

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092320\
 Data File : VL035710.D
 Acq On : 23 Sep 2020 7:11
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 9/24/2020 1:35:24 PM

Quant Time: Sep 23 07:42:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 23 2020
 QLast Update : Wed Sep 23 05:25:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1231934	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4775455	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	5077833	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	3676910	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	2210727	10.370	ppbv	97
3) Chlorodifluoromethane	2.98	51	1765700	13.116	ppbv	99
4) Chloromethane	3.13	50	968905	13.438	ppbv	98
5) Vinyl Chloride	3.25	62	1156566	12.927	ppbv	96
6) Bromomethane	3.47	94	992778	13.345	ppbv	98
7) Chloroethane	3.56	64	430582	13.674	ppbv	99
8) Dichlorotetrafluoroethane	3.18	85	2928093	11.465	ppbv	100
9) Propene	3.01	41	706569	13.631	ppbv	100
10) Heptane	8.14	43	2051925	14.499	ppbv	99
11) Trichlorofluoromethane	3.95	101	3681433	11.984	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.49	101	2834144	12.249	ppbv	99
13) Ethanol	3.61	45	151714	11.797	ppbv	97
14) Bromoethene	3.74	108	1299806	13.139	ppbv	100
15) Acetone	3.85	43	1601217	11.975	ppbv	99
16) 1,3-Butadiene	3.32	39	733898	14.575	ppbv	99
17) tert-Butyl alcohol	4.30	59	1886103	11.713	ppbv	100
18) 1,1-Dichloroethene	4.29	96	1347655	13.238	ppbv	99
19) Isopropyl Alcohol	3.97	45	953307	12.111	ppbv	98
20) Methylene Chloride	4.35	84	1133872	11.260	ppbv	97
21) Allyl Chloride	4.41	41	961390	15.189	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	1414954	13.035	ppbv	99
23) Vinyl Acetate	5.08	43	2492748	14.463	ppbv	99
24) 1,1-Dichloroethane	5.02	63	2395556	13.421	ppbv	99
25) Ethyl Acetate	5.69	43	3277017	13.614	ppbv	99
26) Hexane	5.70	57	1854510	13.634	ppbv	99
27) Carbon Disulfide	4.55	76	2977309	15.339	ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	3117161	13.475	ppbv	99
29) Chloroform	5.76	83	3626478	13.194	ppbv	99
30) Cyclohexane	7.14	84	2064468	14.398	ppbv	98
31) cis-1,2-Dichloroethene	5.56	61	1988634	14.414	ppbv	99
32) 1,1,1-Trichloroethane	6.52	97	3562212	13.402	ppbv	99
34) 2-Butanone	5.25	43	2311532	15.908	ppbv	99
35) Carbon Tetrachloride	7.03	117	3678720	15.243	ppbv	99
36) Benzene	6.91	78	4562182	14.603	ppbv	98
37) 1,2-Dichloroethane	6.32	62	2290752	15.232	ppbv	99
38) Trichloroethene	7.85	130	2275886	12.687	ppbv	99
39) 1,2-Dichloropropane	7.63	63	1618022	15.230	ppbv	99
40) 1,4-Dioxane	7.84	88	724767	13.991	ppbv #	1
41) Tetrahydrofuran	6.06	42	1323902	17.206	ppbv	100
42) Bromodichloromethane	7.81	83	3844499	15.851	ppbv	98
43) Methyl Methacrylate	8.03	69	2019152	16.581	ppbv	99

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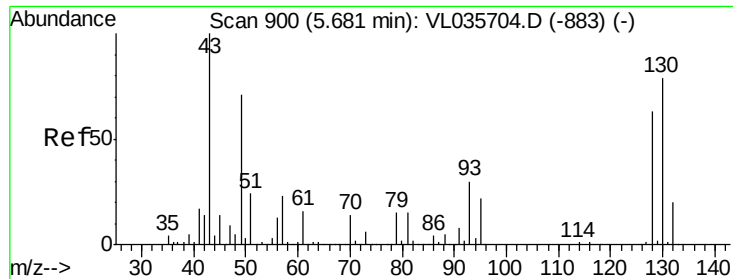
Manual Integrations
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Quant Time: Sep 23 07:42:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 23 2020
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	5990919	14.382	ppbv	98
45) t-1,3-Dichloropropene	9.30	75	2326500	18.920	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	2706282	17.715	ppbv	97
47) 1,1,2-Trichloroethane	9.50	97	2276575	14.635	ppbv	99
48) Dibromochloromethane	10.33	129	3828852	15.771	ppbv	99
49) Bromoform	13.07	173	3452748	15.968	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	3414290	16.173	ppbv	99
51) 2-Hexanone	10.15	43	2951725	17.092	ppbv #	98
52) Tetrachloroethene	11.25	164	2178165	12.245	ppbv	97
53) Toluene	9.83	91	5642523	14.412	ppbv	98
54) 1,2-Dibromoethane	10.64	107	3572808	14.593	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.15	131	2928771	14.041	ppbv	97
57) Chlorobenzene	12.18	112	4754528	12.553	ppbv	97
58) Ethyl Benzene	12.74	91	7258195	13.611	ppbv	95
59) m/p-Xylene	13.03	91	11751296m	26.202	ppbv	
60) o-Xylene	13.72	91	6147242	13.629	ppbv	98
61) Styrene	13.56	104	4997168	14.671	ppbv	98
62) Isopropylbenzene	14.70	105	8840584	12.308	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.71	83	4540881	13.008	ppbv	99
64) n-propylbenzene	15.59	120	2980879	13.706	ppbv	84
65) tert-Butylbenzene	16.78	119	8287798	12.466	ppbv	97
66) Benzyl Chloride	17.02	91	3632821	21.285	ppbv	98
67) sec-Butylbenzene	17.33	105	10647079	11.950	ppbv	95
69) p-Isopropyltoluene	17.69	119	9313448	12.025	ppbv	96
70) n-Butylbenzene	18.59	91	9339852	12.401	ppbv	95
71) 2-Chlorotoluene	15.48	91	7123294	13.561	ppbv	97
72) 4-Ethyltoluene	15.87	105	7549981	13.305	ppbv	97
73) 1,3,5-Trimethylbenzene	16.03	105	7060708	13.439	ppbv	97
74) 1,2,4-Trimethylbenzene	16.80	105	7194721	12.457	ppbv	92
75) 1,3-Dichlorobenzene	17.03	146	4953108	11.811	ppbv	99
76) 1,4-Dichlorobenzene	17.17	146	5030498	12.162	ppbv	98
77) 1,2-Dichlorobenzene	17.85	146	4912787	12.100	ppbv	98
78) Hexachloro-1,3-Butadiene	23.41	225	2815855	11.085	ppbv	100
79) Naphthalene	22.24	128	8051466	12.984	ppbv	96
80) Naphthalene, 2-methyl-	25.00	142	3084263	15.282	ppbv	99
81) 1,2,4-Trichlorobenzene	21.97	180	4156272	11.430	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1231934

Ion Ratio Lower Upper

49 100

128 85.8 43.1 129.4

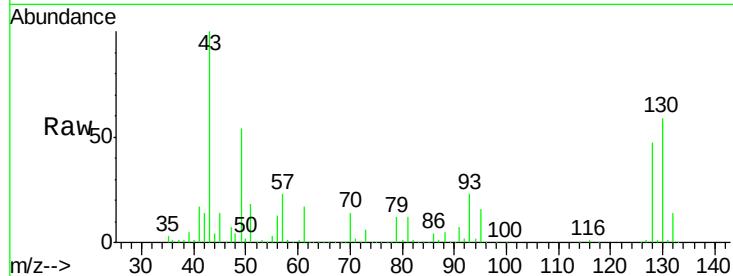
130 109.4 54.9 164.7

Manual Integrations

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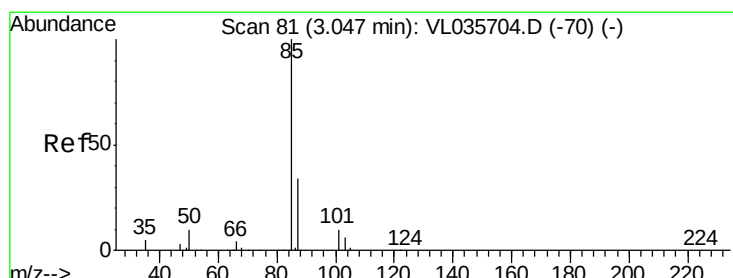
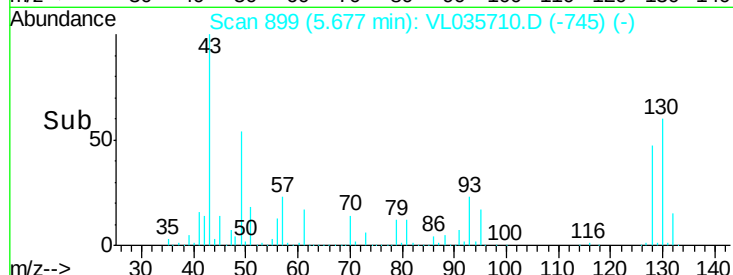
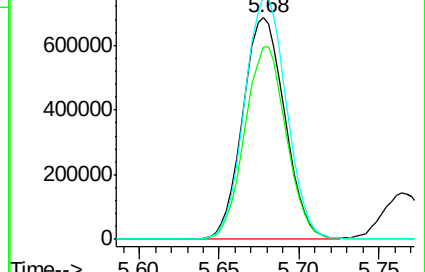
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 10.370 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL035710.D

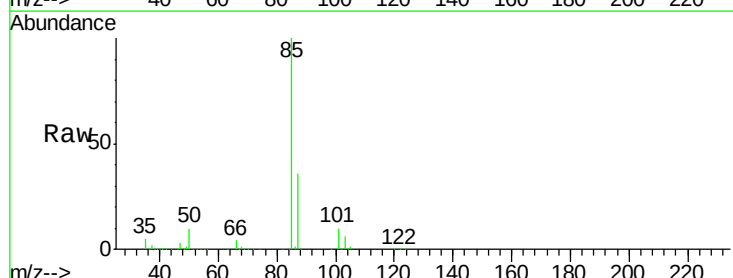
Acq: 23 Sep 2020 7:11

Tgt Ion: 85 Resp: 2210727

Ion Ratio Lower Upper

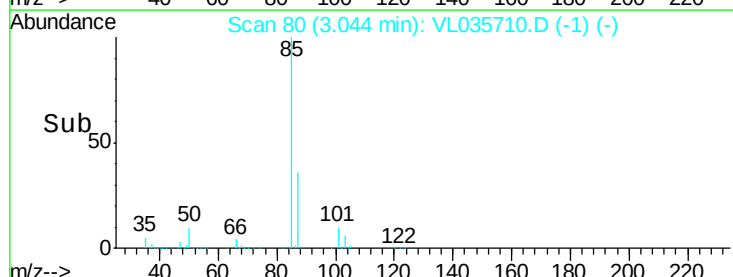
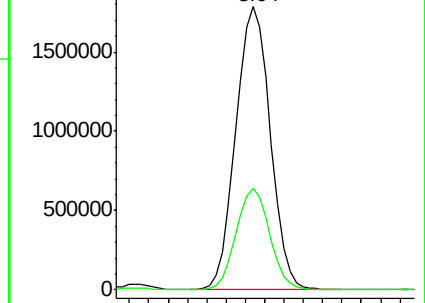
85 100

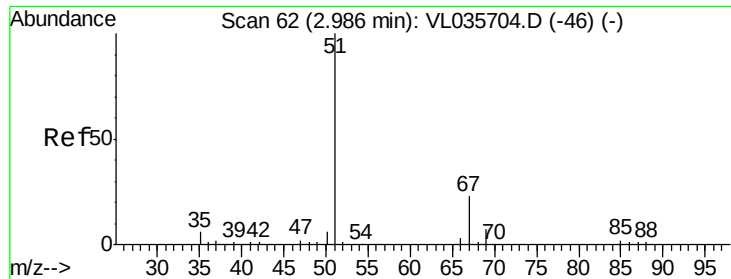
87 35.8 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 13.116 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Tot Ion: 51 Resp: 1765700

Ion Ratio Lower Upper

51 100

67 22.8 17.8 26.8

Instrument :

MSVOA_L

ClientSampleId :

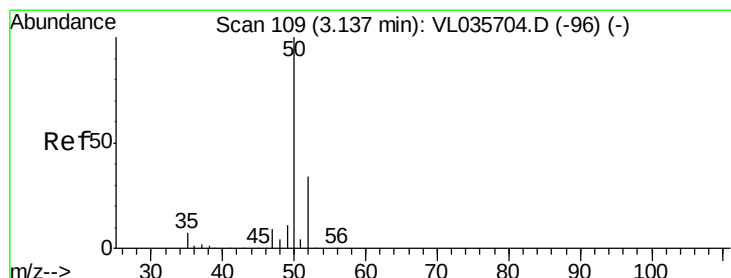
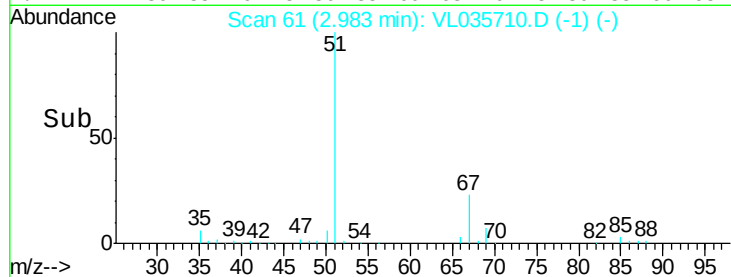
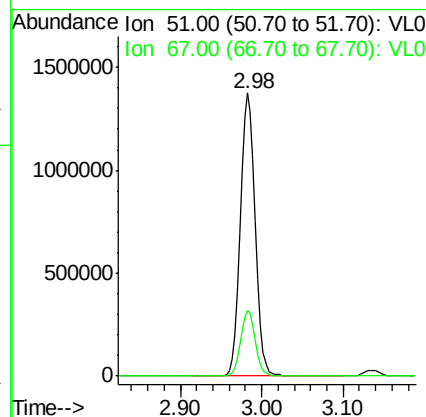
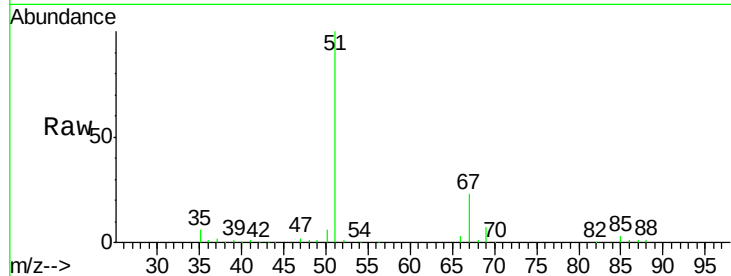
VSTDIC015

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#4

Chloromethane

Concen: 13.438 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL035710.D

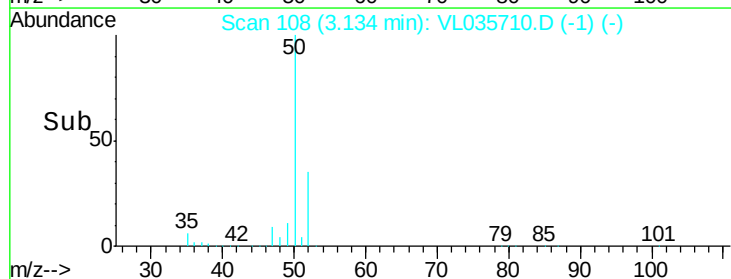
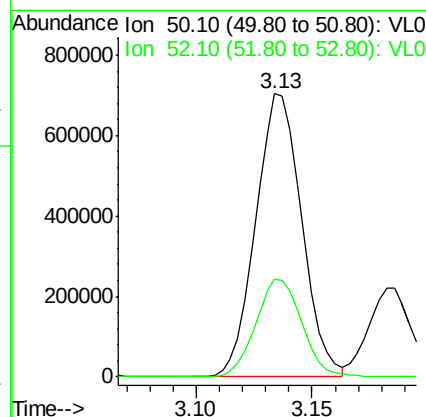
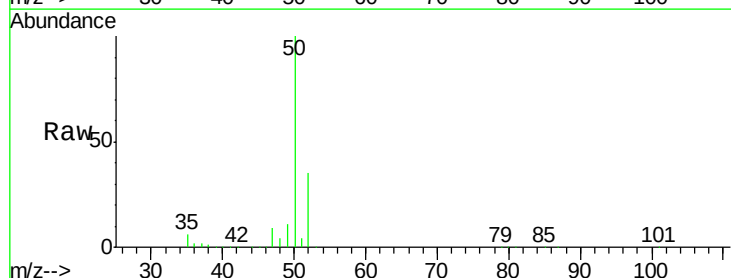
Acq: 23 Sep 2020 7:11

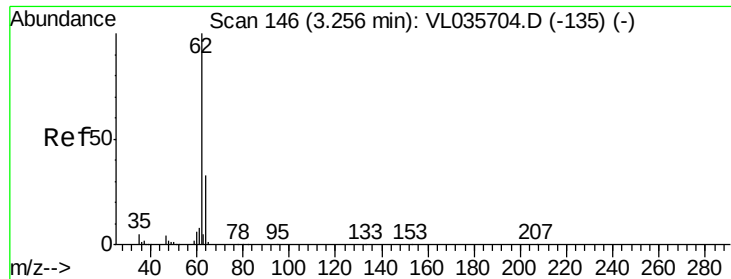
Tgt Ion: 50 Resp: 968905

Ion Ratio Lower Upper

50 100

52 34.6 26.8 40.2





#5

Vinyl Chloride

Concen: 12.927 ppbv

RT: 3.25 min Scan# 145

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1156566

Ion Ratio Lower Upper

62 100

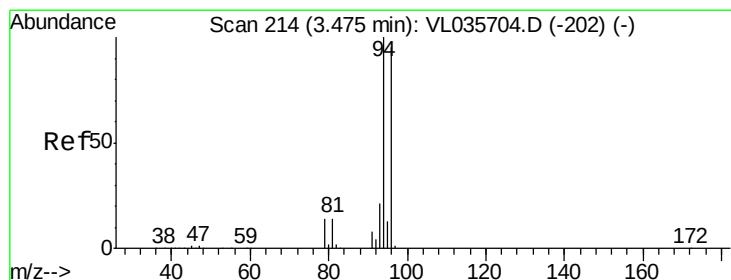
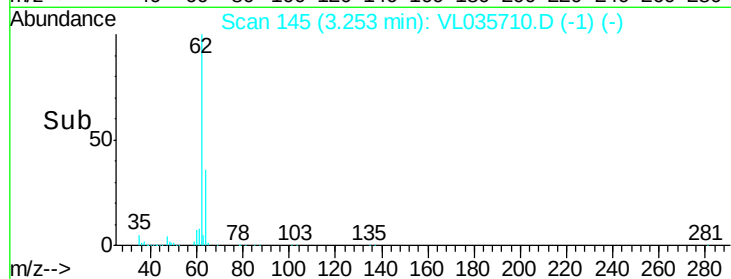
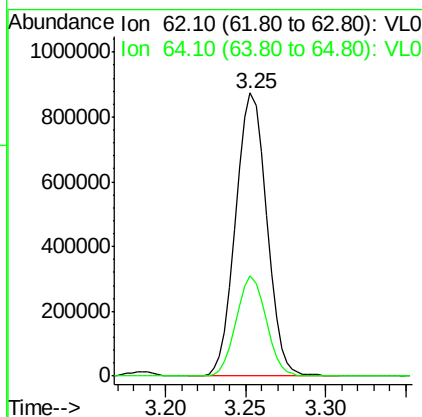
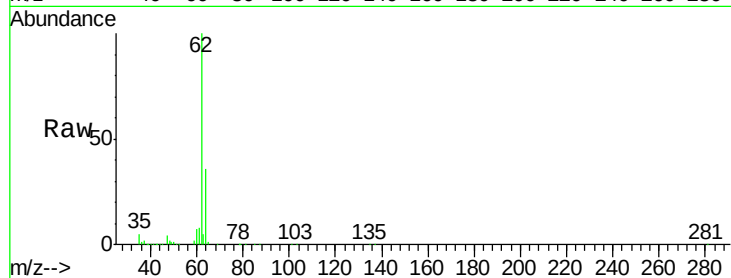
64 35.5 26.8 40.2

Manual Integrations

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#6

Bromomethane

Concen: 13.345 ppbv

RT: 3.47 min Scan# 213

Delta R.T. -0.00 min

Lab File: VL035710.D

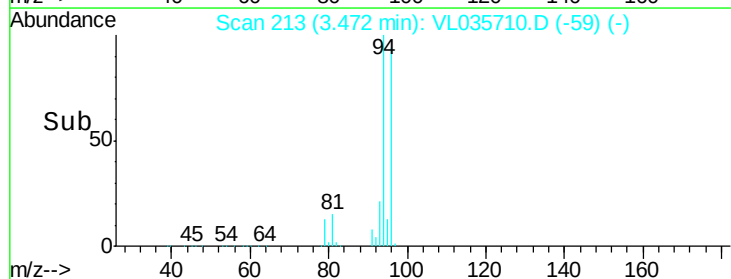
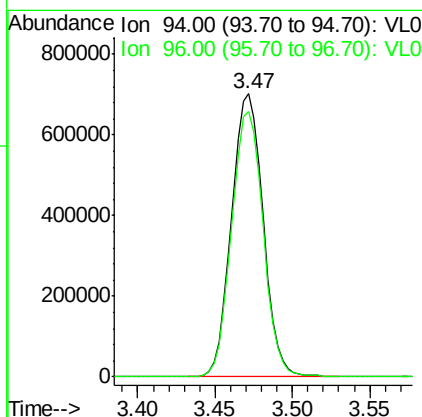
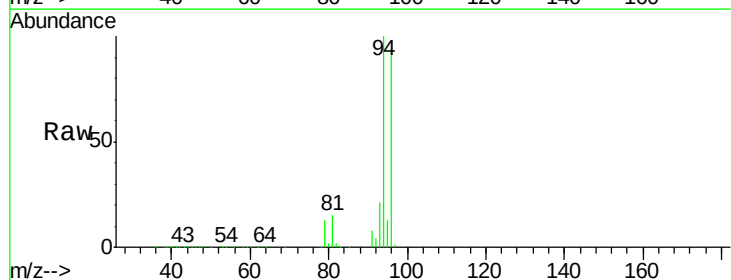
Acq: 23 Sep 2020 7:11

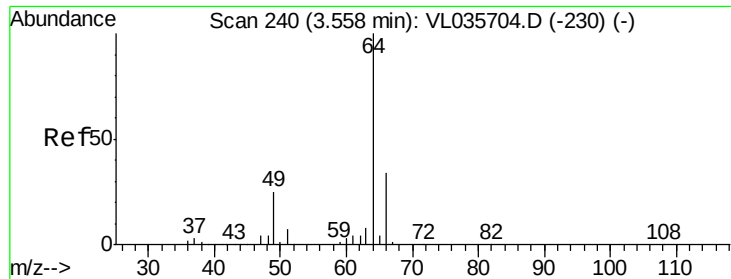
Tgt Ion: 94 Resp: 992778

Ion Ratio Lower Upper

94 100

96 93.9 76.3 114.5





#7

Chloroethane

Concen: 13.674 ppbv

RT: 3.56 min Scan# 239

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 430582

Ion Ratio Lower Upper

64 100

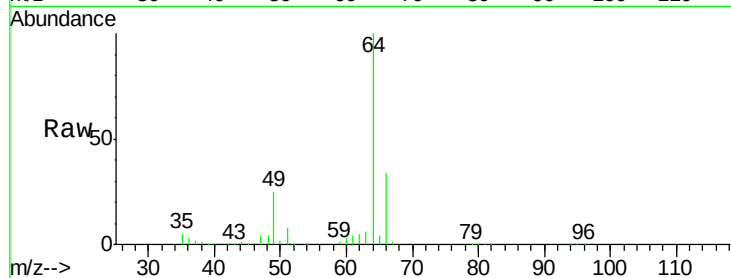
66 33.9 26.9 40.3

Manual Integrations

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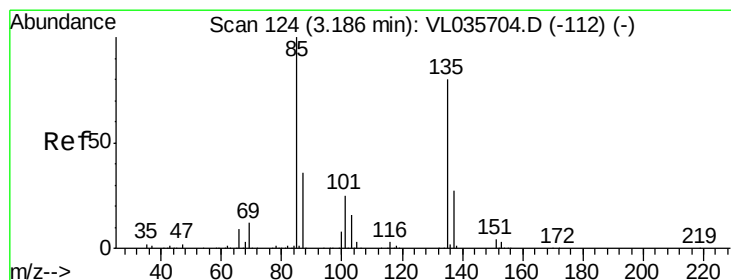
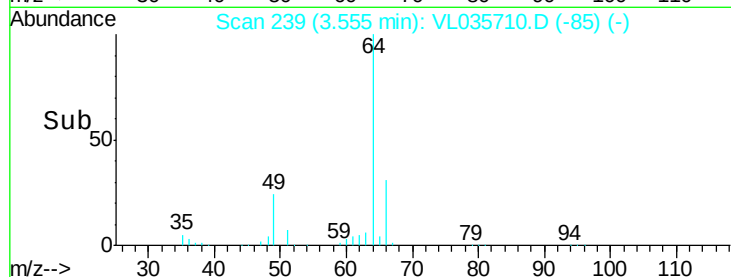
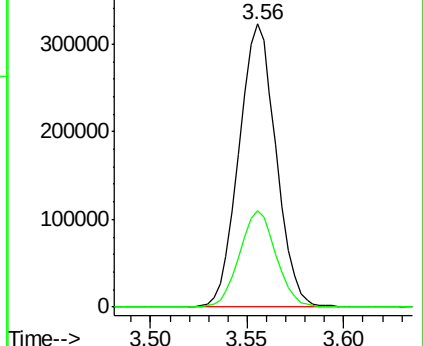
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 11.465 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.00 min

Lab File: VL035710.D

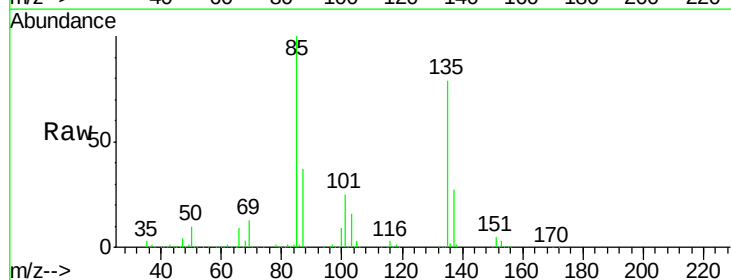
Acq: 23 Sep 2020 7:11

Tgt Ion: 85 Resp: 2928093

Ion Ratio Lower Upper

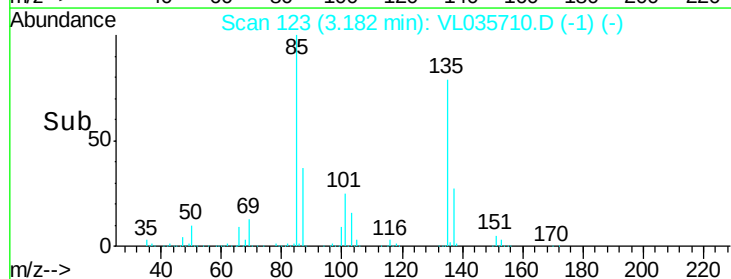
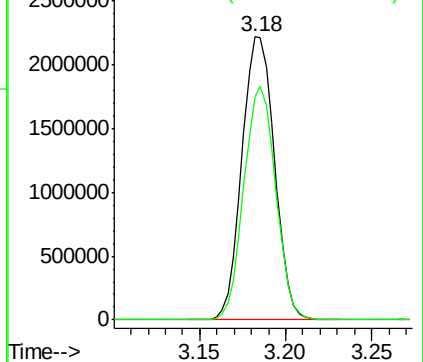
85 100

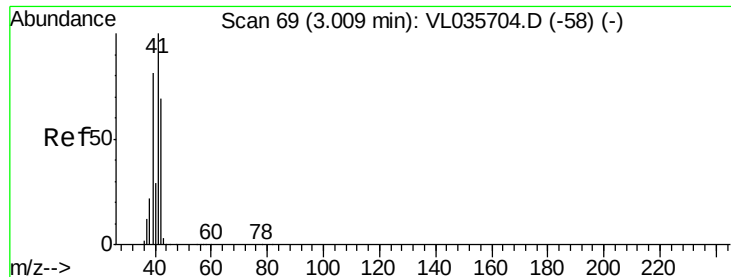
135 80.8 64.3 96.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0





#9

Propene

Concen: 13.631 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

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ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 706569

Ion Ratio Lower Upper

41 100

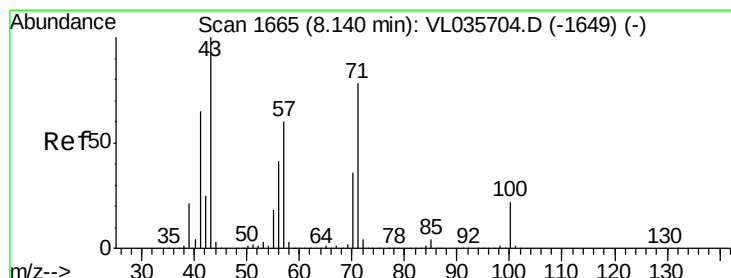
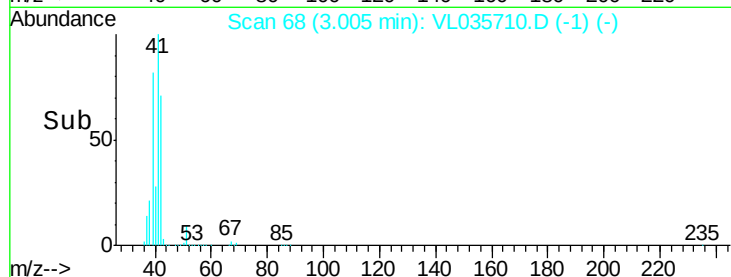
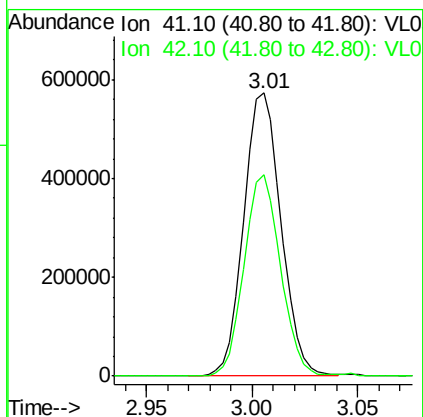
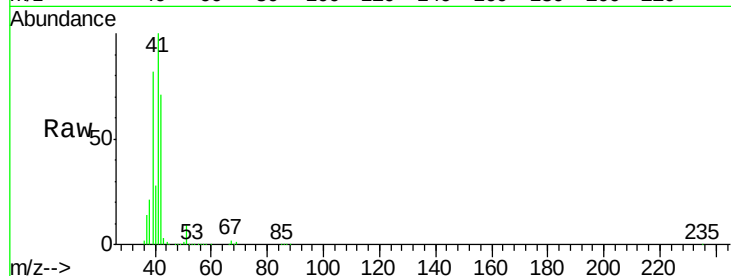
42 70.1 56.2 84.4

Manual Integrations

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#10

Heptane

Concen: 14.499 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. -0.00 min

Lab File: VL035710.D

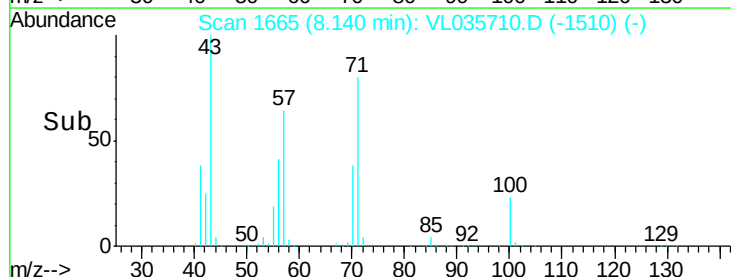
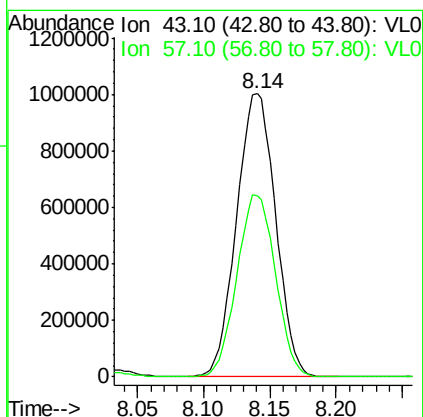
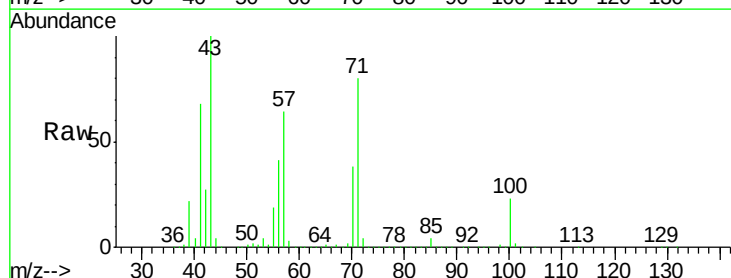
Acq: 23 Sep 2020 7:11

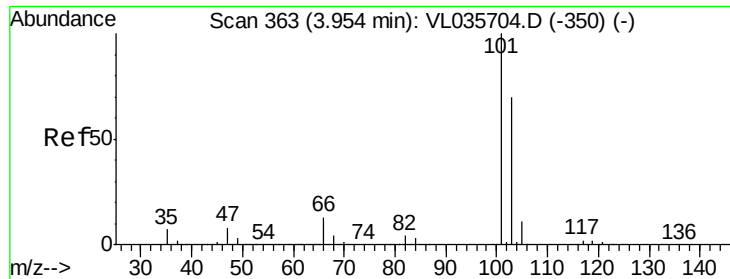
Tgt Ion: 43 Resp: 2051925

Ion Ratio Lower Upper

43 100

57 63.8 50.4 75.6





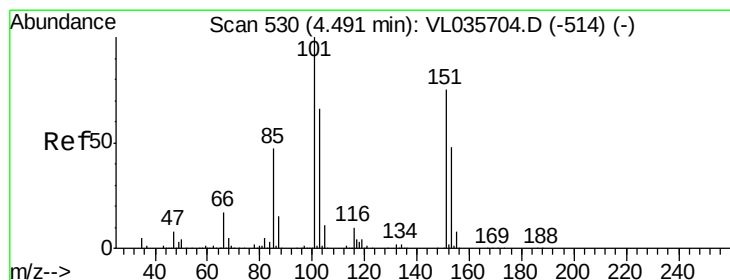
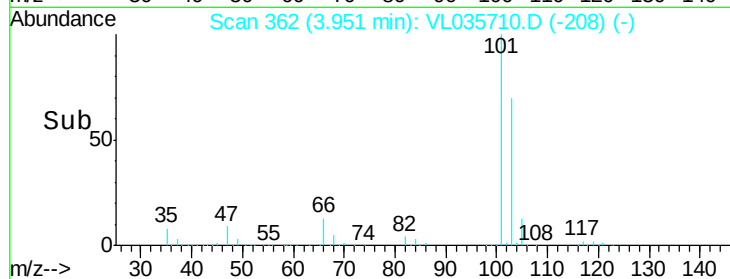
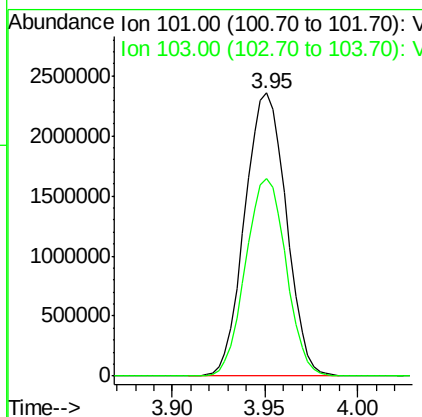
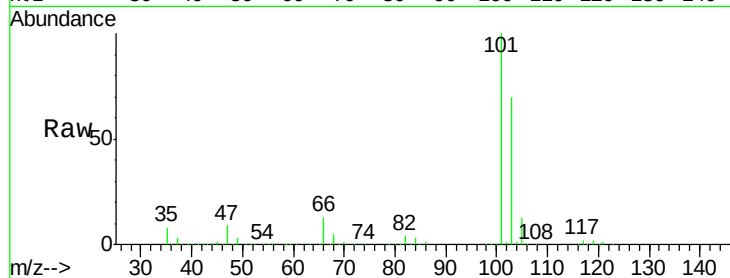
#11
 Trichlorofluoromethane
 Concen: 11.984 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 3681433
 Ion Ratio Lower Upper
 101 100
 103 69.9 55.6 83.4

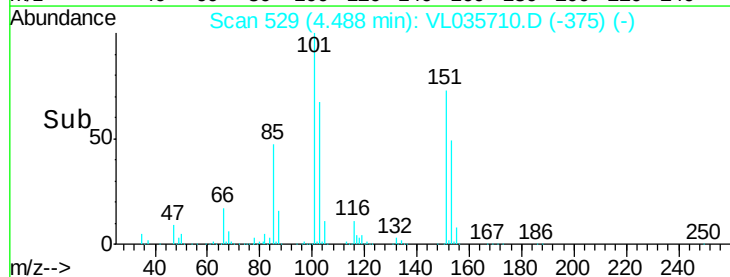
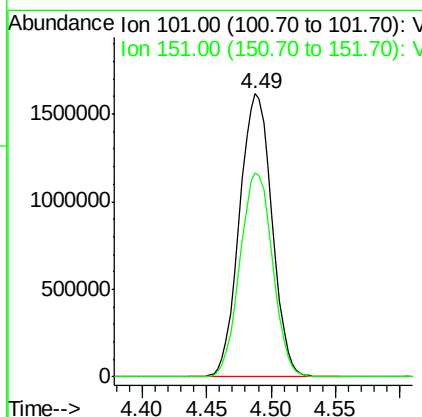
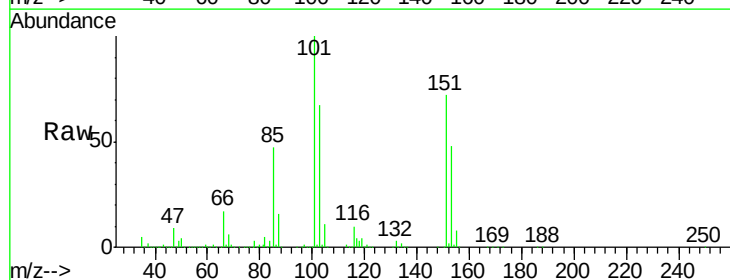
Manual Integrations
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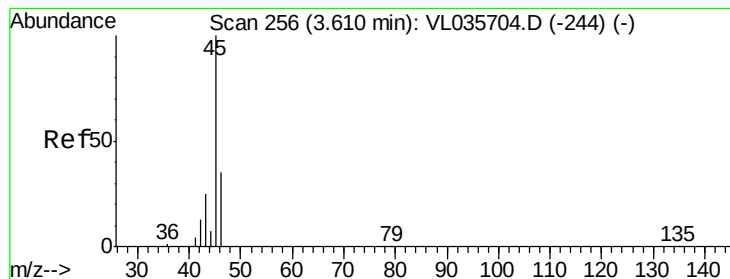
MMDadoda
 9/24/2020 1:35:24 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 12.249 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Tgt Ion:101 Resp: 2834144
 Ion Ratio Lower Upper
 101 100
 151 72.8 59.1 88.7





#13

Ethanol

Concen: 11.797 ppbv

RT: 3.61 min Scan# 256

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 151714

Ion Ratio Lower Upper

45 100

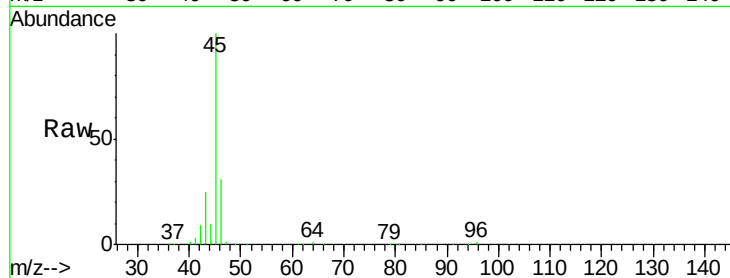
46 35.1 14.7 58.7

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.61

80000

60000

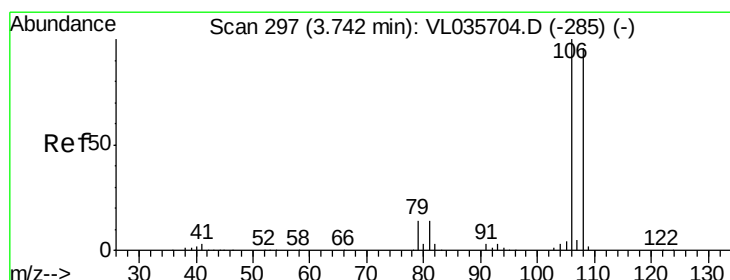
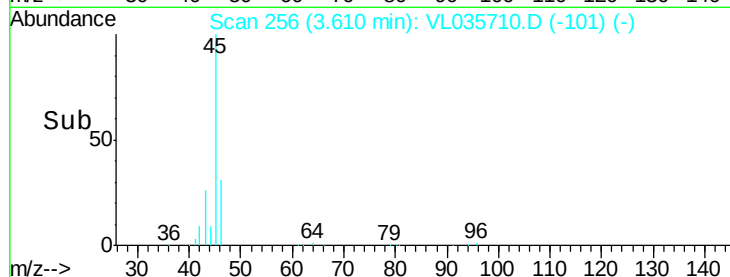
40000

20000

0

3.55 3.60 3.65 3.70

Time-->



#14

Bromoethene

Concen: 13.139 ppbv

RT: 3.74 min Scan# 296

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

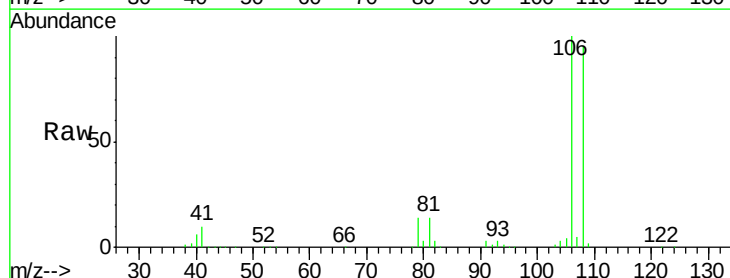
Tgt Ion: 108 Resp: 1299806

Ion Ratio Lower Upper

108 100

106 105.3 84.6 126.8

79 14.8 11.6 17.4



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0

3.74

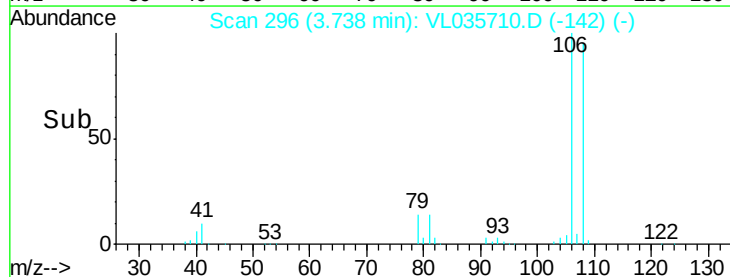
1000000

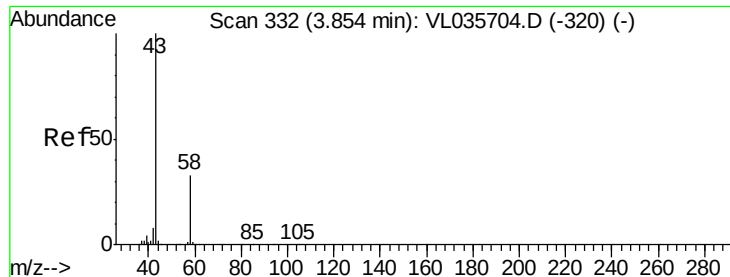
500000

0

3.70 3.75 3.80

Time-->





#15

Acetone

Concen: 11.975 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Tot Ion: 43 Resp: 1601217

Ion Ratio Lower Upper

43 100

58 34.9 27.3 40.9

Instrument :

MSVOA_L

ClientSampleId :

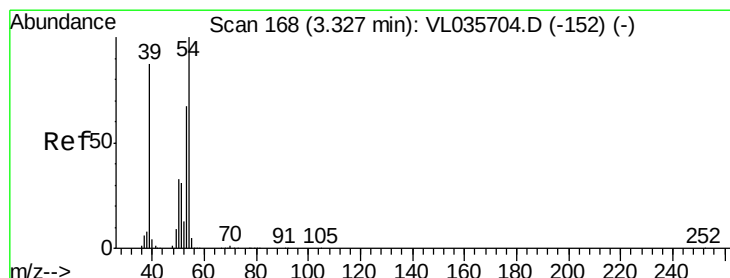
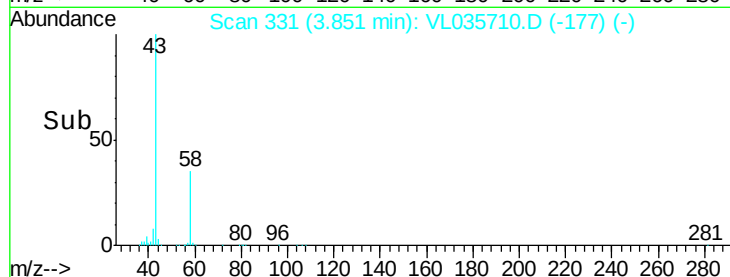
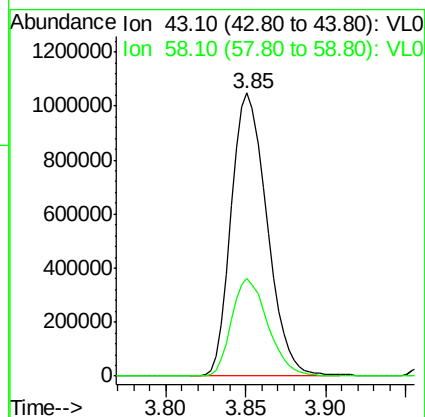
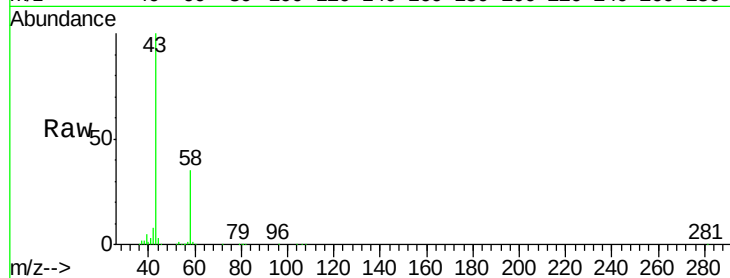
VSTDIC015

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#16

1,3-Butadiene

Concen: 14.575 ppbv

RT: 3.32 min Scan# 167

Delta R.T. -0.00 min

Lab File: VL035710.D

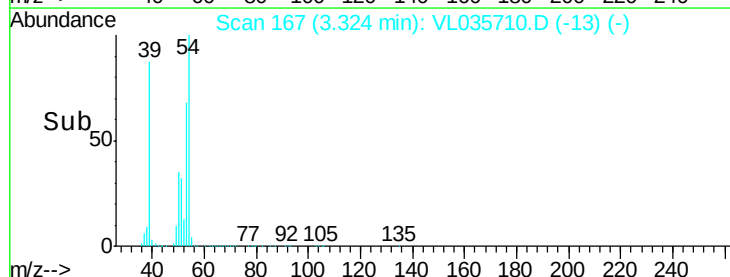
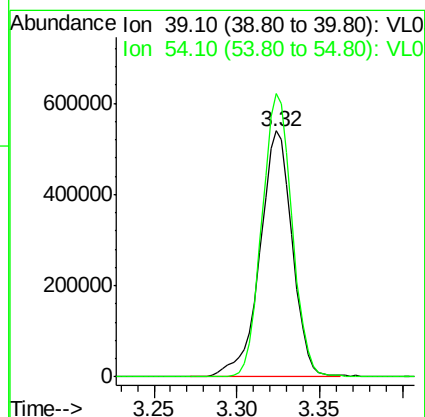
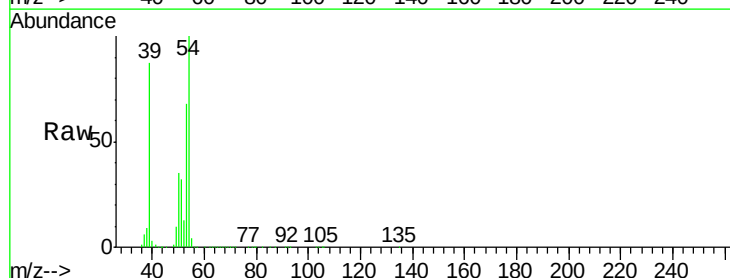
Acq: 23 Sep 2020 7:11

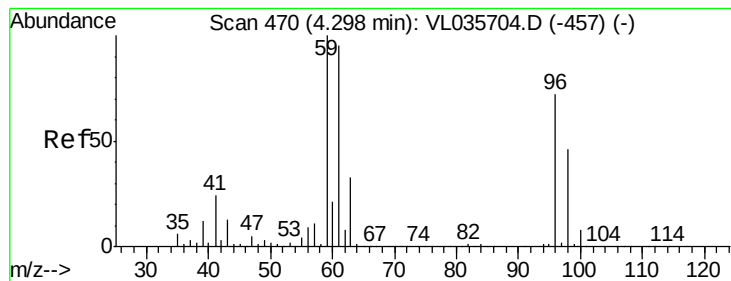
Tgt Ion: 39 Resp: 733898

Ion Ratio Lower Upper

39 100

54 107.9 87.4 131.0





#17

tert-Butyl alcohol

Concen: 11.713 ppbv

RT: 4.30 min Scan# 470

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 59 Resp: 1886103

Ion Ratio Lower Upper

59 100

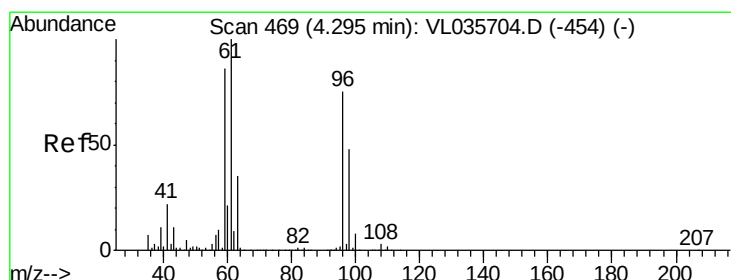
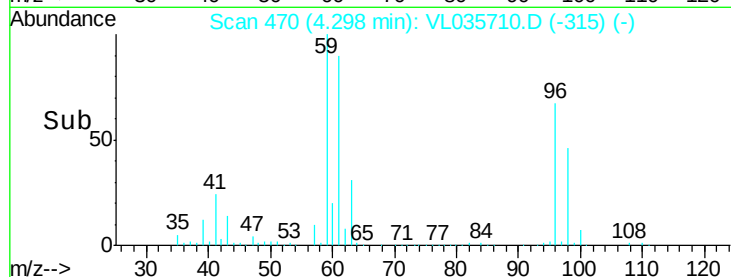
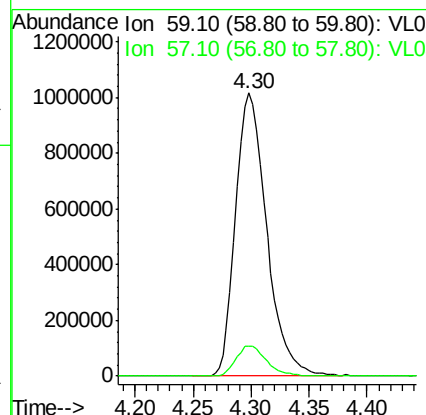
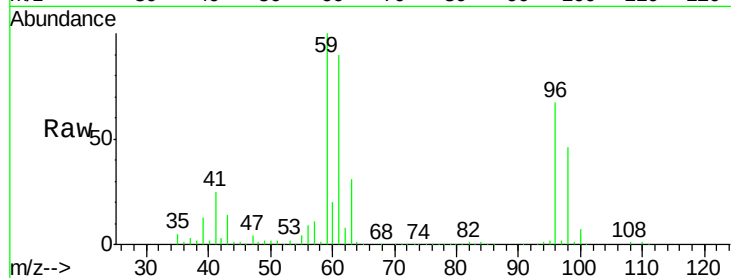
57 10.6 8.5 12.7

Manual Integrations

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#18

1,1-Dichloroethene

Concen: 13.238 ppbv

RT: 4.29 min Scan# 468

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

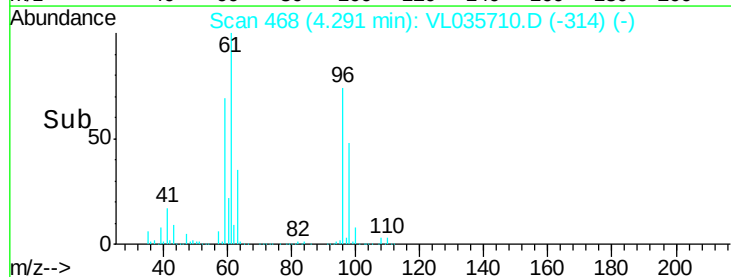
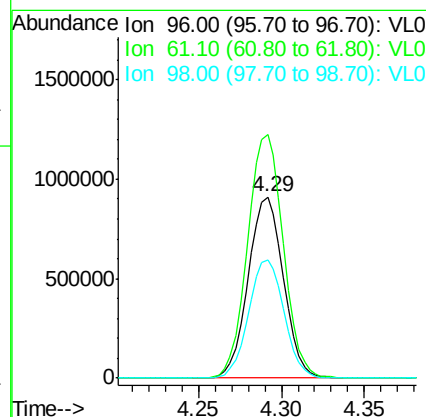
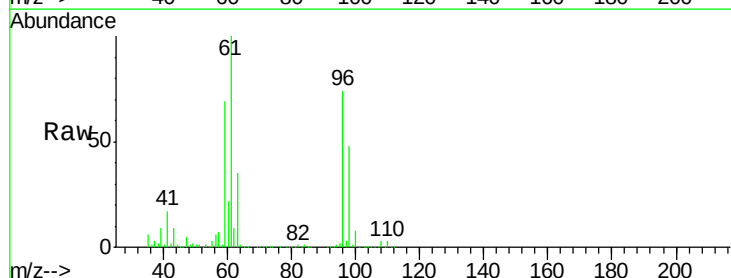
Tgt Ion: 96 Resp: 1347655

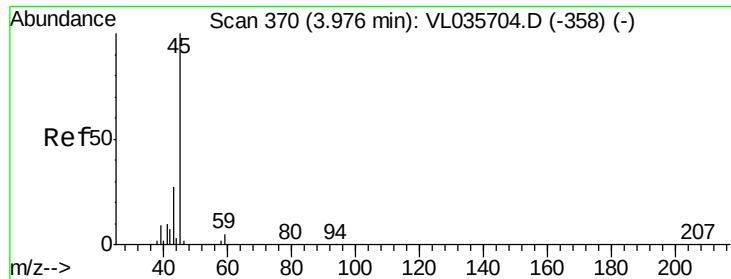
Ion Ratio Lower Upper

96 100

61 134.4 106.7 160.1

98 65.0 50.8 76.2





#19

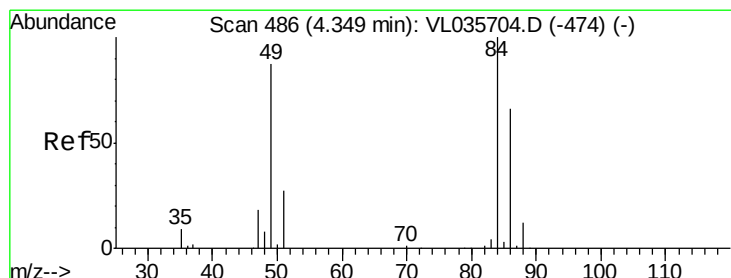
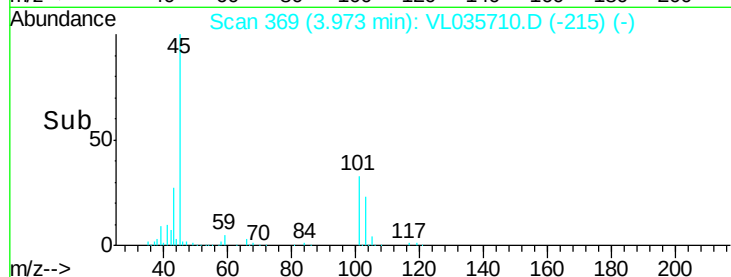
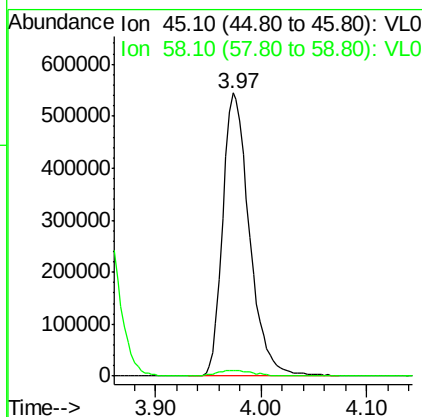
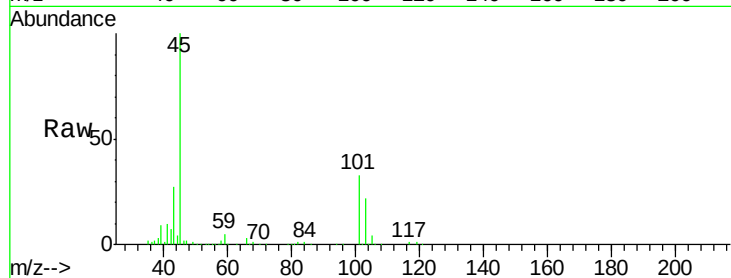
Isopropyl Alcohol
 Concen: 12.111 ppbv
 RT: 3.97 min Scan# 369
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.9	2.8	4.2

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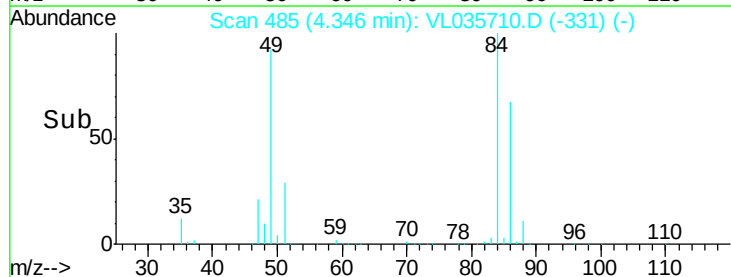
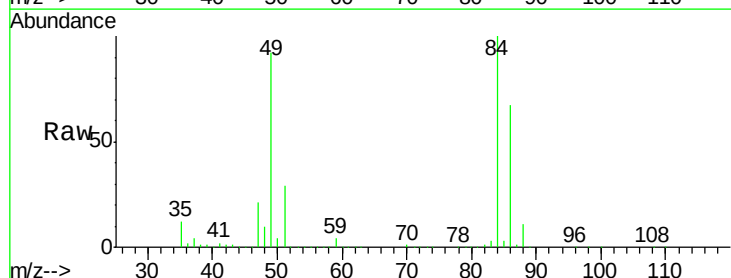
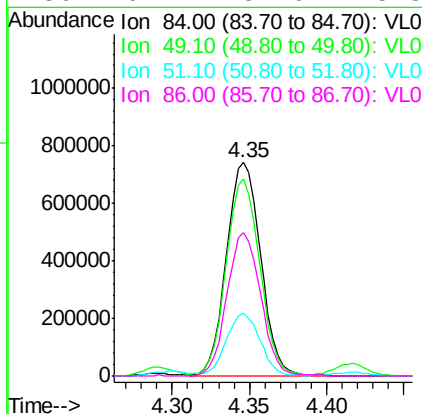
MMDadoda
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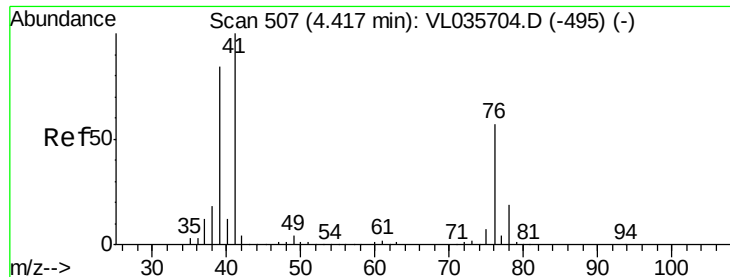


#20

Methylene Chloride
 Concen: 11.260 ppbv
 RT: 4.35 min Scan# 485
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Tgt Ion	Ratio	Lower	Upper
84	100		
49	91.8	69.8	104.6
51	28.2	21.8	32.8
86	67.1	52.6	78.8





#21

Allvl Chloride

Concen: 15.189 ppbv

RT: 4.41 min Scan# 506

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

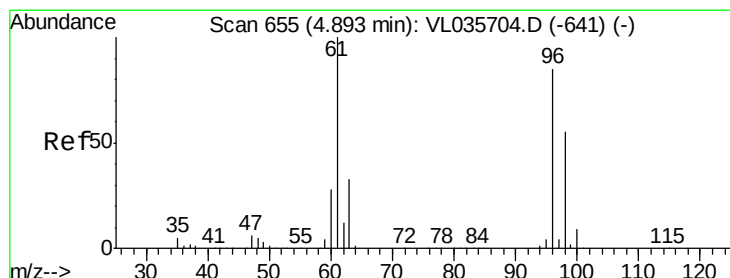
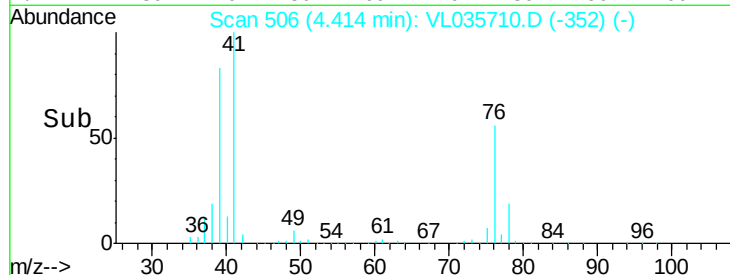
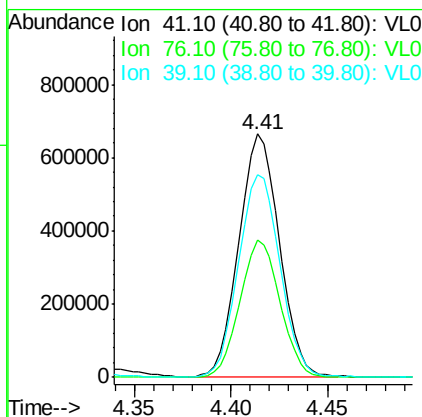
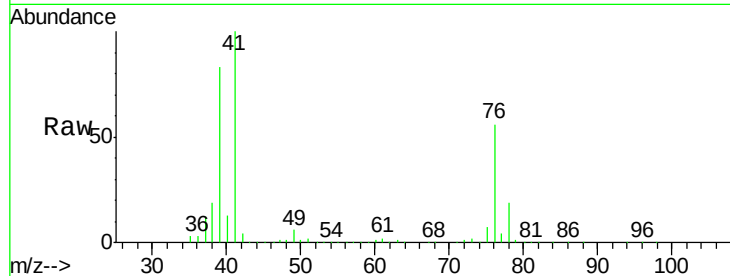
ClientSampleId :

VSTDIC015

Tot Ion:	41	Resp:	961390
Ion	Ratio	Lower	Upper
41	100		
76	56.4	44.8	67.2
39	86.7	68.4	102.6

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 13.035 ppbv

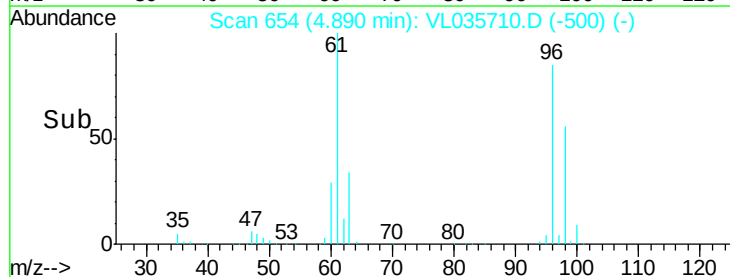
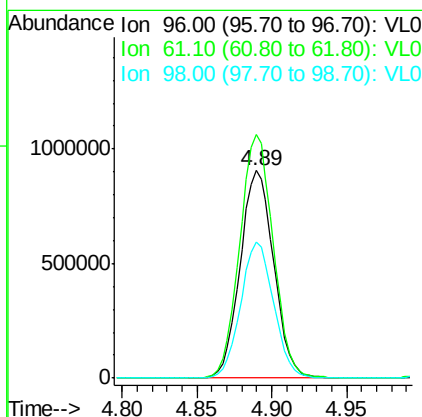
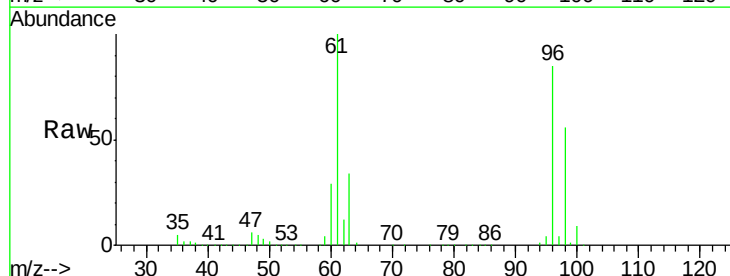
RT: 4.89 min Scan# 654

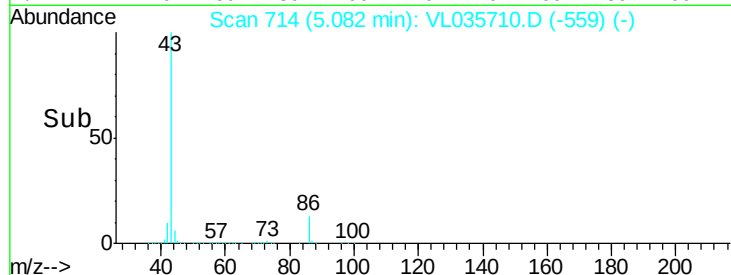
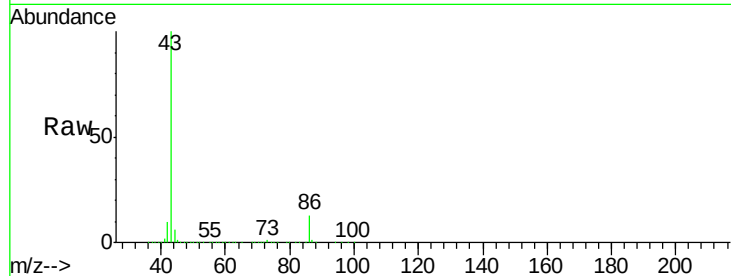
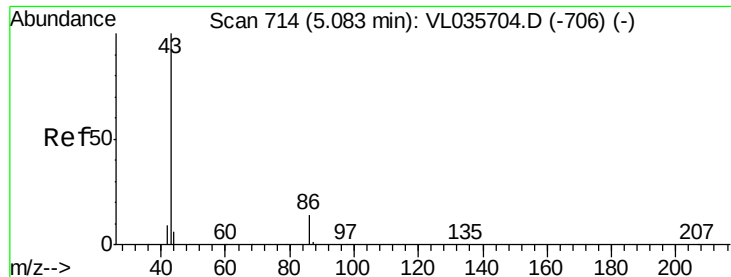
Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Tgt Ion:	96	Resp:	1414954
Ion	Ratio	Lower	Upper
96	100		
61	117.3	93.7	140.5
98	65.5	51.2	76.8





#23

Vinyl Acetate

Concen: 14.463 ppbv

RT: 5.08 min Scan# 714

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Tot Ion: 43 Resp: 2492748

Ion Ratio Lower Upper

43 100

86 12.9 9.7 14.5

42 10.1 7.9 11.9

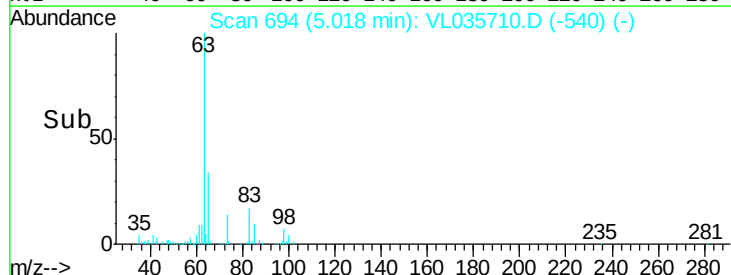
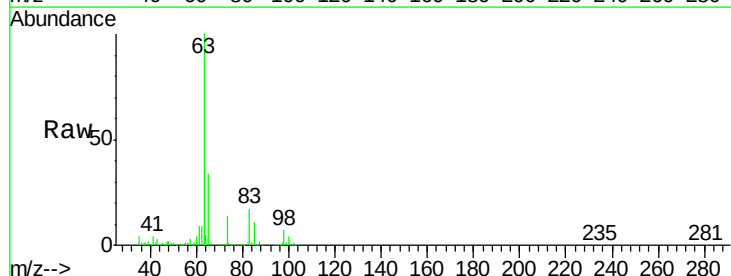
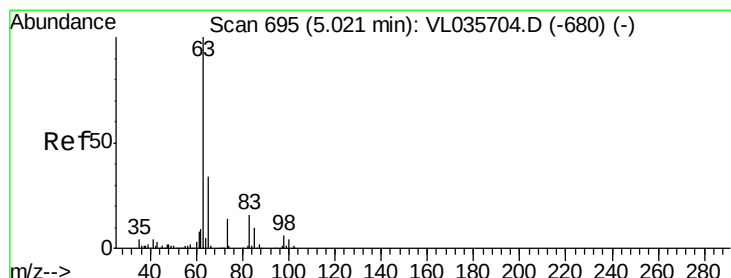
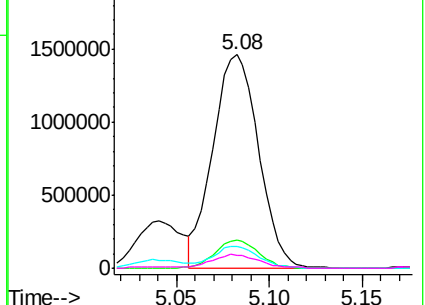
44 6.1 4.8 7.2

Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 13.421 ppbv

RT: 5.02 min Scan# 694

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Tgt Ion: 63 Resp: 2395556

Ion Ratio Lower Upper

63 100

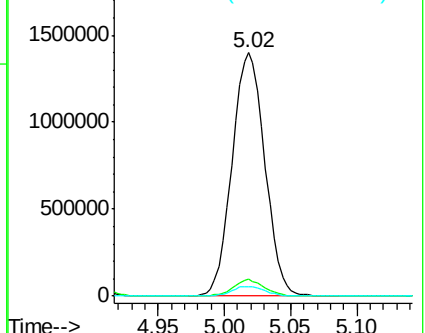
98 7.0 3.3 9.8

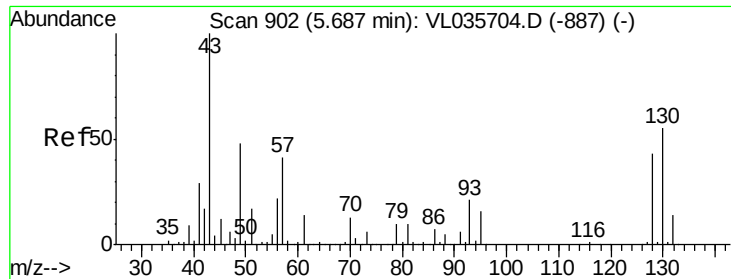
100 4.1 2.0 5.8

Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





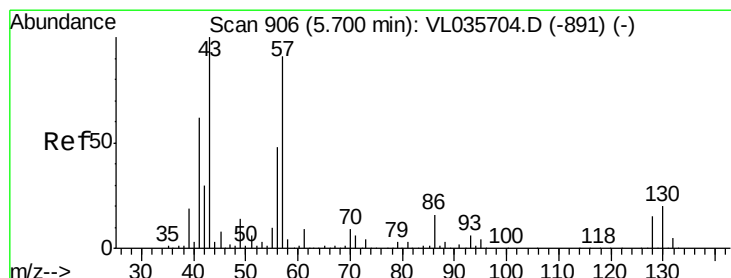
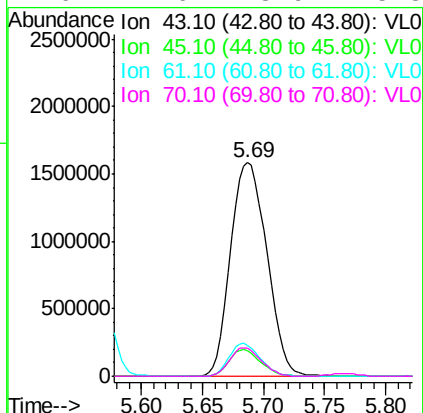
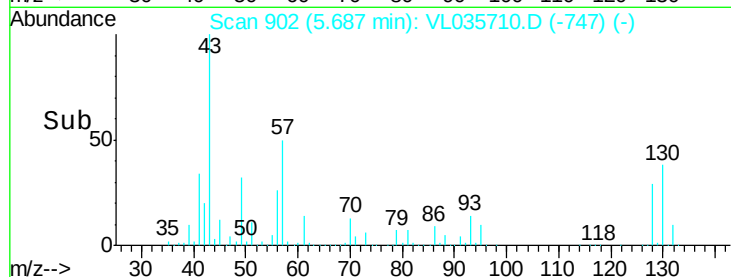
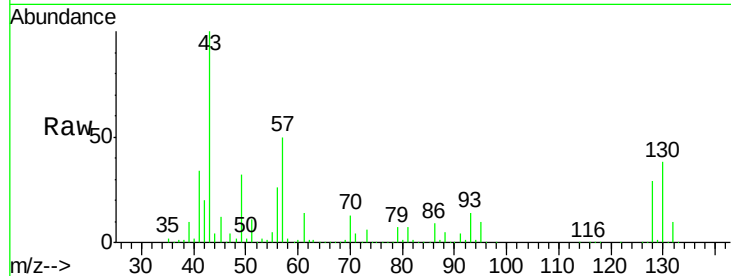
#25
Ethyl Acetate
Concen: 13.614 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	43	Resp	3277017
Ion	Ratio	Lower	Upper
43	100		
45	10.9	8.6	12.8
61	13.4	10.4	15.6
70	11.6	8.9	13.3

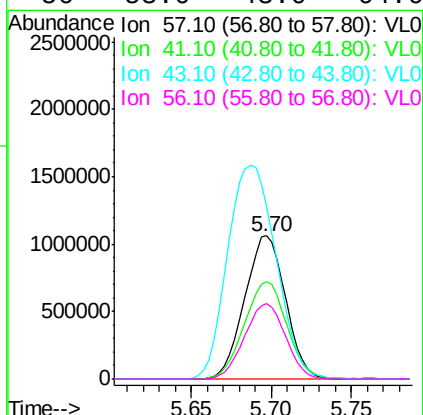
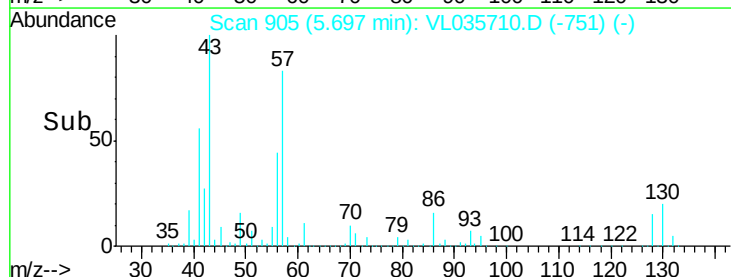
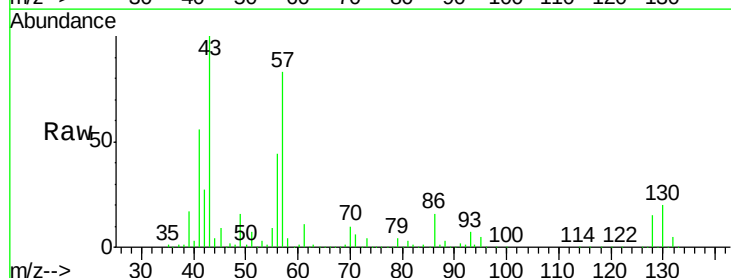
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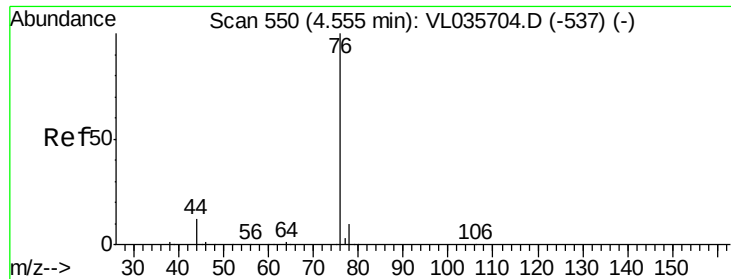
MMDadoda
9/24/2020 1:35:24 PM



#26
Hexane
Concen: 13.634 ppbv
RT: 5.70 min Scan# 905
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Tgt Ion	57	Resp	1854510
Ion	Ratio	Lower	Upper
57	100		
41	72.2	57.9	86.9
43	177.2	143.8	215.6
56	53.0	43.0	64.6





#27

Carbon Disulfide

Concen: 15.339 ppbv

RT: 4.55 min Scan# 549

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 2977309

Ion Ratio Lower Upper

76 100

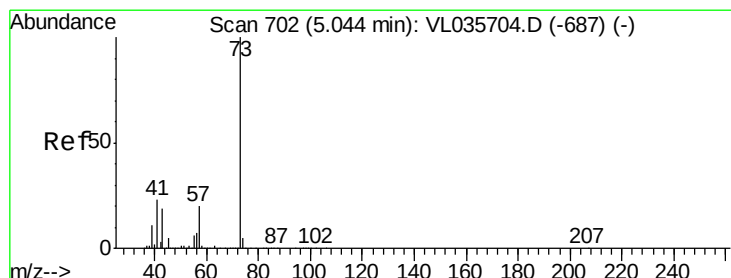
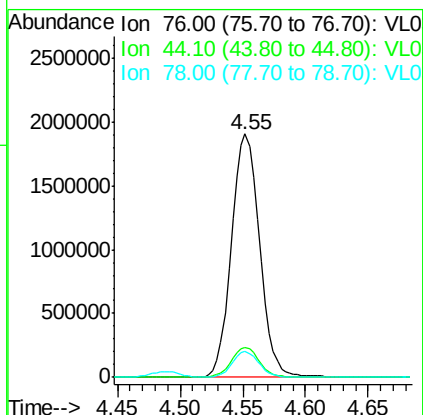
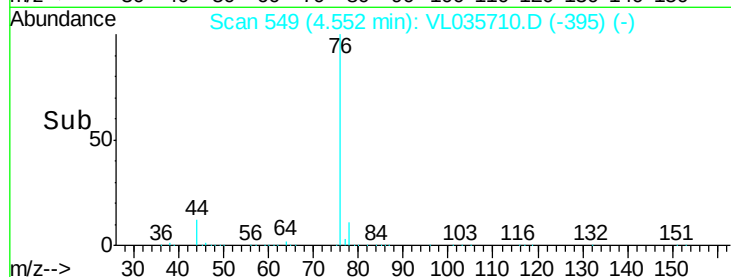
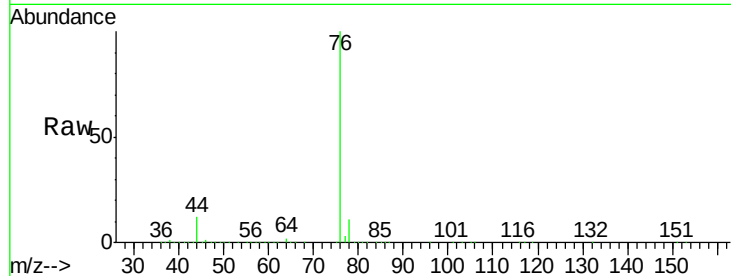
44 12.3 9.7 14.5

78 10.1 7.8 11.8

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 13.475 ppbv

RT: 5.04 min Scan# 701

Delta R.T. -0.00 min

Lab File: VL035710.D

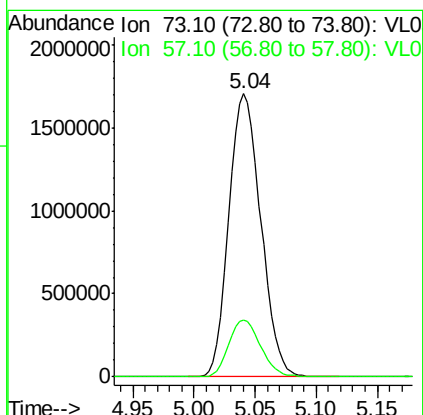
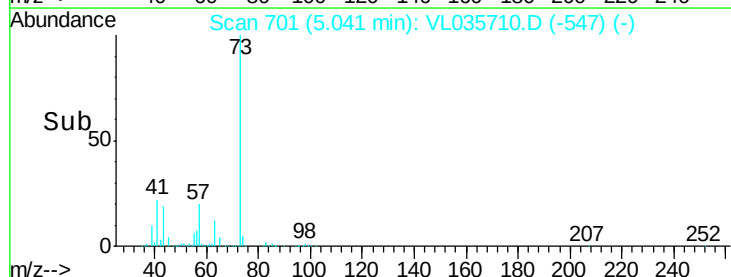
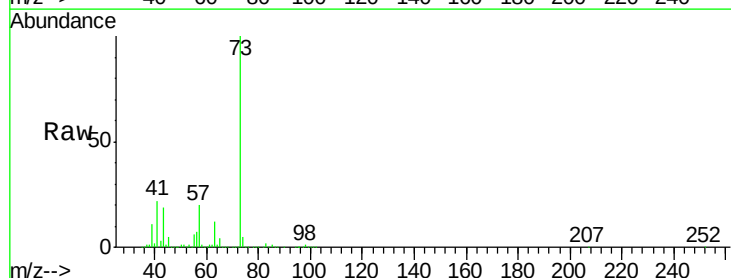
Acq: 23 Sep 2020 7:11

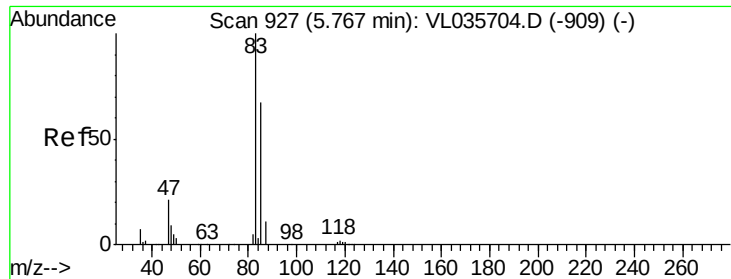
Tgt Ion: 73 Resp: 3117161

Ion Ratio Lower Upper

73 100

57 20.1 15.6 23.4





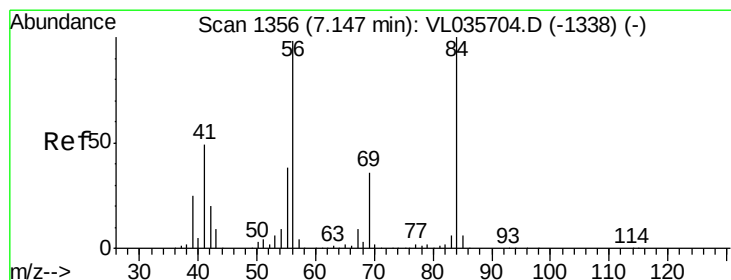
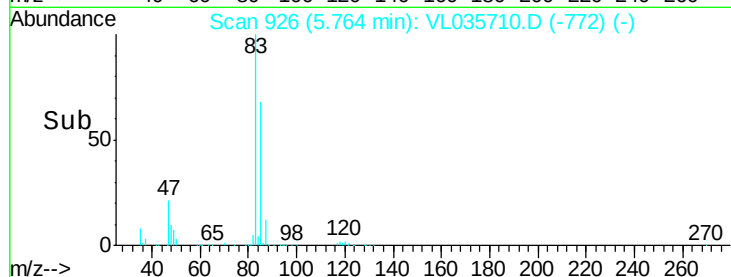
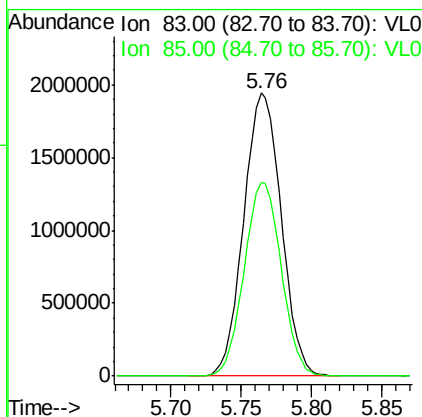
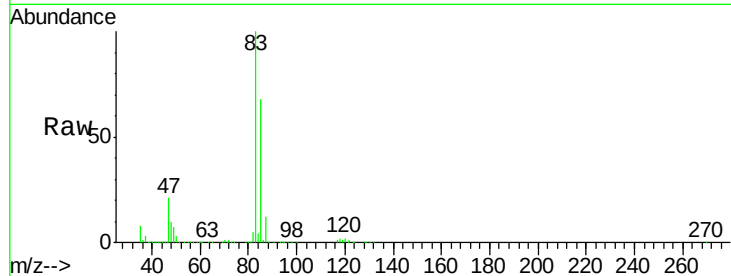
#29
Chloroform
Concen: 13.194 ppbv
RT: 5.76 min Scan# 926
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 3626478
Ion Ratio Lower Upper
83 100
85 68.2 54.0 81.0

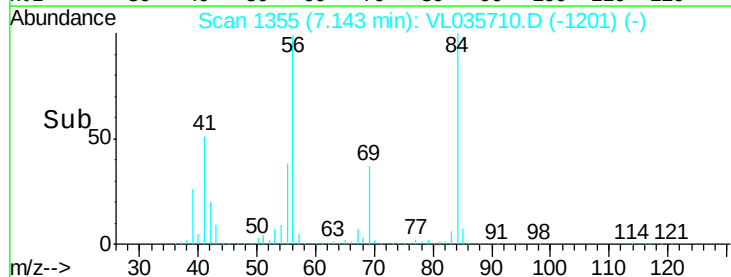
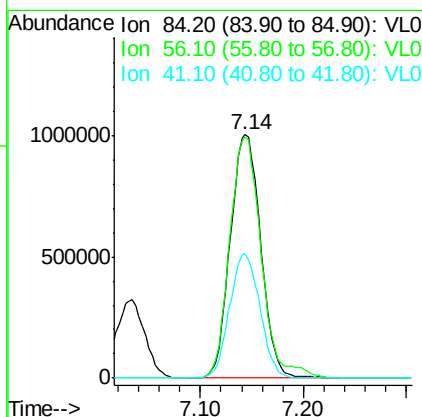
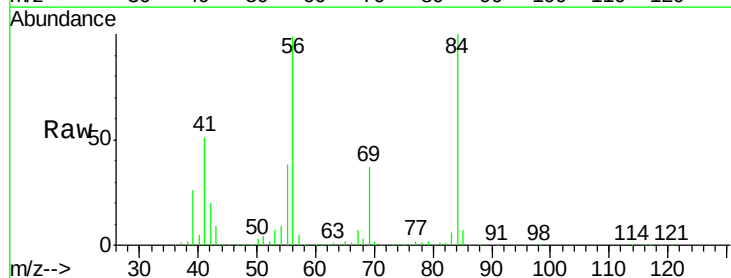
Manual Integrations
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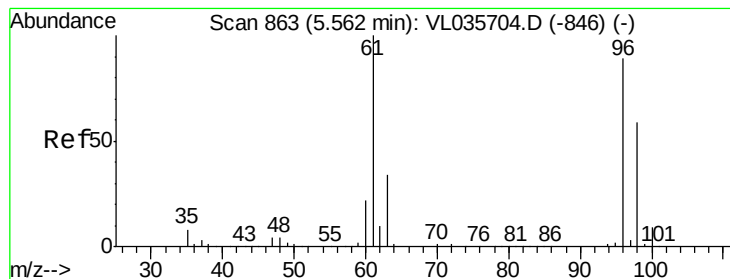
MMDadoda
9/24/2020 1:35:24 PM



#30
Cyclohexane
Concen: 14.398 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Tgt Ion: 84 Resp: 2064468
Ion Ratio Lower Upper
84 100
56 102.9 84.6 127.0
41 50.9 41.1 61.7





#31

cis-1,2-Dichloroethene

Concen: 14.414 ppbv

RT: 5.56 min Scan# 862

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 61 Resp: 1988634

Ion Ratio Lower Upper

61 100

96 90.0 71.4 107.2

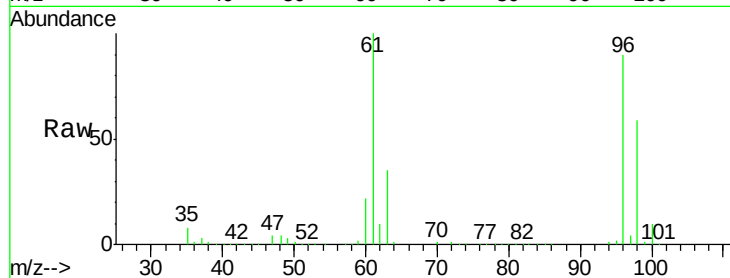
98 58.5 47.4 71.2

Manual Integrations

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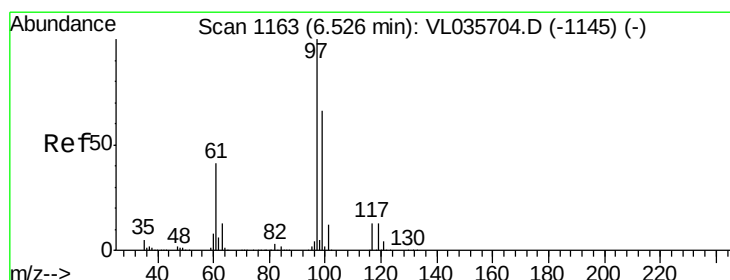
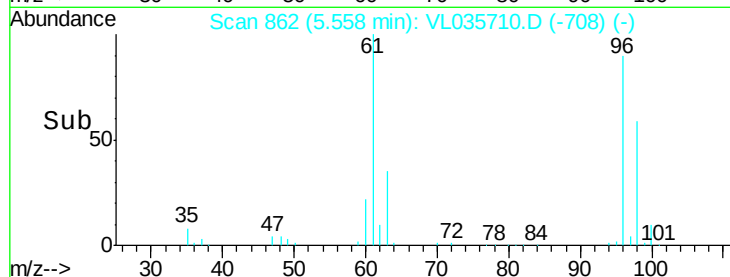
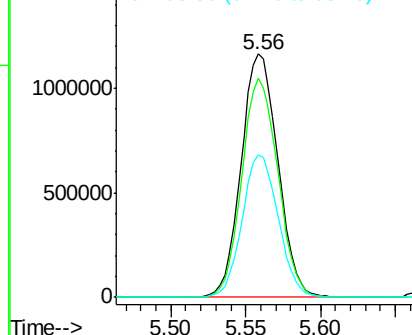


Abundance

Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 13.402 ppbv

RT: 6.52 min Scan# 1162

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

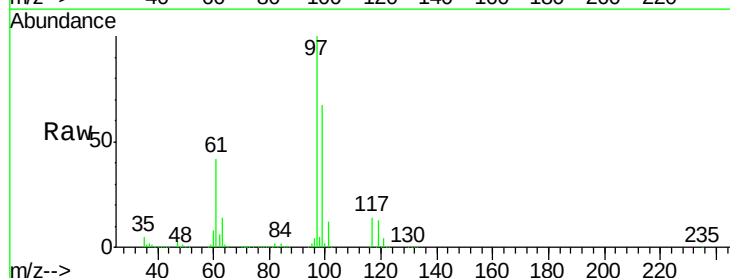
Tgt Ion: 97 Resp: 3562212

Ion Ratio Lower Upper

97 100

99 66.7 52.7 79.1

61 41.5 32.7 49.1

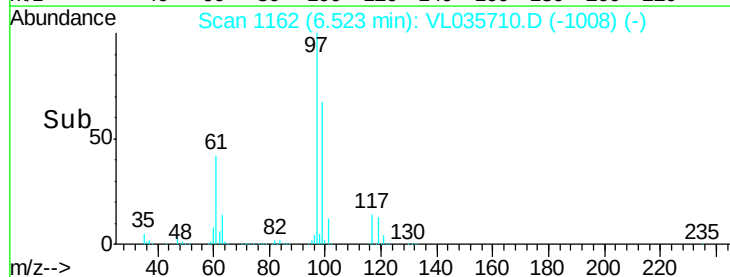
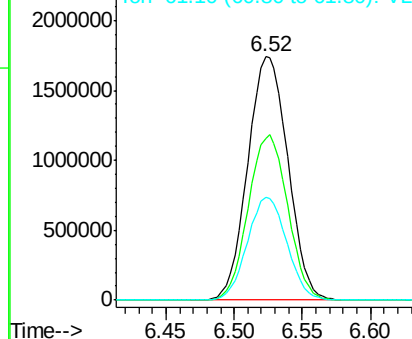


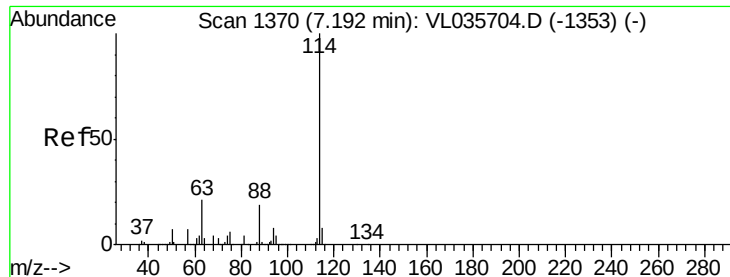
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





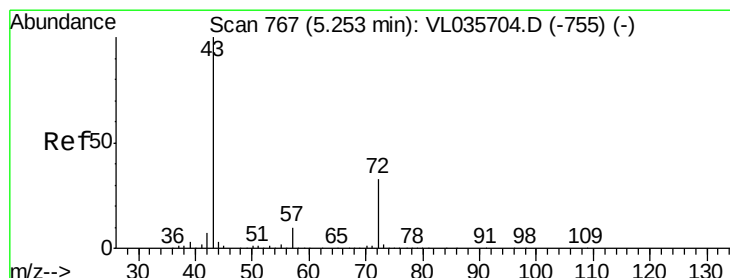
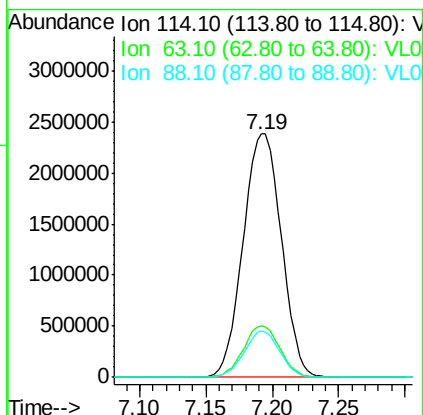
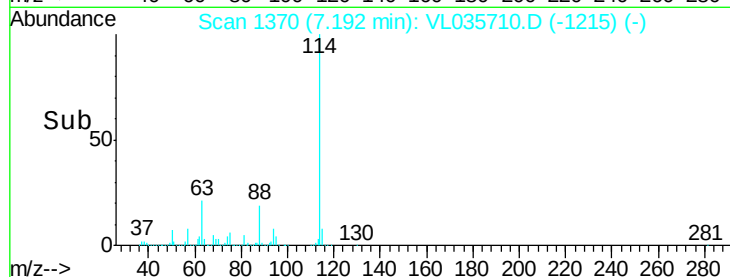
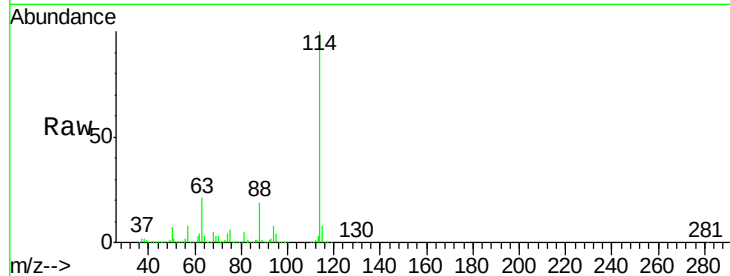
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:114 Resp: 4775455
 Ion Ratio Lower Upper
 114 100
 63 20.6 16.1 24.1
 88 17.7 14.1 21.1

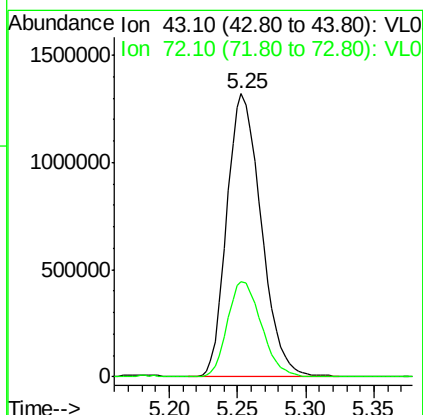
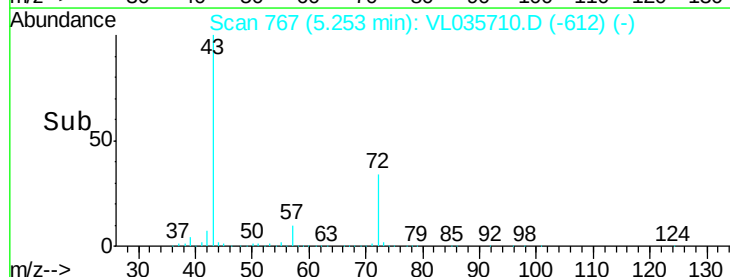
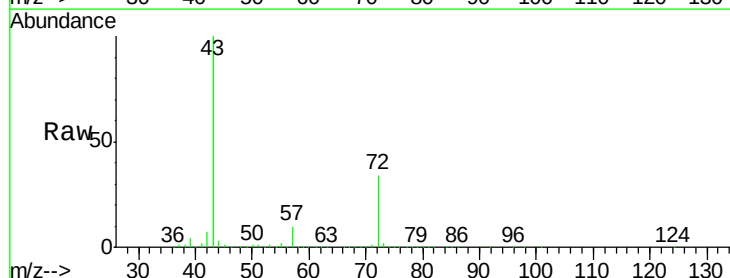
Manual Integrations
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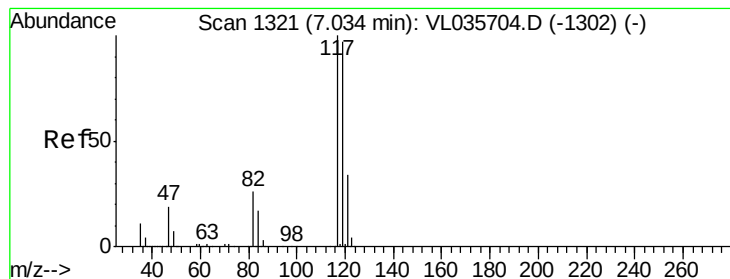
MMDadoda
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#34
 2-Butanone
 Concen: 15.908 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Tgt Ion: 43 Resp: 2311532
 Ion Ratio Lower Upper
 43 100
 72 33.4 26.1 39.1





#35

Carbon Tetrachloride

Concen: 15.243 ppbv

RT: 7.03 min Scan# 1320

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 3678720

Ion Ratio Lower Upper

117 100

119 96.8 77.7 116.5

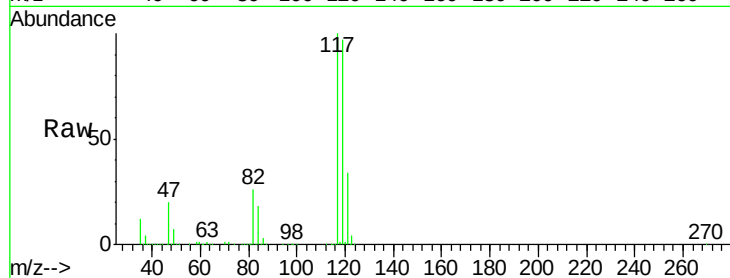
121 34.4 26.9 40.3

Manual Integrations

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MMDadoda

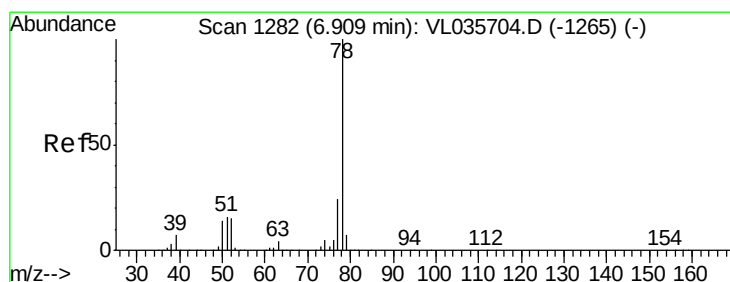
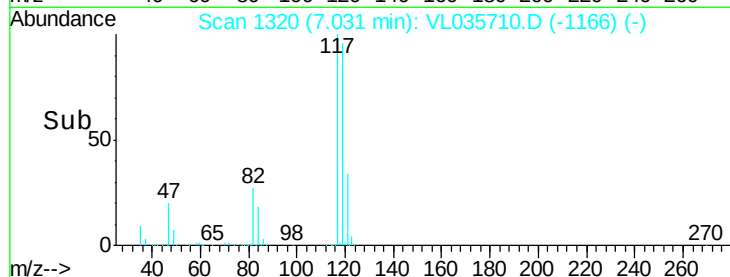
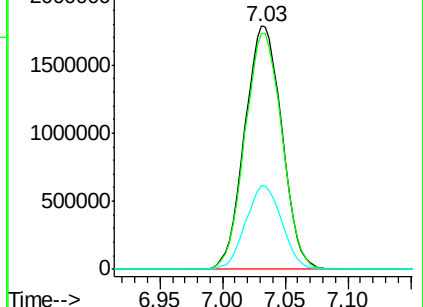
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 14.603 ppbv

RT: 6.91 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

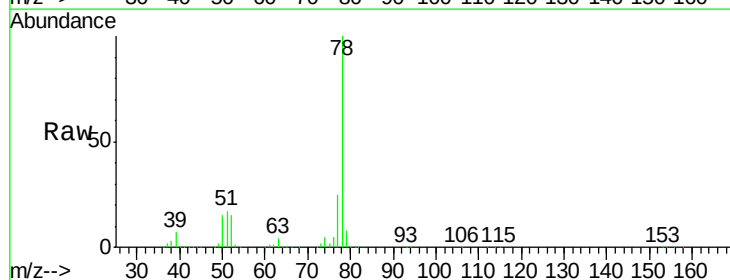
Tgt Ion: 78 Resp: 4562182

Ion Ratio Lower Upper

78 100

77 25.3 19.3 28.9

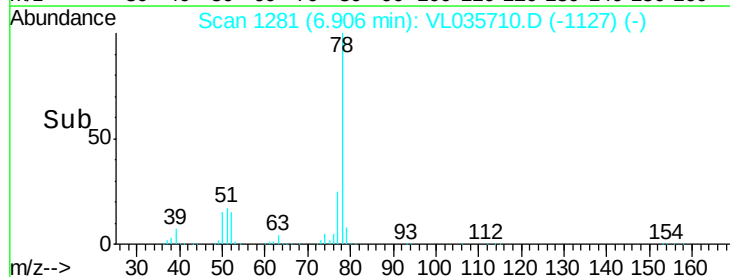
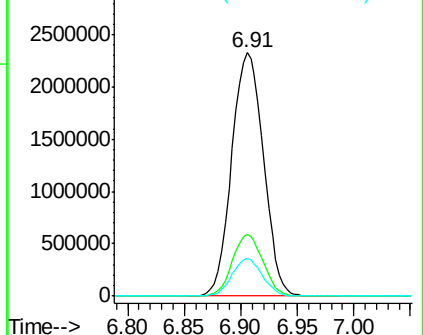
50 15.3 11.6 17.4

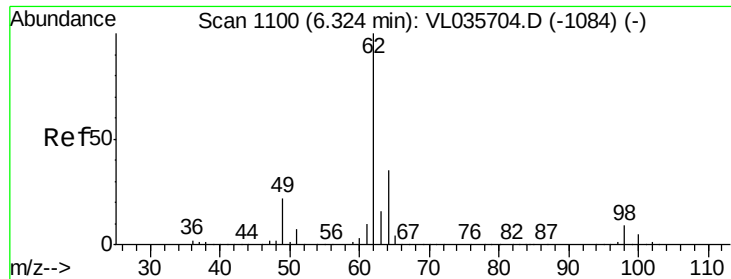


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





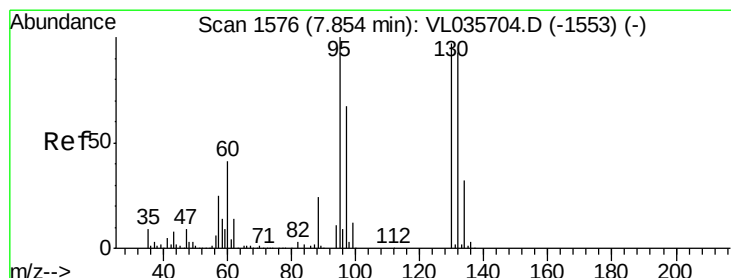
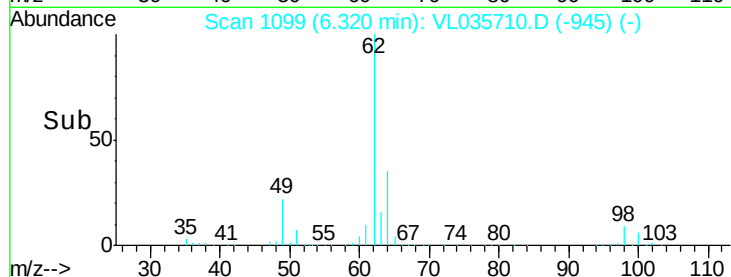
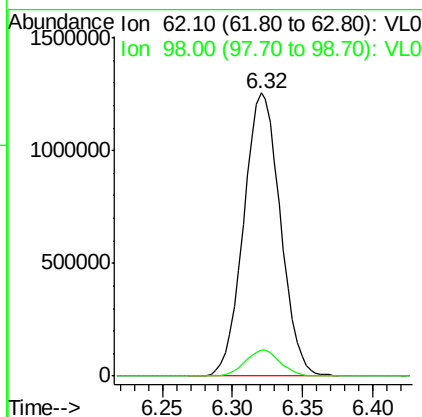
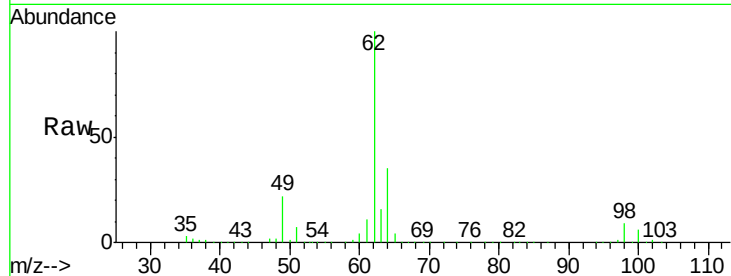
#37
 1,2-Dichloroethane
 Concen: 15.232 ppbv
 RT: 6.32 min Scan# 1099
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 62 Resp: 2290752
 Ion Ratio Lower Upper
 62 100
 98 8.9 6.9 10.3

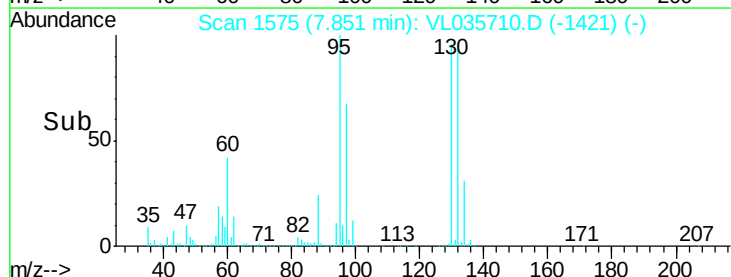
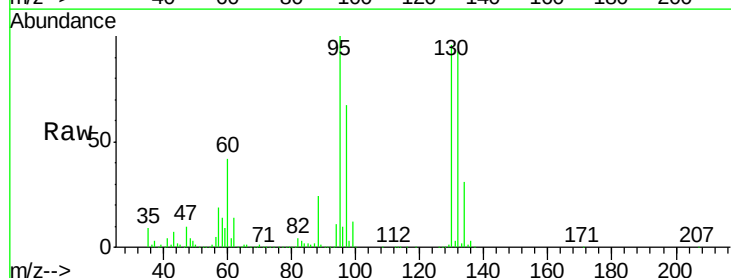
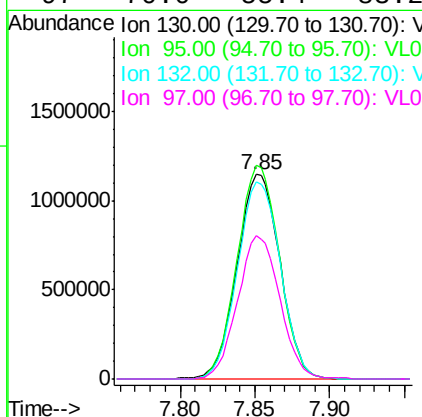
Manual Integrations
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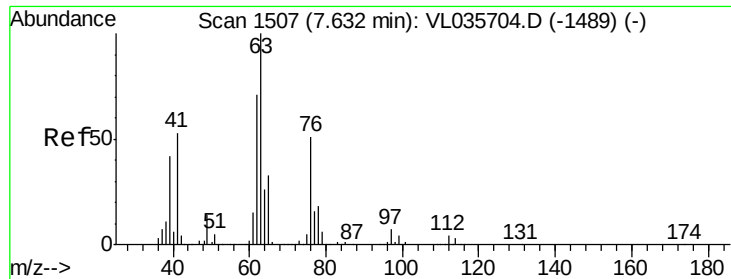
MMDadoda
 9/24/2020 1:35:24 PM



#38
 Trichloroethene
 Concen: 12.687 ppbv
 RT: 7.85 min Scan# 1575
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Tgt Ion: 130 Resp: 2275886
 Ion Ratio Lower Upper
 130 100
 95 104.6 82.4 123.6
 132 96.8 76.8 115.2
 97 70.0 55.4 83.2





#39

1,2-Dichloropropane

Concen: 15.230 ppbv

RT: 7.63 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 63 Resp: 1618022

Ion Ratio Lower Upper

63 100

41 53.0 42.6 63.8

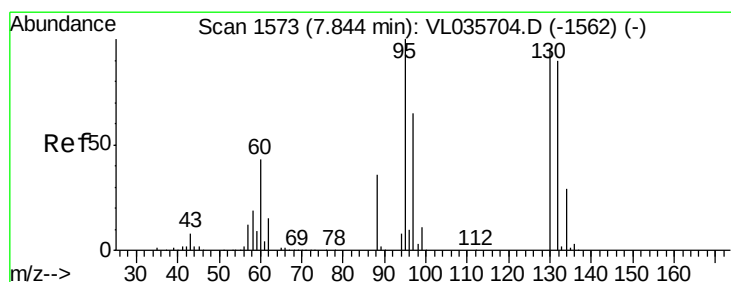
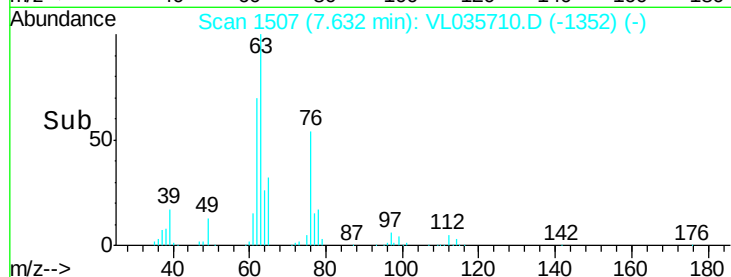
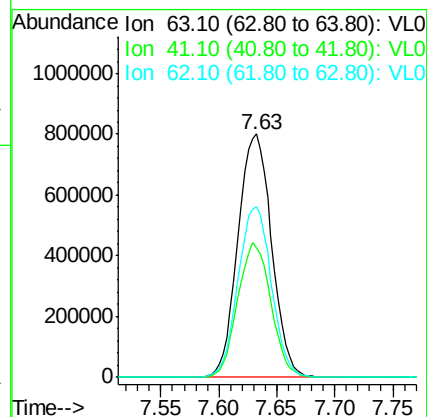
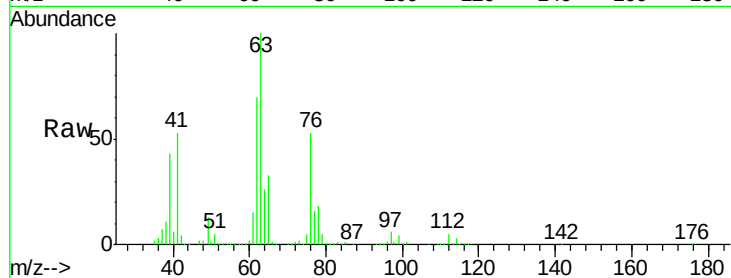
62 69.8 56.5 84.7

Manual Integrations

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#40

1,4-Dioxane

Concen: 13.991 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Tgt Ion: 88 Resp: 724767

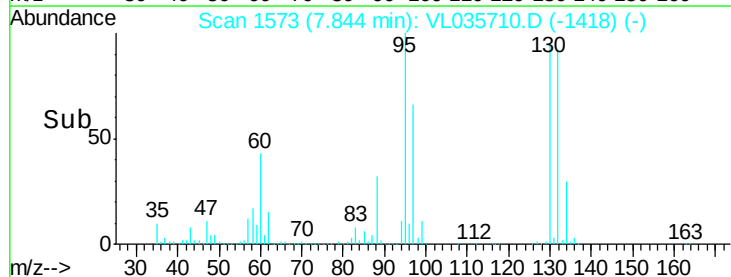
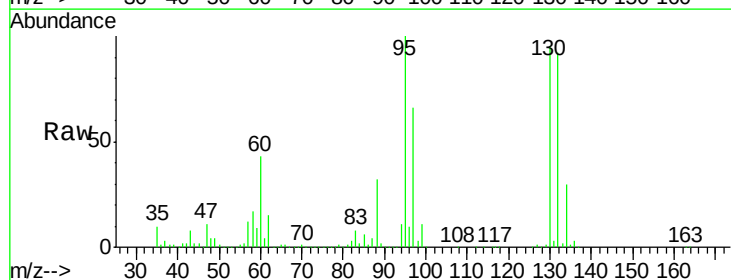
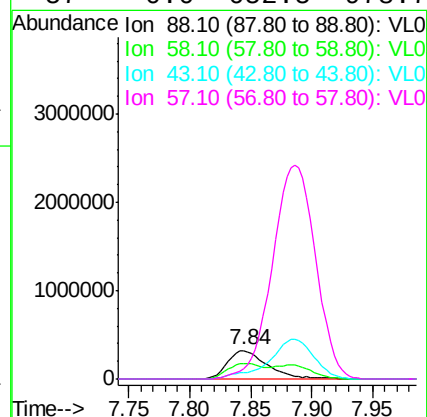
Ion Ratio Lower Upper

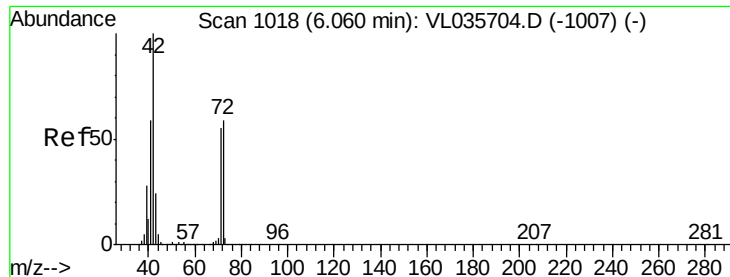
88 100

58 49.7 76.2 114.4#

43 0.0 123.4 185.2#

57 0.0 652.5 978.7#





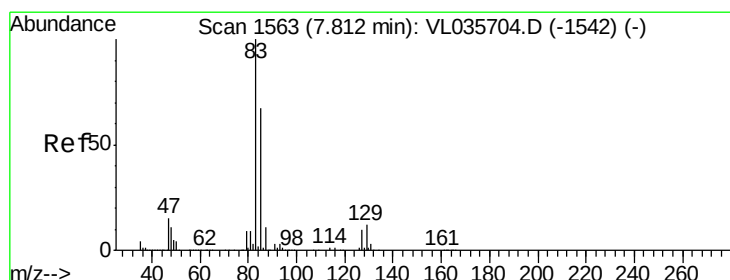
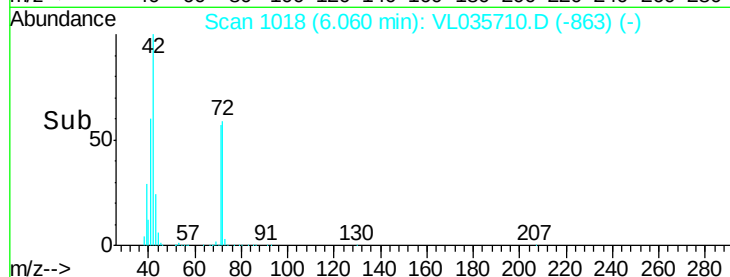
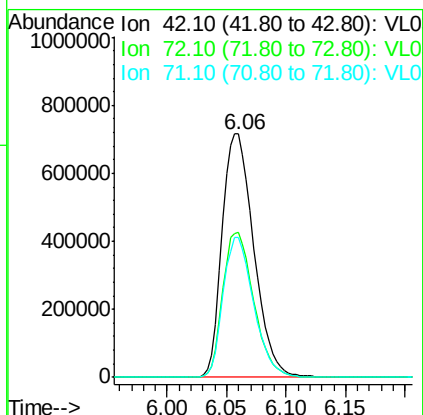
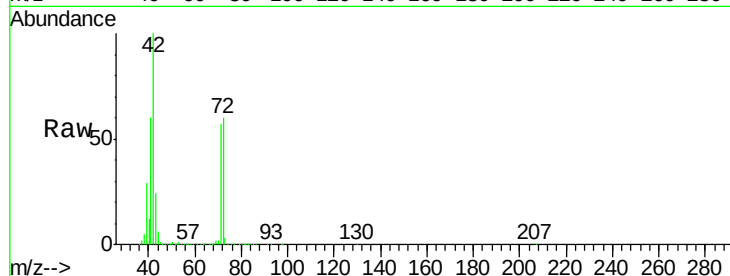
#41
Tetrahydrofuran
Concen: 17.206 ppbv
RT: 6.06 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
42	100		
72	58.3	46.2	69.4
71	55.4	44.2	66.4

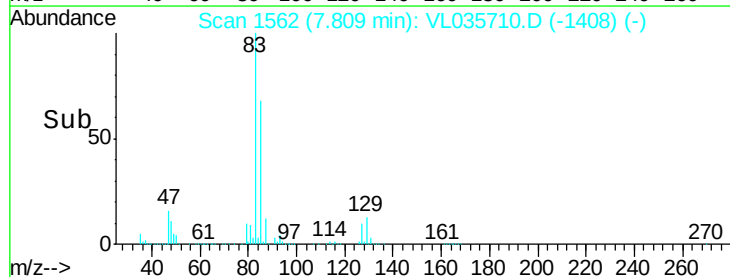
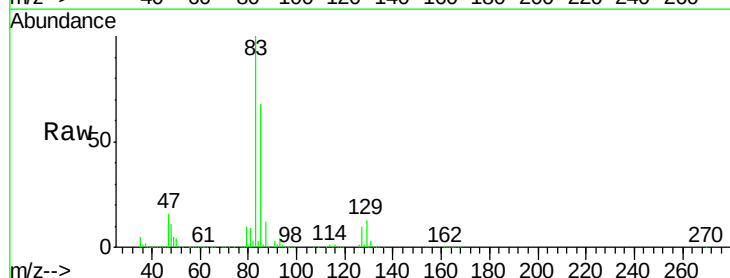
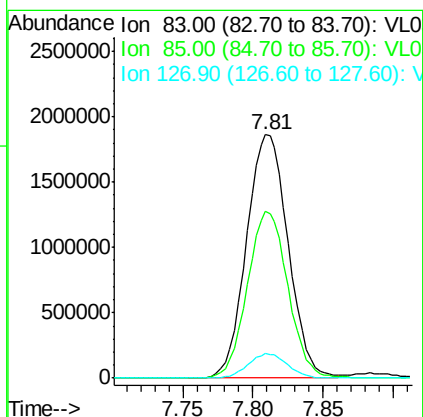
Manual Integrations
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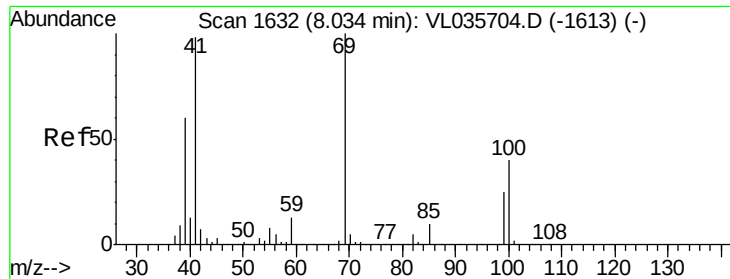
MMDadoda
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#42
Bromodichloromethane
Concen: 15.851 ppbv
RT: 7.81 min Scan# 1562
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.4	53.4	80.0
127	10.2	7.8	11.6





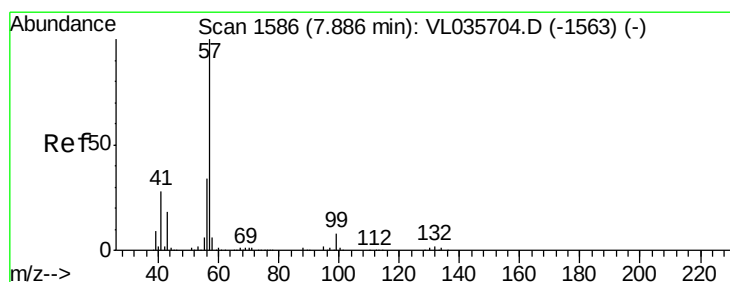
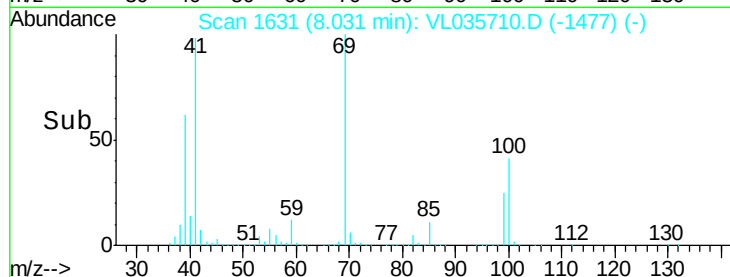
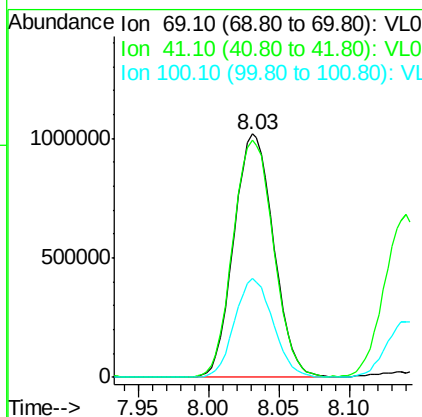
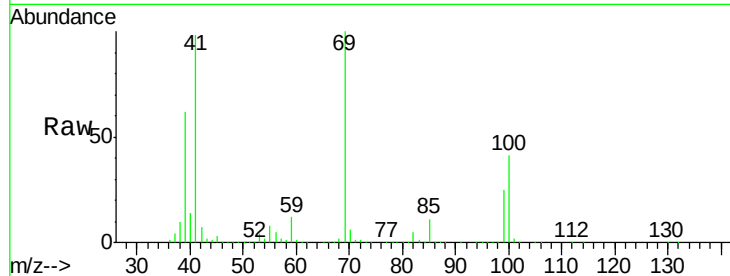
#43
Methyl Methacrylate
Concen: 16.581 ppbv
RT: 8.03 min Scan# 1631
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 2019152
Ion Ratio Lower Upper
69 100
41 99.2 79.8 119.6
100 39.3 30.6 46.0

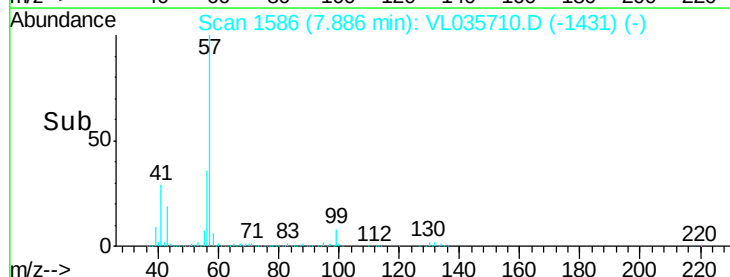
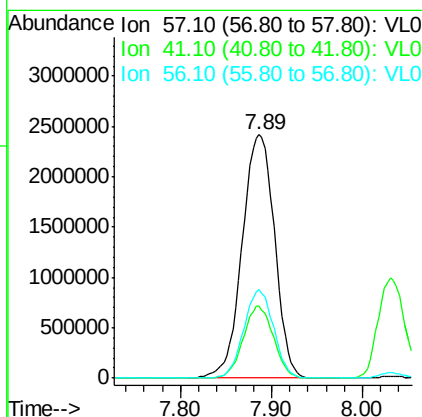
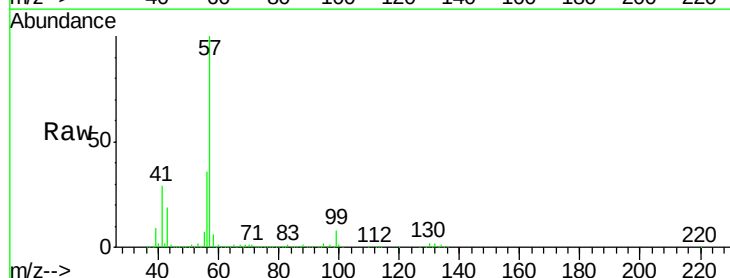
Manual Integrations
APPROVED

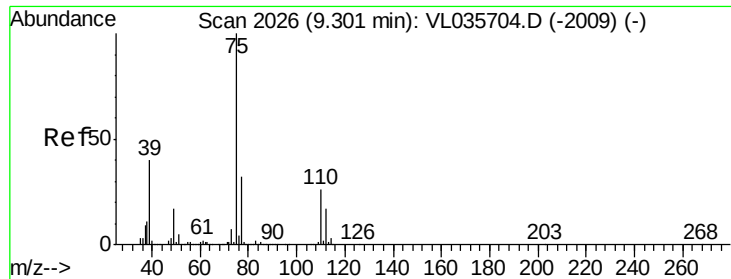
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 14.382 ppbv
RT: 7.89 min Scan# 1586
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Tgt Ion: 57 Resp: 5990919
Ion Ratio Lower Upper
57 100
41 27.5 21.2 31.8
56 33.3 25.8 38.8





#45

t-1,3-Dichloropropene

Concen: 18.920 ppbv

RT: 9.30 min Scan# 2026

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 75 Resp: 2326500

Ion Ratio Lower Upper

75 100

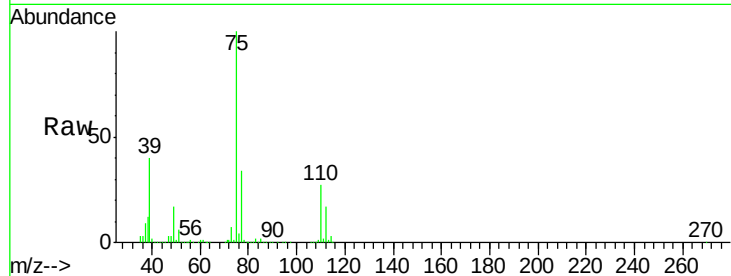
77 33.7 25.9 38.9

Manual Integrations

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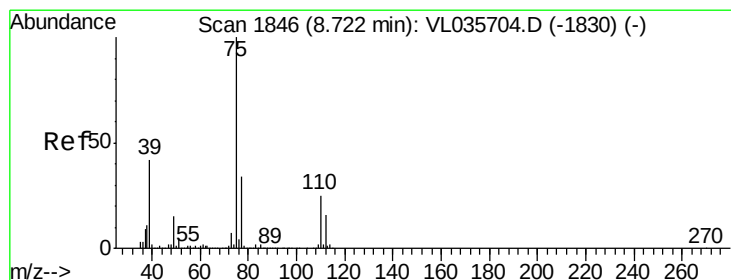
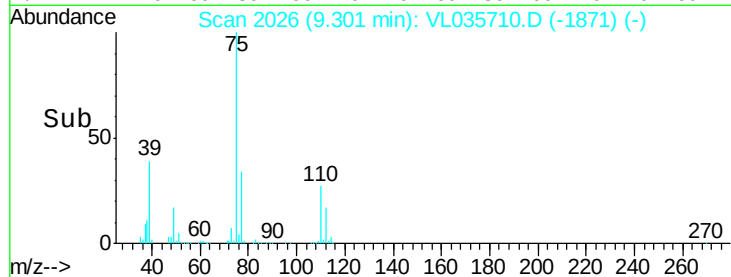
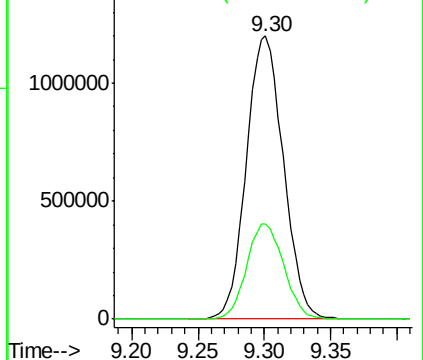
MMDadoda

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 17.715 ppbv

RT: 8.72 min Scan# 1846

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

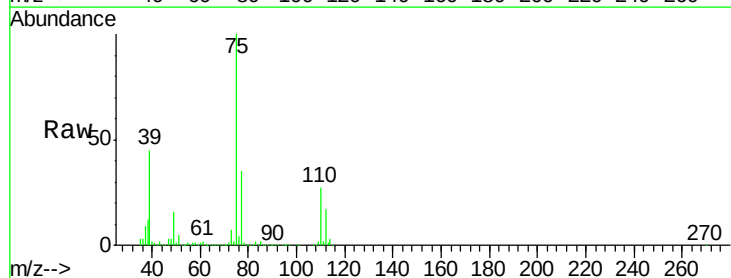
Tgt Ion: 75 Resp: 2706282

Ion Ratio Lower Upper

75 100

39 45.0 33.9 50.9

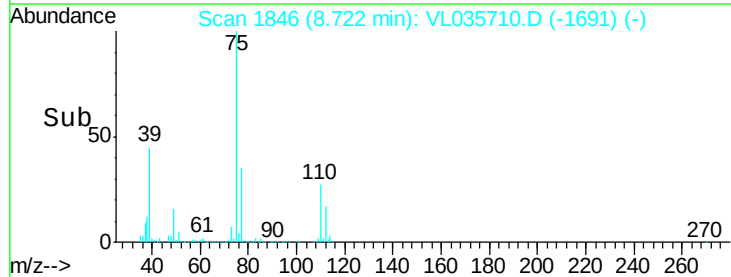
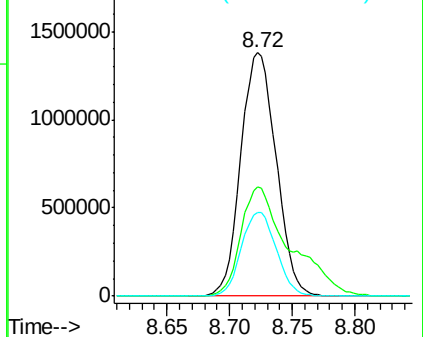
77 34.6 27.4 41.0

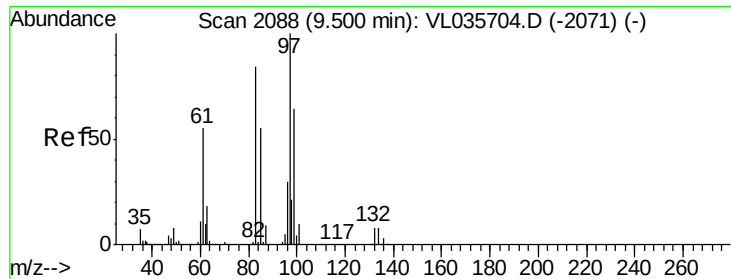


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 14.635 ppbv

RT: 9.50 min Scan# 2087

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 97 Resp: 2276575

Ion Ratio Lower Upper

97 100

83 86.3 67.1 100.7

85 55.5 43.9 65.9

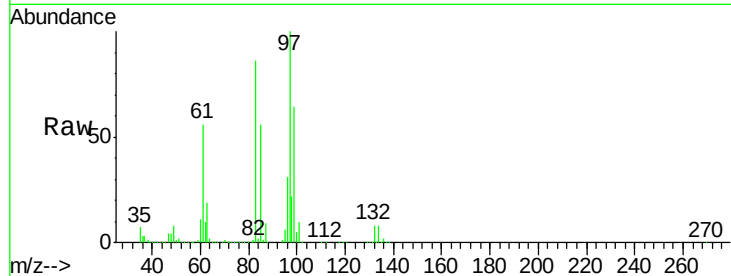
99 63.9 51.3 76.9

Manual Integrations

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MMDadoda

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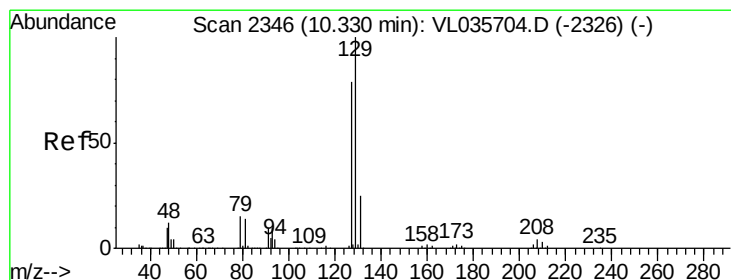
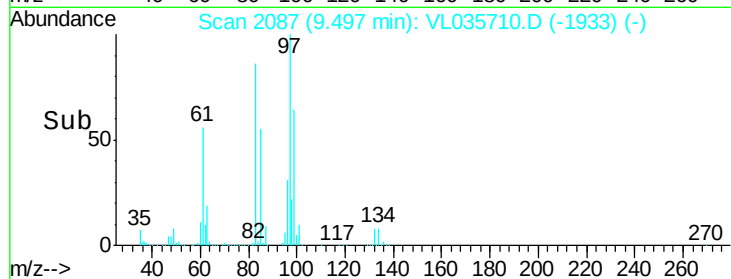
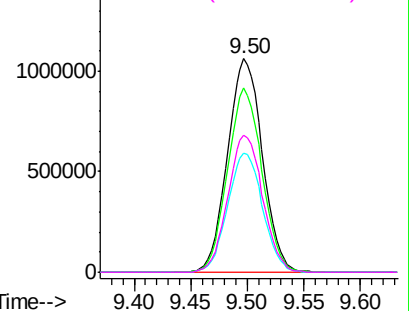


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 15.771 ppbv

RT: 10.33 min Scan# 2346

Delta R.T. -0.00 min

Lab File: VL035710.D

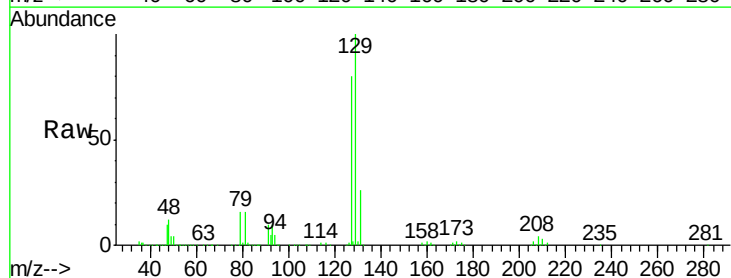
Acq: 23 Sep 2020 7:11

Tgt Ion: 129 Resp: 3828852

Ion Ratio Lower Upper

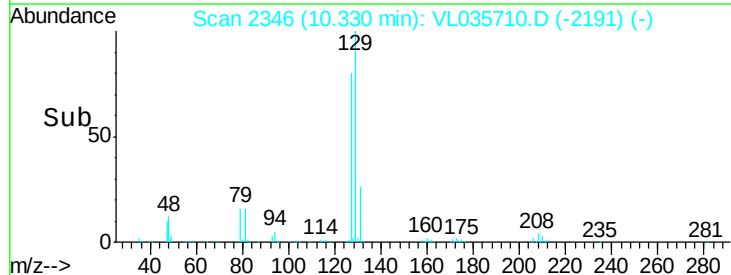
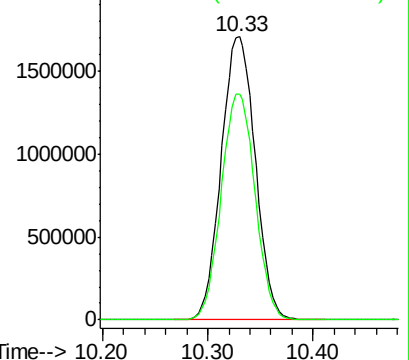
129 100

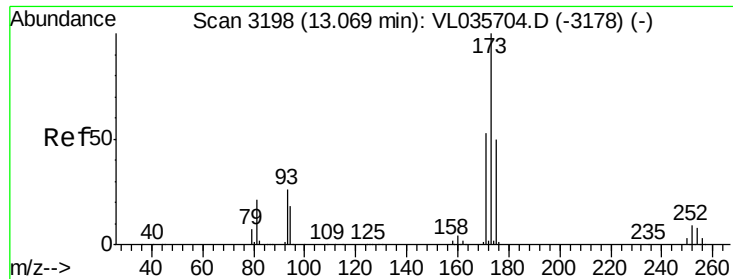
127 79.3 39.4 118.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





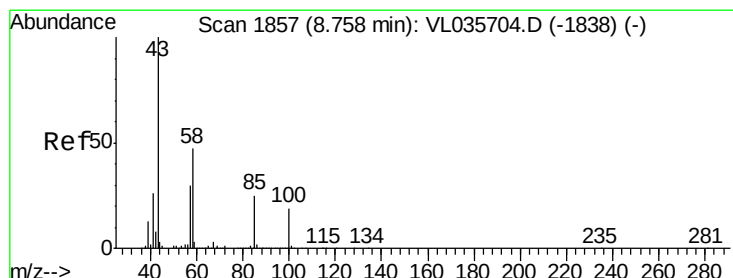
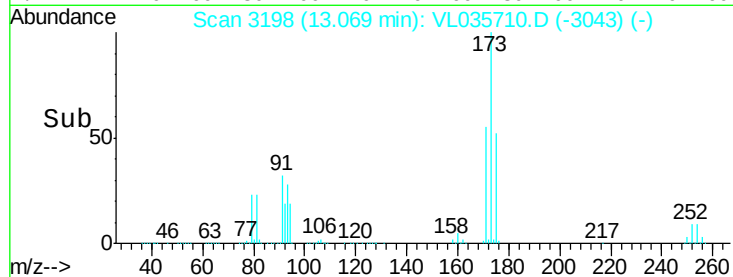
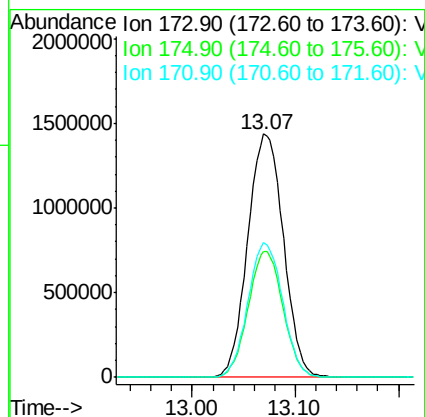
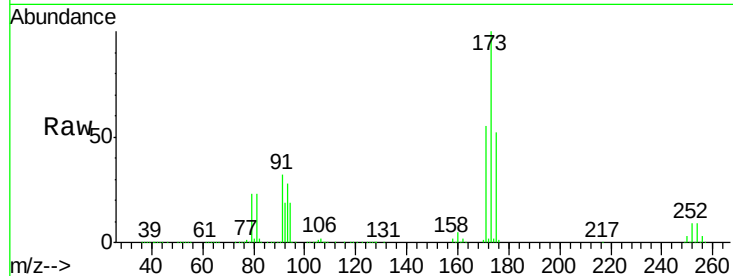
#49
Bromoform
Concen: 15.968 ppbv
RT: 13.07 min Scan# 3198
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:173 Resp: 3452748
Ion Ratio Lower Upper
173 100
175 50.5 39.8 59.6
171 54.1 42.8 64.2

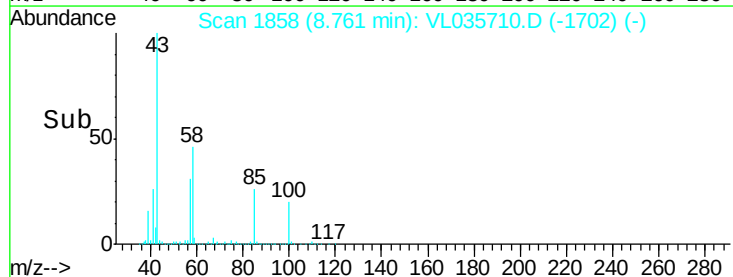
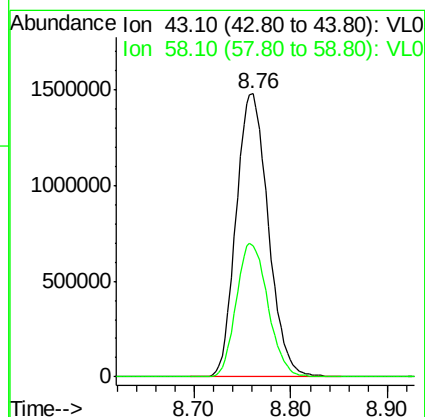
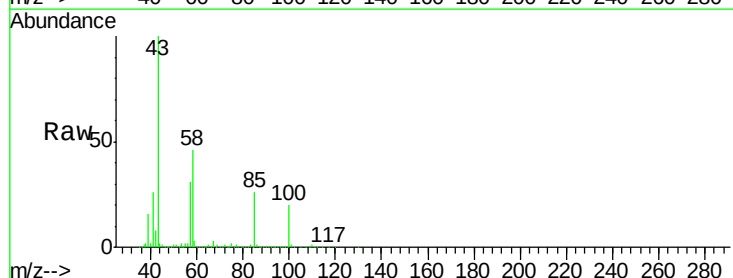
Manual Integrations
APPROVED

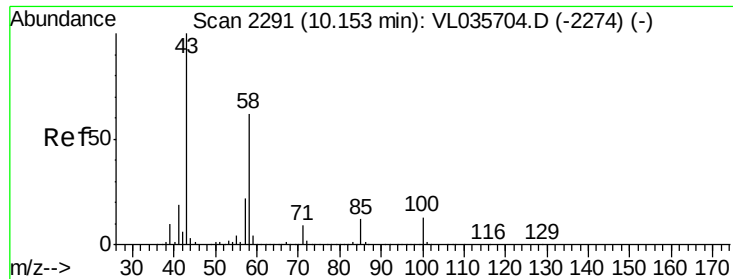
MMDadoda
9/24/2020 1:35:24 PM



#50
4-Methyl-2-Pentanone
Concen: 16.173 ppbv
RT: 8.76 min Scan# 1858
Delta R.T. 0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Tgt Ion: 43 Resp: 3414290
Ion Ratio Lower Upper
43 100
58 46.6 36.6 54.8





#51

2-Hexanone

Concen: 17.092 ppbv

RT: 10.15 min Scan# 2291

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2951725

Ion Ratio Lower Upper

43 100

58 62.1 48.7 73.1

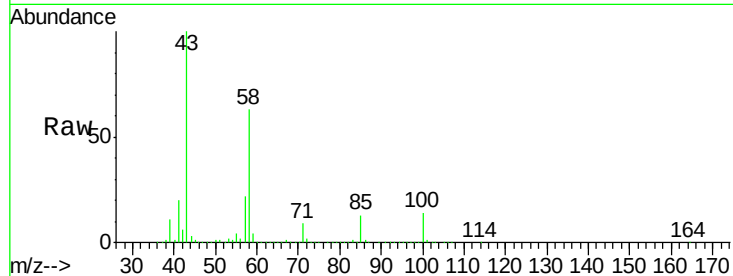
98 0.6 0.7 1.1#

Manual Integrations

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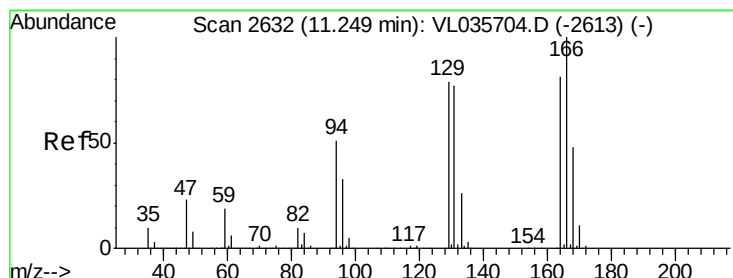
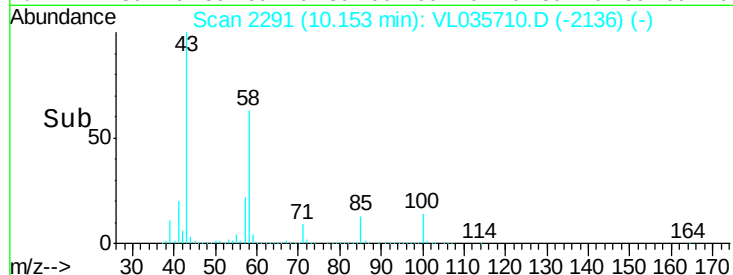
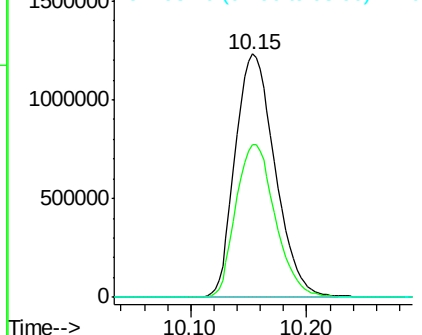
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 12.245 ppbv

RT: 11.25 min Scan# 2631

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Tgt Ion:164 Resp: 2178165

Ion Ratio Lower Upper

164 100

166 125.2 98.7 148.1

129 102.4 78.4 117.6

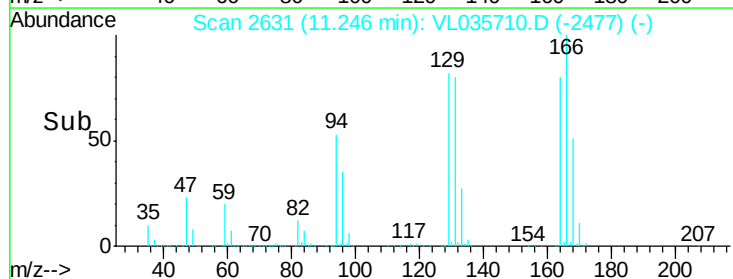
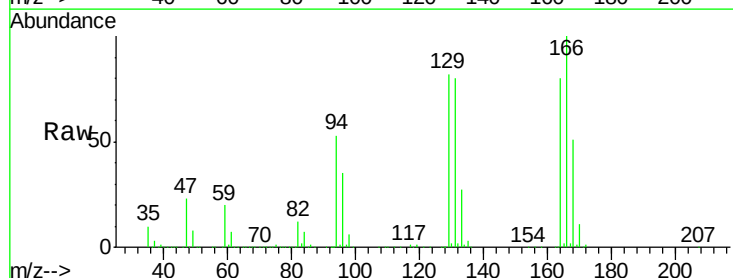
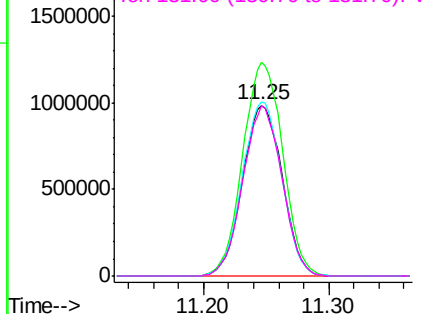
131 99.8 76.2 114.2

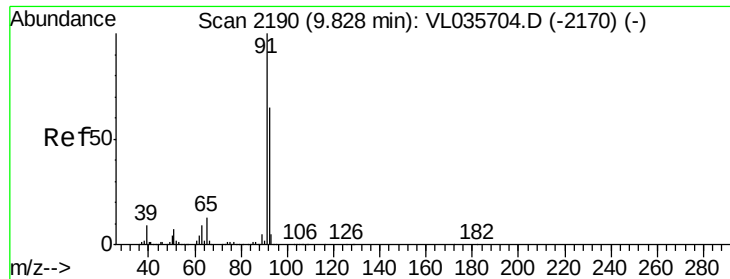
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 14.412 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 5642523

Ion Ratio Lower Upper

91 100

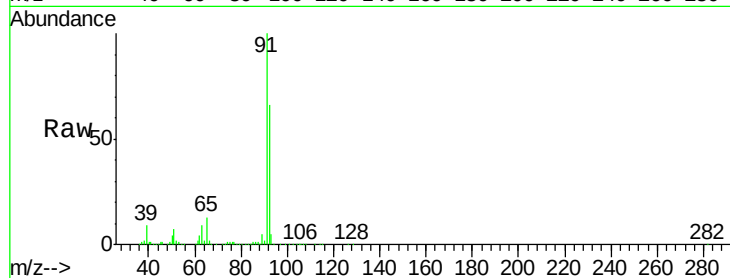
92 64.2 50.0 75.0

Manual Integrations

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.83

2500000

2000000

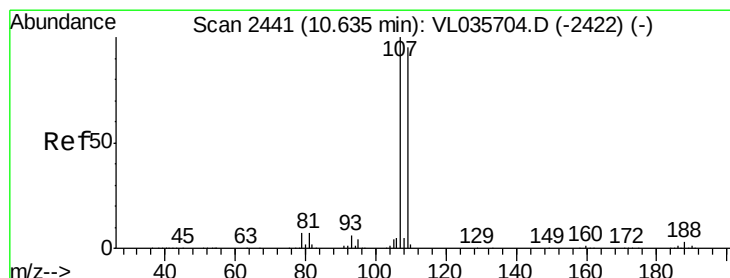
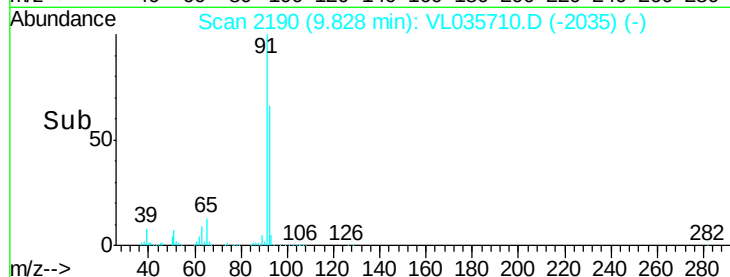
1500000

1000000

500000

0

Time-->



#54

1,2-Dibromoethane

Concen: 14.593 ppbv

RT: 10.64 min Scan# 2441

Delta R.T. -0.00 min

Lab File: VL035710.D

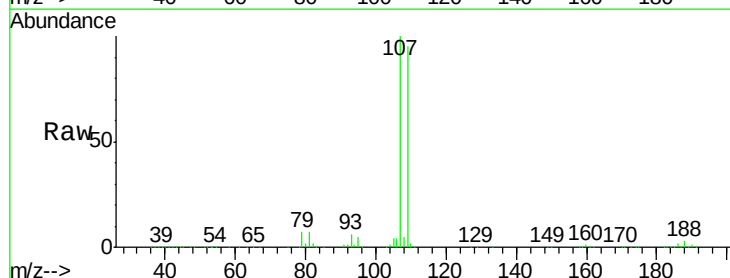
Acq: 23 Sep 2020 7:11

Tgt Ion:107 Resp: 3572808

Ion Ratio Lower Upper

107 100

109 95.5 76.0 114.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10.64

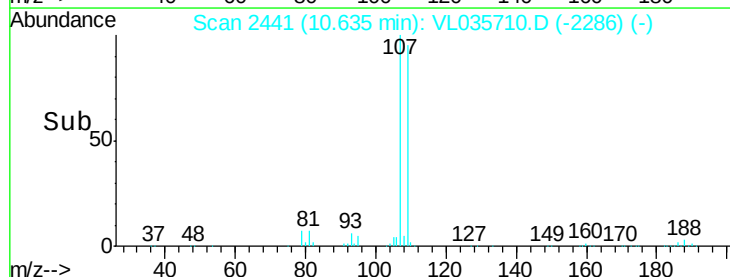
1500000

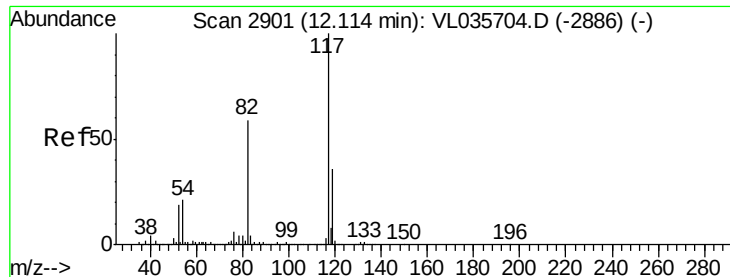
1000000

500000

0

Time-->





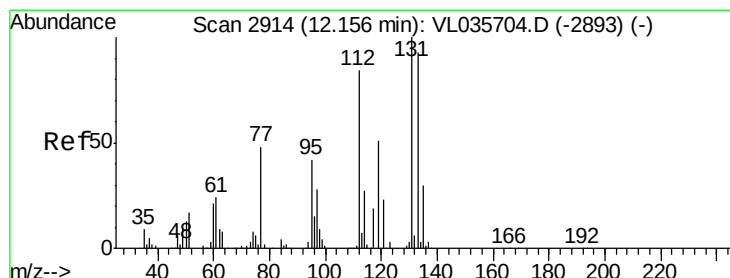
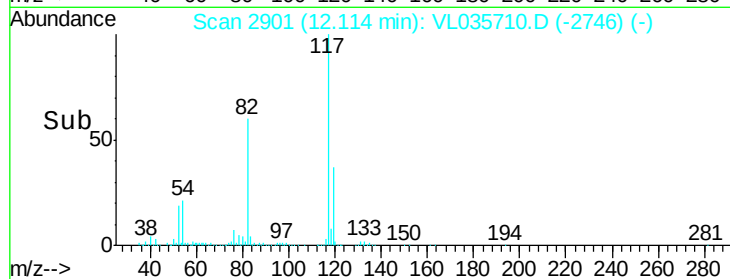
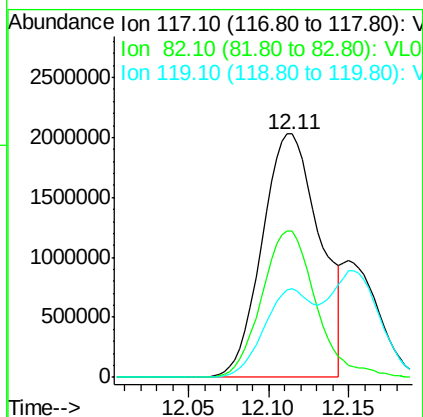
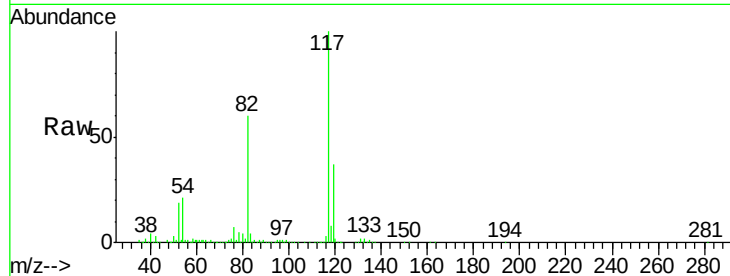
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tot Ion:117 Resp: 5077833
Ion Ratio Lower Upper
117 100
82 56.9 46.1 69.1
119 33.4 28.0 42.0

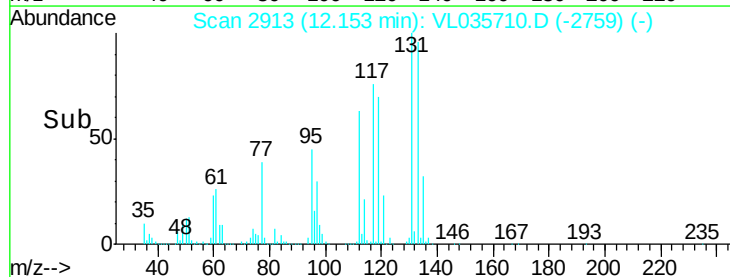
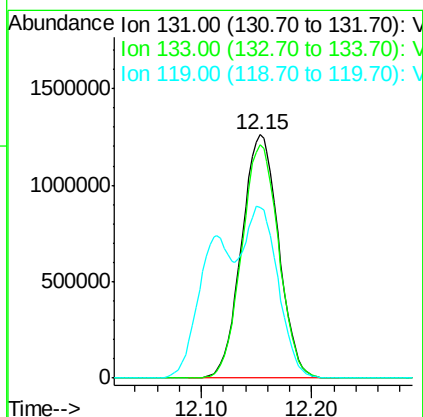
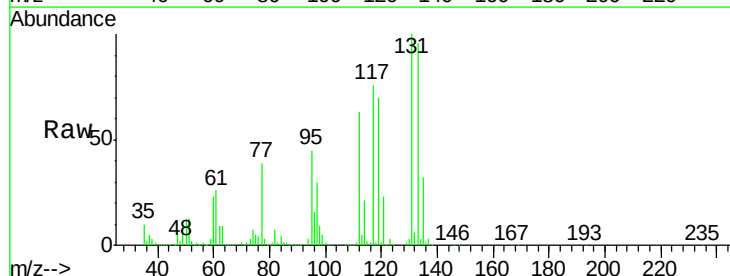
Manual Integrations
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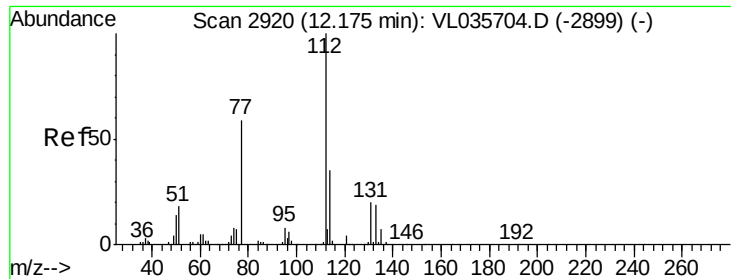
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 14.041 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Tgt Ion:131 Resp: 2928771
Ion Ratio Lower Upper
131 100
133 95.7 76.2 114.4
119 71.7 52.4 78.6





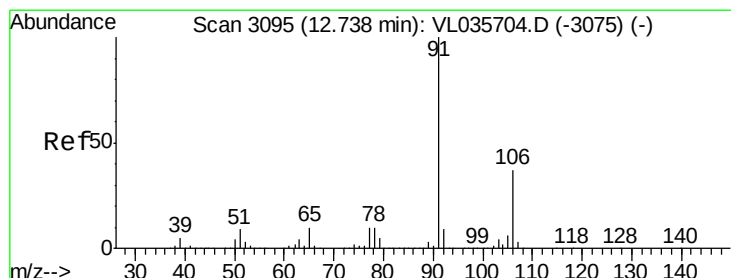
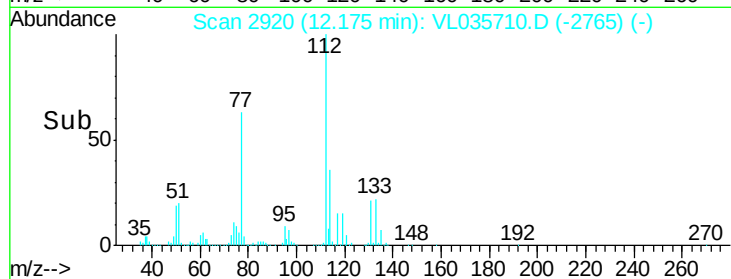
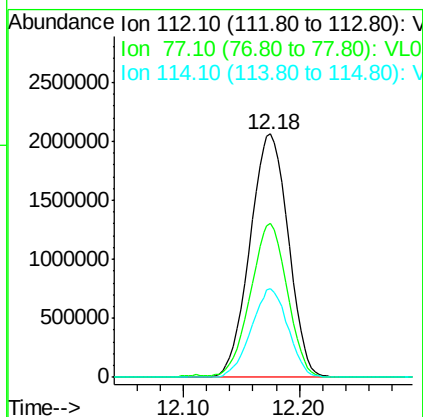
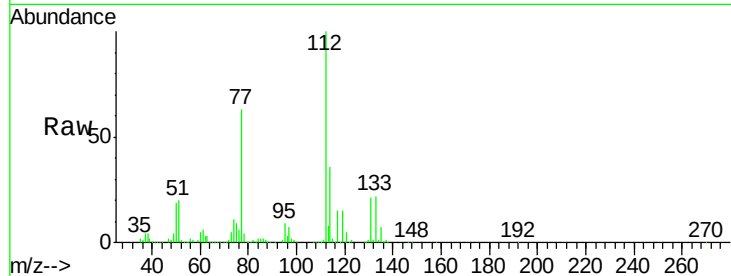
#57
Chlorobenzene
Concen: 12.553 ppbv
RT: 12.18 min Scan# 2920
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
112	100		
77	62.8	48.2	72.2
114	36.4	31.9	39.1

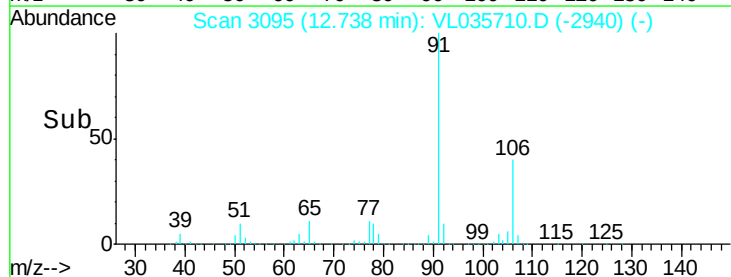
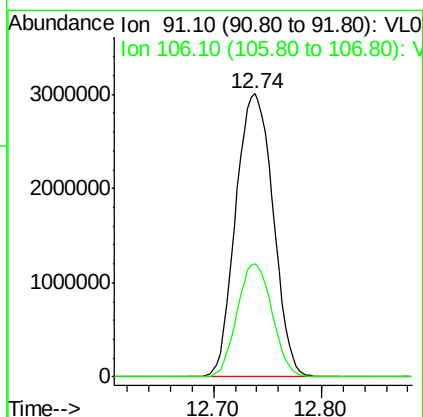
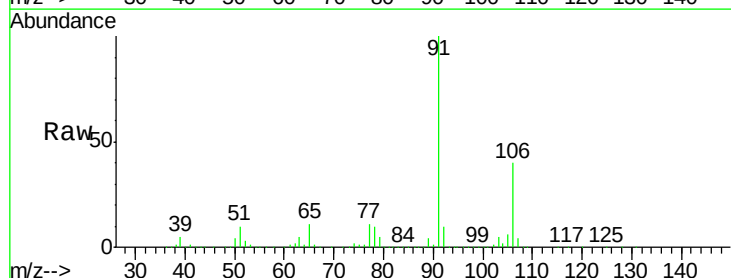
Manual Integrations
APPROVED

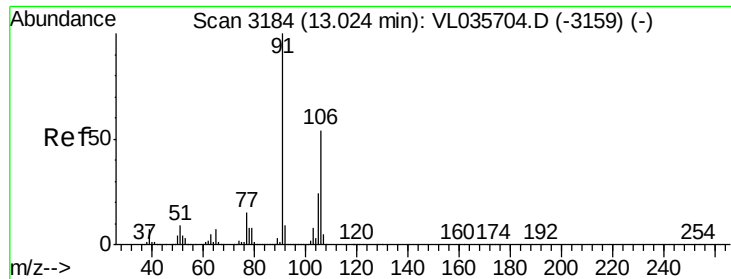
MMDadoda
9/24/2020 1:35:24 PM



#58
Ethyl Benzene
Concen: 13.611 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Tgt Ion	Ratio	Lower	Upper
91	100		
106	40.1	29.7	44.5





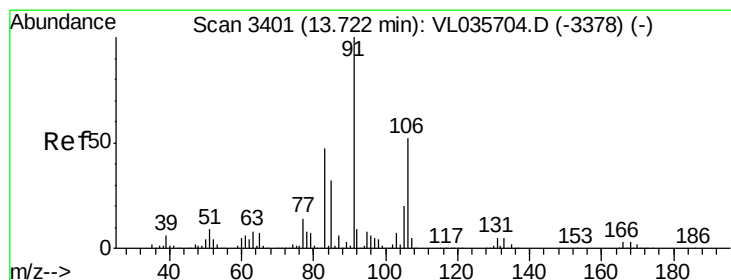
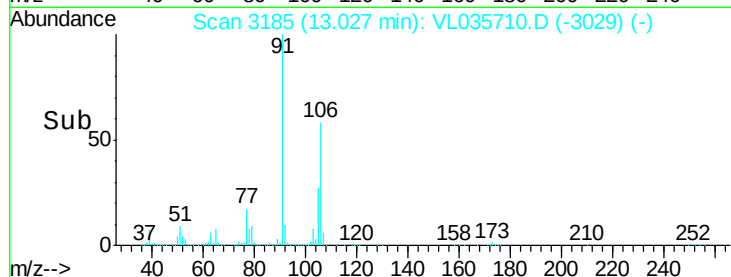
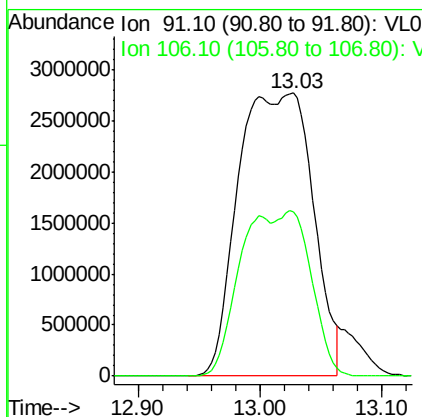
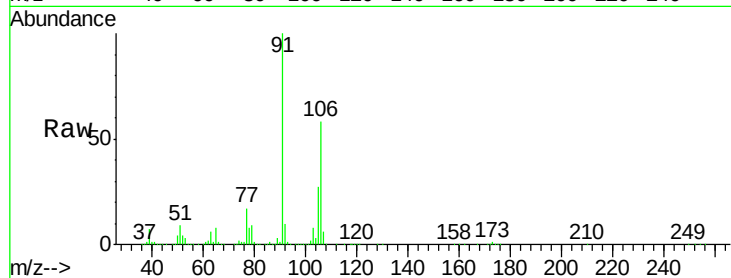
#59
m/p-Xylene
Concen: 26.202 ppbv m
RT: 13.03 min Scan# 3185
Delta R.T. 0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 11751296
Ion Ratio Lower Upper
91 100
106 55.0 41.4 62.0

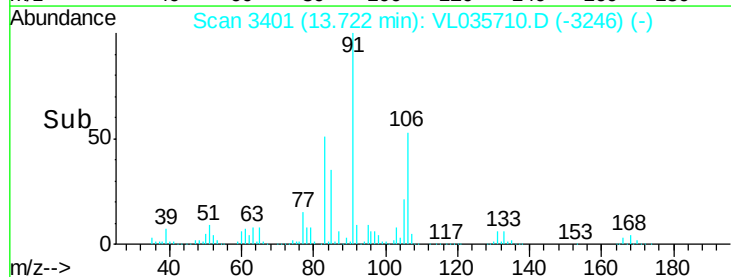
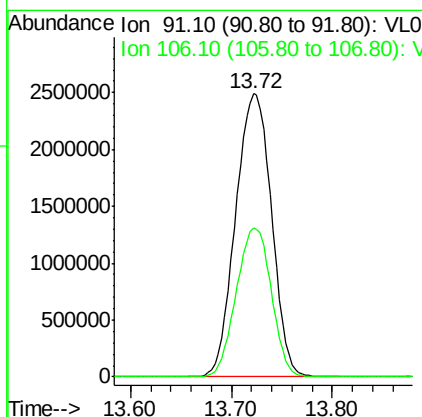
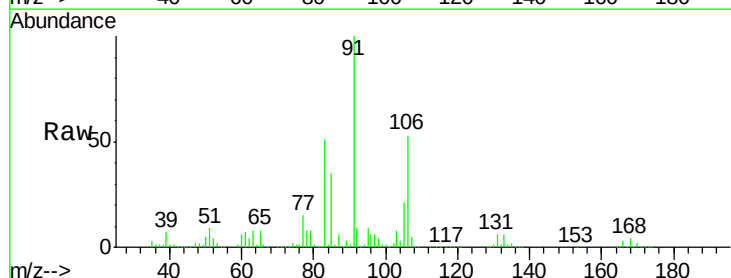
Manual Integrations
APPROVED

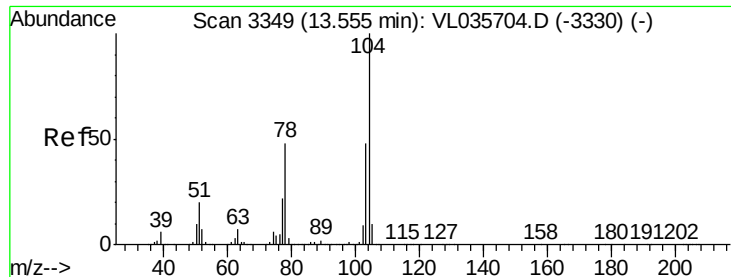
MMDadoda
9/24/2020 1:35:24 PM



#60
o-Xylene
Concen: 13.629 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Tgt Ion: 91 Resp: 6147242
Ion Ratio Lower Upper
91 100
106 51.4 25.0 75.0





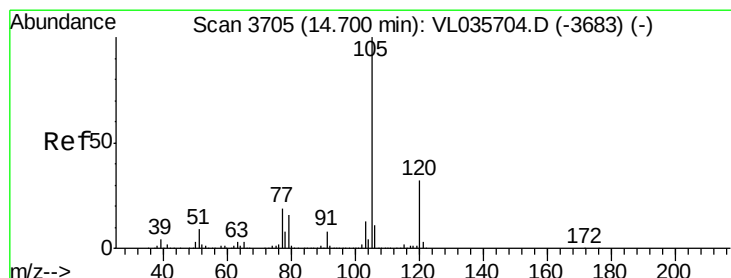
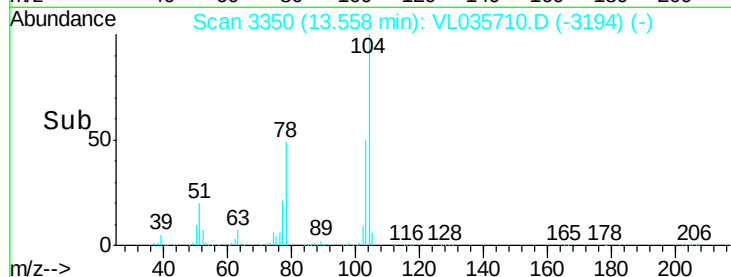
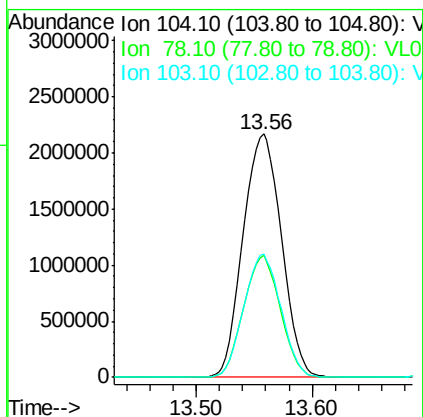
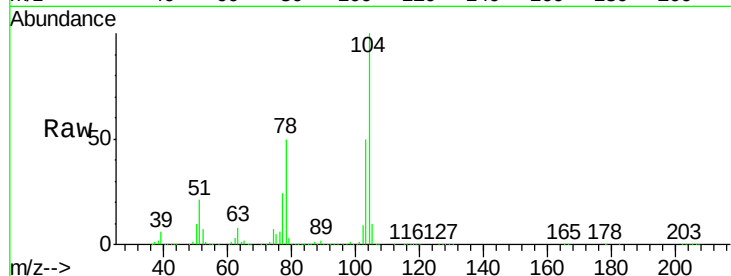
#61
Stvrene
Concen: 14.671 ppbv
RT: 13.56 min Scan# 3350
Delta R.T. 0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
104	100		
78	47.9	37.2	55.8
103	48.9	38.2	57.2

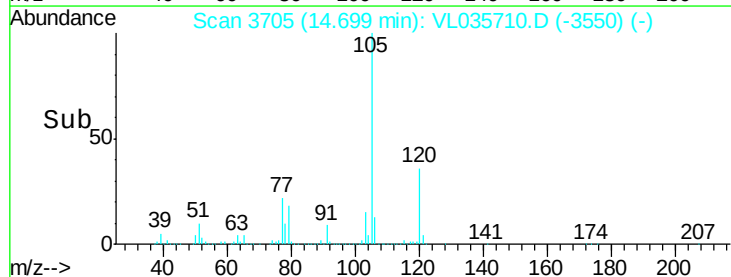
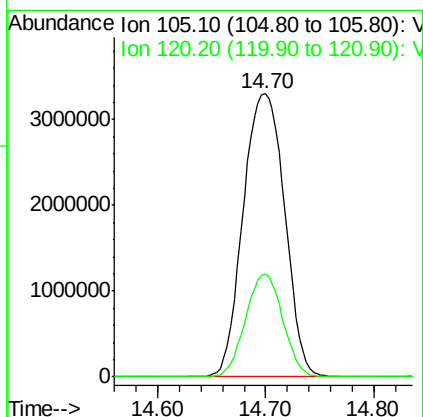
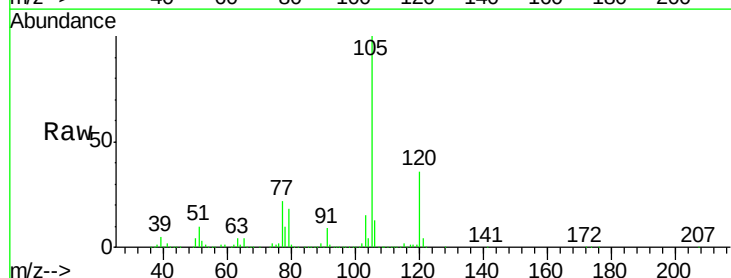
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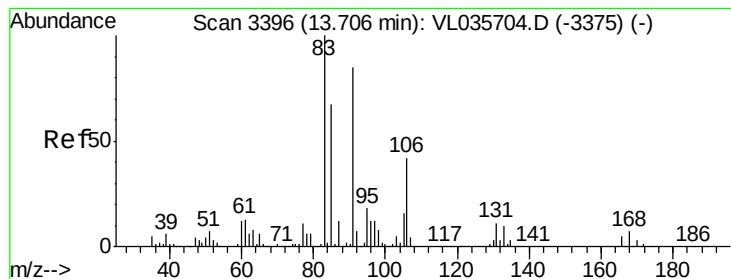
MMDadoda
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#62
Isopropylbenzene
Concen: 12.308 ppbv
RT: 14.70 min Scan# 3705
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Tgt Ion	Ratio	Lower	Upper
105	100		
120	32.5	24.1	36.1





#63

1,1,2,2-Tetrachloroethane

Concen: 13.008 ppbv

RT: 13.71 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 4540881

Ion Ratio Lower Upper

83 100

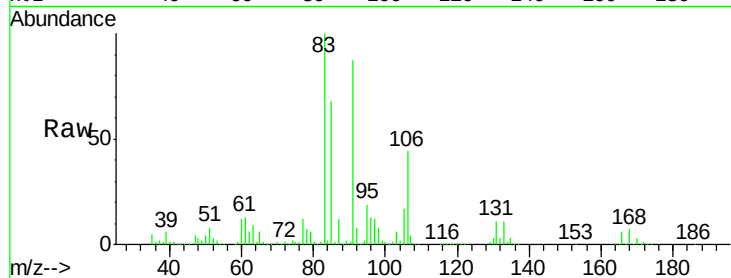
131 11.0 5.3 16.1

85 67.7 33.4 100.2

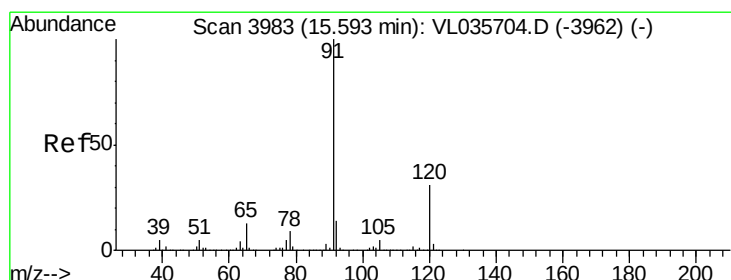
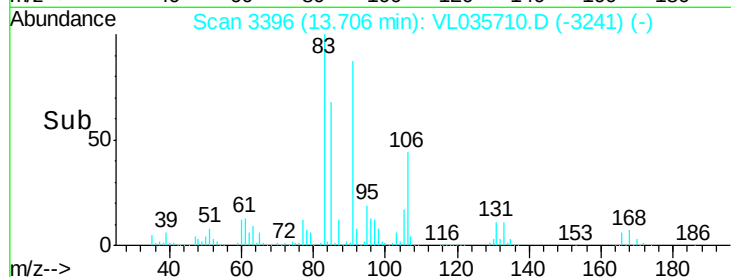
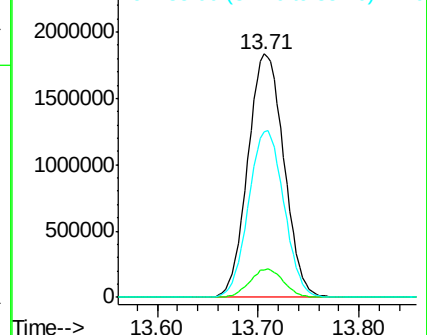
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Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 13.706 ppbv

RT: 15.59 min Scan# 3983

Delta R.T. -0.00 min

Lab File: VL035710.D

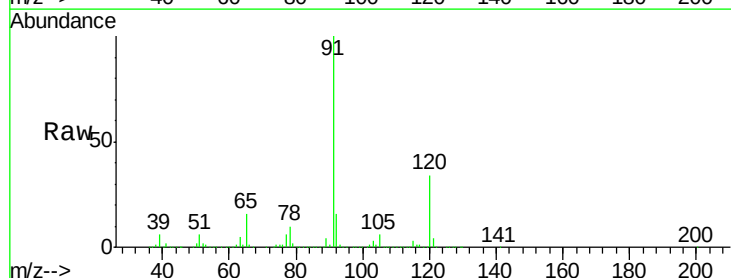
Acq: 23 Sep 2020 7:11

Tgt Ion: 120 Resp: 2980879

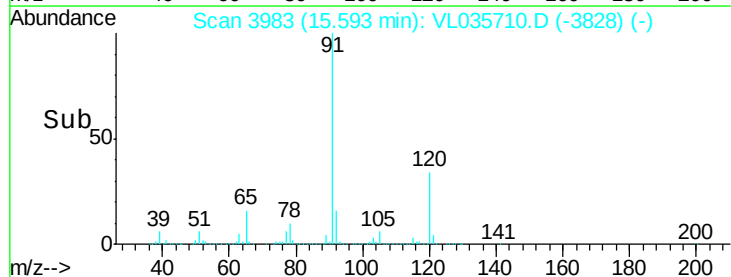
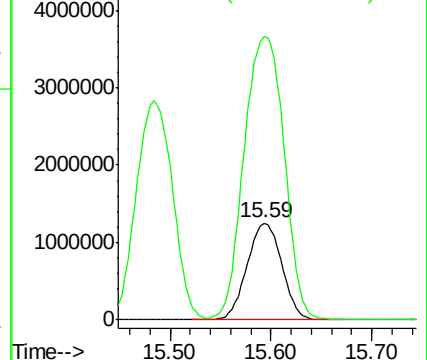
Ion Ratio Lower Upper

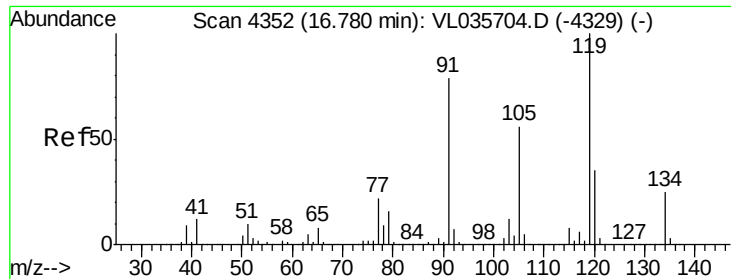
120 100

91 339.6 300.4 450.6



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





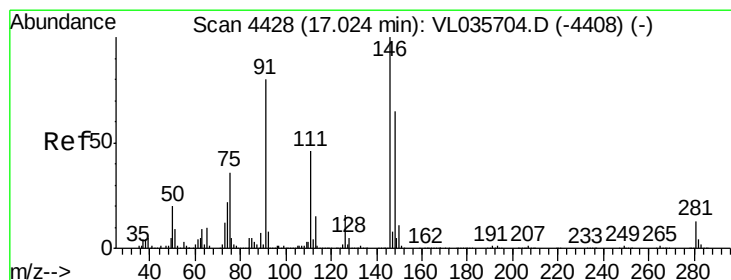
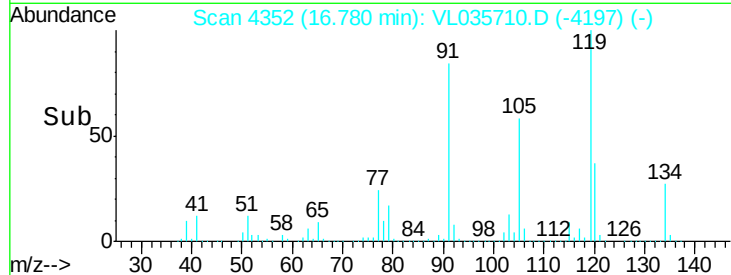
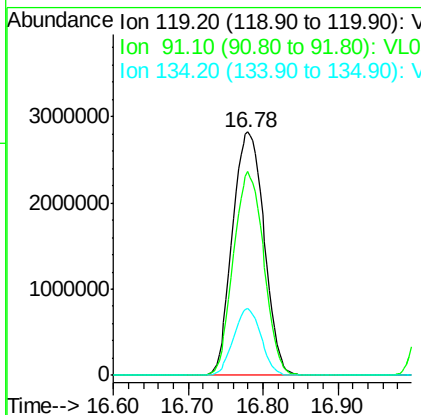
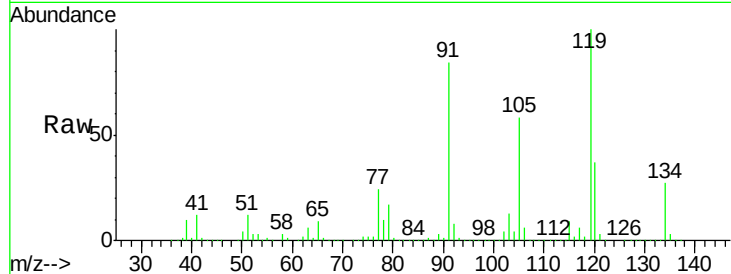
#65
 tert-Butylbenzene
 Concen: 12.466 ppbv
 RT: 16.78 min Scan# 4352
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:119 Resp: 8287798
 Ion Ratio Lower Upper
 119 100
 91 80.5 62.4 93.6
 134 23.9 18.2 27.2

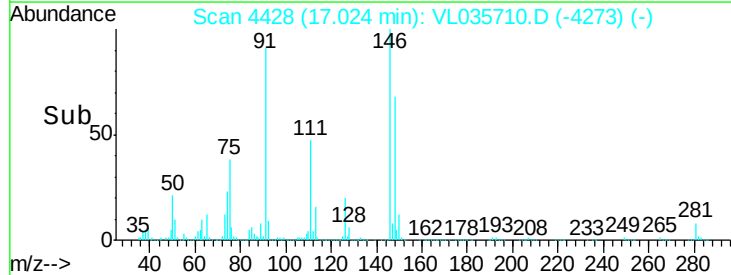
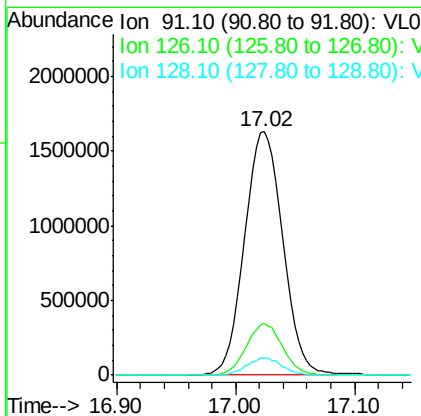
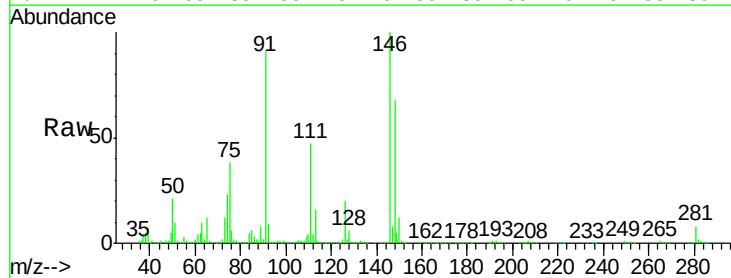
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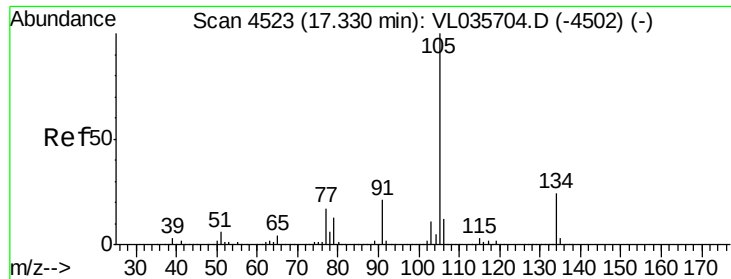
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#66
 Benzyl Chloride
 Concen: 21.285 ppbv
 RT: 17.02 min Scan# 4428
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Tgt Ion: 91 Resp: 3632821
 Ion Ratio Lower Upper
 91 100
 126 20.1 15.3 22.9
 128 6.6 5.0 7.4





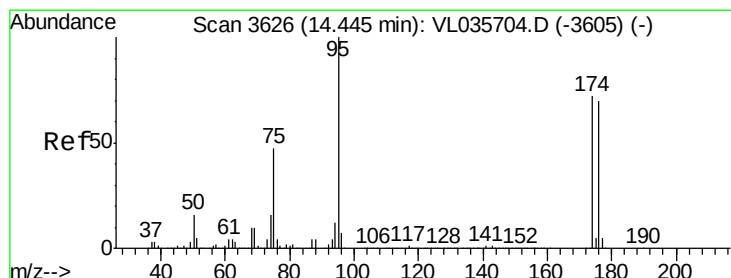
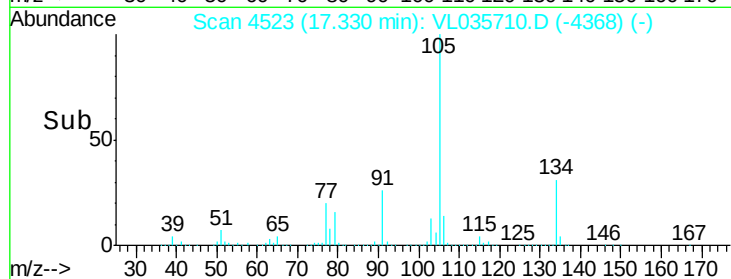
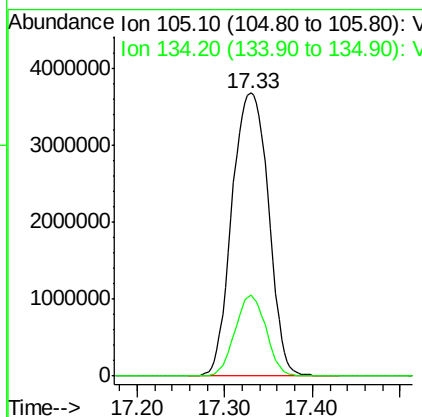
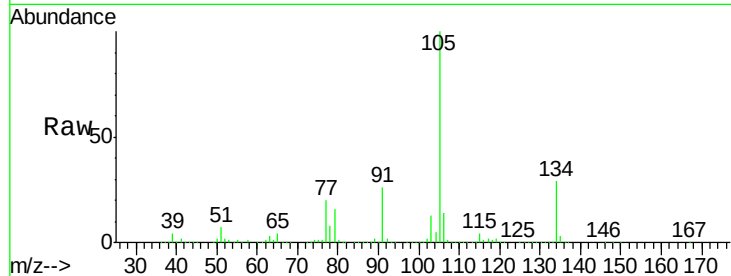
#67
 sec-Butylbenzene
 Concen: 11.950 ppbv
 RT: 17.33 min Scan# 4523
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:105 Resp:10647079
 Ion Ratio Lower Upper
 105 100
 134 24.3 17.6 26.4

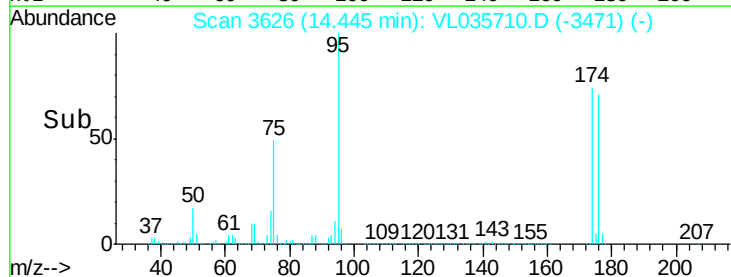
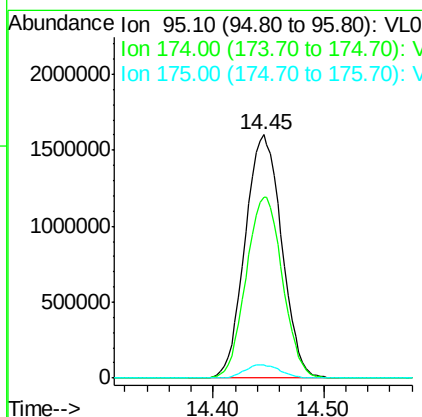
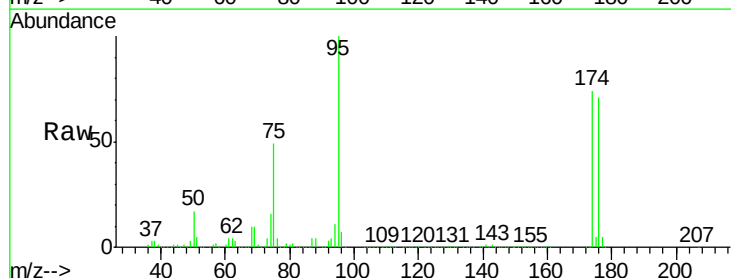
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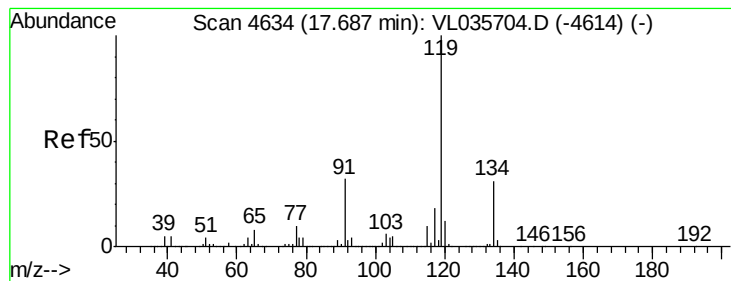
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.078 ppbv
 RT: 14.45 min Scan# 3626
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Tgt Ion: 95 Resp: 3676910
 Ion Ratio Lower Upper
 95 100
 174 74.4 59.6 89.4
 175 5.4 4.2 6.4





#69

p-Isopropyltoluene

Concen: 12.025 ppbv

RT: 17.69 min Scan# 4635

Delta R.T. 0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 119 Resp: 9313448

Ion Ratio Lower Upper

119 100

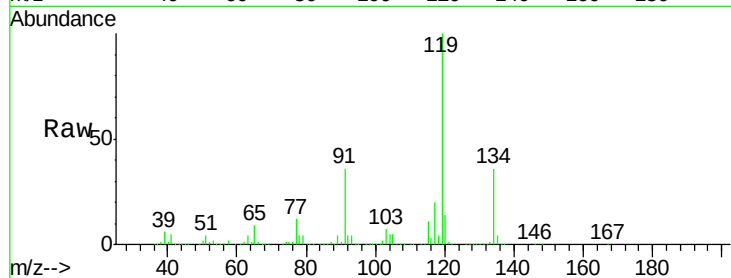
134 32.1 23.9 35.9

91 32.3 23.8 35.6

Manual Integrations
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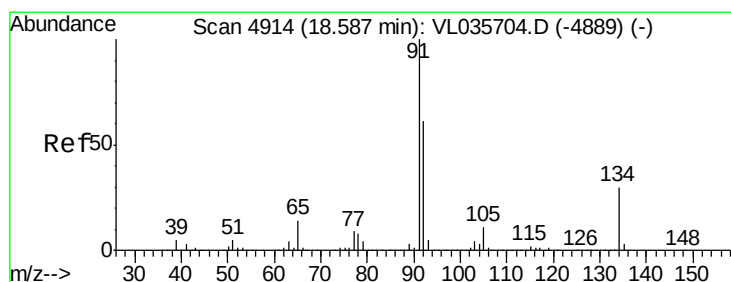
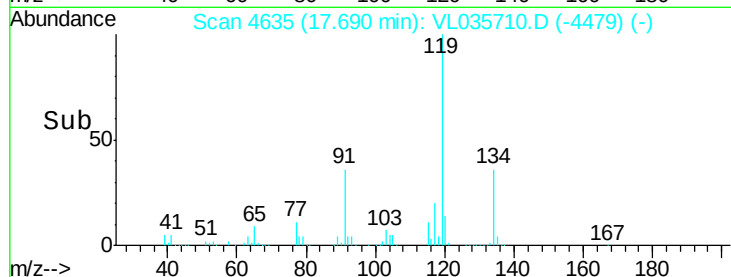
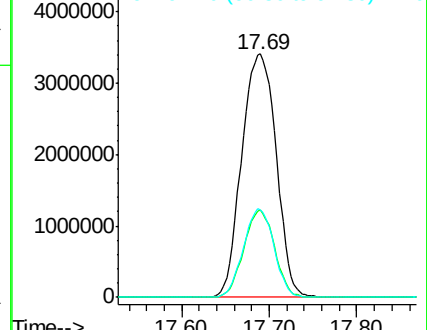
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Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 12.401 ppbv

RT: 18.59 min Scan# 4914

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

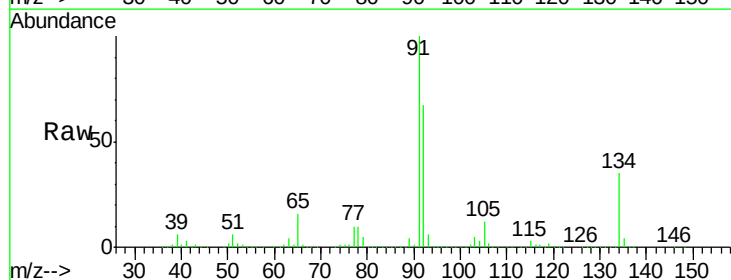
Tgt Ion: 91 Resp: 9339852

Ion Ratio Lower Upper

91 100

92 62.0 47.0 70.4

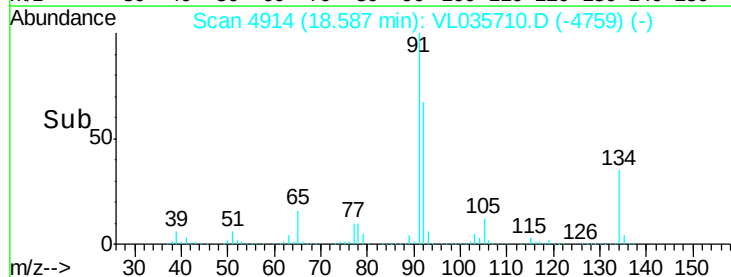
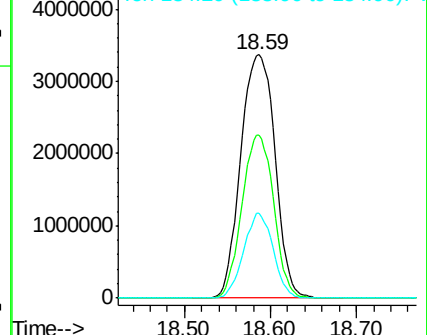
134 30.1 21.9 32.9

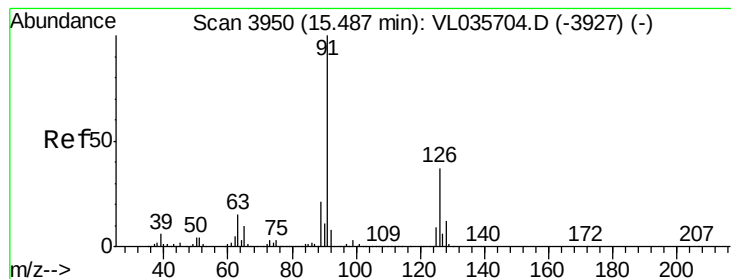


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





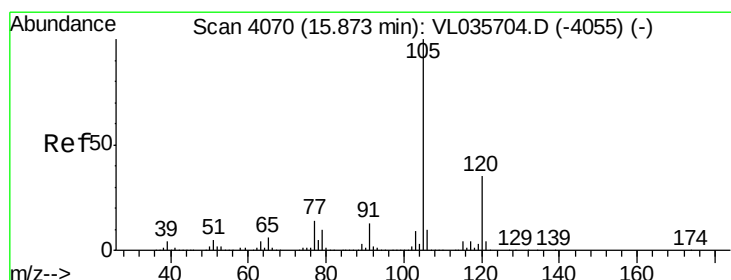
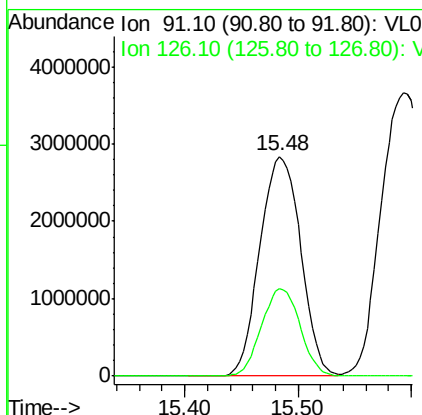
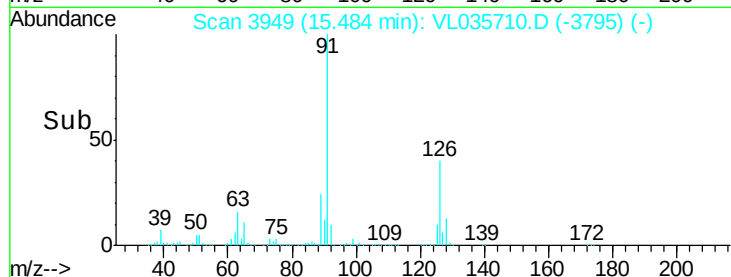
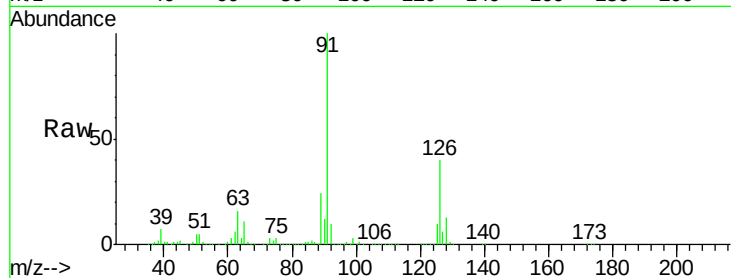
#71
 2-Chlorotoluene
 Concen: 13.561 ppbv
 RT: 15.48 min Scan# 3949
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 91 Resp: 7123294
 Ion Ratio Lower Upper
 91 100
 126 37.7 14.4 57.4

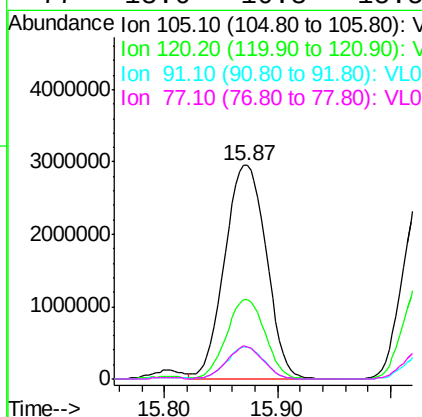
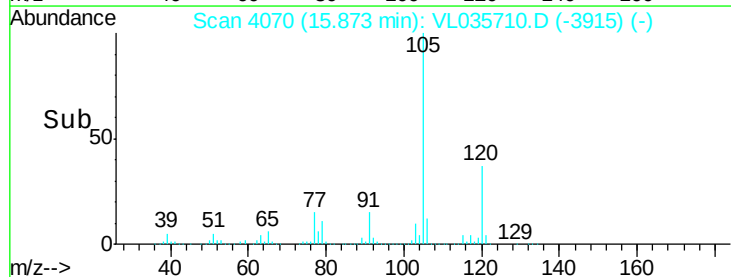
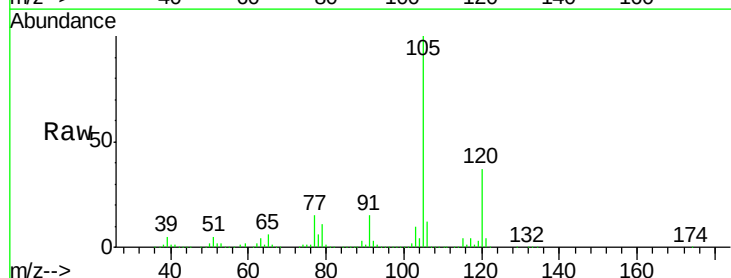
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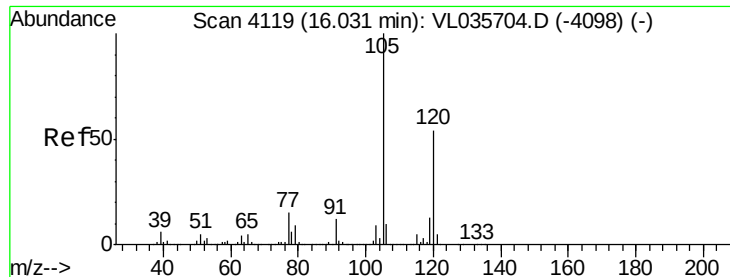
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#72
 4-Ethyltoluene
 Concen: 13.305 ppbv
 RT: 15.87 min Scan# 4070
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Tgt Ion: 105 Resp: 7549981
 Ion Ratio Lower Upper
 105 100
 120 34.8 26.5 39.7
 91 13.6 10.2 15.2
 77 13.6 10.3 15.5





#73

1,3,5-Trimethylbenzene

Concen: 13.439 ppbv

RT: 16.03 min Scan# 4119

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 7060708

Ion Ratio Lower Upper

105 100

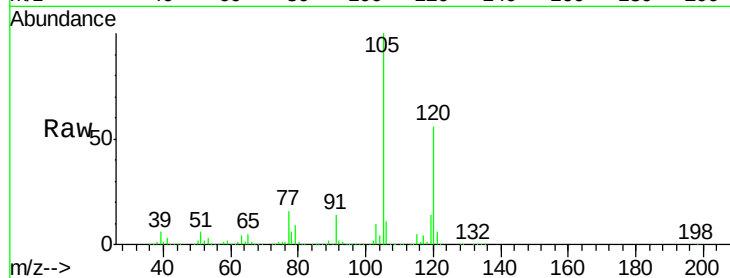
120 55.8 43.0 64.4

Manual Integrations

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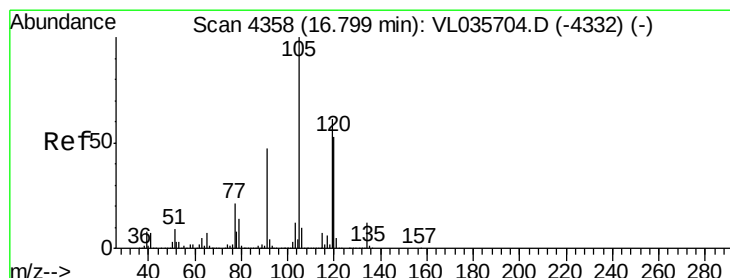
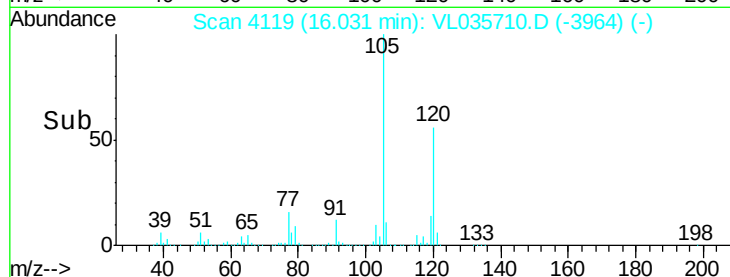
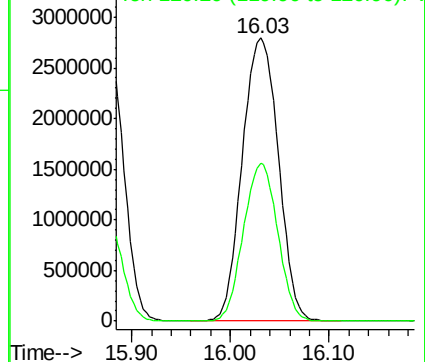
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 12.457 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Tgt Ion:105 Resp: 7194721

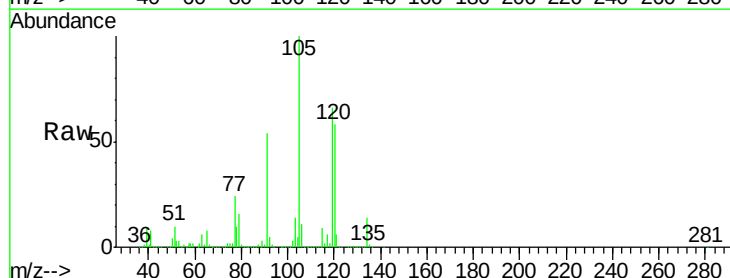
Ion Ratio Lower Upper

105 100

120 57.7 42.5 63.7

91 53.6 37.7 56.5

77 24.0 16.7 25.1

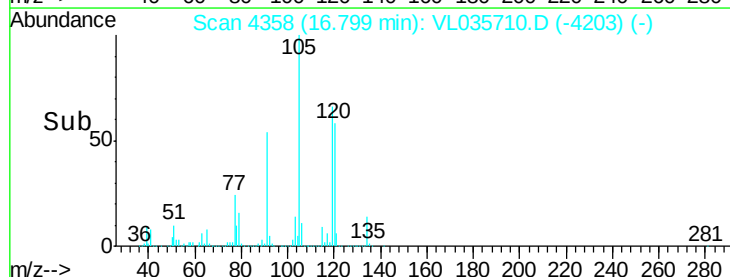
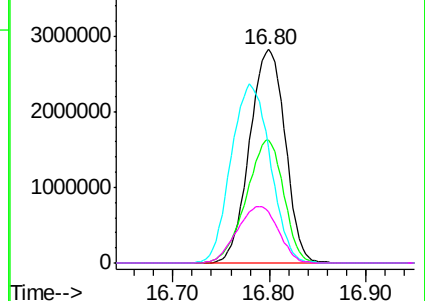


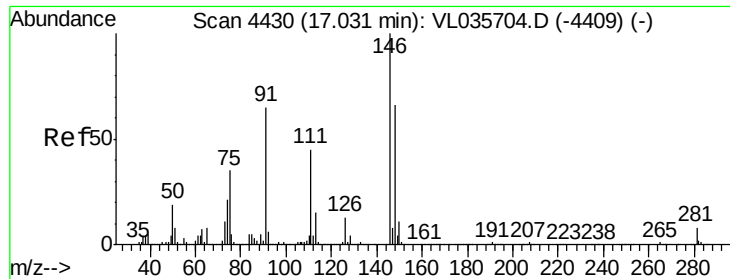
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





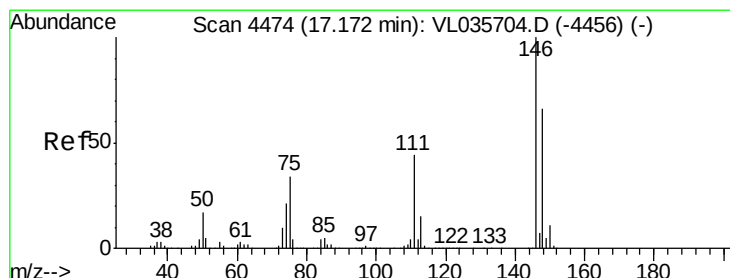
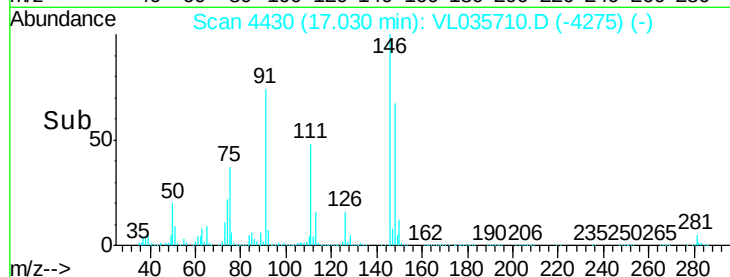
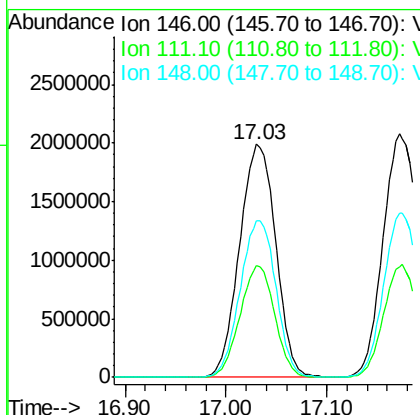
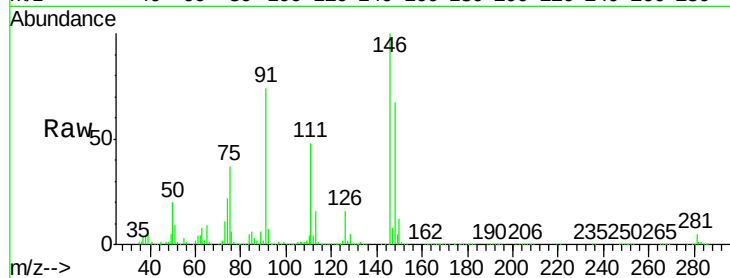
#75
 1,3-Dichlorobenzene
 Concen: 11.811 ppbv
 RT: 17.03 min Scan# 4430
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:146 Resp: 4953108
 Ion Ratio Lower Upper
 146 100
 111 45.8 22.4 67.0
 148 66.5 33.0 99.0

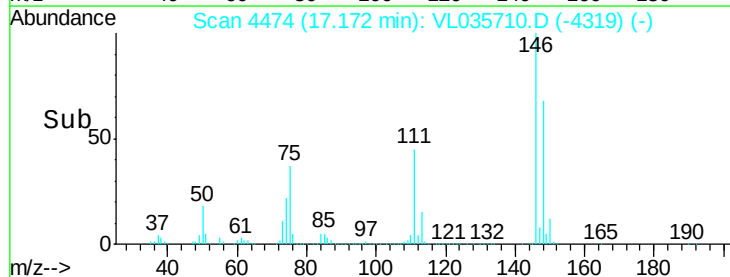
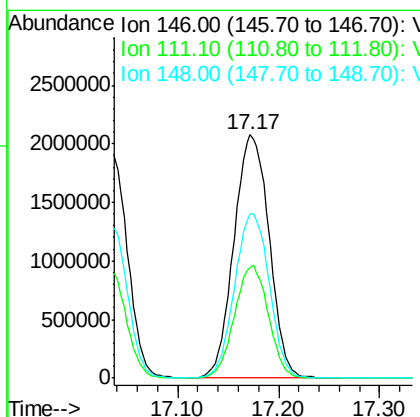
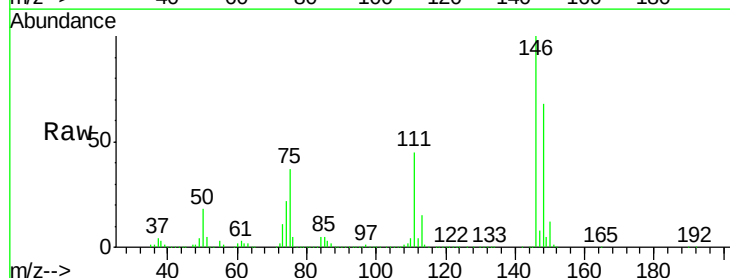
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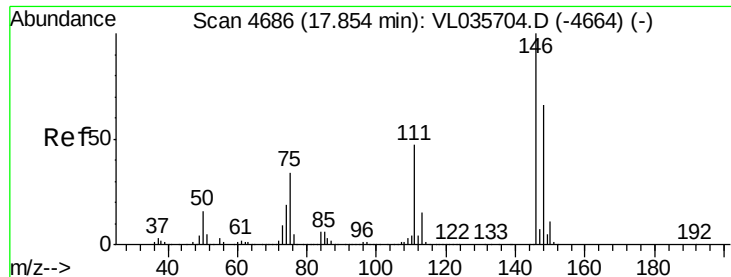
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#76
 1,4-Dichlorobenzene
 Concen: 12.162 ppbv
 RT: 17.17 min Scan# 4474
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Tgt Ion:146 Resp: 5030498
 Ion Ratio Lower Upper
 146 100
 111 44.5 21.4 64.3
 148 66.7 32.6 98.0





#77

1,2-Dichlorobenzene

Concen: 12.100 ppbv

RT: 17.85 min Scan# 4686

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

Instrument :

MSVOA_L

ClientSampleID :

VSTDIC015

Tot Ion:146 Resp: 4912787

Ion Ratio Lower Upper

146 100

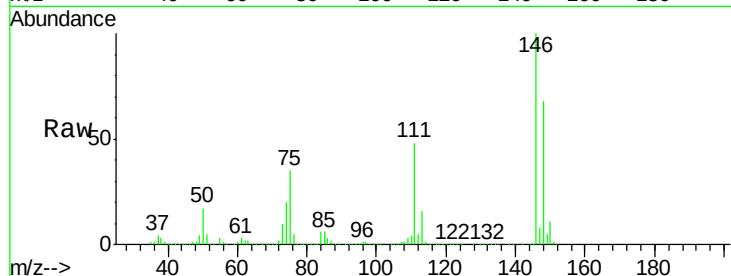
111 47.1 22.9 68.5

148 66.2 32.6 98.0

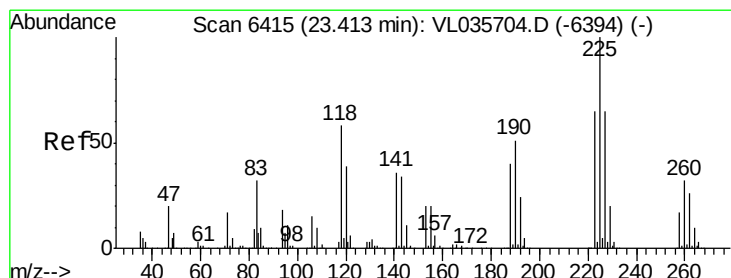
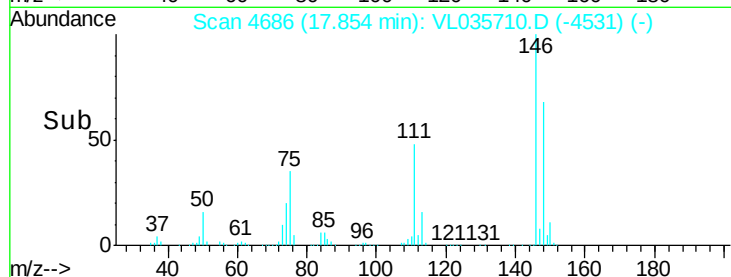
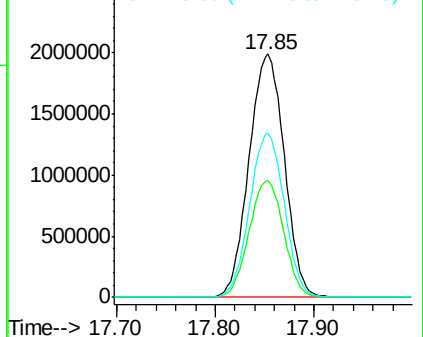
Manual Integrations
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 11.085 ppbv

RT: 23.41 min Scan# 6415

Delta R.T. -0.00 min

Lab File: VL035710.D

Acq: 23 Sep 2020 7:11

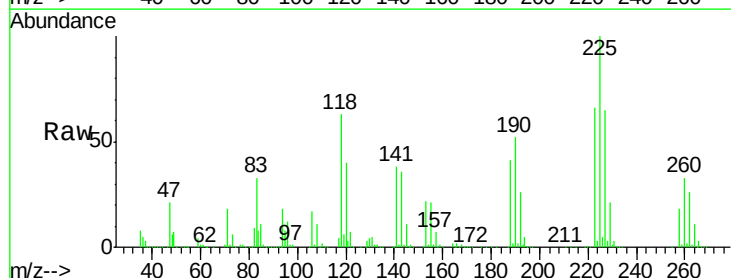
Tgt Ion:225 Resp: 2815855

Ion Ratio Lower Upper

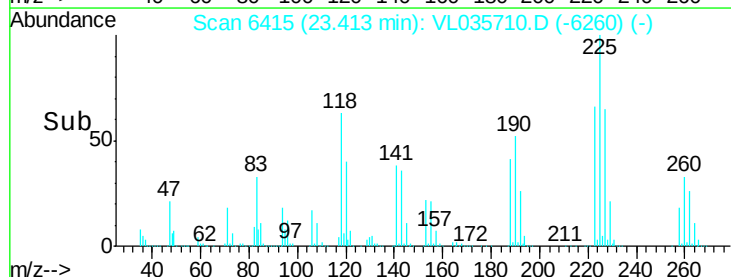
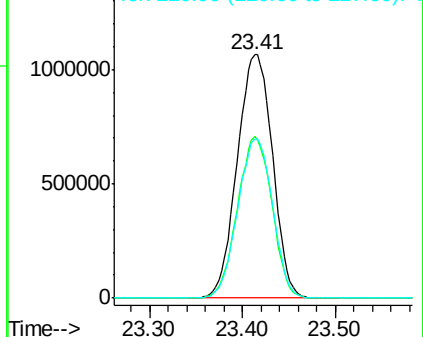
225 100

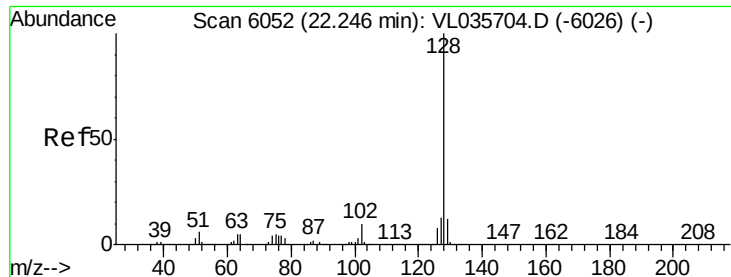
223 64.6 51.3 76.9

227 64.6 51.6 77.4



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





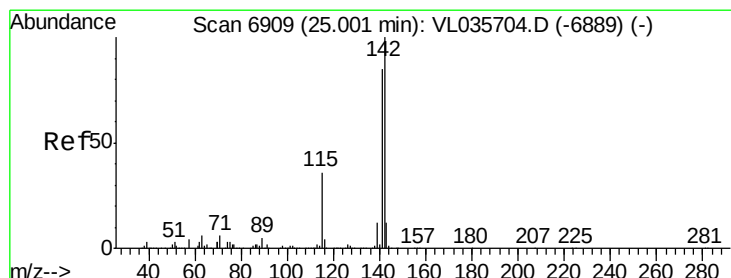
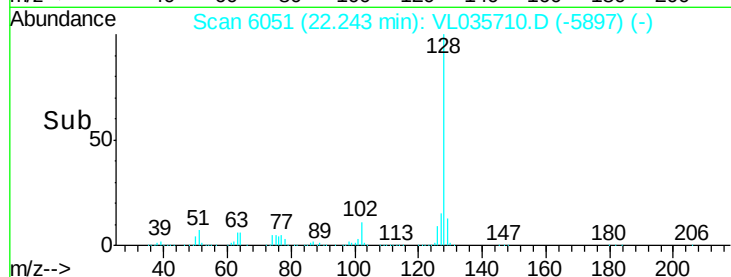
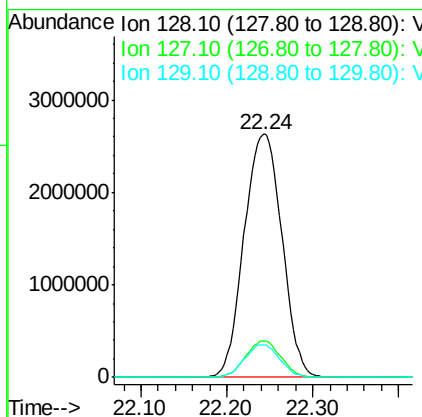
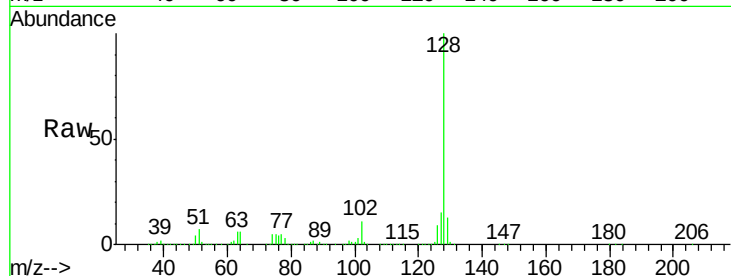
#79
Naphthalene
Concen: 12.984 ppbv
RT: 22.24 min Scan# 6051
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.7	10.6	15.8
129	13.3	9.4	14.0

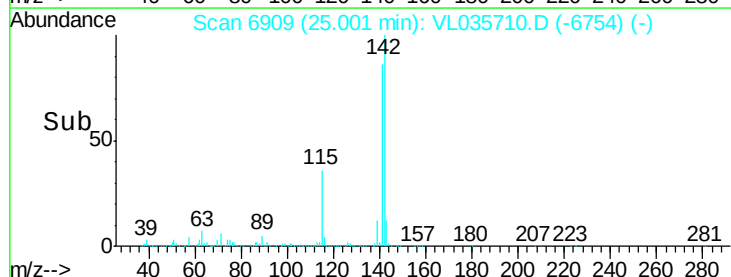
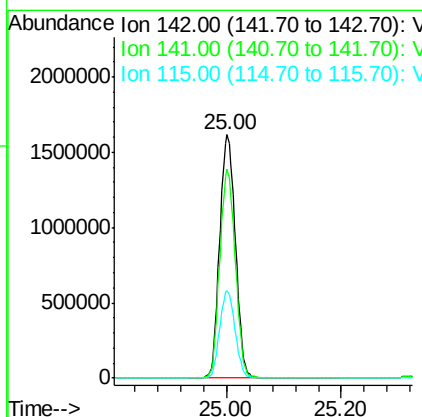
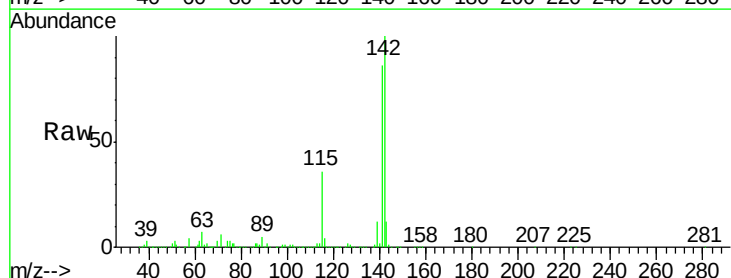
Manual Integrations
APPROVED

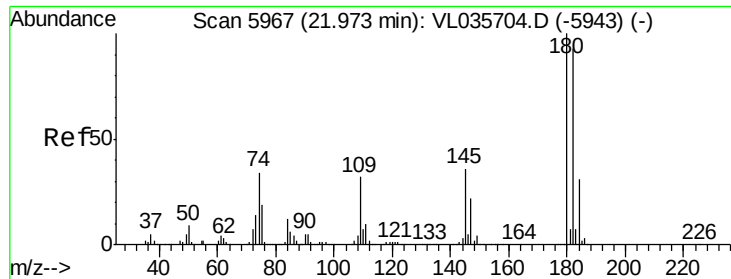
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9/24/2020 1:35:24 PM



#80
Naphthalene, 2-methyl-
Concen: 15.282 ppbv
RT: 25.00 min Scan# 6909
Delta R.T. -0.00 min
Lab File: VL035710.D
Acq: 23 Sep 2020 7:11

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.6	68.2	102.4
115	35.1	27.8	41.6





#81
 1,2,4-Trichlorobenzene
 Concen: 11.430 ppbv
 RT: 21.97 min Scan# 5967
 Delta R.T. -0.00 min
 Lab File: VL035710.D
 Acq: 23 Sep 2020 7:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.2	114.2
184	31.7	24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 9/24/2020 1:35:24 PM

