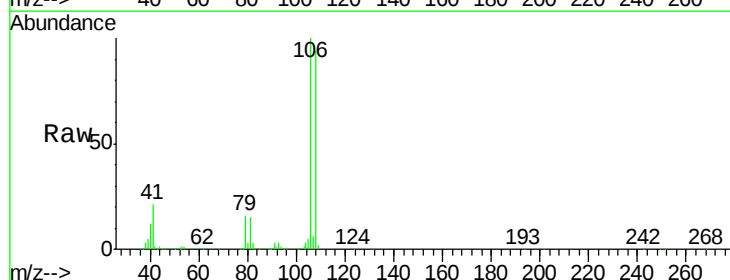
Tgt Ion: 108 Resp: 713091

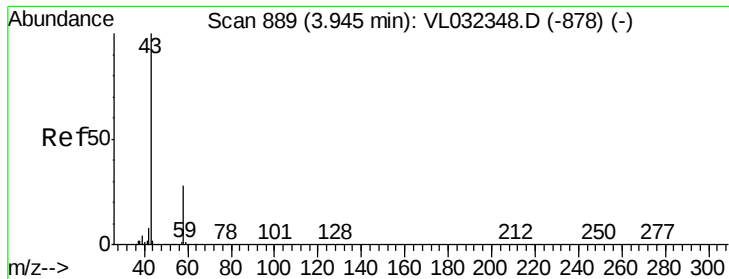
Ion Ratio Lower Upper

108 100

106 108.4 85.7 128.5

79 16.8 13.1 19.7





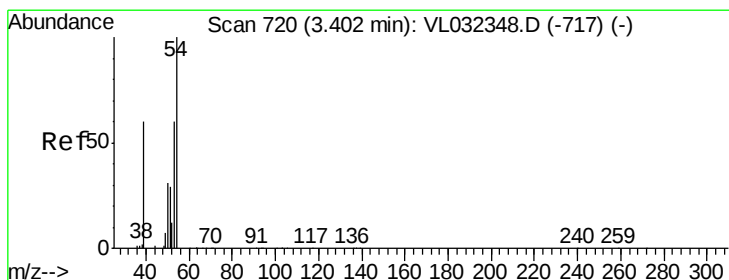
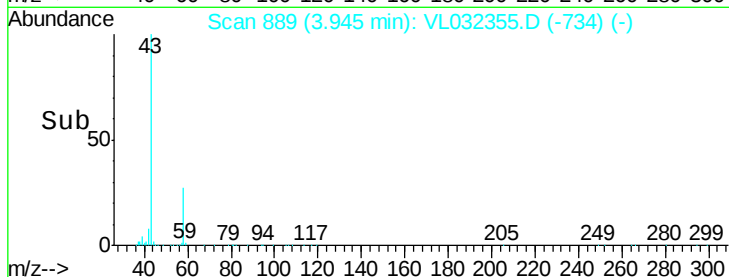
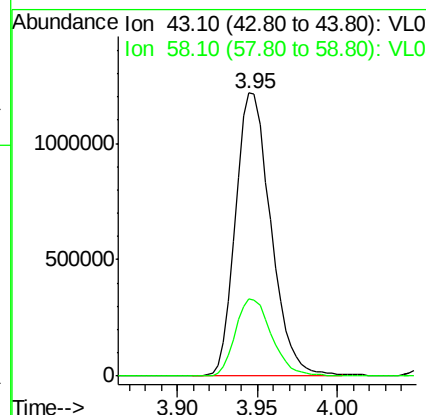
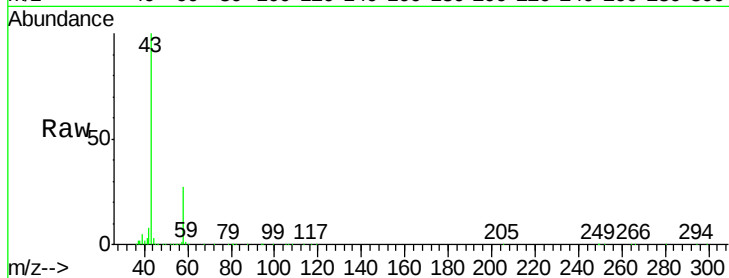
#15
Acetone
Concen: 8.71 ppbv
RT: 3.95 min Scan# 889
Delta R.T. -0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081518

Tot Ion: 43 Resp: 1827064
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6

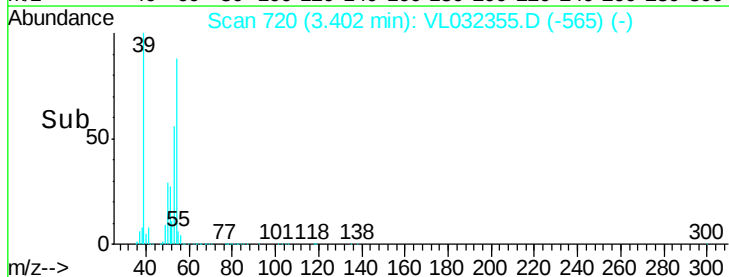
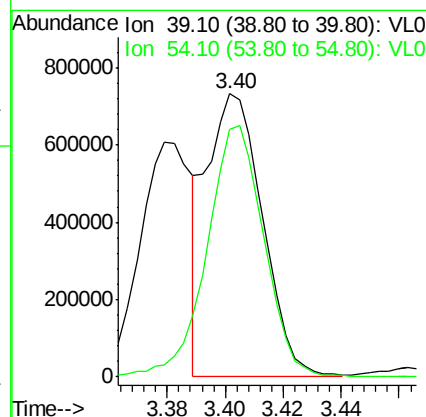
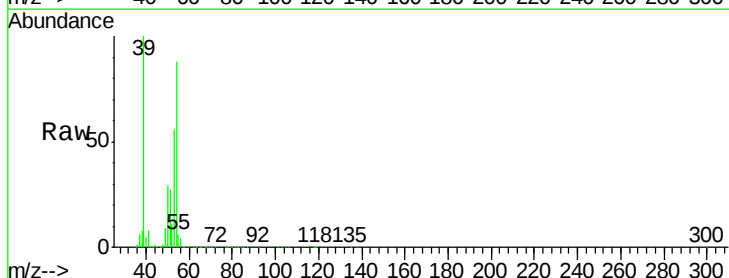
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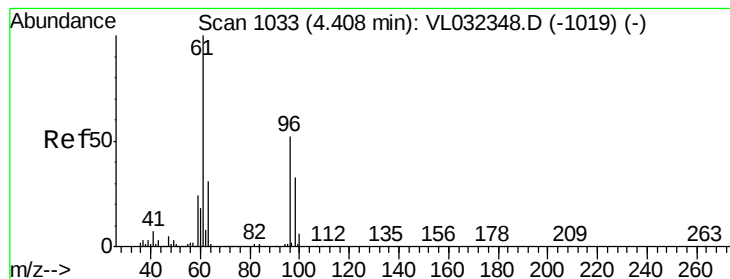
MMDadoda
8/28/2018 2:52:34 PM



#16
1,3-Butadiene
Concen: 11.26 ppbv
RT: 3.40 min Scan# 720
Delta R.T. -0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Tgt Ion: 39 Resp: 974835
Ion Ratio Lower Upper
39 100
54 91.7 85.5 128.3





#17

tert-Butyl alcohol

Concen: 9.88 ppbv m

RT: 4.41 min Scan# 1034

Delta R.T. 0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081518

Tot Ion: 59 Resp: 347595

Ion Ratio Lower Upper

59 100

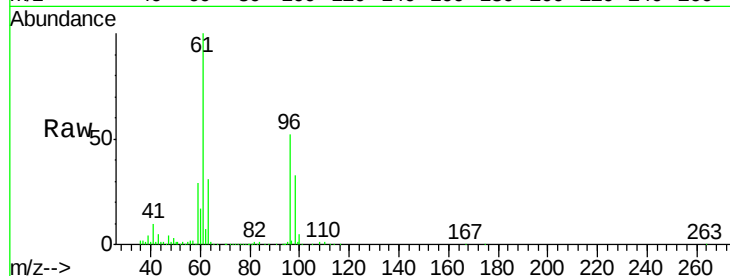
57 1.6 7.6 11.4#

Manual Integrations

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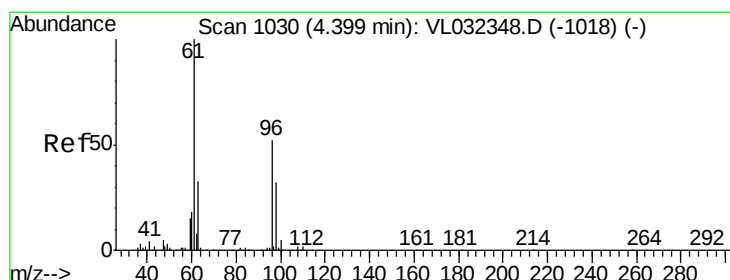
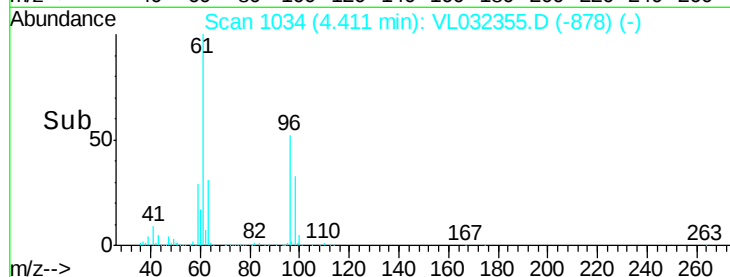
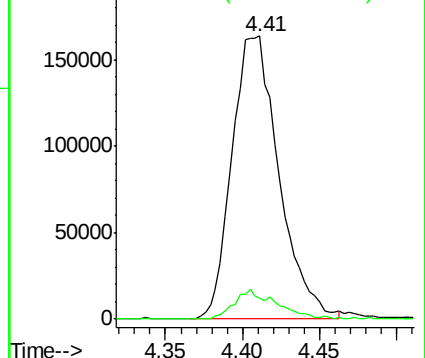
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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 9.76 ppbv

RT: 4.40 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

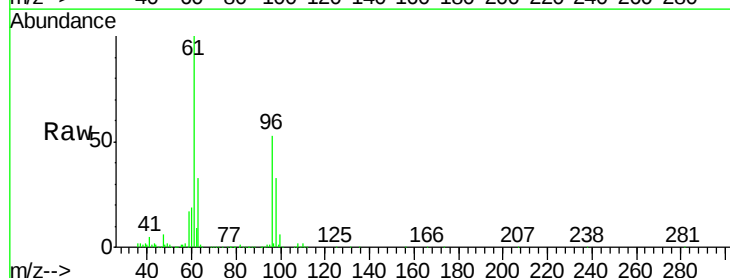
Tgt Ion: 96 Resp: 755949

Ion Ratio Lower Upper

96 100

61 190.4 154.6 231.8

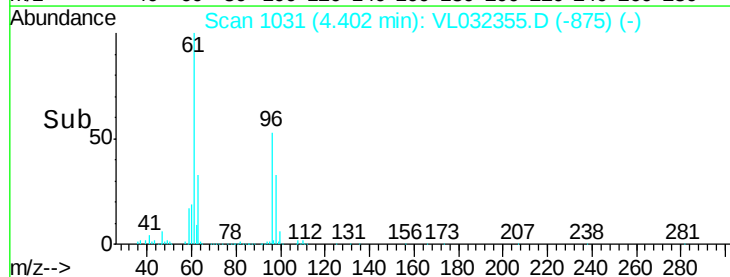
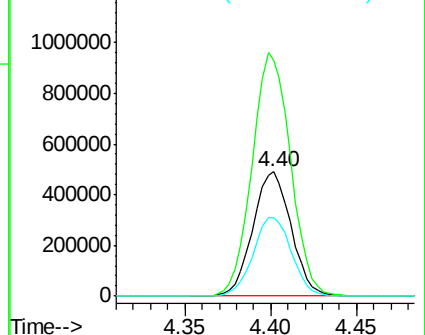
98 63.6 50.1 75.1

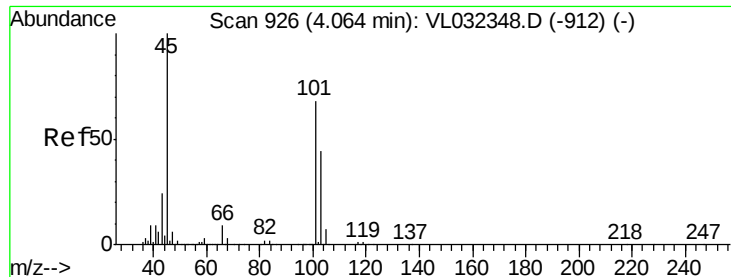


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

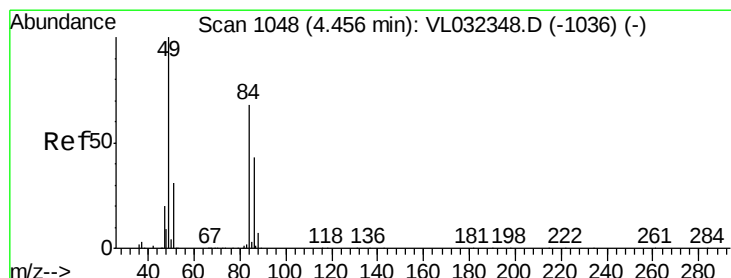
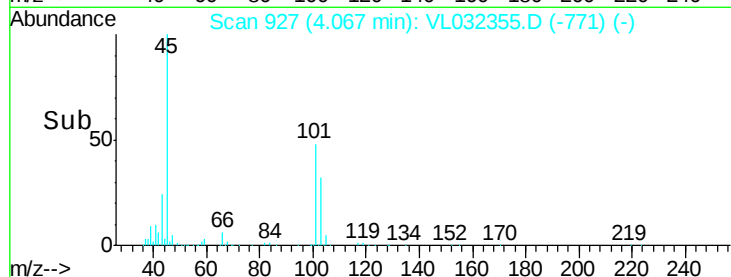
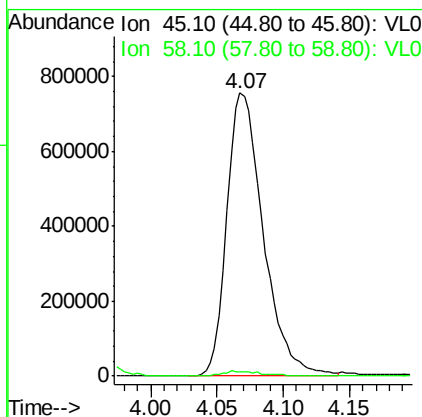
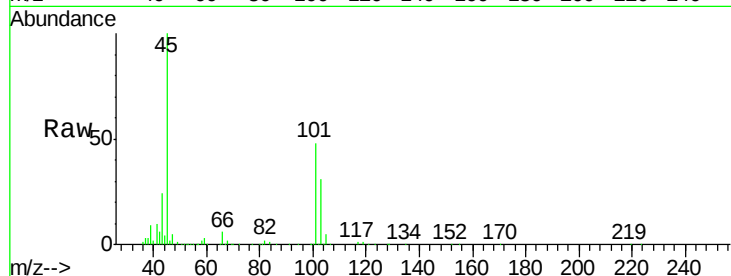
Isopropyl Alcohol
 Concen: 10.22 ppbv
 RT: 4.07 min Scan# 927
 Delta R.T. 0.00 min
 Lab File: VL032355.D
 Acq: 15 Aug 2018 15:15

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081518

Tot Ion: 45 Resp: 1443006
 Ion Ratio Lower Upper
 45 100
 58 2.0 1.4 2.0

Manual Integrations
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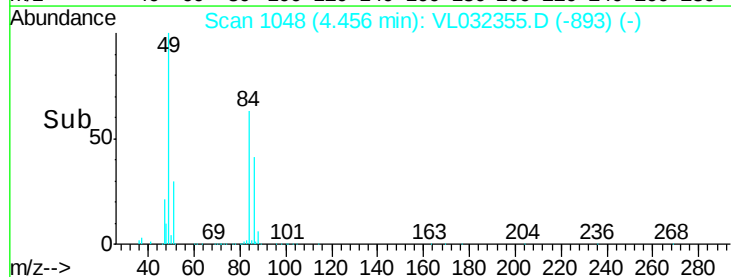
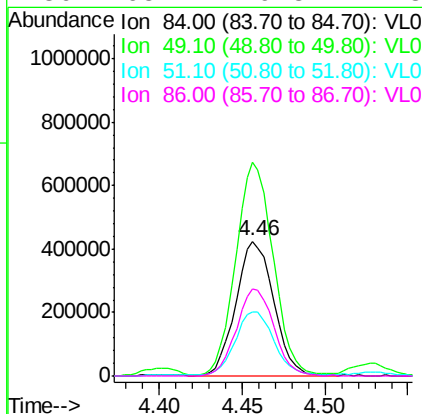
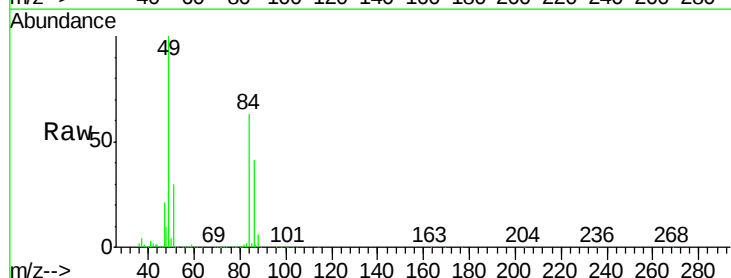
MMDadoda
 8/28/2018 2:52:34 PM

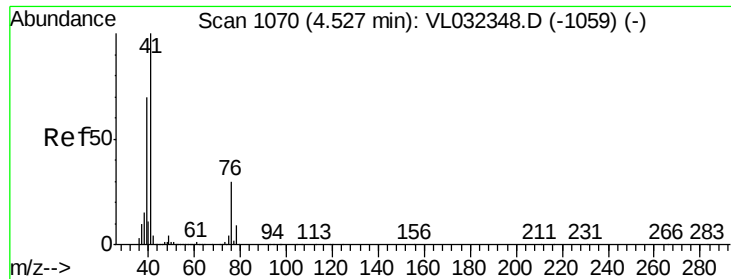


#20

Methylene Chloride
 Concen: 8.47 ppbv
 RT: 4.46 min Scan# 1048
 Delta R.T. -0.00 min
 Lab File: VL032355.D
 Acq: 15 Aug 2018 15:15

Tgt Ion: 84 Resp: 670868
 Ion Ratio Lower Upper
 84 100
 49 158.1 117.3 175.9
 51 46.7 36.6 55.0
 86 65.1 49.8 74.8





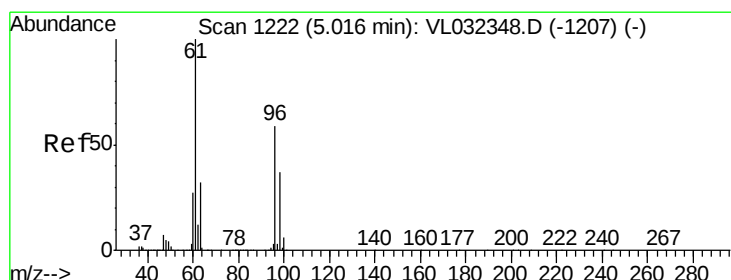
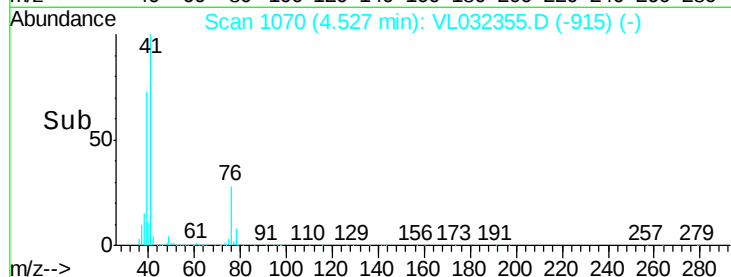
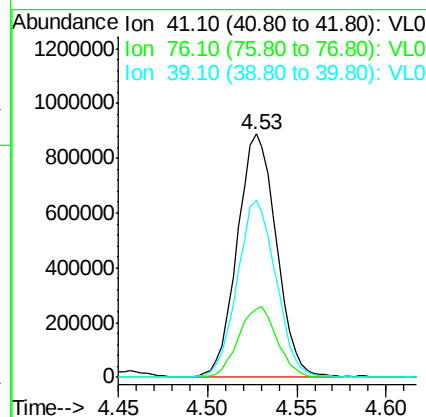
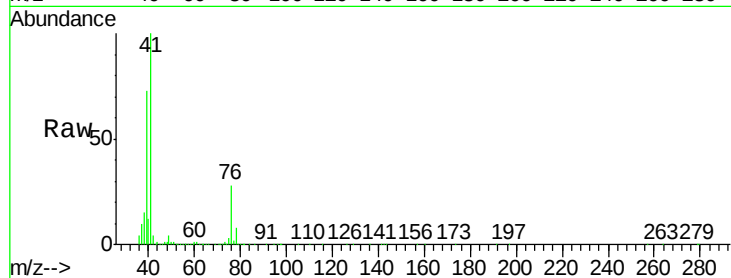
#21
Allvl Chloride
Concen: 10.18 ppbv
RT: 4.53 min Scan# 1070
Delta R.T. -0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081518

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.9	22.9	34.3
39	72.8	57.6	86.4

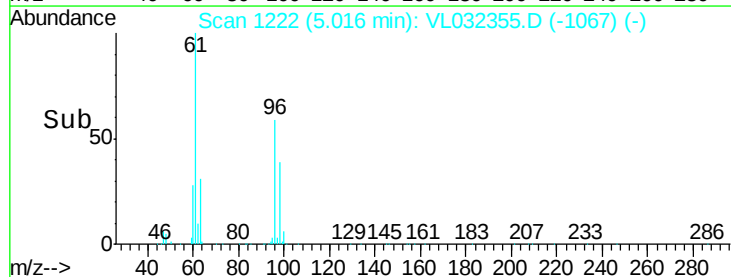
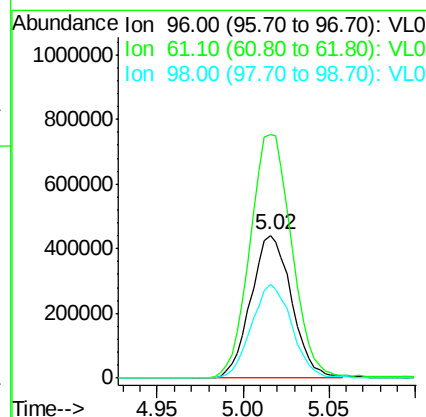
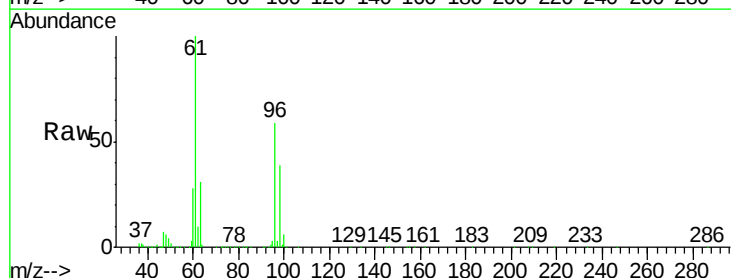
Manual Integrations
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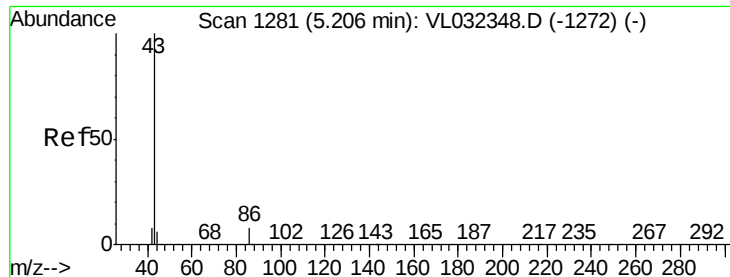
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 9.27 ppbv
RT: 5.02 min Scan# 1222
Delta R.T. -0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Tgt Ion	Ratio	Lower	Upper
96	100		
61	170.2	136.6	205.0
98	65.6	50.6	76.0





#23

Vinyl Acetate

Concen: 9.62 ppbv

RT: 5.21 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081518

Tot Ion: 43 Resp: 3486076

Ion Ratio Lower Upper

43 100

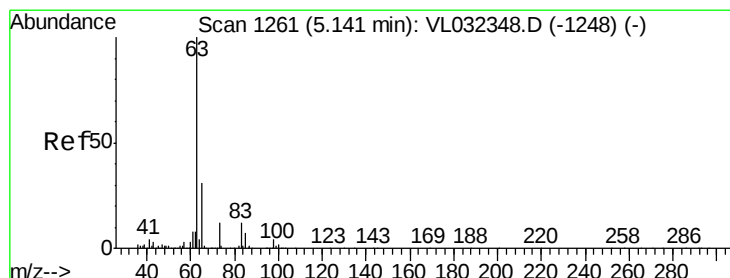
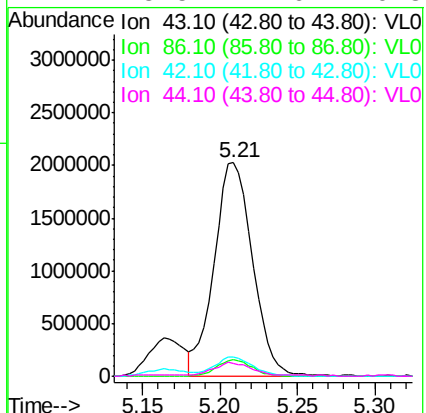
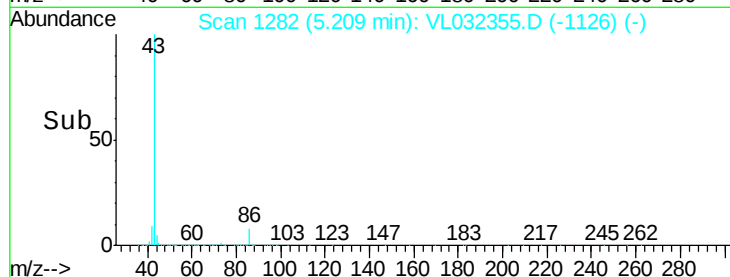
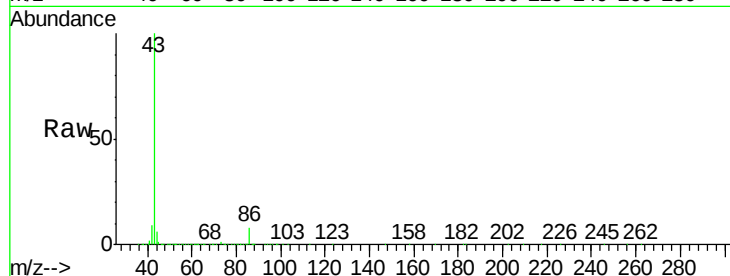
86 7.9 5.5 8.3

42 9.2 7.0 10.6

44 5.5 4.6 6.8

Manual Integrations
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MMDadoda
8/28/2018 2:52:34 PM



#24

1,1-Dichloroethane

Concen: 9.26 ppbv

RT: 5.14 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

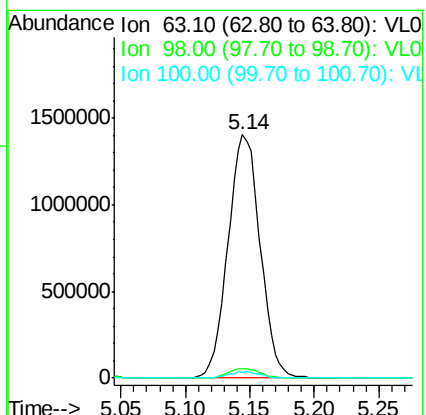
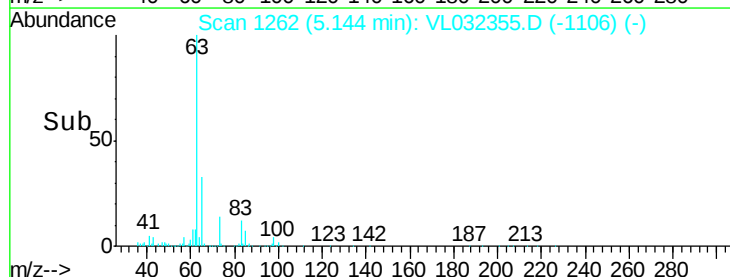
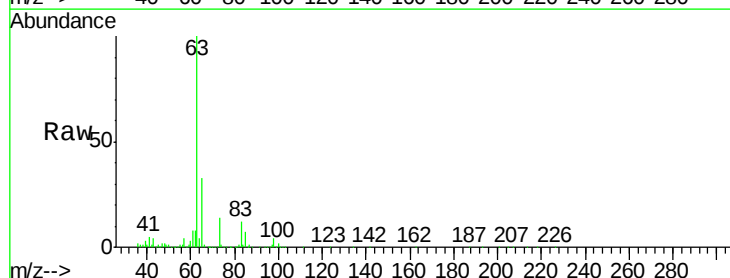
Tgt Ion: 63 Resp: 2420879

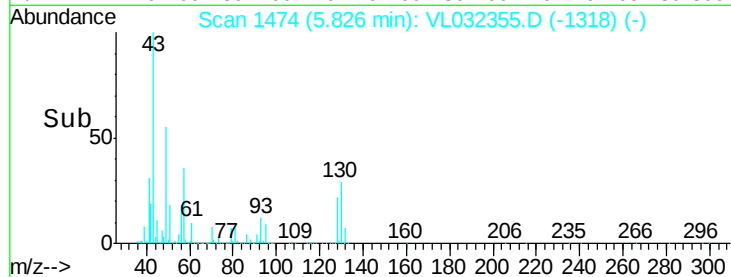
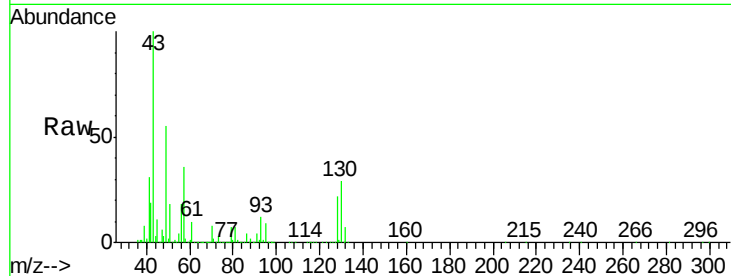
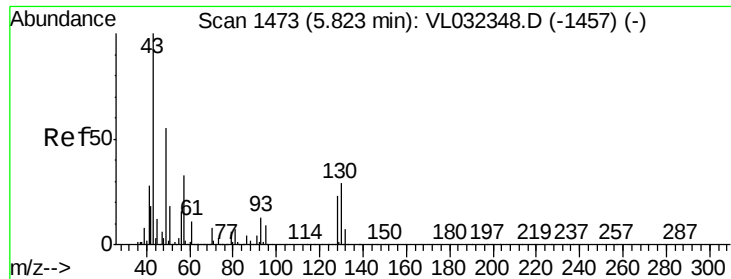
Ion Ratio Lower Upper

63 100

98 4.0 2.1 6.3

100 2.4 1.2 3.6





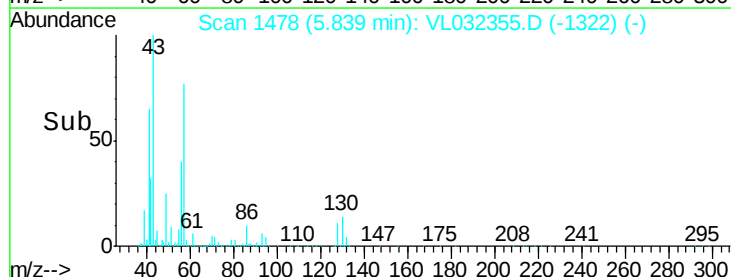
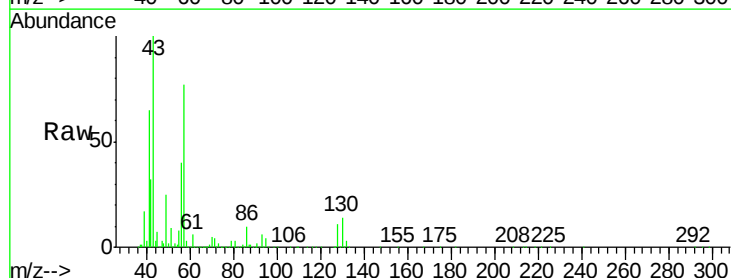
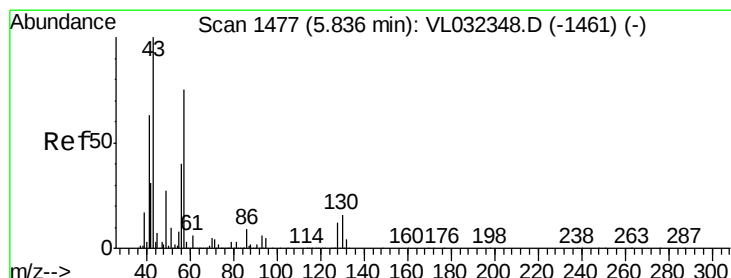
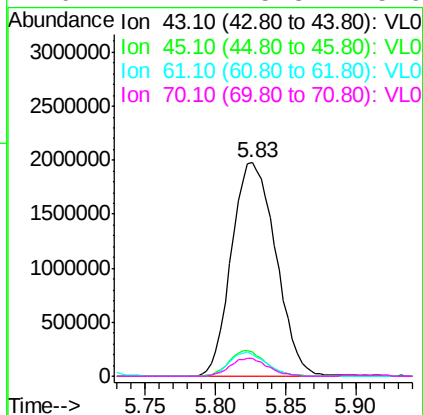
#25
Ethyl Acetate
Concen: 9.63 ppbv
RT: 5.83 min Scan# 1474
Delta R.T. 0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Tot Ion: 43 Resp: 4330365
Ion Ratio Lower Upper
43 100
45 10.3 7.9 11.9
61 9.4 7.4 11.2
70 7.2 5.8 8.6

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081518

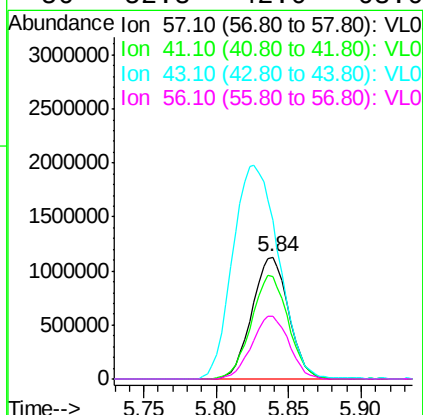
Manual Integrations
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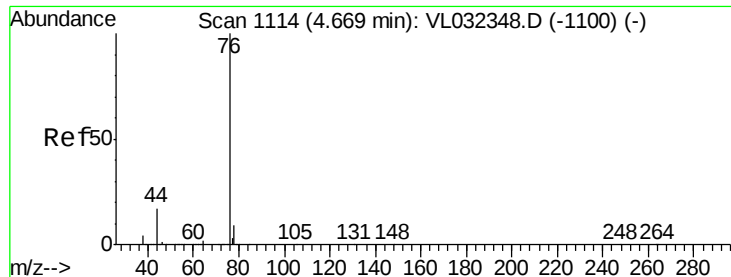
MMDadoda
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#26
Hexane
Concen: 9.92 ppbv
RT: 5.84 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Tgt Ion: 57 Resp: 1987143
Ion Ratio Lower Upper
57 100
41 85.9 68.0 102.0
43 219.3 175.3 262.9
56 52.8 42.0 63.0





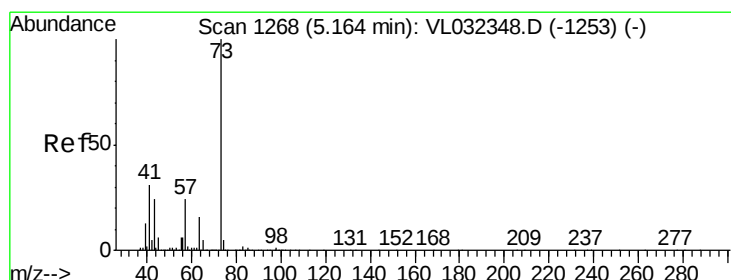
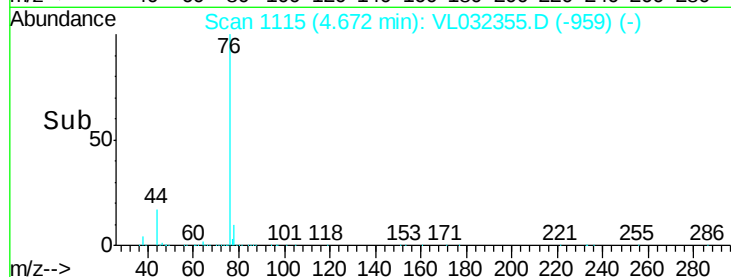
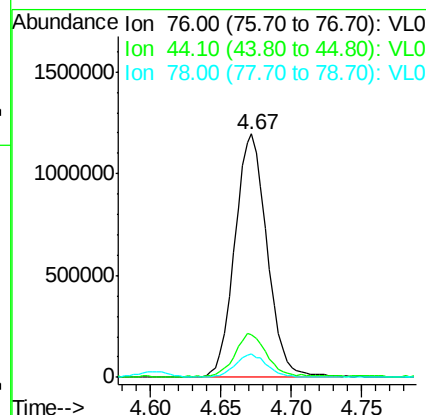
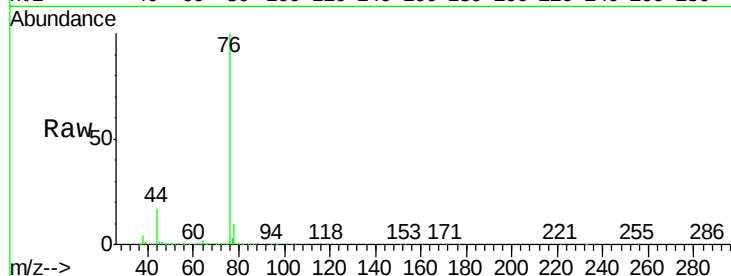
#27
Carbon Disulfide
Concen: 10.23 ppbv
RT: 4.67 min Scan# 1115
Delta R.T. 0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081518

Tot Ion	Ratio	Lower	Upper
76	100		
44	17.4	14.4	21.6
78	9.2	7.4	11.0

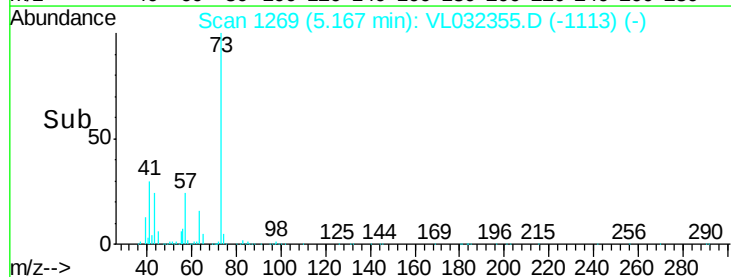
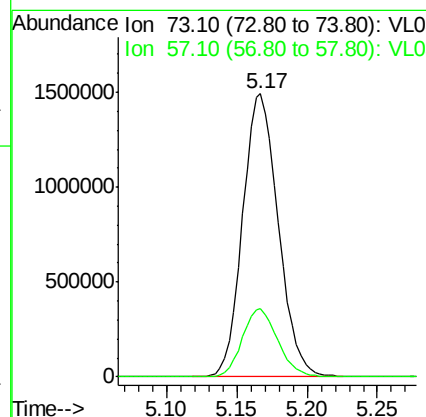
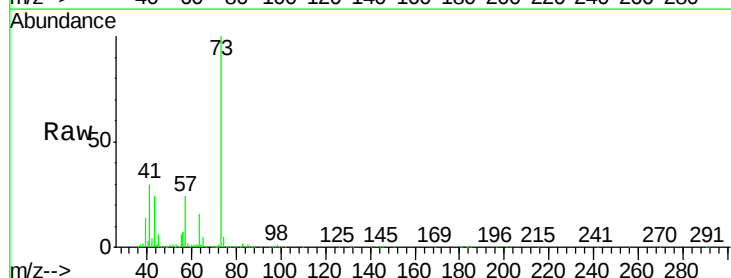
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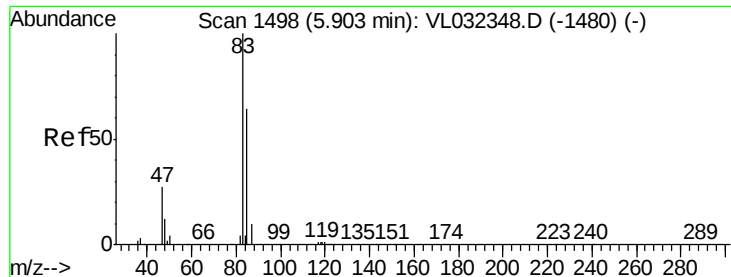
MMDadoda
8/28/2018 2:52:34 PM



#28
Methyl tert-Butyl Ether
Concen: 9.93 ppbv
RT: 5.17 min Scan# 1269
Delta R.T. 0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Tgt Ion	Ratio	Lower	Upper
73	100		
57	24.2	19.3	28.9





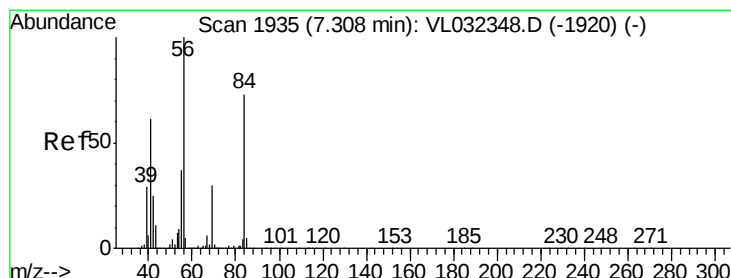
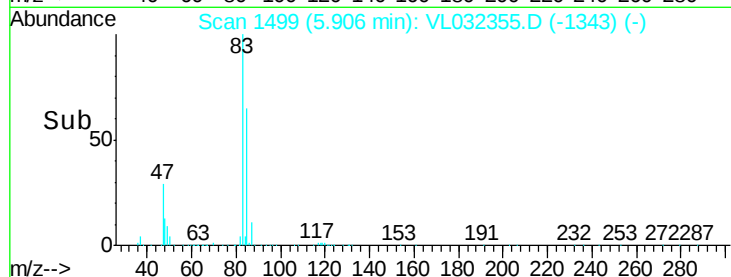
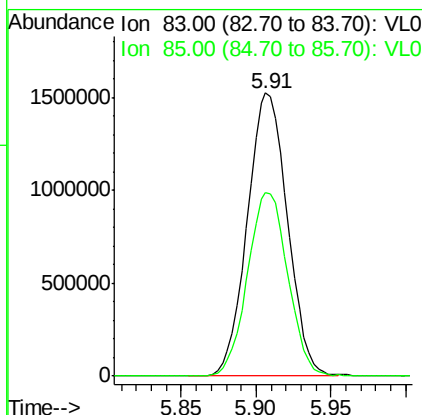
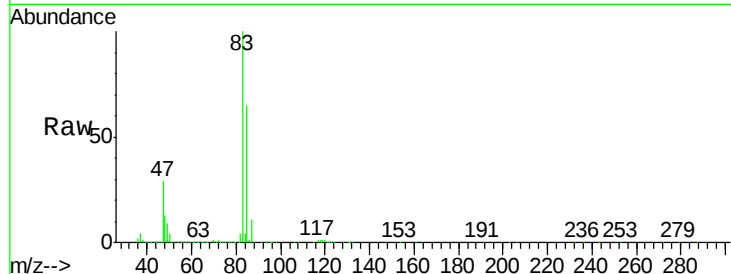
#29
Chloroform
Concen: 9.68 ppbv
RT: 5.91 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081518

Tot Ion: 83 Resp: 2842296
Ion Ratio Lower Upper
83 100
85 64.6 51.6 77.4

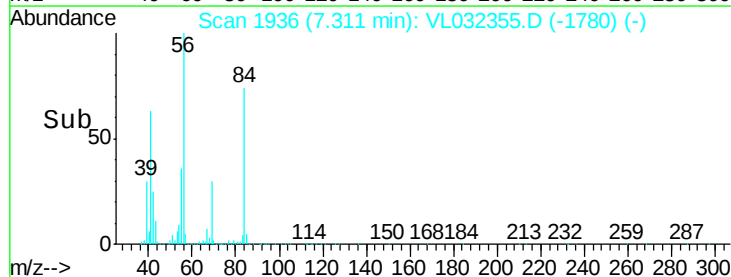
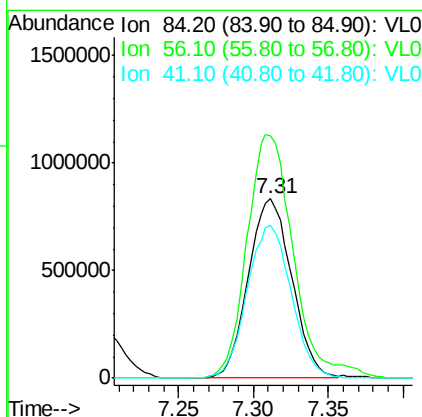
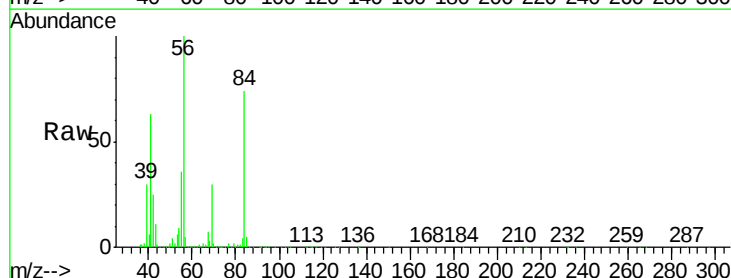
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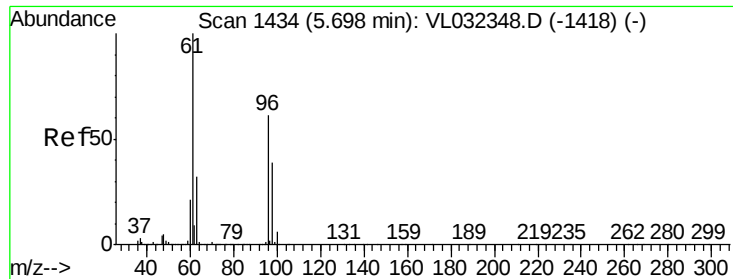
MMDadoda
8/28/2018 2:52:34 PM



#30
Cyclohexane
Concen: 11.05 ppbv
RT: 7.31 min Scan# 1936
Delta R.T. 0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Tgt Ion: 84 Resp: 1686668
Ion Ratio Lower Upper
84 100
56 145.1 115.7 173.5
41 86.3 67.9 101.9





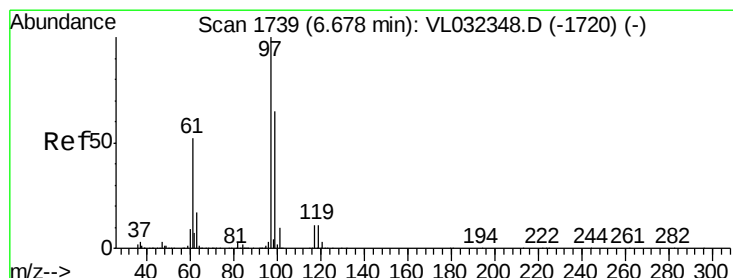
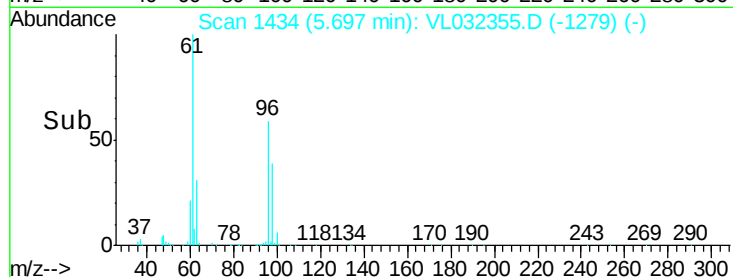
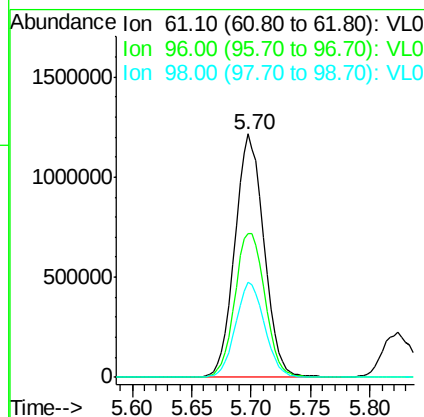
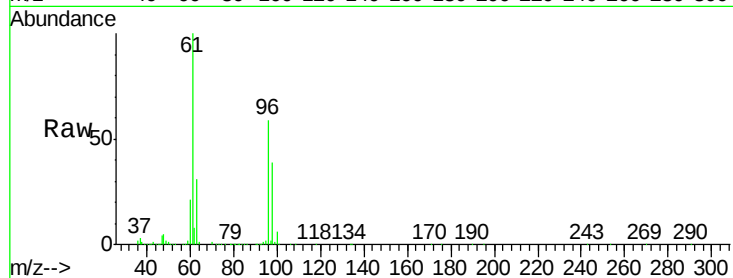
#31
 cis-1,2-Dichloroethene
 Concen: 10.54 ppbv
 RT: 5.70 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: VL032355.D
 Acq: 15 Aug 2018 15:15

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081518

Tot Ion	Ratio	Lower	Upper
61	100		
96	59.0	48.5	72.7
98	39.0	31.0	46.4

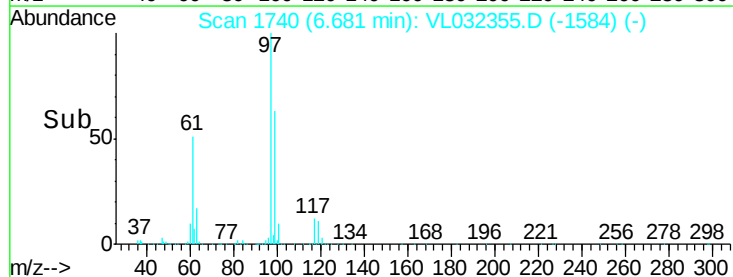
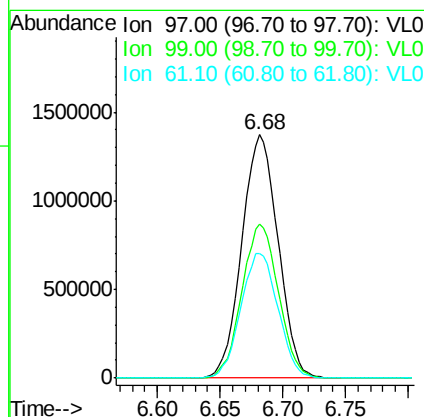
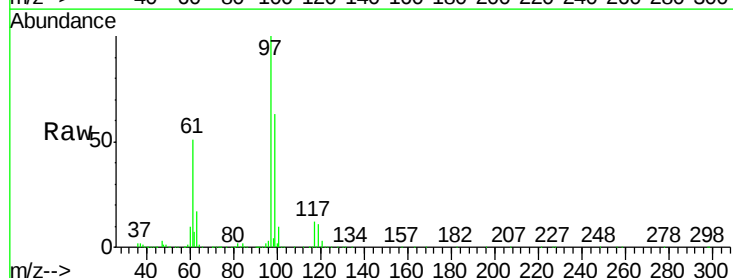
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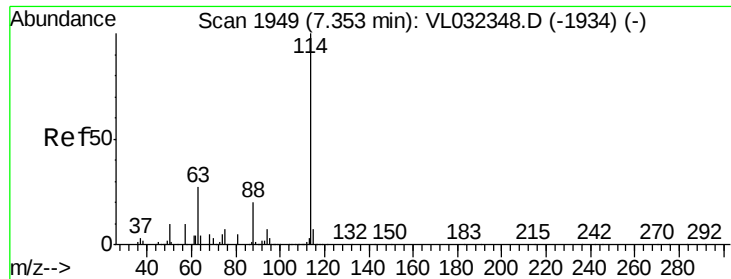
MMDadoda
 8/28/2018 2:52:34 PM



#32
 1,1,1-Trichloroethane
 Concen: 9.67 ppbv
 RT: 6.68 min Scan# 1740
 Delta R.T. 0.00 min
 Lab File: VL032355.D
 Acq: 15 Aug 2018 15:15

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.1	76.7
61	52.7	41.1	61.7





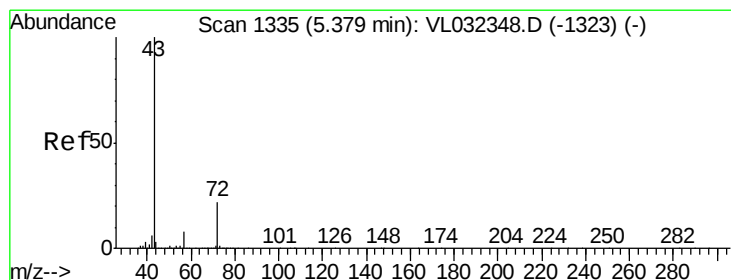
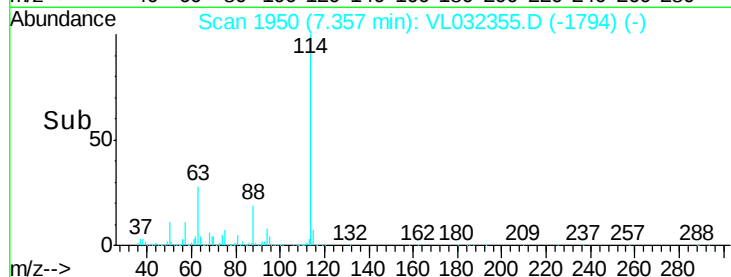
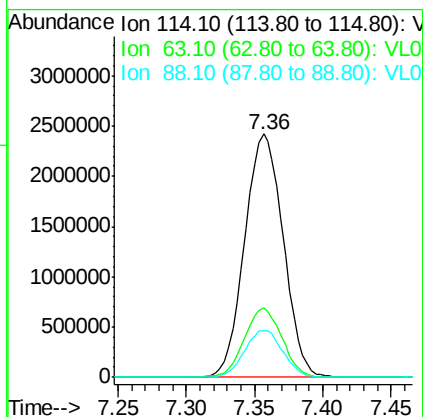
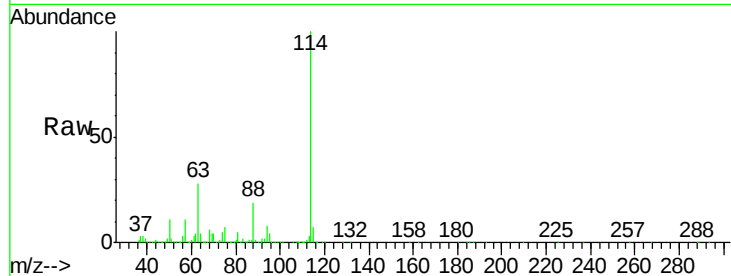
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.36 min Scan# 1950
 Delta R.T. 0.00 min
 Lab File: VL032355.D
 Acq: 15 Aug 2018 15:15

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081518

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.1	22.0	33.0
88	19.2	15.3	22.9

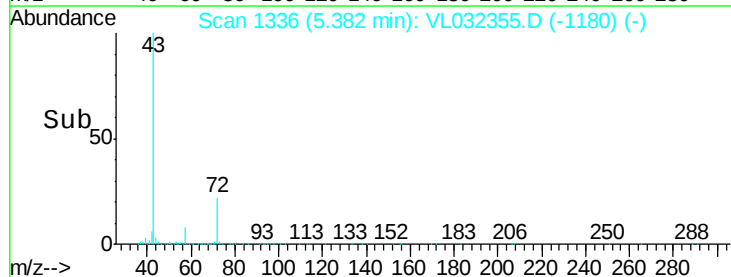
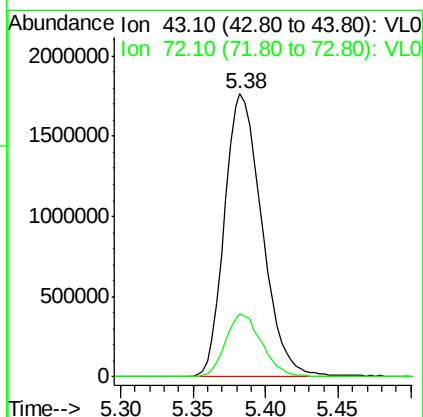
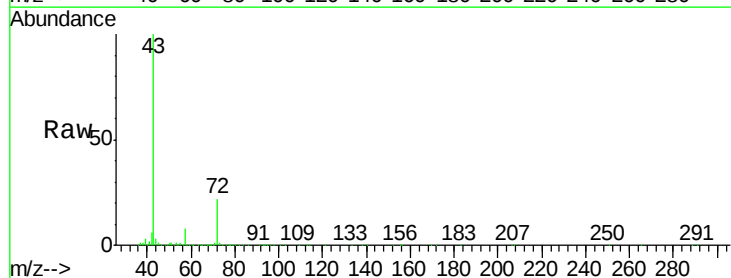
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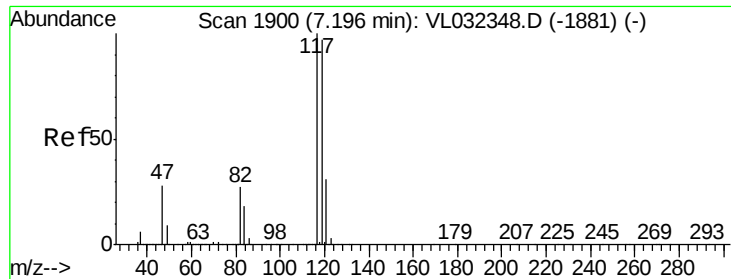
MMDadoda
 8/28/2018 2:52:34 PM



#34
 2-Butanone
 Concen: 9.72 ppbv
 RT: 5.38 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VL032355.D
 Acq: 15 Aug 2018 15:15

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.9	17.9	26.9





#35

Carbon Tetrachloride

Concen: 9.78 ppbv

RT: 7.20 min Scan# 1901

Delta R.T. 0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081518

Tot Ion:117 Resp: 2738895

Ion Ratio Lower Upper

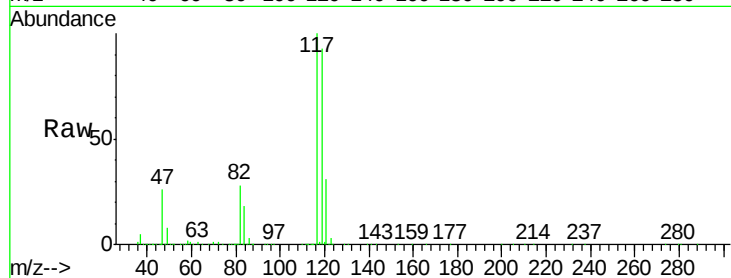
117 100

119 93.0 77.2 115.8

121 30.8 25.1 37.7

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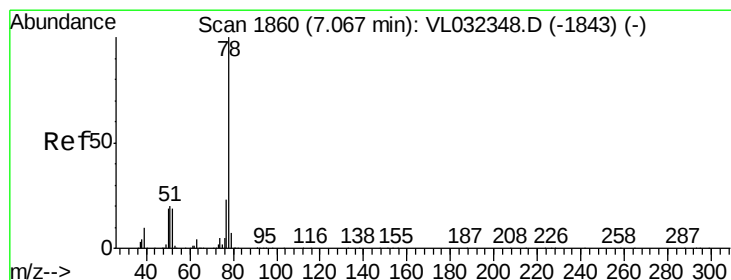
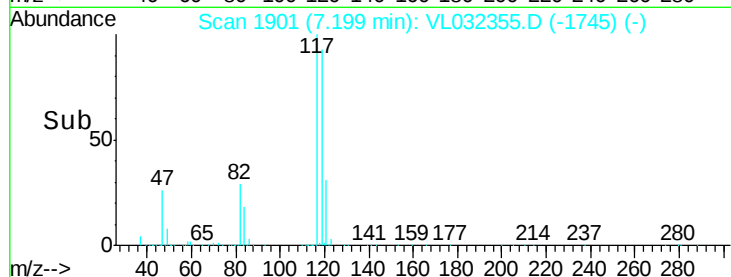
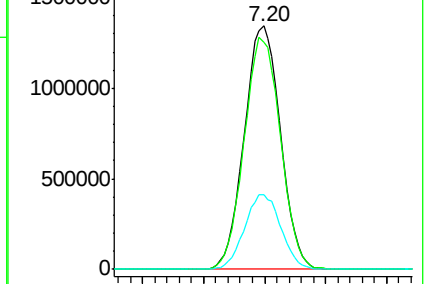
MMDadoda
8/28/2018 2:52:34 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.70 ppbv

RT: 7.07 min Scan# 1861

Delta R.T. 0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

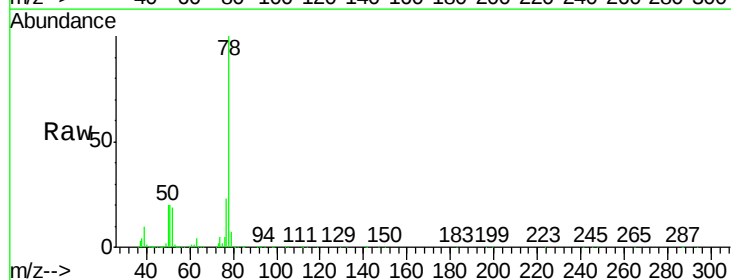
Tgt Ion: 78 Resp: 3907351

Ion Ratio Lower Upper

78 100

77 22.8 18.0 27.0

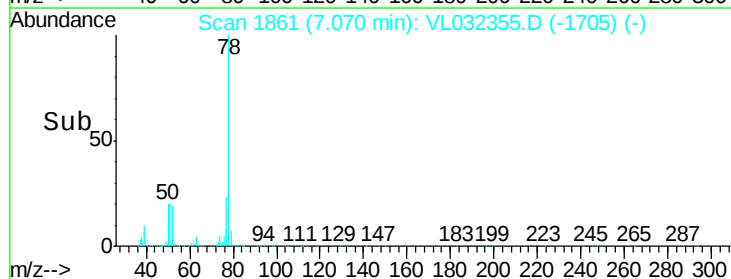
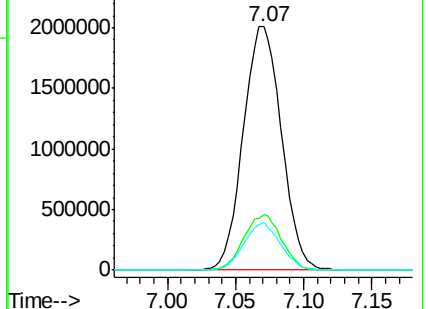
50 19.8 15.1 22.7

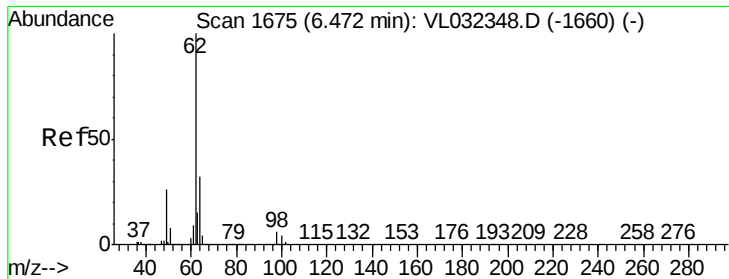


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





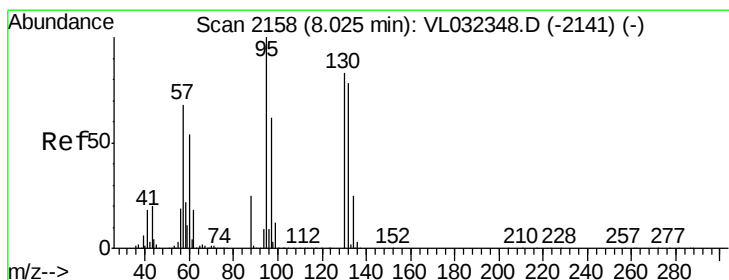
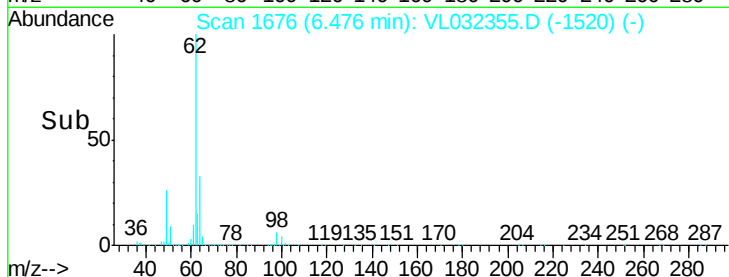
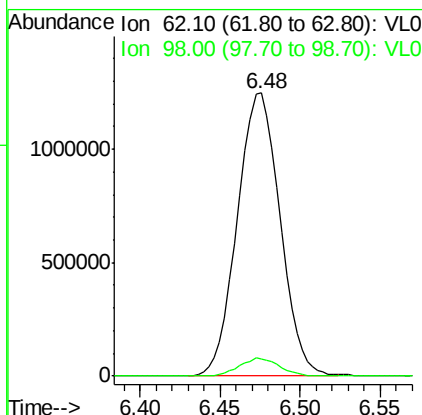
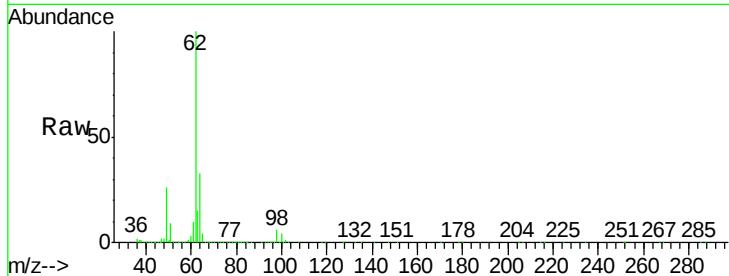
#37
 1,2-Dichloroethane
 Concen: 9.31 ppbv
 RT: 6.48 min Scan# 1676
 Delta R.T. 0.00 min
 Lab File: VL032355.D
 Acq: 15 Aug 2018 15:15

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081518

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.1	5.0	7.6

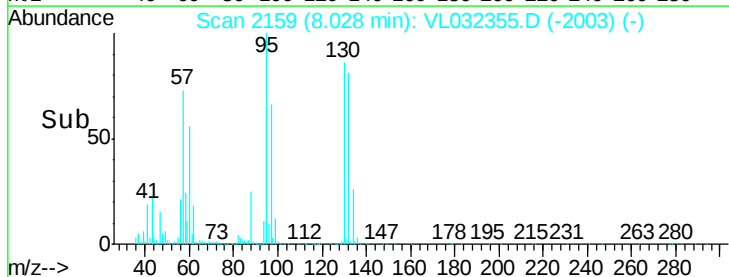
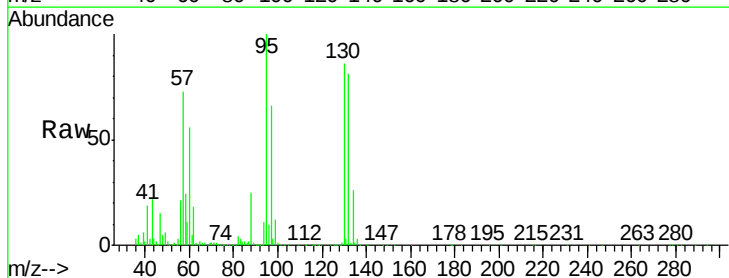
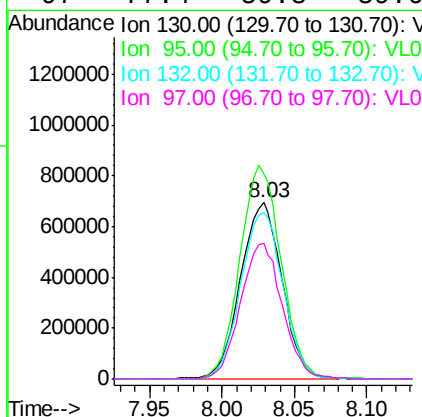
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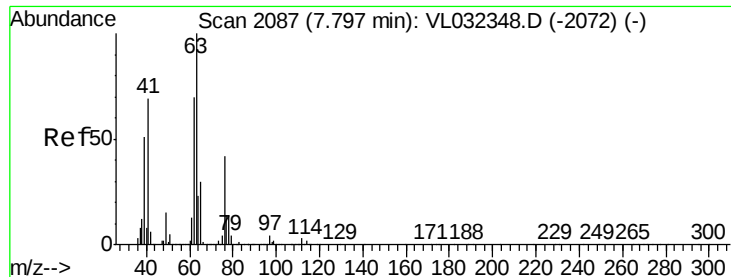
MMDadoda
 8/28/2018 2:52:34 PM



#38
 Trichloroethene
 Concen: 9.68 ppbv
 RT: 8.03 min Scan# 2159
 Delta R.T. 0.00 min
 Lab File: VL032355.D
 Acq: 15 Aug 2018 15:15

Tgt Ion	Ratio	Lower	Upper
130	100		
95	116.6	96.6	144.8
132	94.8	75.5	113.3
97	77.4	59.8	89.6





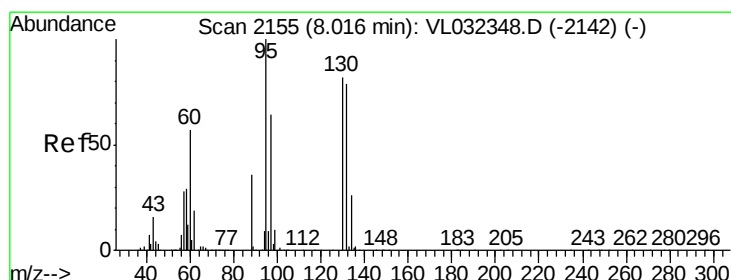
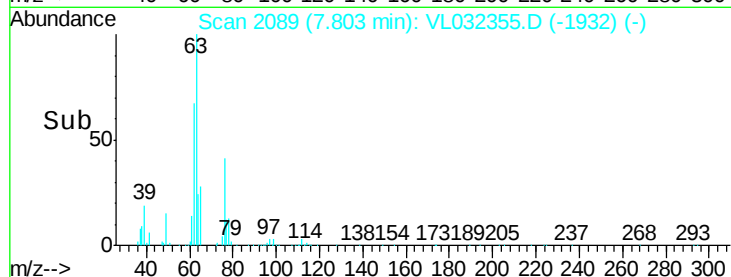
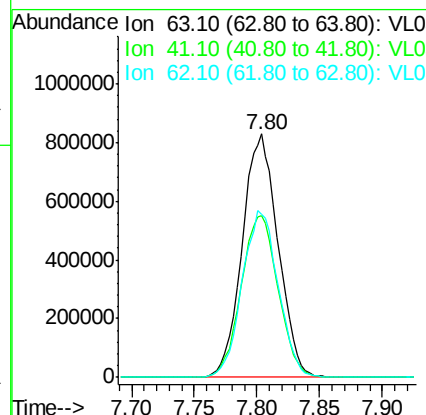
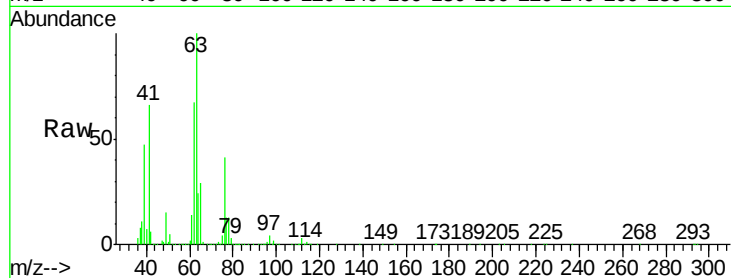
#39
 1,2-Dichloropropane
 Concen: 9.78 ppbv
 RT: 7.80 min Scan# 2089
 Delta R.T. 0.01 min
 Lab File: VL032355.D
 Acq: 15 Aug 2018 15:15

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081518

Tot Ion	Ratio	Lower	Upper
63	100		
41	66.2	55.5	83.3
62	67.0	56.3	84.5

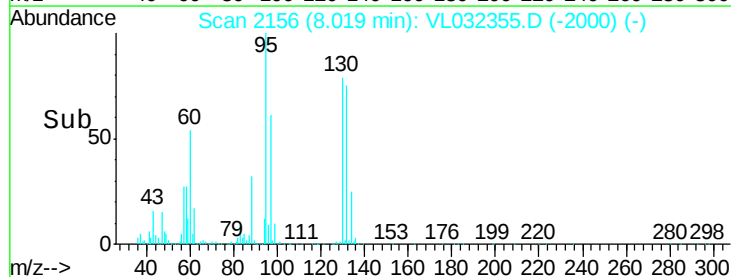
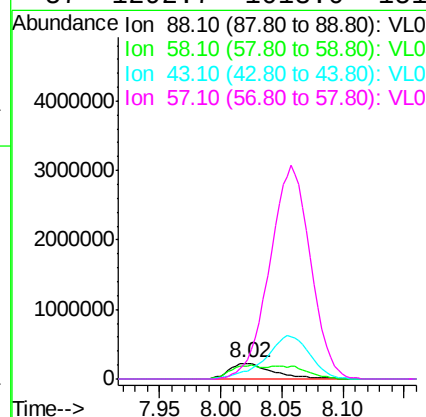
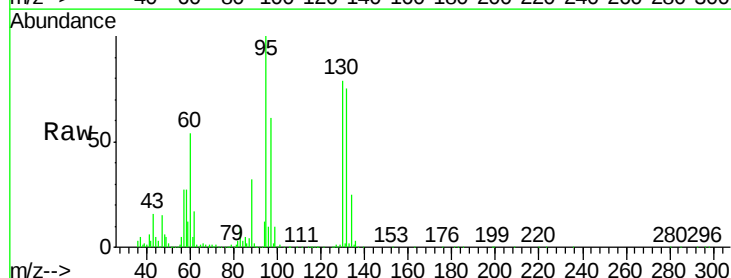
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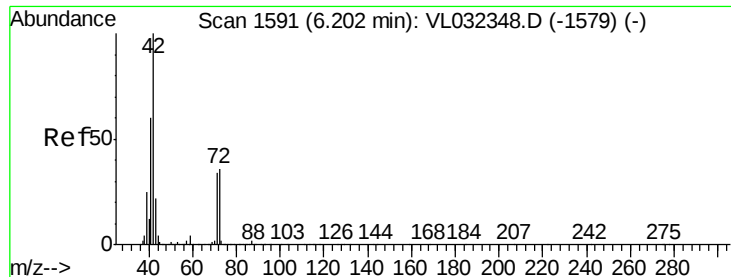
MMDadoda
 8/28/2018 2:52:34 PM



#40
 1,4-Dioxane
 Concen: 10.88 ppbv
 RT: 8.02 min Scan# 2156
 Delta R.T. 0.00 min
 Lab File: VL032355.D
 Acq: 15 Aug 2018 15:15

Tgt Ion	Ratio	Lower	Upper
88	100		
58	142.7	113.7	170.5
43	286.4	224.0	336.0
57	1292.7	1013.0	1519.6





#41

Tetrahydrofuran

Concen: 10.69 ppbv

RT: 6.21 min Scan# 1592

Delta R.T. 0.00 min

Lab File: VL032355.D

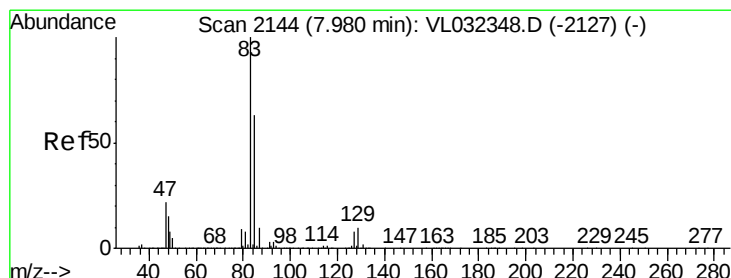
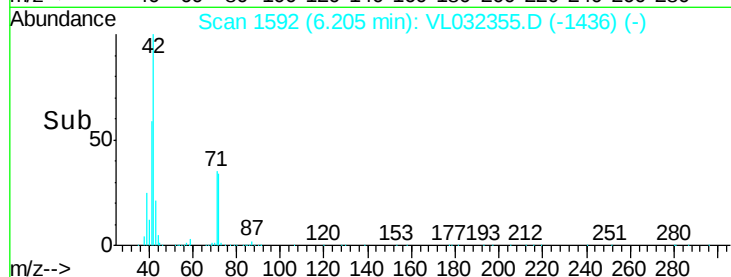
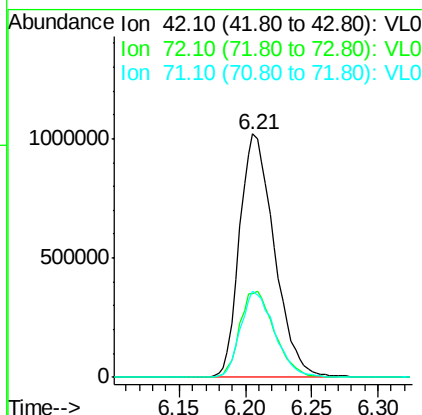
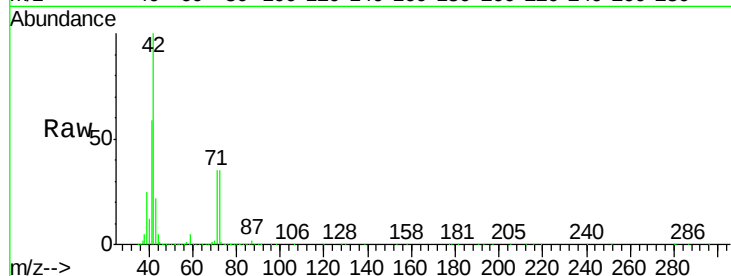
Acq: 15 Aug 2018 15:15

Tot Ion:	42	Resp:	1856308
Ion	Ratio	Lower	Upper
42	100		
72	35.8	29.8	44.6
71	34.8	28.2	42.2

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081518

Manual Integrations
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8/28/2018 2:52:34 PM



#42

Bromodichloromethane

Concen: 9.75 ppbv

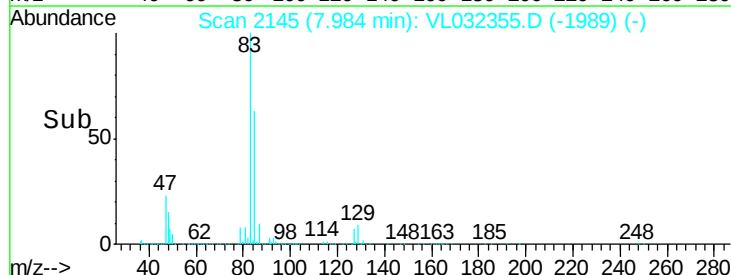
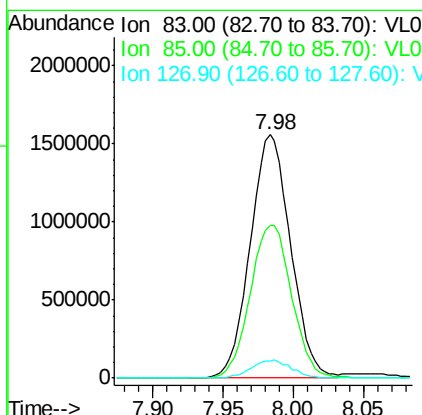
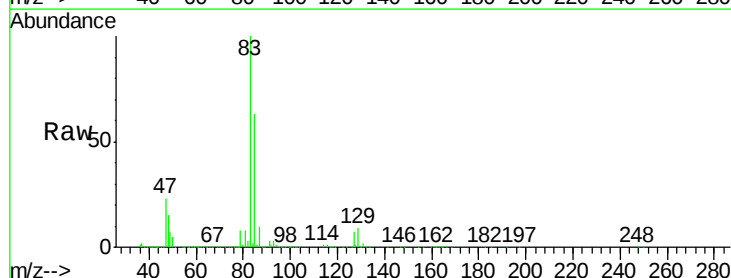
RT: 7.98 min Scan# 2145

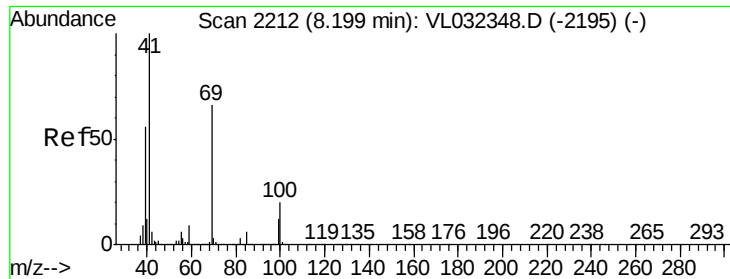
Delta R.T. 0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Tgt Ion:	83	Resp:	3121100
Ion	Ratio	Lower	Upper
83	100		
85	62.6	50.4	75.6
127	7.0	6.1	9.1





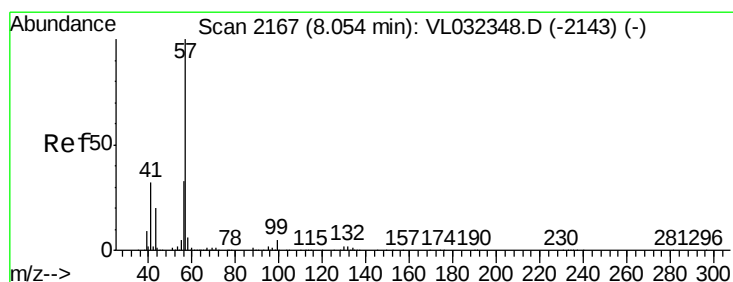
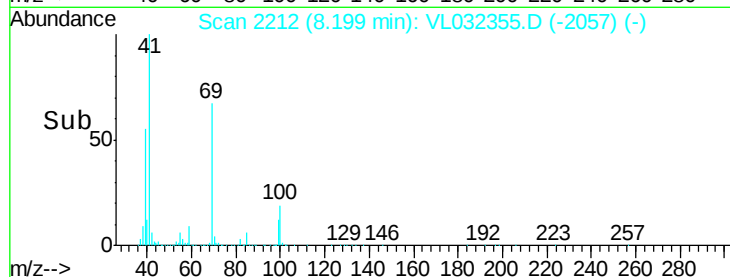
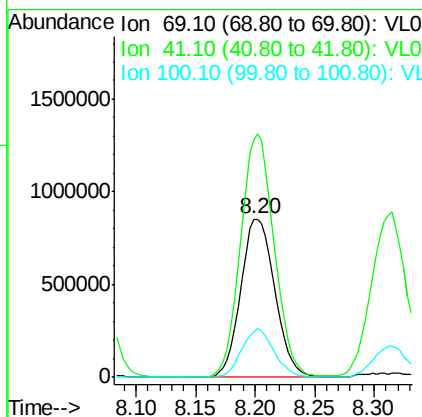
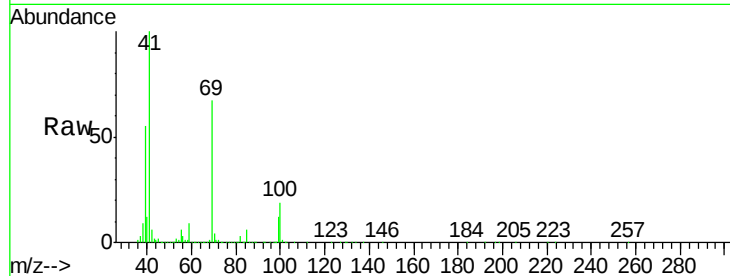
#43
Methvl Methacrilate
Concen: 10.55 ppbv
RT: 8.20 min Scan# 2212
Delta R.T. -0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081518

Tot Ion: 69 Resp: 1694001
Ion Ratio Lower Upper
69 100
41 150.9 118.6 177.8
100 29.0 23.4 35.2

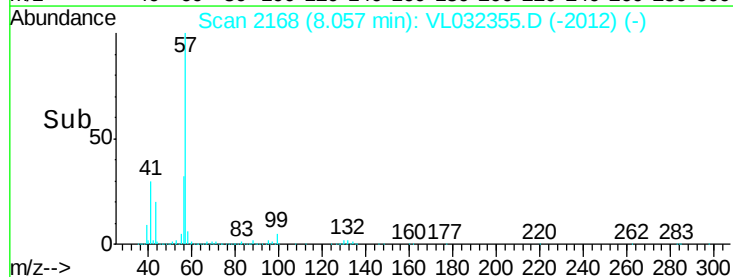
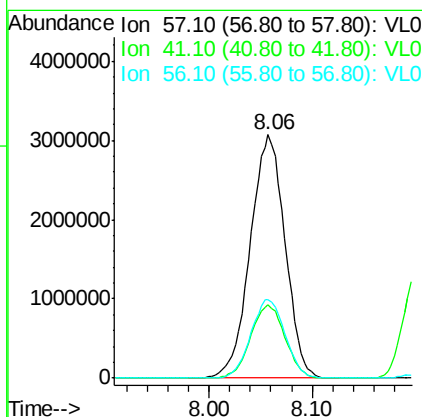
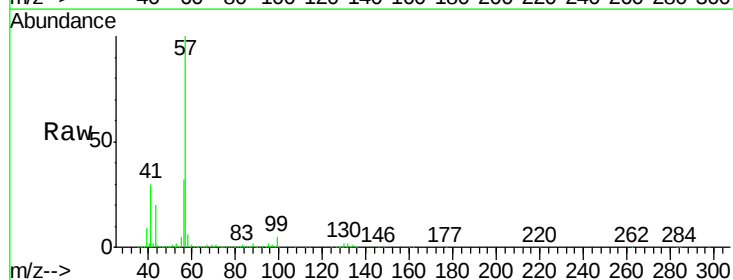
Manual Integrations
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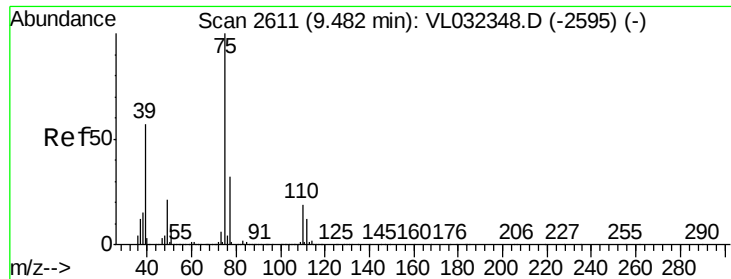
MMDadoda
8/28/2018 2:52:34 PM



#44
2,2,4-Trimethylpentane
Concen: 9.89 ppbv
RT: 8.06 min Scan# 2168
Delta R.T. 0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Tgt Ion: 57 Resp: 7182539
Ion Ratio Lower Upper
57 100
41 29.8 24.3 36.5
56 31.8 25.7 38.5





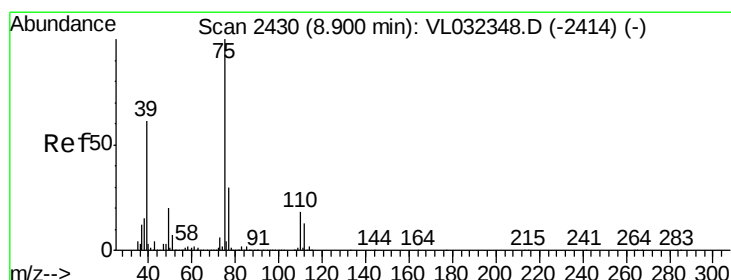
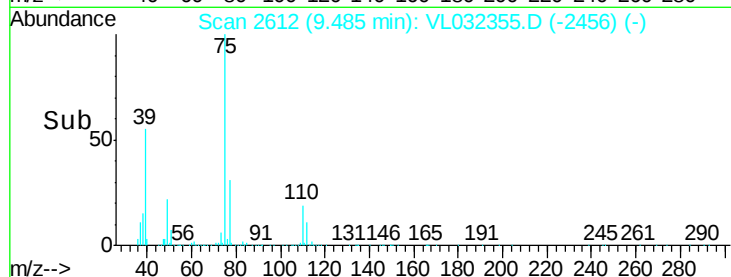
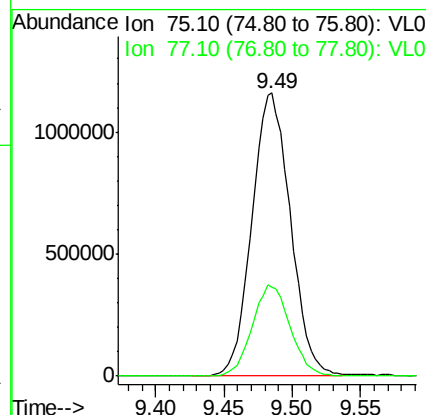
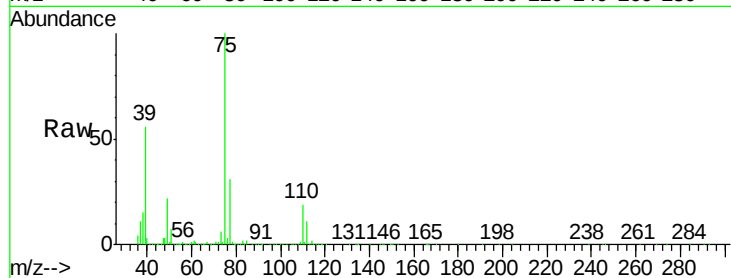
#45
t-1,3-Dichloropropene
Concen: 11.18 ppbv
RT: 9.49 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081518

Tot Ion: 75 Resp: 2269991
Ion Ratio Lower Upper
75 100
77 31.3 25.4 38.2

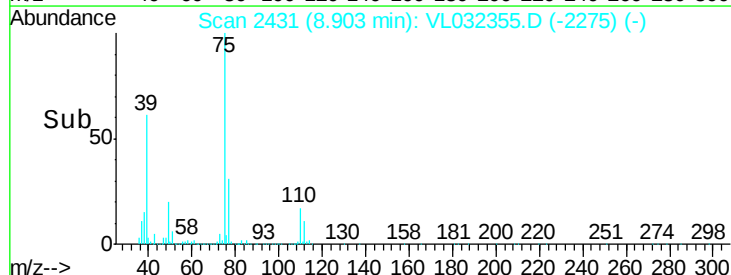
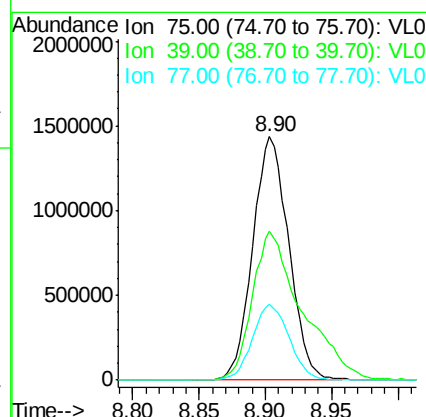
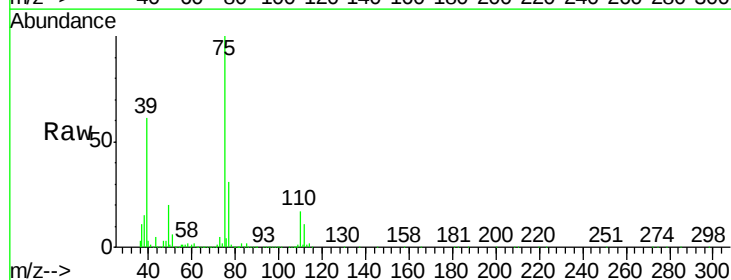
Manual Integrations
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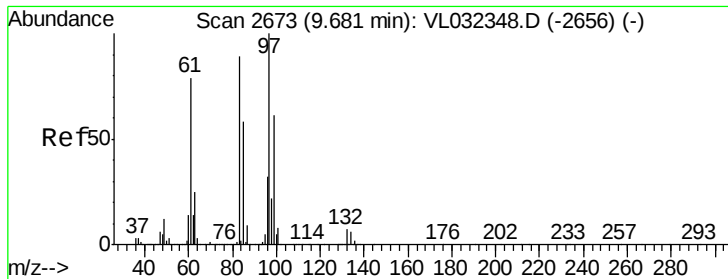
MMDadoda
8/28/2018 2:52:34 PM



#46
cis-1,3-Dichloropropene
Concen: 11.15 ppbv
RT: 8.90 min Scan# 2431
Delta R.T. 0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Tgt Ion: 75 Resp: 2714486
Ion Ratio Lower Upper
75 100
39 61.2 48.5 72.7
77 31.3 24.3 36.5





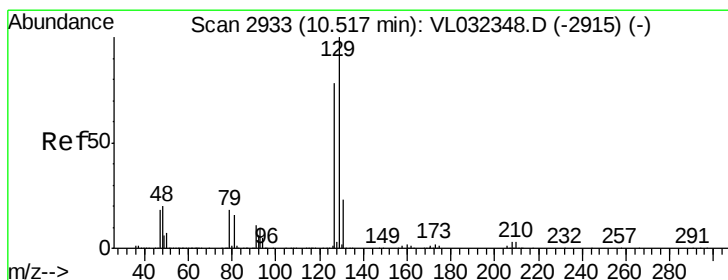
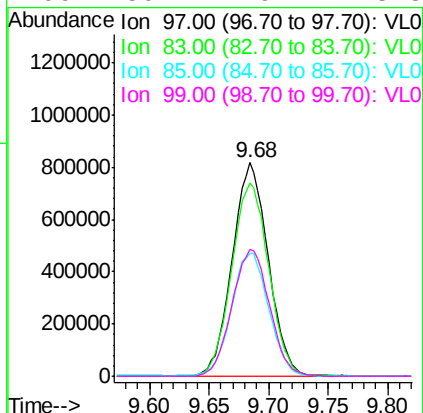
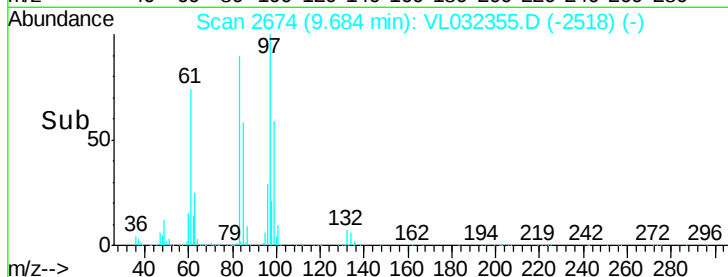
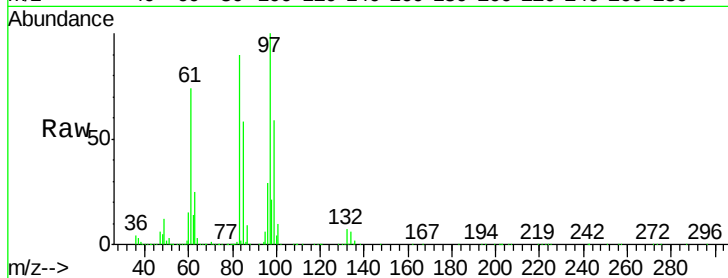
#47
 1,1,2-Trichloroethane
 Concen: 9.23 ppbv
 RT: 9.68 min Scan# 2674
 Delta R.T. 0.00 min
 Lab File: VL032355.D
 Acq: 15 Aug 2018 15:15

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081518

Tot Ion	Ratio	Lower	Upper
97	100		
83	90.4	71.2	106.8
85	57.6	46.6	69.8
99	59.1	49.2	73.8

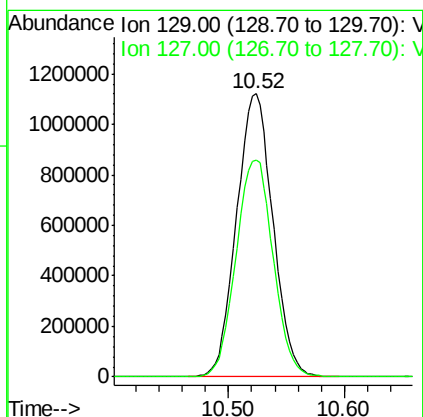
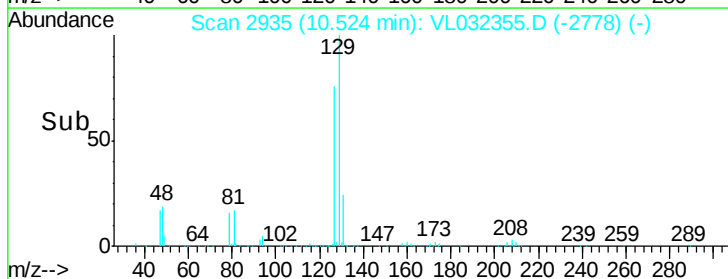
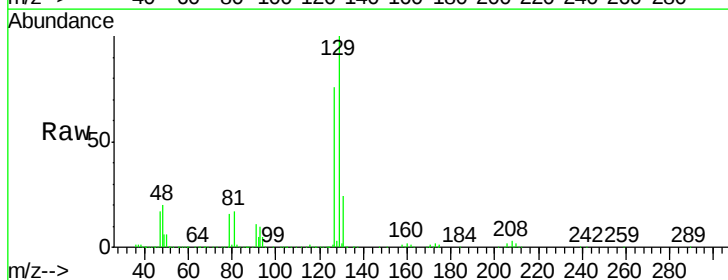
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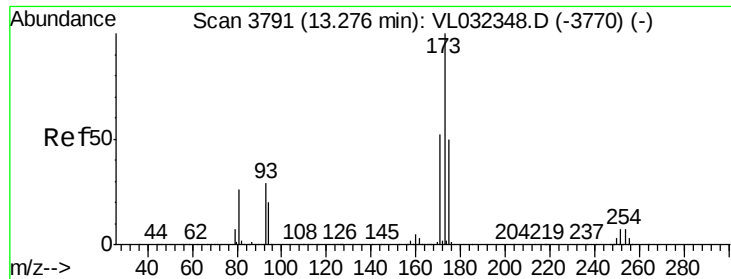
MMDadoda
 8/28/2018 2:52:34 PM



#48
 Dibromochloromethane
 Concen: 9.86 ppbv
 RT: 10.52 min Scan# 2935
 Delta R.T. 0.01 min
 Lab File: VL032355.D
 Acq: 15 Aug 2018 15:15

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.3	117.9





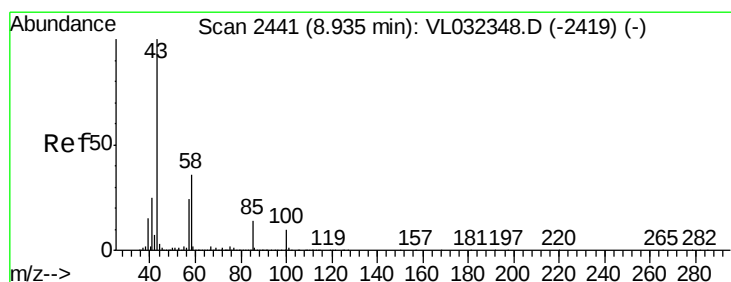
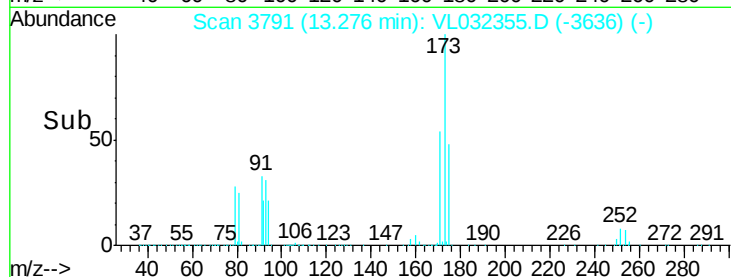
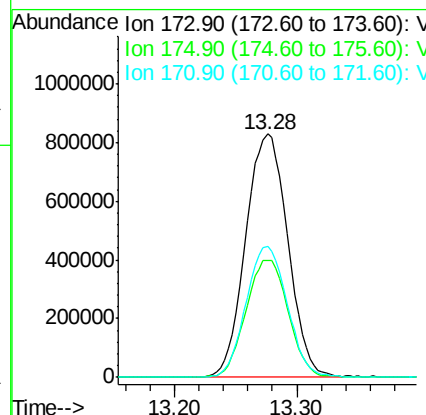
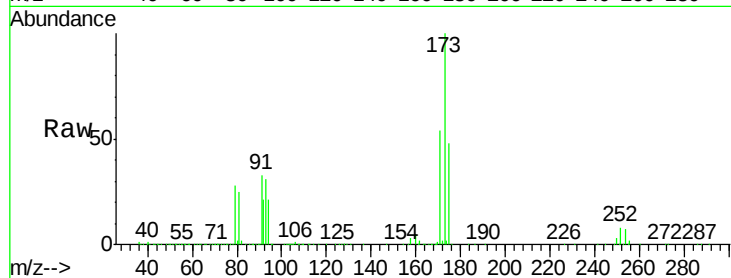
#49
Bromoform
Concen: 9.64 ppbv
RT: 13.28 min Scan# 3791
Delta R.T. -0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081518

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.6	39.3	58.9
171	52.7	41.9	62.9

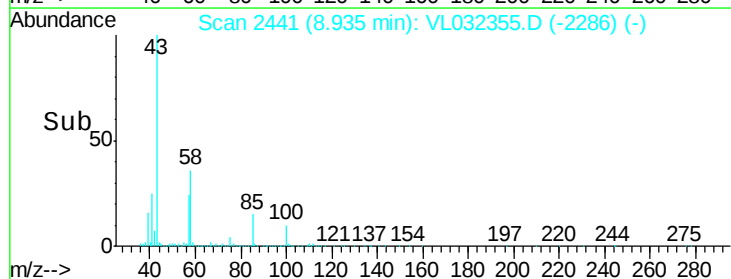
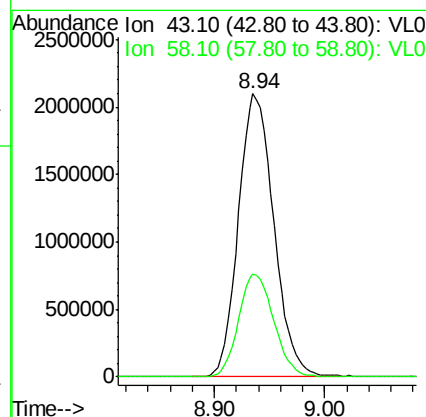
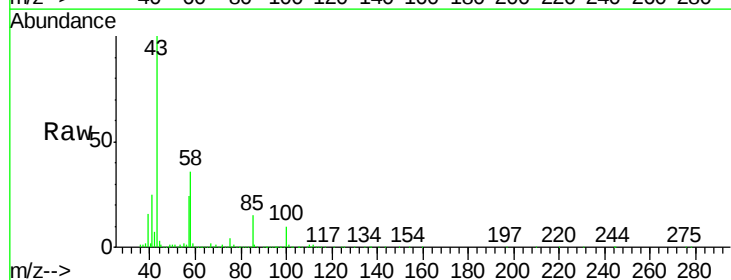
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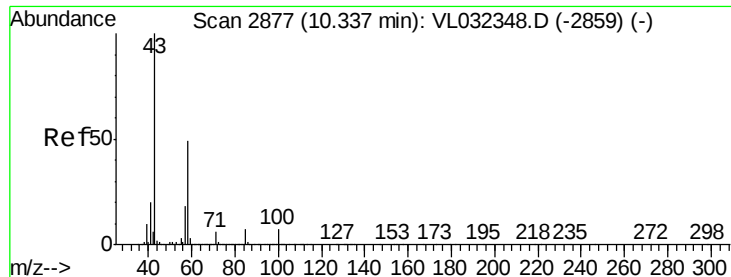
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#50
4-Methyl-2-Pentanone
Concen: 10.00 ppbv
RT: 8.94 min Scan# 2441
Delta R.T. -0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.2	28.9	43.3





#51

2-Hexanone

Concen: 10.74 ppbv

RT: 10.34 min Scan# 2878

Delta R.T. 0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081518

Tot Ion: 43 Resp: 3523176

Ion Ratio Lower Upper

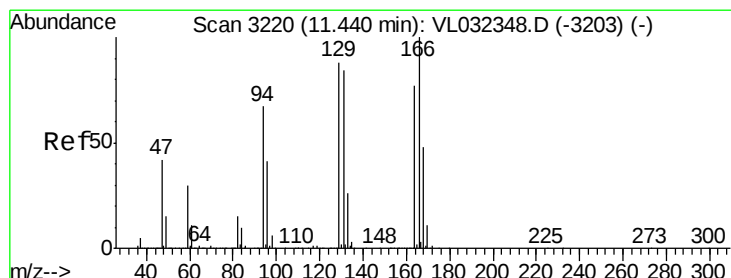
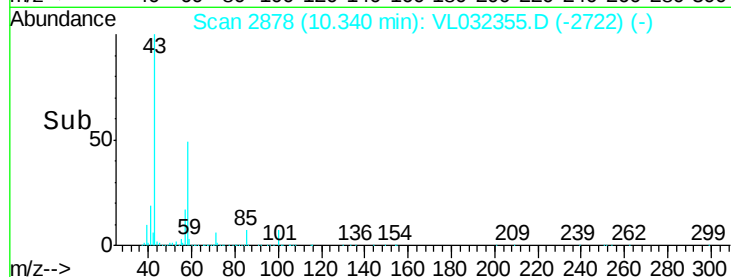
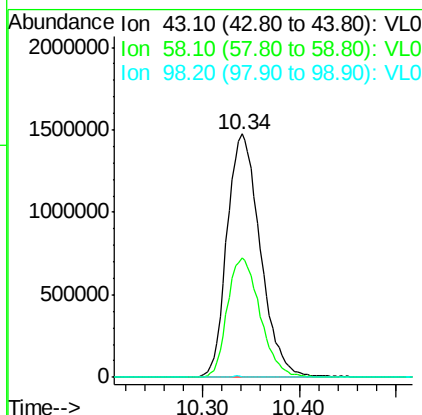
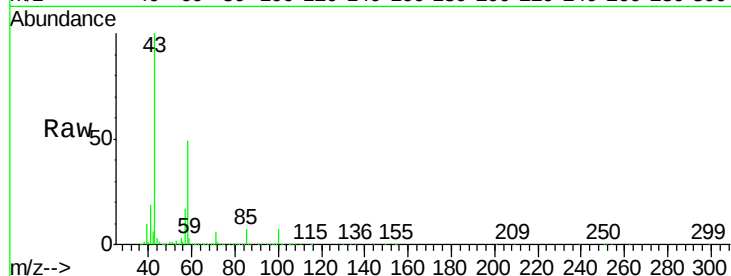
43 100

58 48.4 39.5 59.3

98 0.5 0.3 0.5#

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#52

Tetrachloroethene

Concen: 9.72 ppbv

RT: 11.45 min Scan# 3222

Delta R.T. 0.01 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Tgt Ion: 164 Resp: 1154497

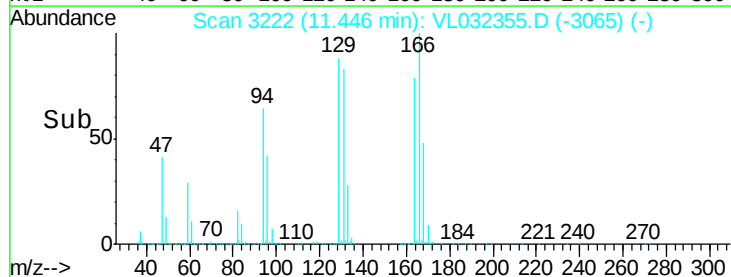
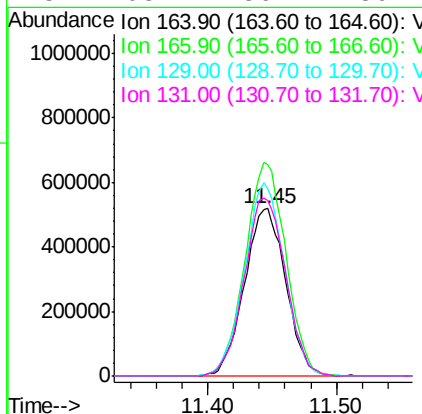
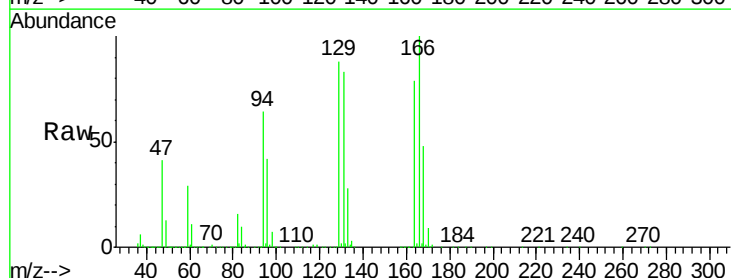
Ion Ratio Lower Upper

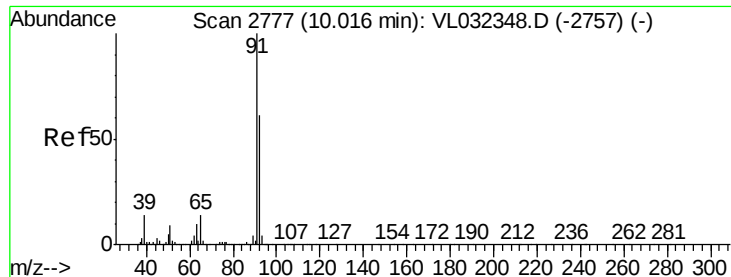
164 100

166 126.3 103.5 155.3

129 111.2 90.9 136.3

131 105.1 86.7 130.1





#53

Toluene

Concen: 9.90 ppbv

RT: 10.02 min Scan# 2777

Delta R.T. -0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081518

Tot Ion: 91 Resp: 4369770

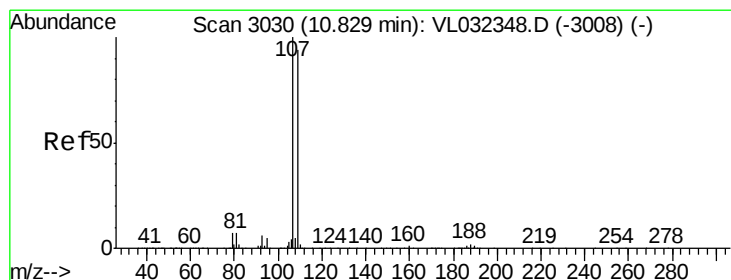
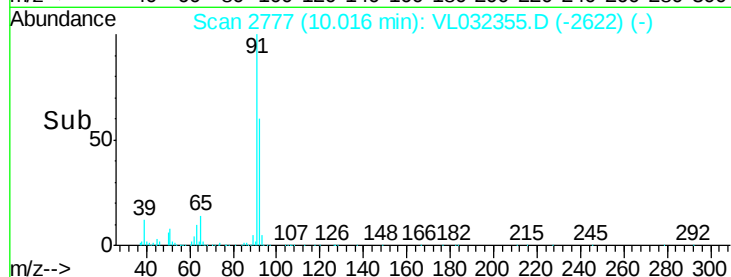
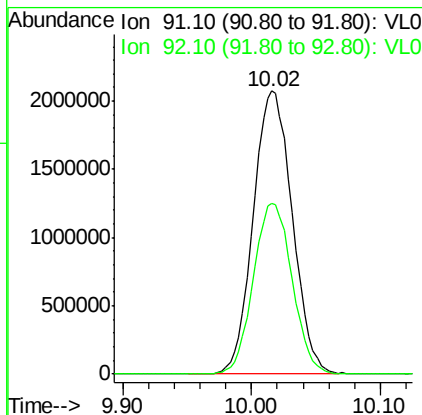
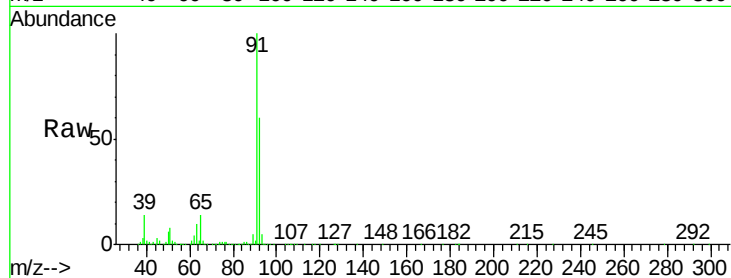
Ion Ratio Lower Upper

91 100

92 60.2 48.7 73.1

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#54

1,2-Dibromoethane

Concen: 9.61 ppbv

RT: 10.83 min Scan# 3031

Delta R.T. 0.00 min

Lab File: VL032355.D

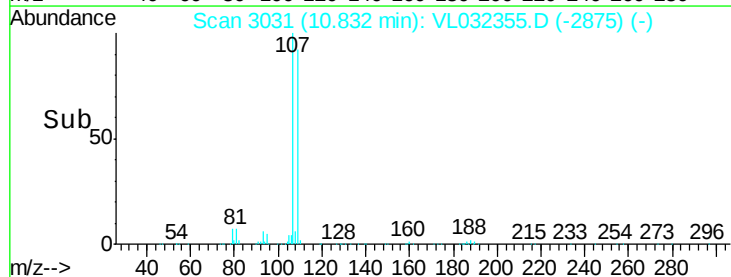
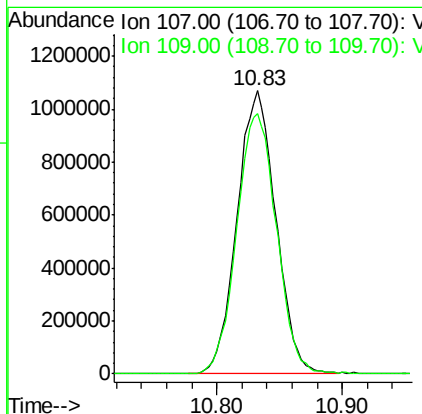
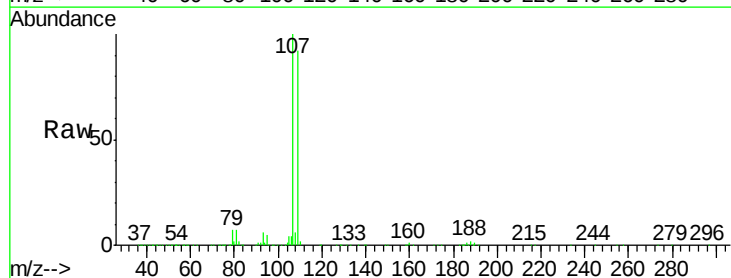
Acq: 15 Aug 2018 15:15

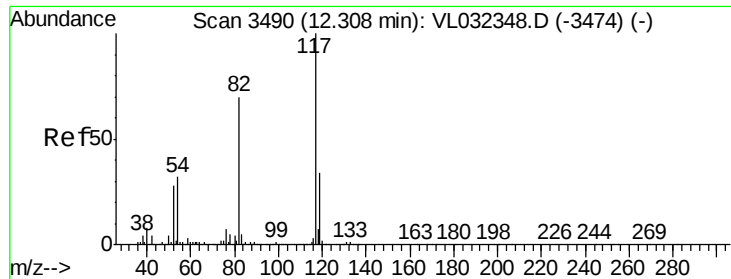
Tgt Ion: 107 Resp: 2285731

Ion Ratio Lower Upper

107 100

109 92.1 74.9 112.3





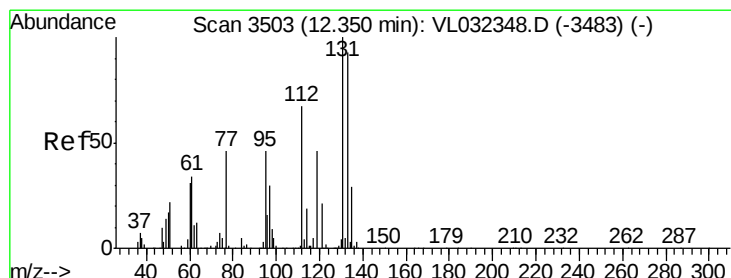
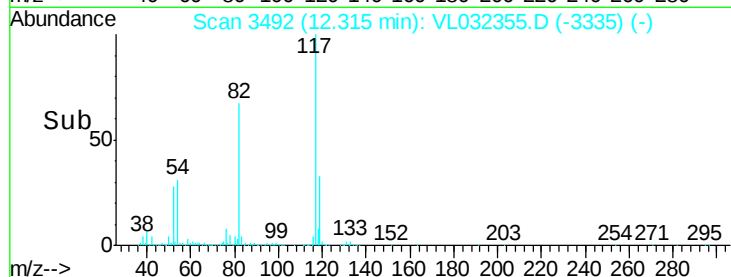
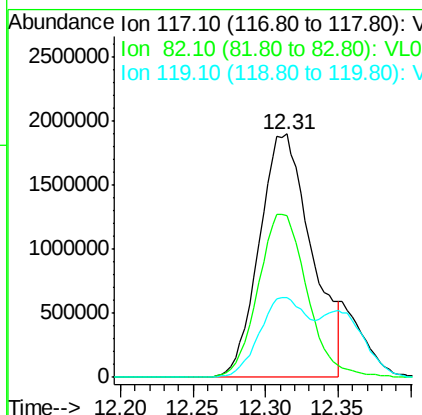
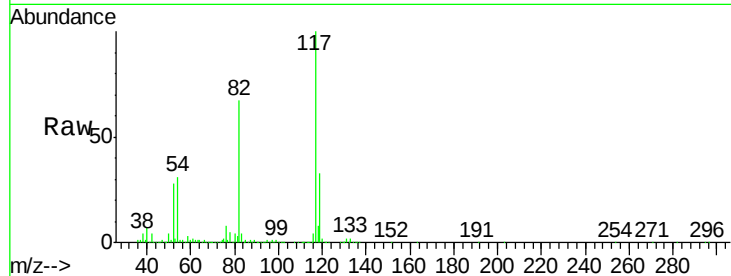
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.31 min Scan# 3492
Delta R.T. 0.01 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081518

Tot Ion:117 Resp: 4765696
Ion Ratio Lower Upper
117 100
82 63.0 55.1 82.7
119 53.1 46.0 69.0

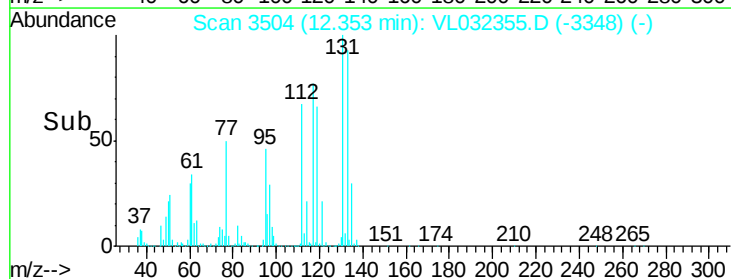
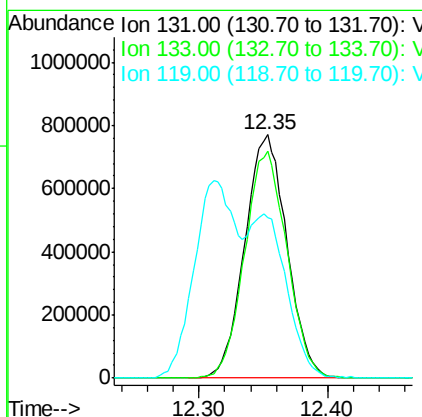
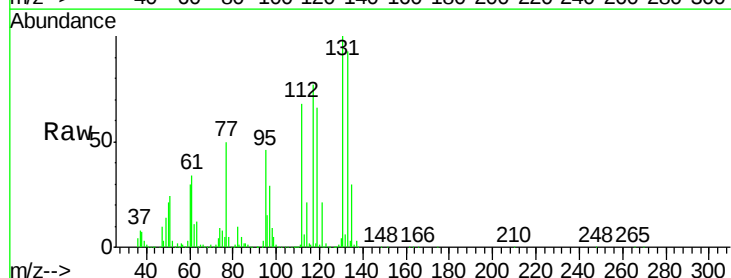
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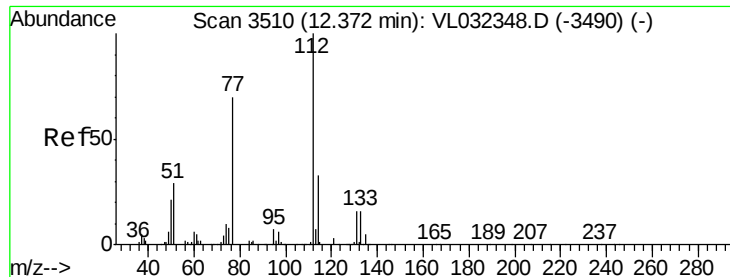
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.89 ppbv
RT: 12.35 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Tgt Ion:131 Resp: 1752256
Ion Ratio Lower Upper
131 100
133 93.7 75.7 113.5
119 144.6 116.0 174.0





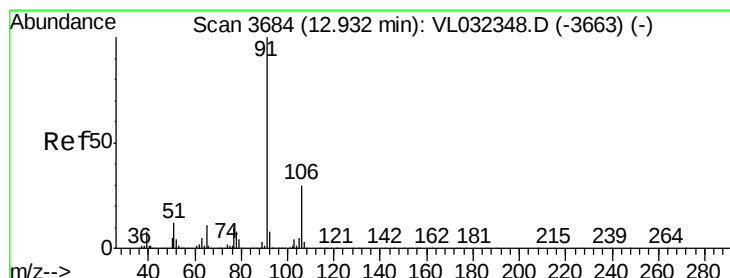
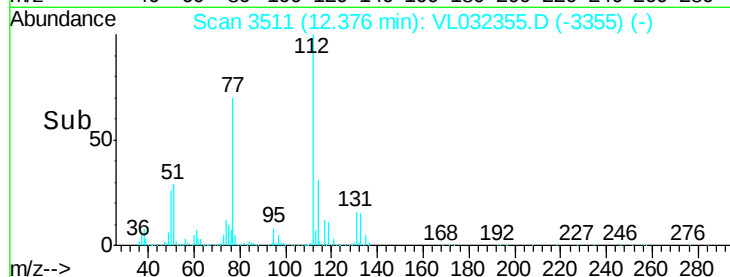
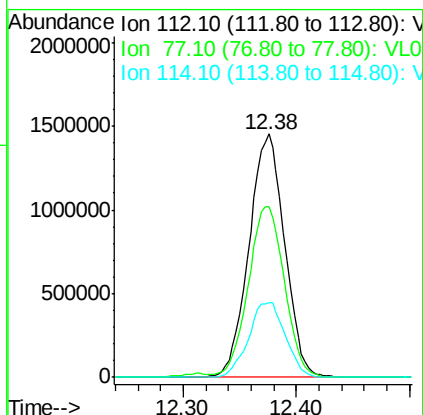
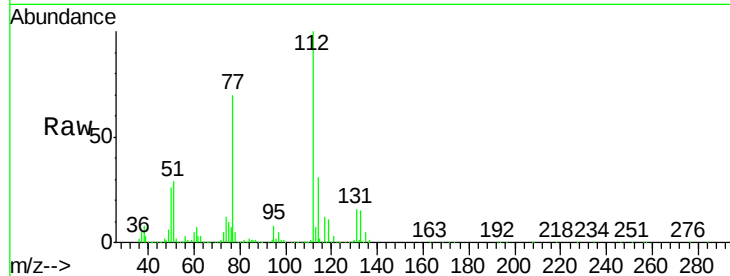
#57
Chlorobenzene
Concen: 8.85 ppbv
RT: 12.38 min Scan# 3511
Delta R.T. 0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081518

Tot Ion	Ratio	Lower	Upper
112	100		
77	70.1	56.6	84.8
114	30.9	29.4	36.0

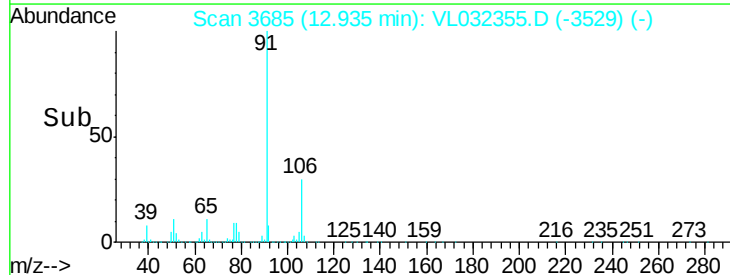
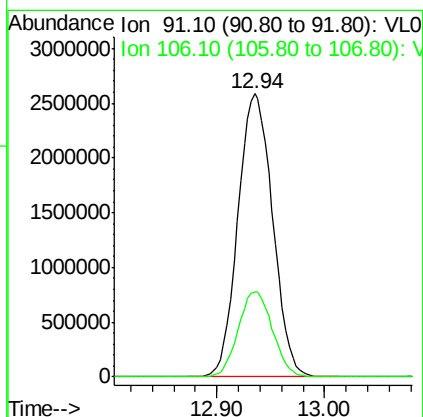
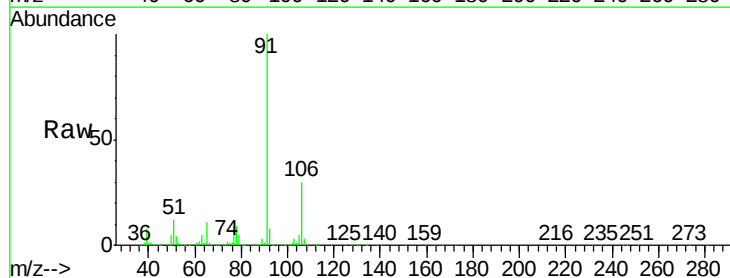
Manual Integrations
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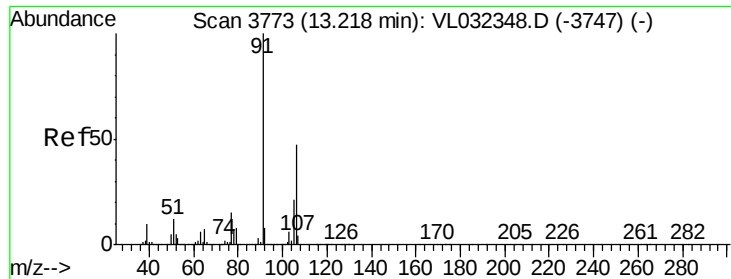
MMDadoda
8/28/2018 2:52:34 PM



#58
Ethyl Benzene
Concen: 10.09 ppbv
RT: 12.94 min Scan# 3685
Delta R.T. 0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.1	24.3	36.5





#59

m/p-Xylene

Concen: 19.11 ppbv m

RT: 13.22 min Scan# 3774

Delta R.T. 0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081518

Tot Ion: 91 Resp: 9308223

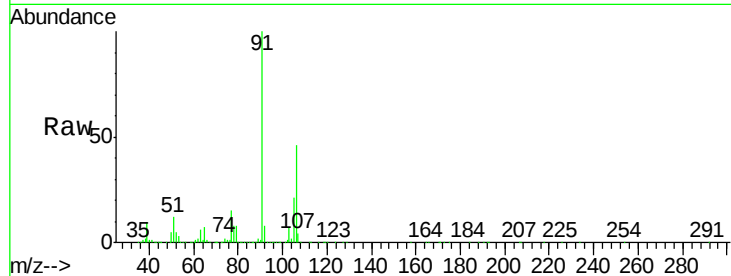
Ion Ratio Lower Upper

91 100

106 45.7 37.0 55.4

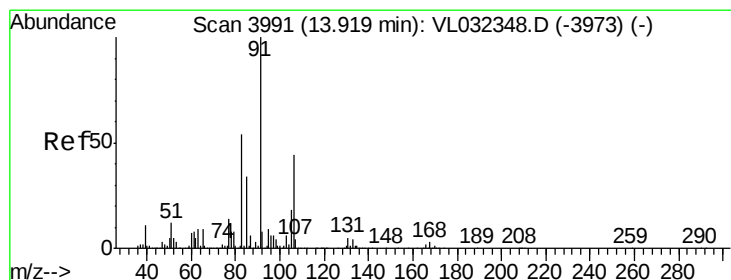
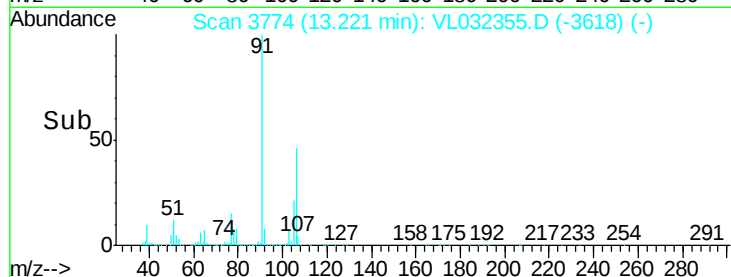
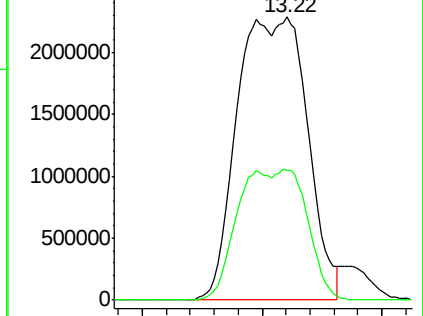
Manual Integrations
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8/28/2018 2:52:34 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 9.47 ppbv

RT: 13.92 min Scan# 3992

Delta R.T. 0.00 min

Lab File: VL032355.D

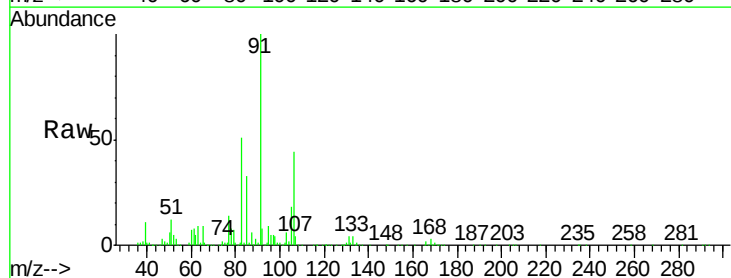
Acq: 15 Aug 2018 15:15

Tgt Ion: 91 Resp: 4535233

Ion Ratio Lower Upper

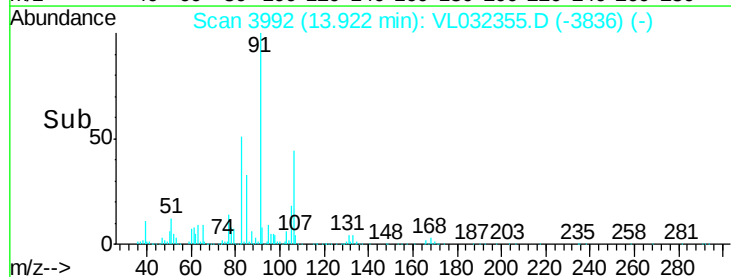
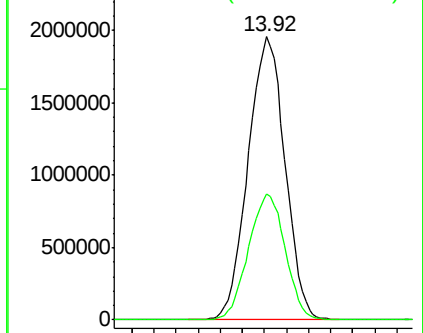
91 100

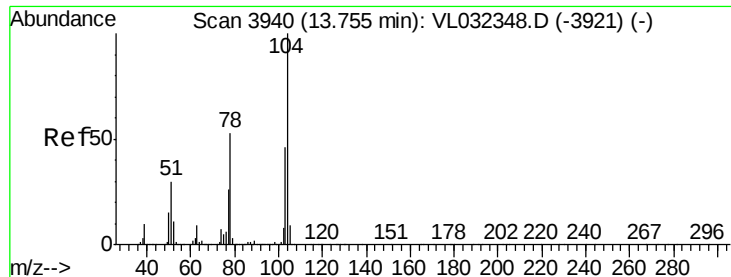
106 44.4 22.3 66.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





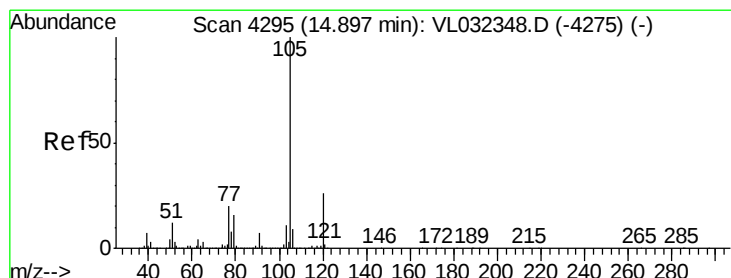
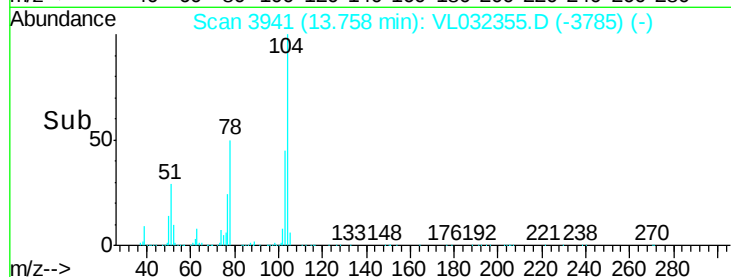
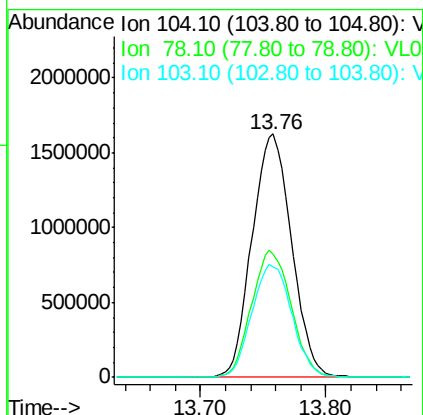
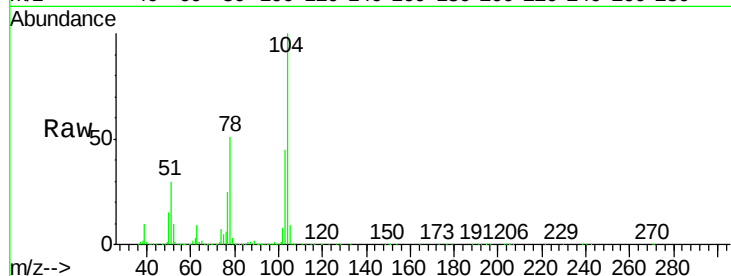
#61
Stvrene
Concen: 10.61 ppbv
RT: 13.76 min Scan# 3941
Delta R.T. 0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081518

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.5	42.6	64.0
103	46.9	38.0	57.0

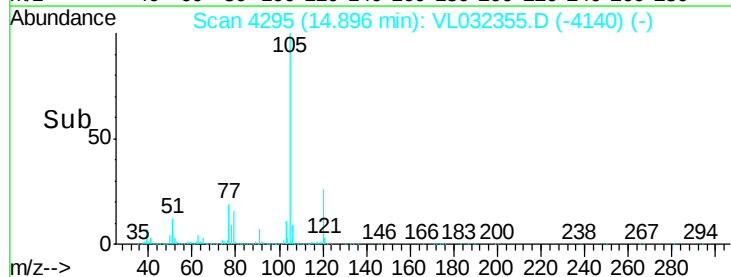
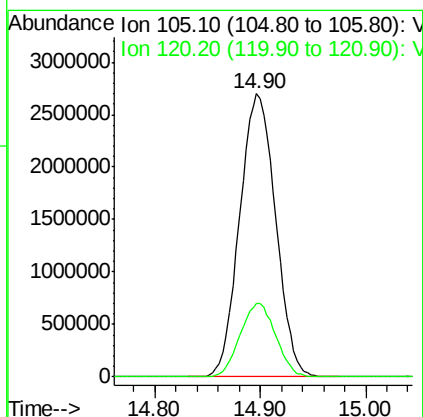
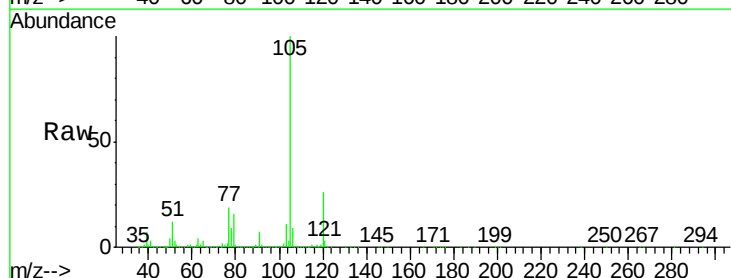
Manual Integrations
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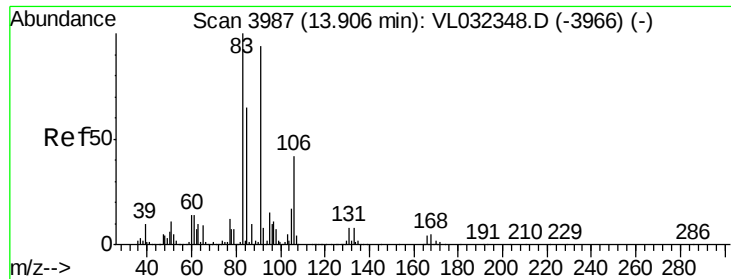
MMDadoda
8/28/2018 2:52:34 PM



#62
Isopropylbenzene
Concen: 9.40 ppbv
RT: 14.90 min Scan# 4295
Delta R.T. -0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.7	20.6	30.8





#63

1,1,2,2-Tetrachloroethane

Concen: 8.55 ppbv

RT: 13.91 min Scan# 3987

Delta R.T. -0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081518

Tot Ion: 83 Resp: 3440819

Ion Ratio Lower Upper

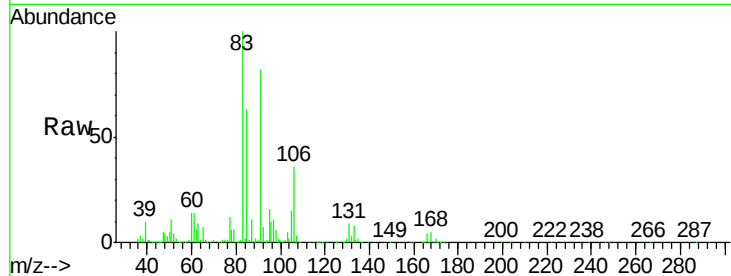
83 100

131 8.5 4.3 12.8

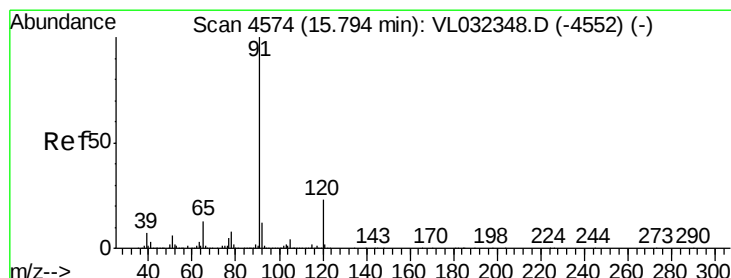
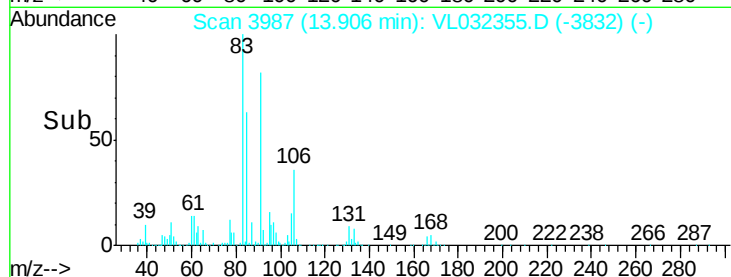
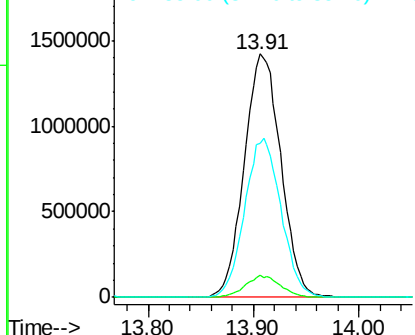
85 64.8 32.4 97.2

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



#64

n-propylbenzene

Concen: 9.62 ppbv

RT: 15.79 min Scan# 4574

Delta R.T. -0.00 min

Lab File: VL032355.D

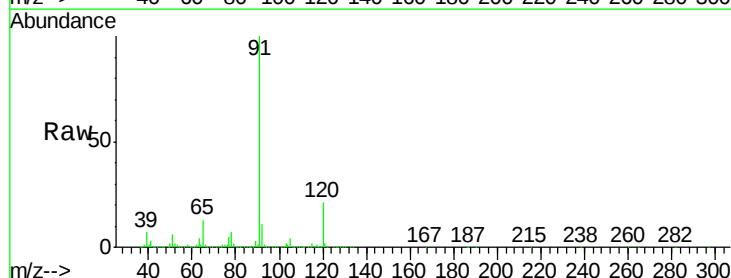
Acq: 15 Aug 2018 15:15

Tgt Ion: 120 Resp: 1697077

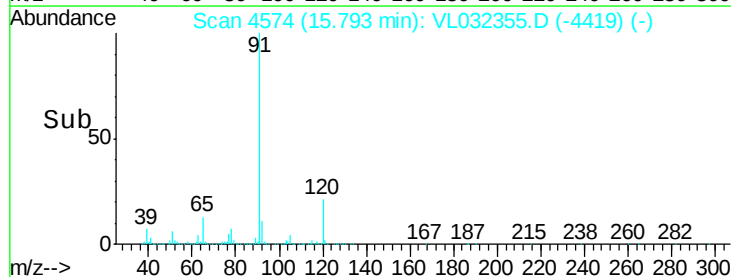
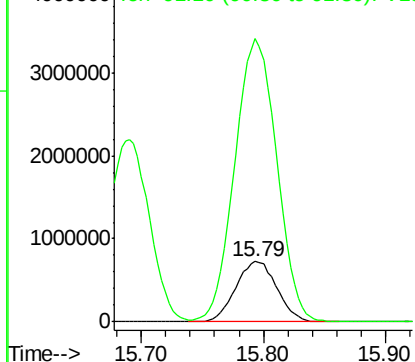
Ion Ratio Lower Upper

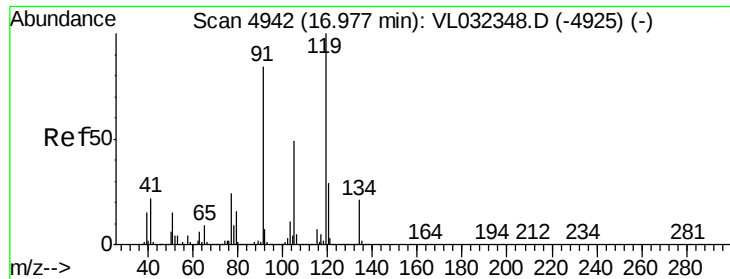
120 100

91 479.3 382.2 573.2



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





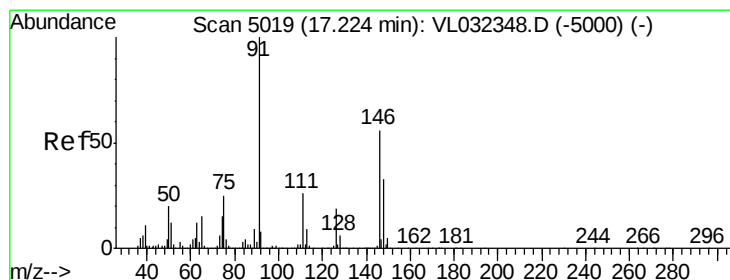
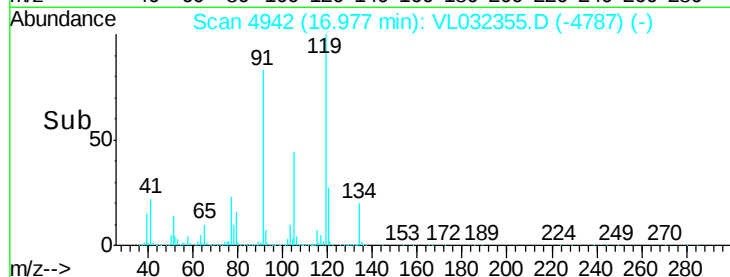
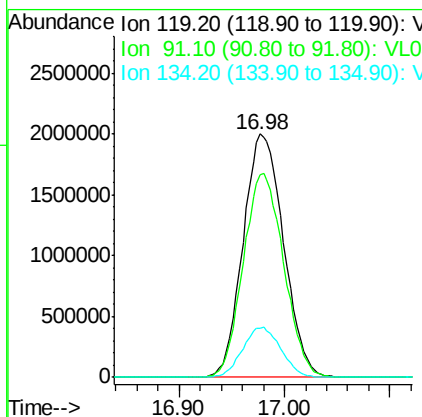
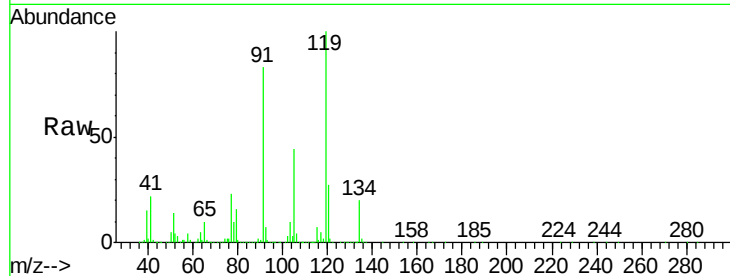
#65
tert-Butylbenzene
Concen: 9.14 ppbv
RT: 16.98 min Scan# 4942
Delta R.T. -0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Instrument :
MSVOA_L
ClientSampleId :
ICVVL081518

Tot Ion:119 Resp: 5323046
Ion Ratio Lower Upper
119 100
91 84.2 67.4 101.0
134 19.5 15.8 23.6

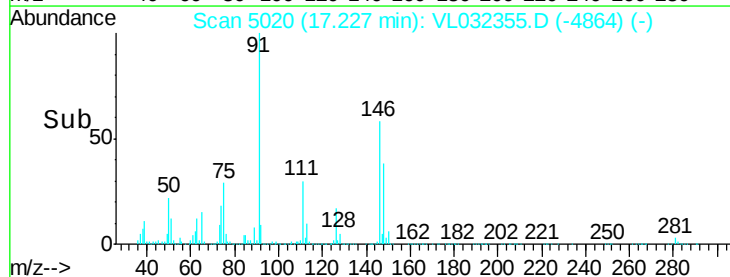
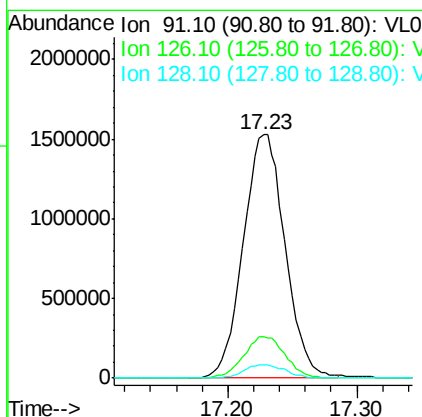
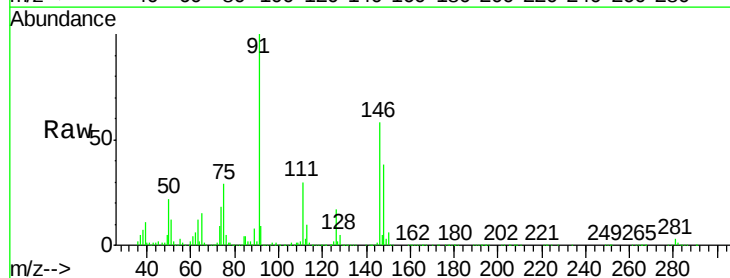
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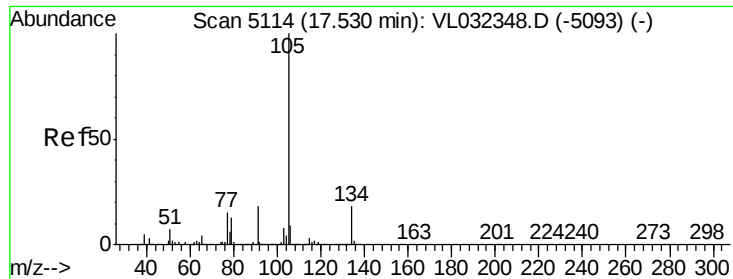
MMDadoda
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#66
Benzyl Chloride
Concen: 9.98 ppbv
RT: 17.23 min Scan# 5020
Delta R.T. 0.00 min
Lab File: VL032355.D
Acq: 15 Aug 2018 15:15

Tgt Ion: 91 Resp: 3440944
Ion Ratio Lower Upper
91 100
126 17.3 14.2 21.4
128 5.4 4.5 6.7





#67

sec-Butylbenzene

Concen: 9.24 ppbv

RT: 17.53 min Scan# 5114

Delta R.T. -0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081518

Tot Ion:105 Resp: 7996933

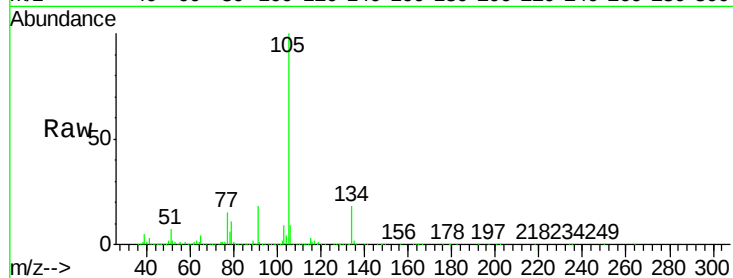
Ion Ratio Lower Upper

105 100

134 17.6 14.4 21.6

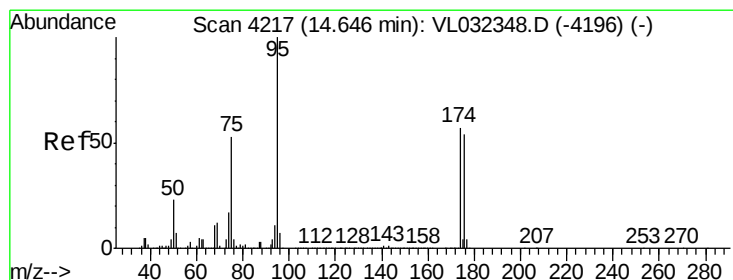
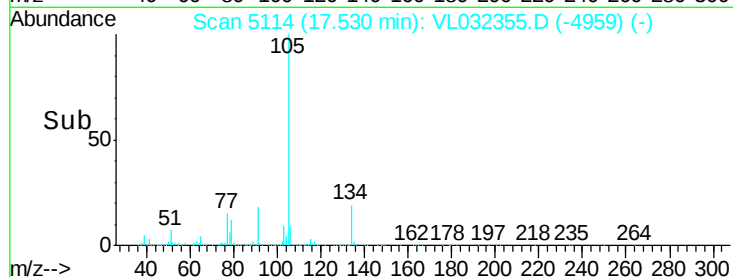
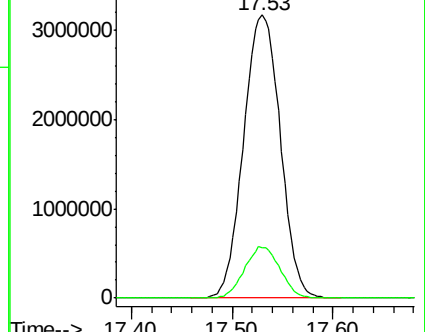
Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.31 ppbv

RT: 14.65 min Scan# 4218

Delta R.T. 0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

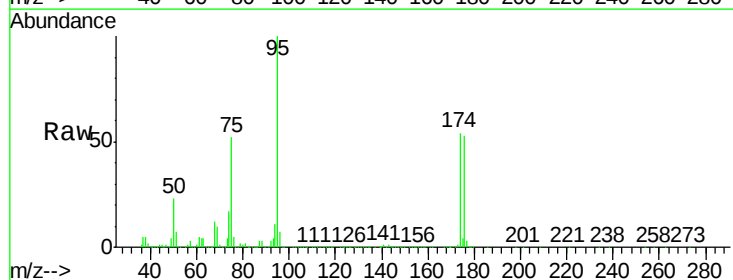
Tgt Ion: 95 Resp: 3386182

Ion Ratio Lower Upper

95 100

174 56.7 46.2 69.4

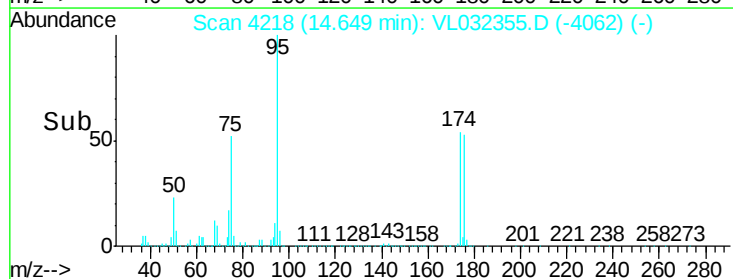
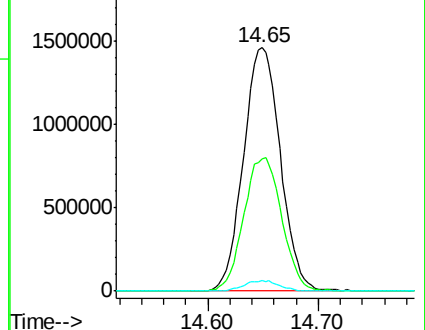
175 4.0 3.4 5.0

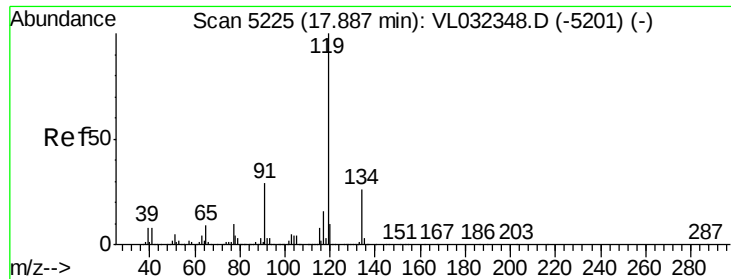


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





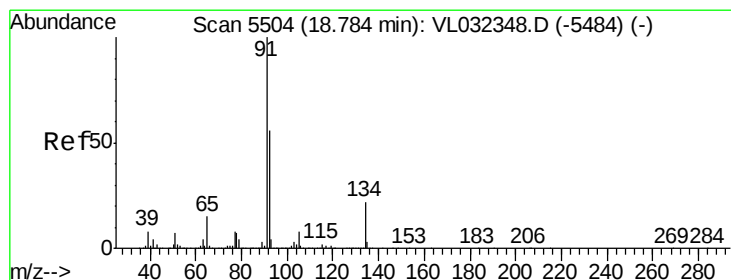
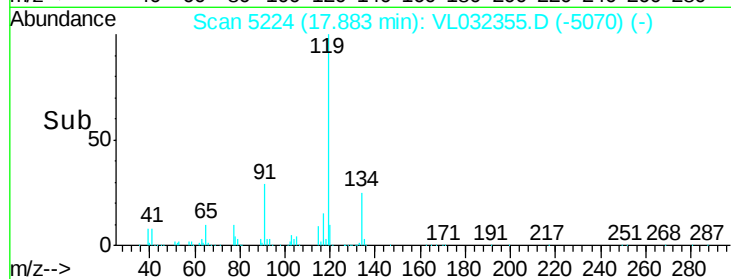
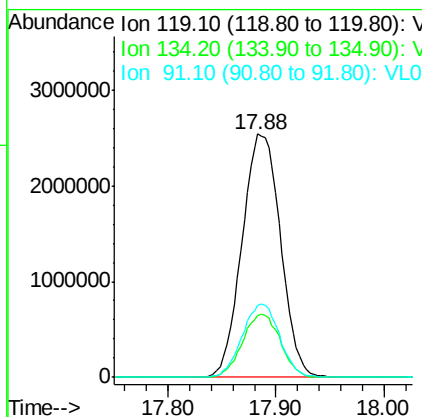
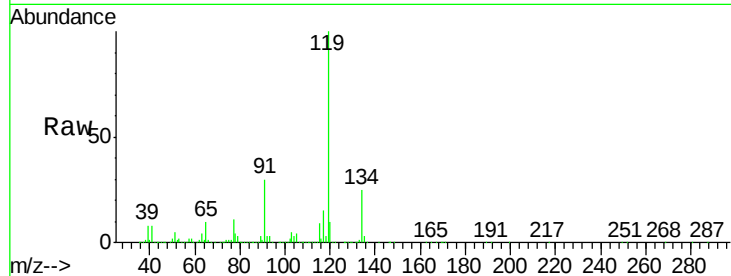
#69
 p-Isopropyltoluene
 Concen: 9.51 ppbv
 RT: 17.88 min Scan# 5224
 Delta R.T. -0.00 min
 Lab File: VL032355.D
 Acq: 15 Aug 2018 15:15

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081518

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.4	30.6
91	29.3	23.6	35.4

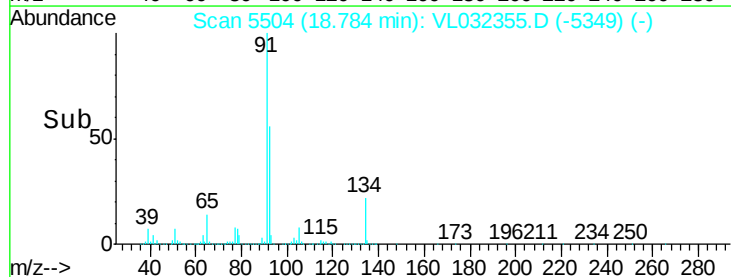
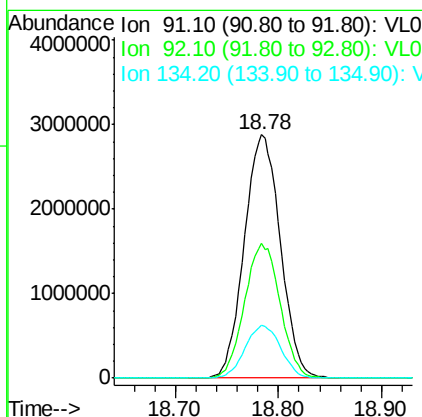
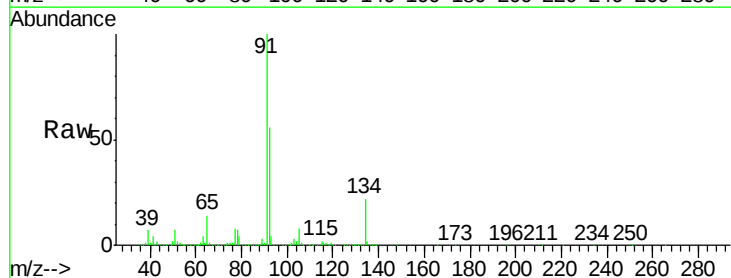
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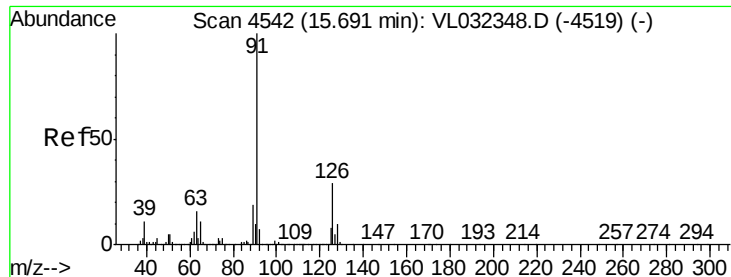
MMDadoda
 8/28/2018 2:52:34 PM



#70
 n-Butylbenzene
 Concen: 9.61 ppbv
 RT: 18.78 min Scan# 5504
 Delta R.T. -0.00 min
 Lab File: VL032355.D
 Acq: 15 Aug 2018 15:15

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.8	43.9	65.9
134	21.6	17.3	25.9





#71

2-Chlorotoluene

Concen: 9.76 ppbv

RT: 15.69 min Scan# 4542

Delta R.T. -0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081518

Tot Ion: 91 Resp: 5147455

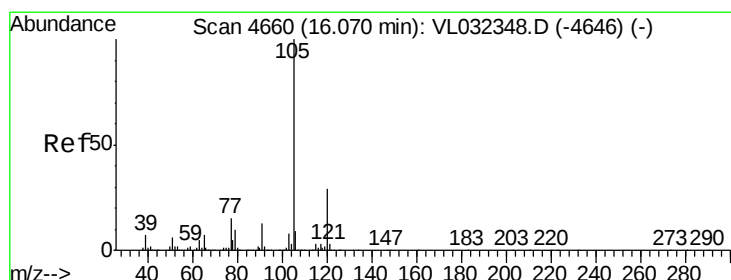
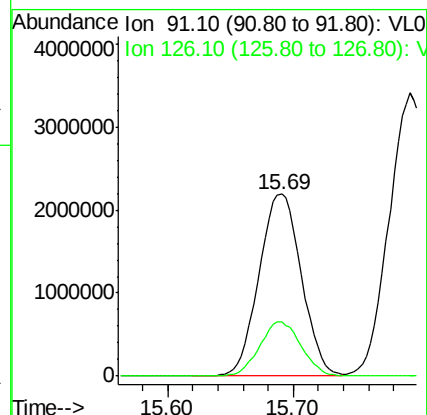
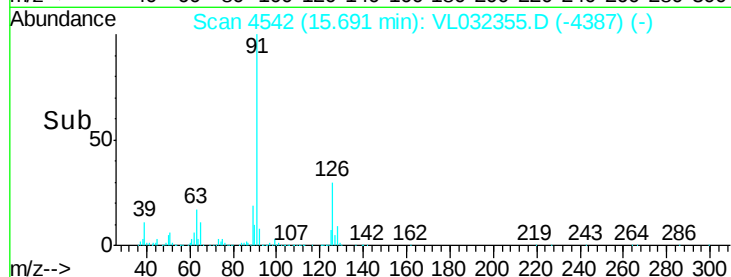
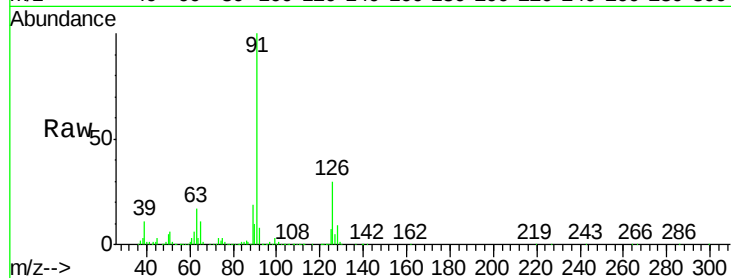
Ion Ratio Lower Upper

91 100

126 29.3 11.8 47.2

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#72

4-Ethyltoluene

Concen: 10.17 ppbv

RT: 16.07 min Scan# 4660

Delta R.T. -0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Tgt Ion:105 Resp: 5429999

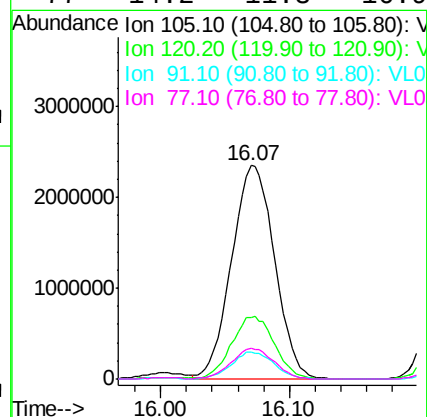
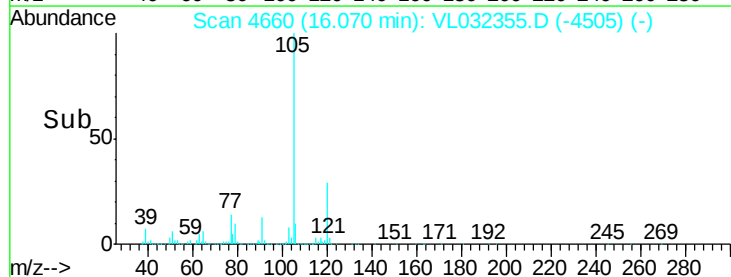
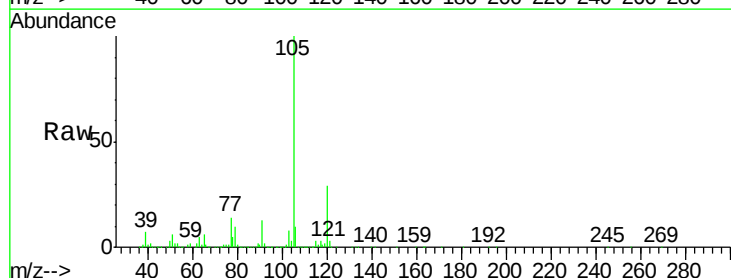
Ion Ratio Lower Upper

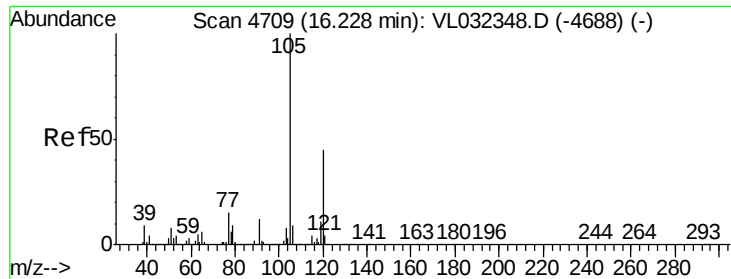
105 100

120 29.1 23.4 35.0

91 12.6 10.0 15.0

77 14.2 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 10.02 ppbv

RT: 16.23 min Scan# 4709

Delta R.T. -0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081518

Tot Ion:105 Resp: 5148405

Ion Ratio Lower Upper

105 100

120 46.9

36.3

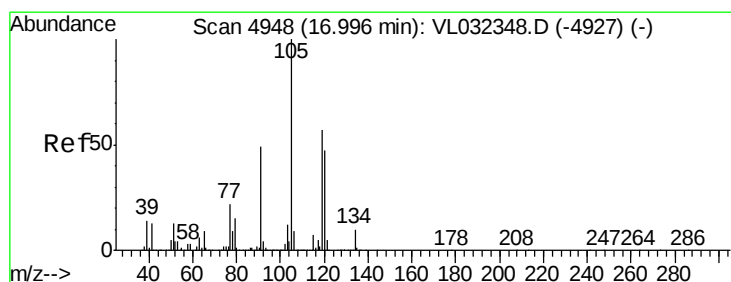
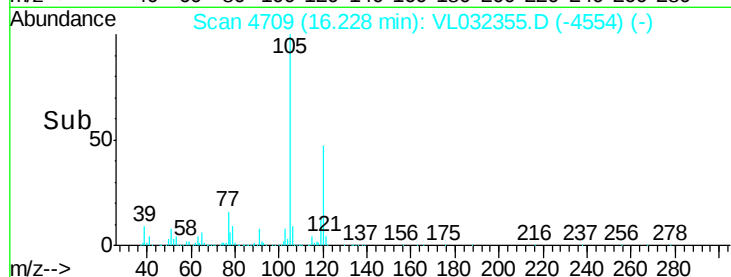
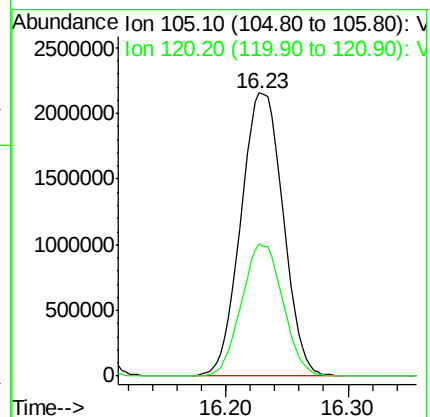
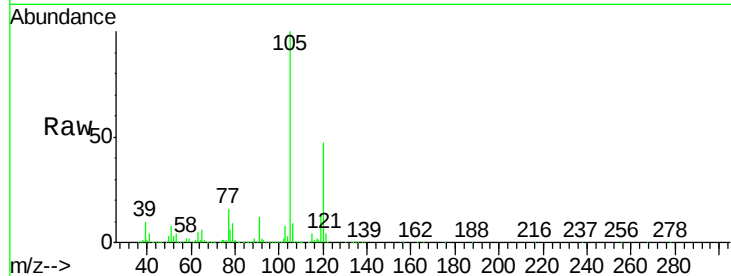
54.5

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#74

1,2,4-Trimethylbenzene

Concen: 9.23 ppbv

RT: 17.00 min Scan# 4948

Delta R.T. -0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Tgt Ion:105 Resp: 5041976

Ion Ratio Lower Upper

105 100

120 46.5

37.6

56.4

91 53.6

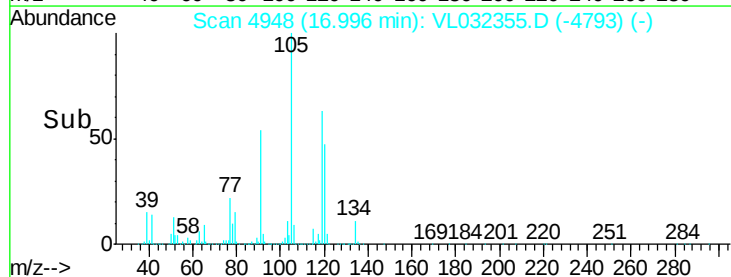
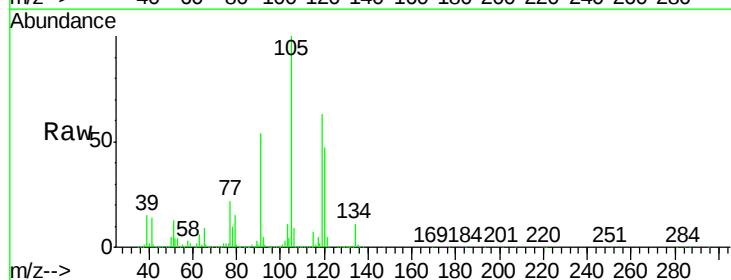
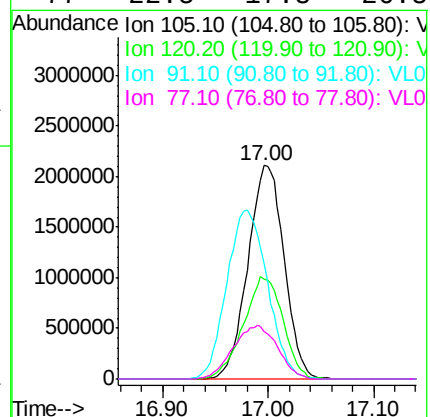
39.9

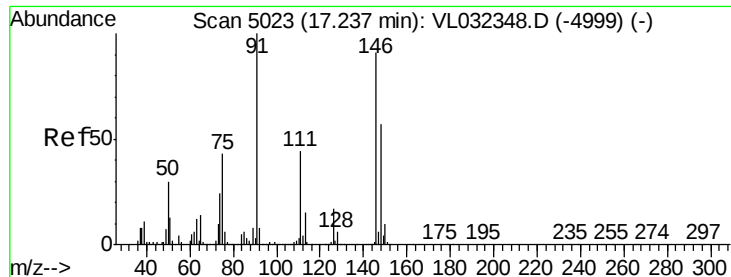
59.9

77 22.5

17.8

26.8





#75

1,3-Dichlorobenzene

Concen: 8.60 ppbv

RT: 17.24 min Scan# 5024

Delta R.T. 0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081518

Tot Ion:146 Resp: 2824354

Ion Ratio Lower Upper

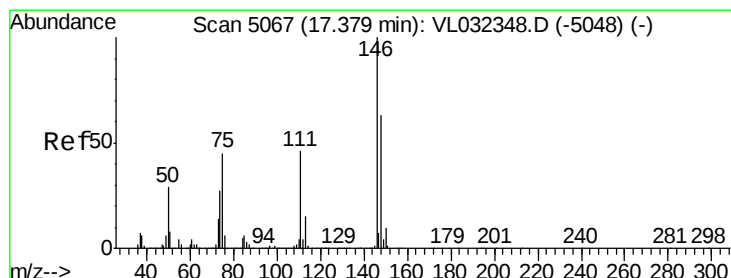
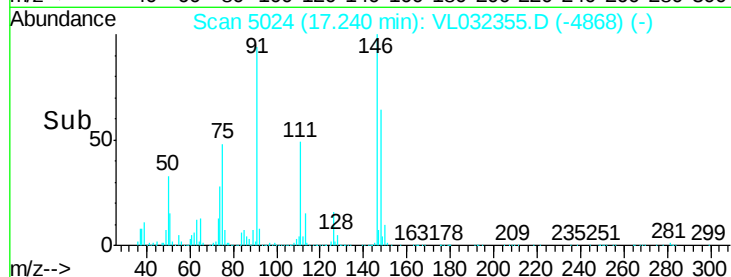
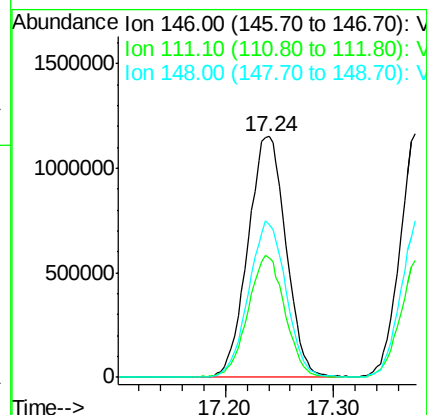
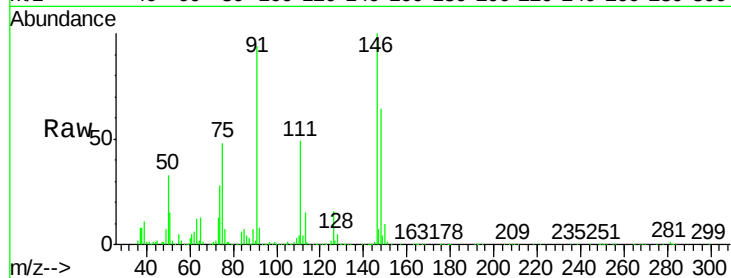
146 100

111 49.2 24.6 73.8

148 63.6 32.0 96.0

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#76

1,4-Dichlorobenzene

Concen: 9.28 ppbv

RT: 17.38 min Scan# 5067

Delta R.T. -0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

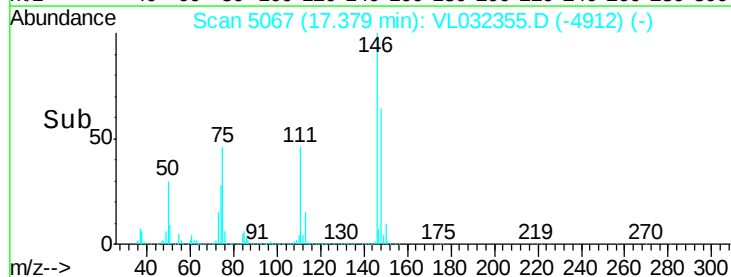
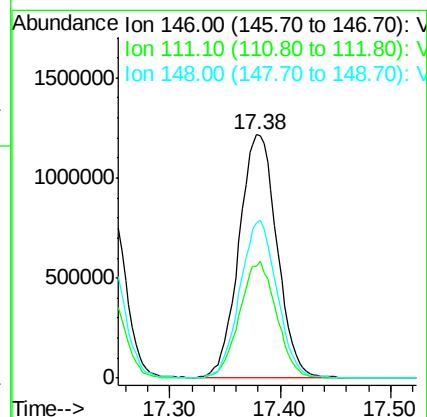
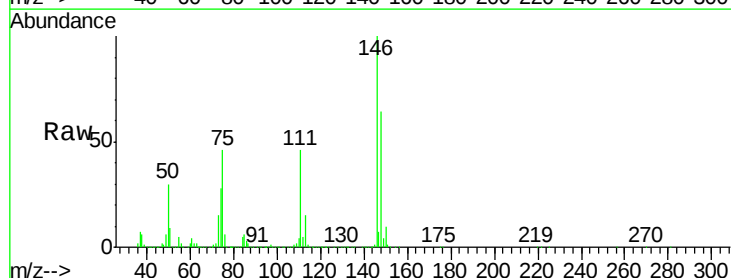
Tgt Ion:146 Resp: 2887950

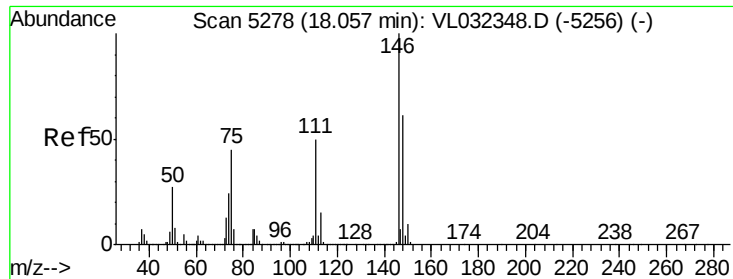
Ion Ratio Lower Upper

146 100

111 47.1 23.8 71.4

148 63.8 32.2 96.6





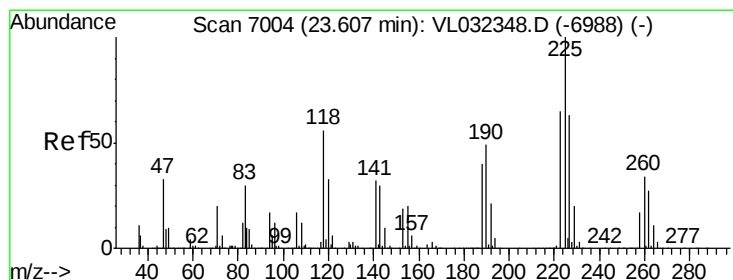
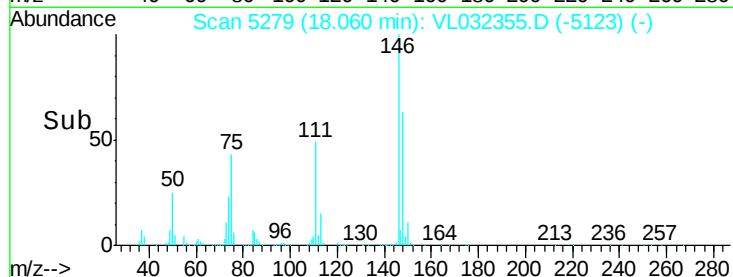
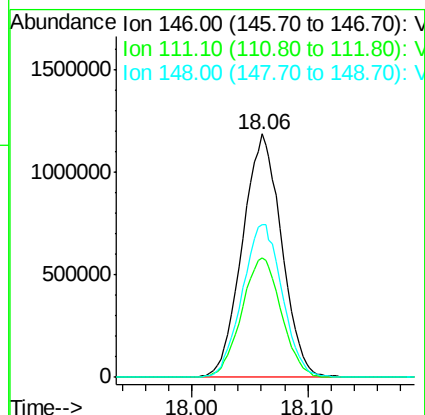
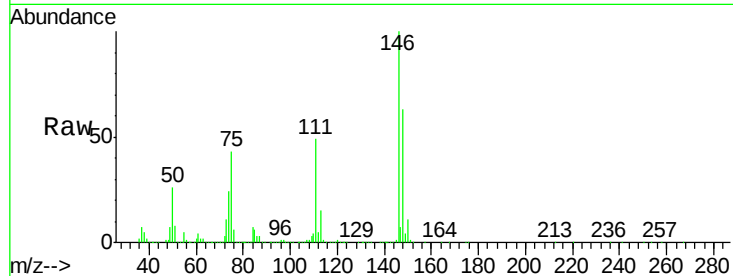
#77
 1,2-Dichlorobenzene
 Concen: 8.89 ppbv
 RT: 18.06 min Scan# 5279
 Delta R.T. 0.00 min
 Lab File: VL032355.D
 Acq: 15 Aug 2018 15:15

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081518

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.8	25.2	75.6
148	64.0	31.8	95.4

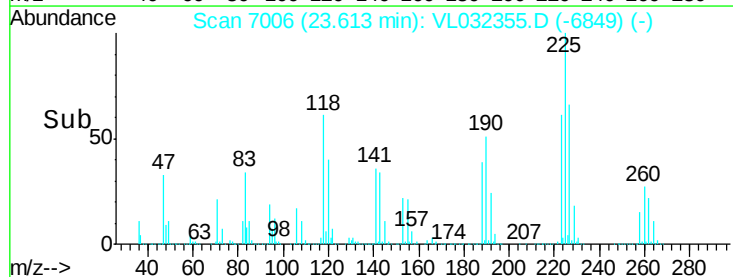
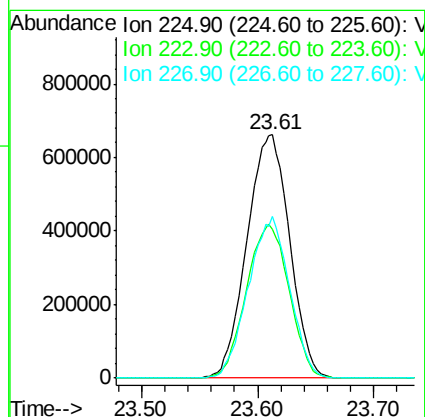
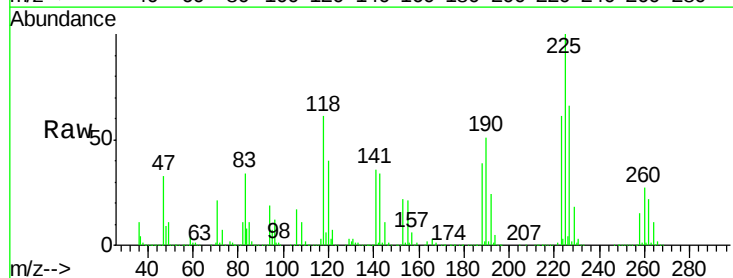
Manual Integrations
 APPROVED

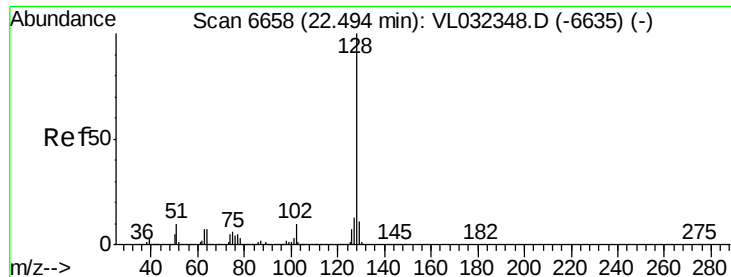
MMDadoda
 8/28/2018 2:52:34 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 16.11 ppbv
 RT: 23.61 min Scan# 7006
 Delta R.T. 0.01 min
 Lab File: VL032355.D
 Acq: 15 Aug 2018 15:15

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.6	76.0
227	63.9	51.0	76.6





#79

Naphthalene

Concen: 9.11 ppbv

RT: 22.49 min Scan# 6658

Delta R.T. 0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

Instrument :

MSVOA_L

ClientSampleId :

ICVVL081518

Tot Ion:128 Resp: 4641248

Ion Ratio Lower Upper

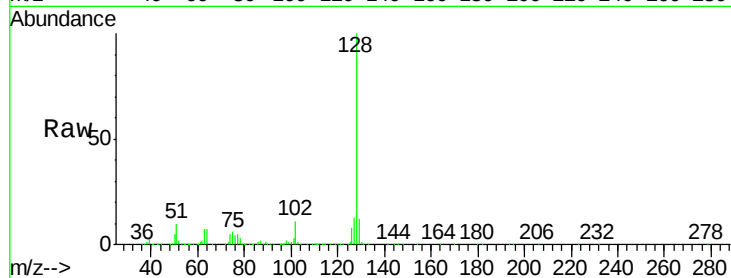
128 100

127 13.4 10.3 15.5

129 11.6 8.6 13.0

Manual Integrations
APPROVED

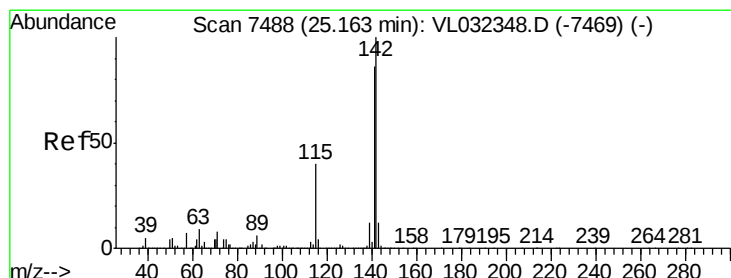
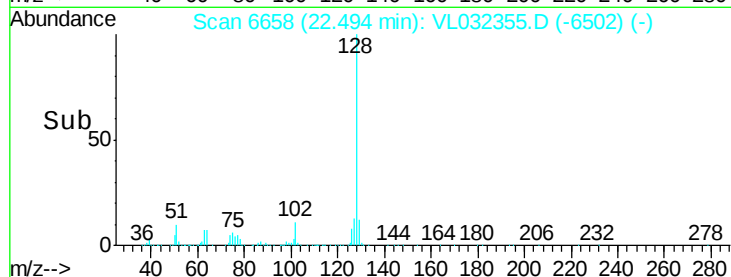
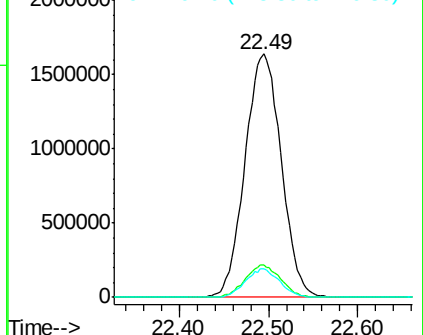
MMDadoda
8/28/2018 2:52:34 PM



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 16.51 ppbv

RT: 25.17 min Scan# 7489

Delta R.T. 0.00 min

Lab File: VL032355.D

Acq: 15 Aug 2018 15:15

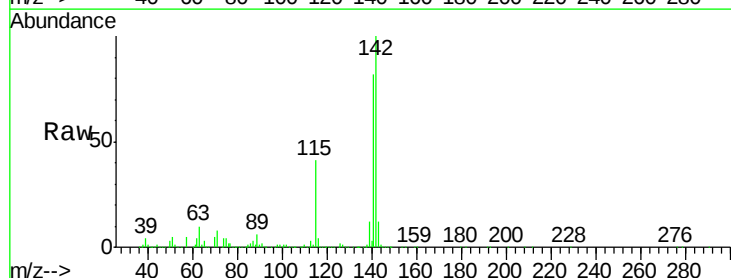
Tgt Ion:142 Resp: 1799950

Ion Ratio Lower Upper

142 100

141 83.7 66.7 100.1

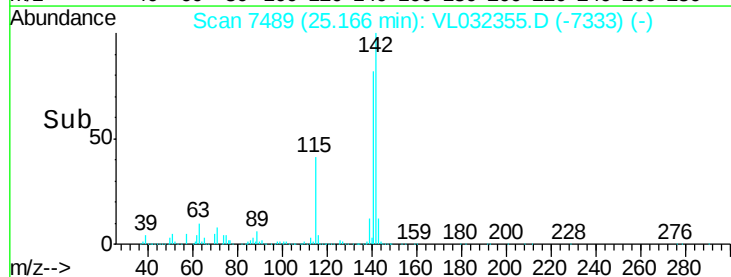
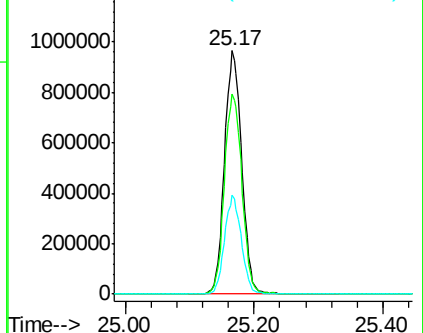
115 39.6 31.0 46.6

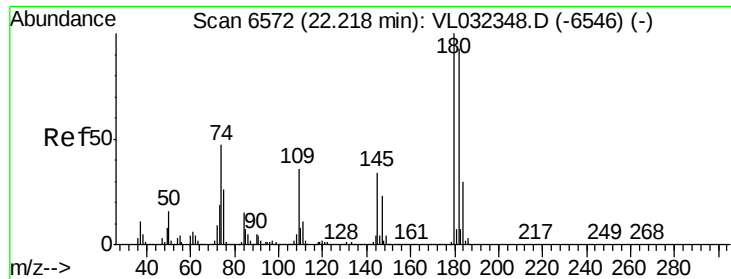


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 10.51 ppbv
 RT: 22.22 min Scan# 6572
 Delta R.T. -0.00 min
 Lab File: VL032355.D
 Acq: 15 Aug 2018 15:15

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081518

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.1	114.1
184	30.1	24.2	36.2

Manual Integrations
 APPROVED

MMDadoda
 8/28/2018 2:52:34 PM

