

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092320\
 Data File : VL035706.D
 Acq On : 23 Sep 2020 4:40
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 9/24/2020 1:35:15 PM

Quant Time: Sep 23 05:41:12 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	5.67	49	1250217	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4701722	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4662480	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	3531392	10.54	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.40%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	238013	1.100 ppbv	96
3) Chlorodifluoromethane	2.99	51	146866	1.075 ppbv	97
4) Chloromethane	3.14	50	79731	1.090 ppbv	99
5) Vinyl Chloride	3.25	62	88519	0.975 ppbv	98
6) Bromomethane	3.47	94	75917	1.006 ppbv	92
7) Chloroethane	3.56	64	32223	1.008 ppbv	95
8) Dichlorotetrafluoroethane	3.19	85	282284	1.089 ppbv	98
9) Propene	3.01	41	51109	0.972 ppbv	98
10) Heptane	8.14	43	139677	0.973 ppbv	99
11) Trichlorofluoromethane	3.95	101	323434	1.037 ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.49	101	236153	1.006 ppbv	98
13) Ethanol	3.61	45	12900m	0.988 ppbv	
14) Bromoethene	3.74	108	95942	0.956 ppbv	99
15) Acetone	3.85	43	150026	1.106 ppbv	90
16) 1,3-Butadiene	3.33	39	48325	0.946 ppbv	95
17) tert-Butyl alcohol	4.30	59	165239	1.011 ppbv	100
18) 1,1-Dichloroethene	4.29	96	100371	0.972 ppbv	96
19) Isopropyl Alcohol	3.97	45	81181	1.016 ppbv #	93
20) Methylene Chloride	4.35	84	114149	1.117 ppbv	98
21) Allyl Chloride	4.42	41	66148	1.030 ppbv	98
22) trans-1,2-Dichloroethene	4.89	96	104754	0.951 ppbv	99
23) Vinyl Acetate	5.08	43	167894	0.960 ppbv #	95
24) 1,1-Dichloroethane	5.02	63	190563	1.052 ppbv	99
25) Ethyl Acetate	5.69	43	259054	1.060 ppbv	99
26) Hexane	5.70	57	139869	1.013 ppbv	95
27) Carbon Disulfide	4.56	76	193935	0.985 ppbv	99
28) Methyl tert-Butyl Ether	5.05	73	217409	0.926 ppbv	99
29) Chloroform	5.76	83	288373	1.034 ppbv	98
30) Cyclohexane	7.14	84	126238	0.868 ppbv	94
31) cis-1,2-Dichloroethene	5.56	61	127663	0.912 ppbv	92
32) 1,1,1-Trichloroethane	6.52	97	252209	0.935 ppbv	99
34) 2-Butanone	5.26	43	161574	1.129 ppbv	100
35) Carbon Tetrachloride	7.03	117	256273	1.079 ppbv	98
36) Benzene	6.90	78	315195	1.025 ppbv	98
37) 1,2-Dichloroethane	6.32	62	169845	1.147 ppbv	99
38) Trichloroethene	7.85	130	162373	0.919 ppbv	94
39) 1,2-Dichloropropane	7.62	63	116045	1.109 ppbv	99
40) 1,4-Dioxane	7.87	88	54912	1.077 ppbv	84
41) Tetrahydrofuran	6.07	42	74103	0.978 ppbv	97
42) Bromodichloromethane	7.80	83	262375	1.099 ppbv	98
43) Methyl Methacrylate	8.03	69	115885	0.967 ppbv	97

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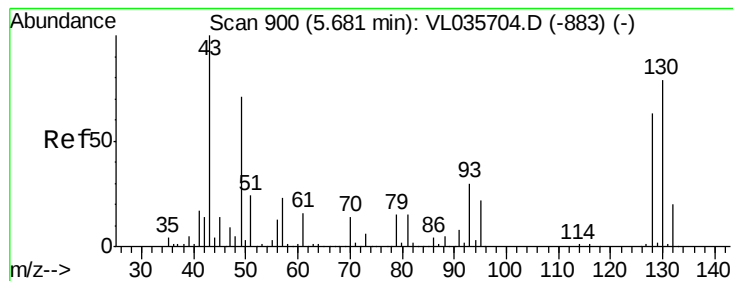
Manual Integrations
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 9/24/2020 1:35:15 PM

Quant Time: Sep 23 05:41:12 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	7.88	57	485633	1.184	ppbv	98
45) t-1,3-Dichloropropene	9.29	75	102452	0.846	ppbv	99
46) cis-1,3-Dichloropropene	8.72	75	134186	0.892	ppbv	96
47) 1,1,2-Trichloroethane	9.49	97	166908	1.090	ppbv	98
48) Dibromochloromethane	10.32	129	237315	0.993	ppbv	99
49) Bromoform	13.06	173	193981	0.911	ppbv	97
50) 4-Methyl-2-Pentanone	8.77	43	236009	1.135	ppbv	97
51) 2-Hexanone	10.17	43	180362	1.061	ppbv #	94
52) Tetrachloroethene	11.24	164	148679m	0.849	ppbv	
53) Toluene	9.83	91	357125	0.926	ppbv	97
54) 1,2-Dibromoethane	10.63	107	243668	1.011	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.15	131	207703	1.084	ppbv #	1
57) Chlorobenzene	12.17	112	394592	1.135	ppbv	94
58) Ethyl Benzene	12.73	91	486356	0.993	ppbv	94
59) m/p-Xylene	13.02	91	887523m	2.155	ppbv	
60) o-Xylene	13.72	91	444545	1.073	ppbv	98
61) Styrene	13.55	104	277165	0.886	ppbv	98
62) Isopropylbenzene	14.69	105	706547	1.071	ppbv	94
63) 1,1,2,2-Tetrachloroethane	13.70	83	371542	1.159	ppbv	98
64) n-propylbenzene	15.59	120	196453	0.984	ppbv	69
65) tert-Butylbenzene	16.78	119	645633	1.058	ppbv	96
66) Benzyl Chloride	17.02	91	144675	0.923	ppbv	96
67) sec-Butylbenzene	17.33	105	907902	1.110	ppbv	93
69) p-Isopropyltoluene	17.68	119	718084	1.010	ppbv	94
70) n-Butylbenzene	18.58	91	741240	1.072	ppbv	93
71) 2-Chlorotoluene	15.48	91	491381	1.019	ppbv	97
72) 4-Ethyltoluene	15.87	105	517334	0.993	ppbv	97
73) 1,3,5-Trimethylbenzene	16.03	105	491025	1.018	ppbv	89
74) 1,2,4-Trimethylbenzene	16.79	105	582441	1.098	ppbv	93
75) 1,3-Dichlorobenzene	17.02	146	396734	1.030	ppbv	97
76) 1,4-Dichlorobenzene	17.17	146	361182	0.951	ppbv	99
77) 1,2-Dichlorobenzene	17.85	146	361937	0.971	ppbv	100
78) Hexachloro-1,3-Butadiene	23.41	225	194246	0.833	ppbv	99
79) Naphthalene	22.25	128	501848	0.881	ppbv	98
80) Naphthalene, 2-methyl-	25.00	142	66140	0.357	ppbv	97
81) 1,2,4-Trichlorobenzene	21.97	180	261769	0.784	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 49 Resp: 1250217

Ion Ratio Lower Upper

49 100

128 84.6 43.1 129.4

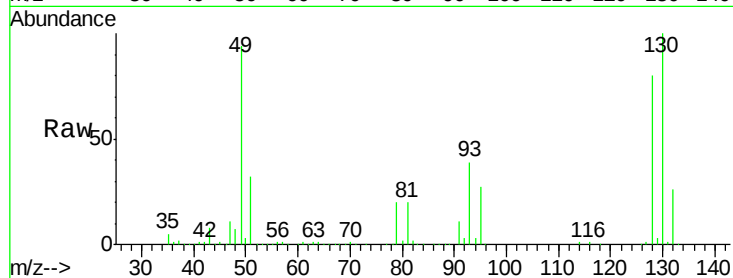
130 108.2 54.9 164.7

Manual Integrations

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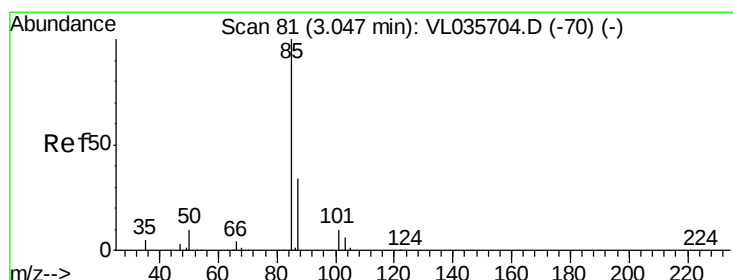
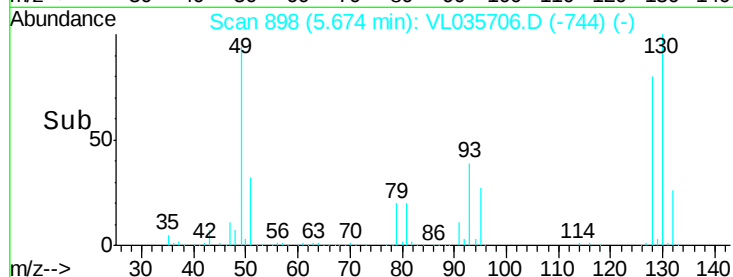
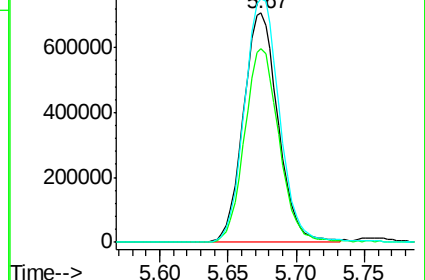
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 1.100 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL035706.D

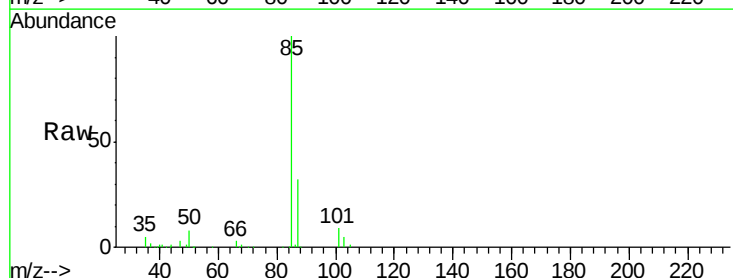
Acq: 23 Sep 2020 4:40

Tgt Ion: 85 Resp: 238013

Ion Ratio Lower Upper

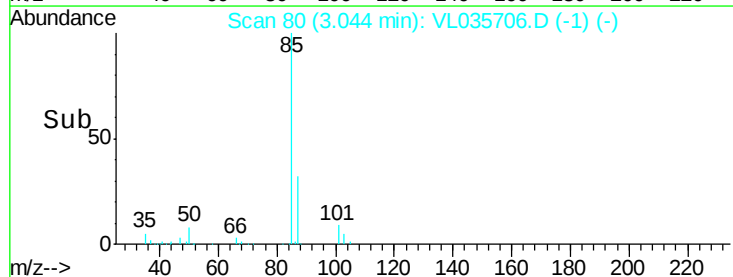
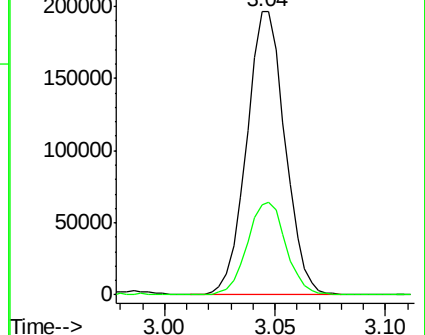
85 100

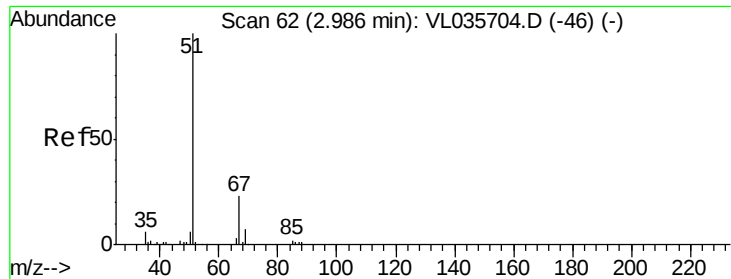
87 31.7 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.075 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Tot Ion: 51 Resp: 146866

Ion Ratio Lower Upper

51 100

67 21.0 17.8 26.8

Instrument :

MSVOA_L

ClientSampleId :

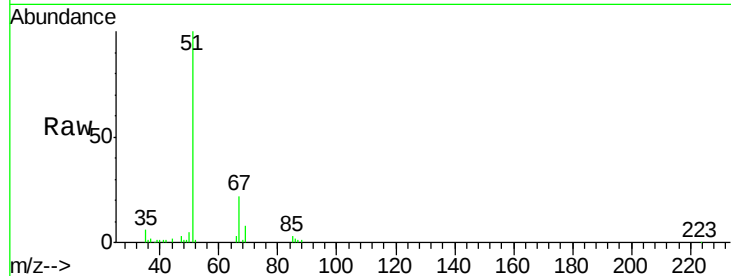
VSTDIC001

Manual Integrations

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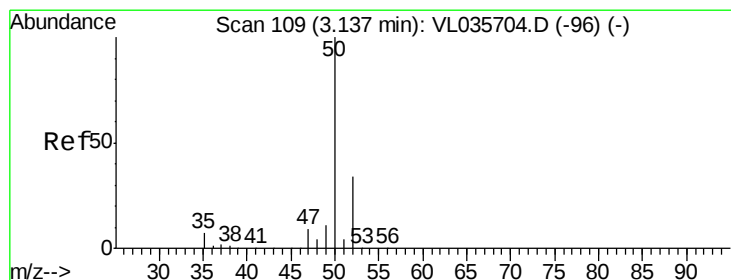
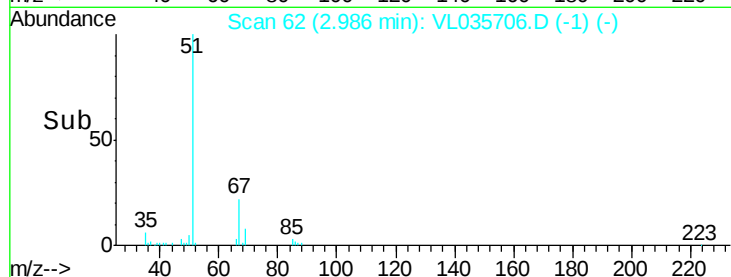
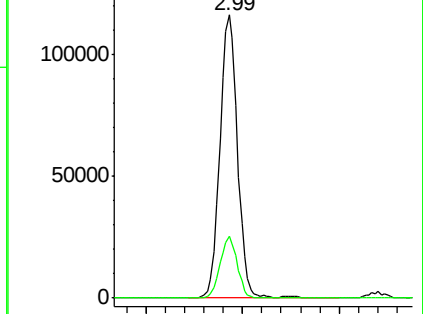
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.090 ppbv

RT: 3.14 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL035706.D

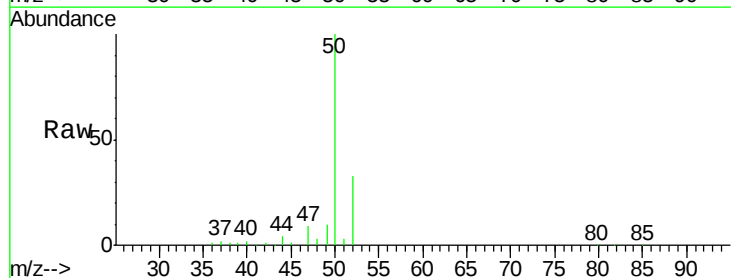
Acq: 23 Sep 2020 4:40

Tgt Ion: 50 Resp: 79731

Ion Ratio Lower Upper

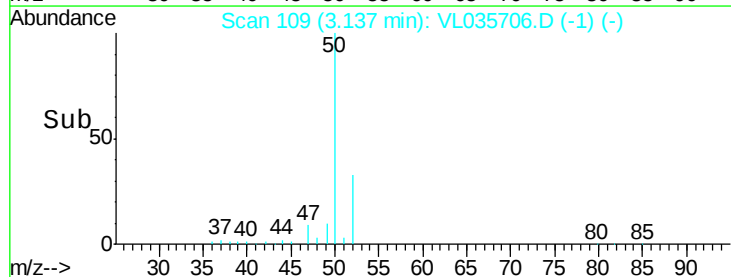
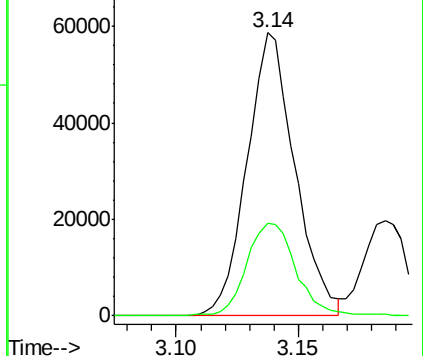
50 100

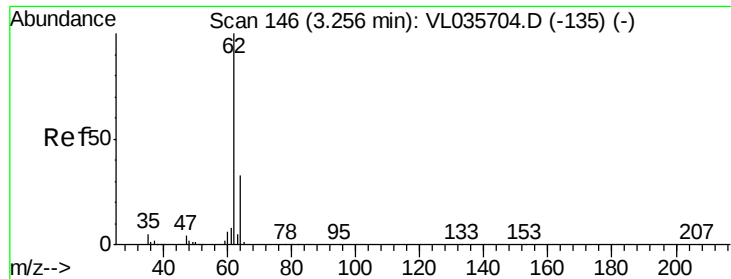
52 32.7 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.975 ppbv

RT: 3.25 min Scan# 145

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 88519

Ion Ratio Lower Upper

62 100

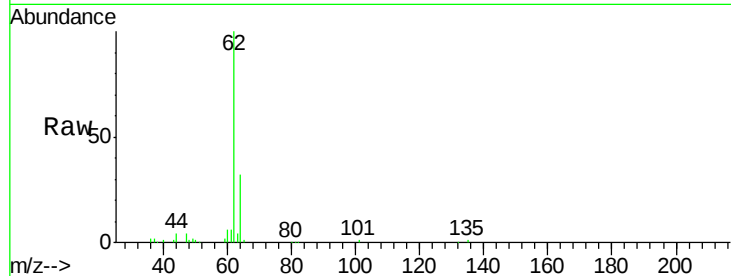
64 32.2 26.8 40.2

Manual Integrations

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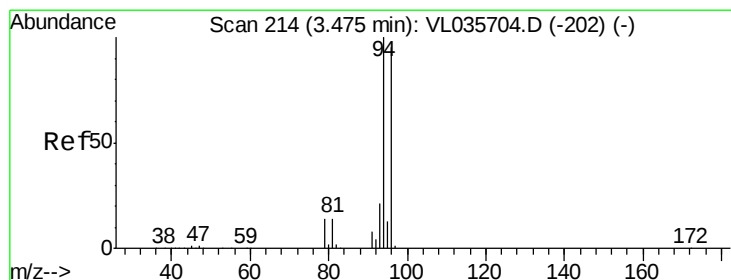
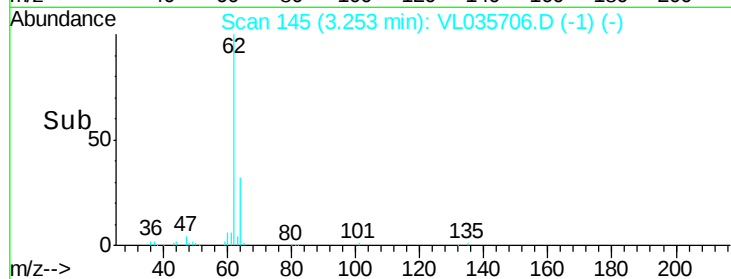
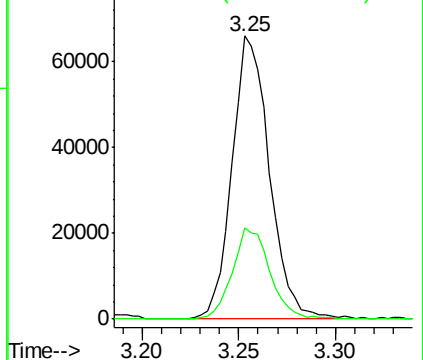
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 1.006 ppbv

RT: 3.47 min Scan# 213

Delta R.T. -0.00 min

Lab File: VL035706.D

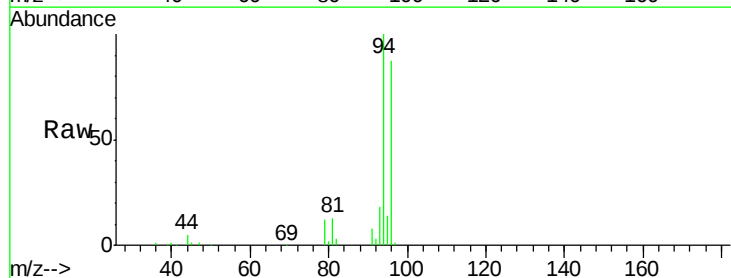
Acq: 23 Sep 2020 4:40

Tgt Ion: 94 Resp: 75917

Ion Ratio Lower Upper

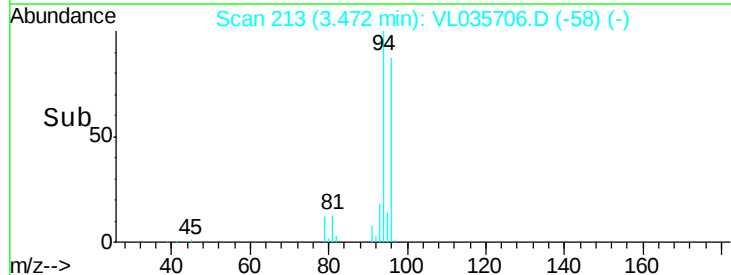
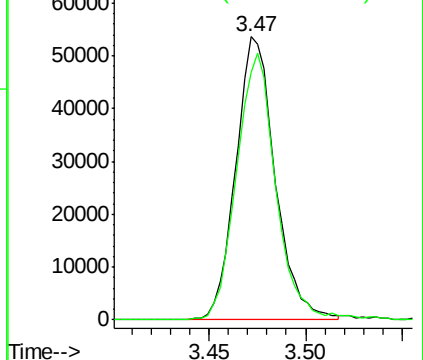
94 100

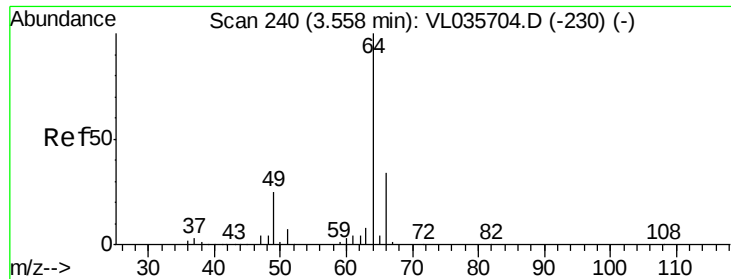
96 87.3 76.3 114.5



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 1.008 ppbv

RT: 3.56 min Scan# 240

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 32223

Ion Ratio Lower Upper

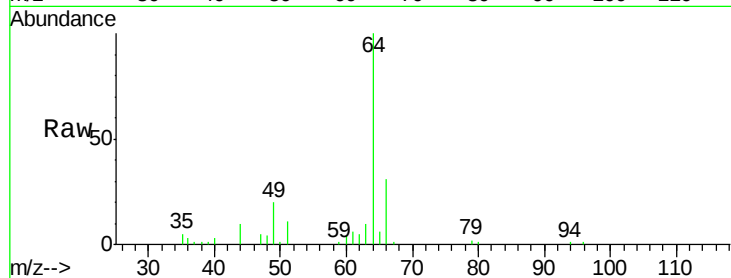
64 100

66 31.0 26.9 40.3

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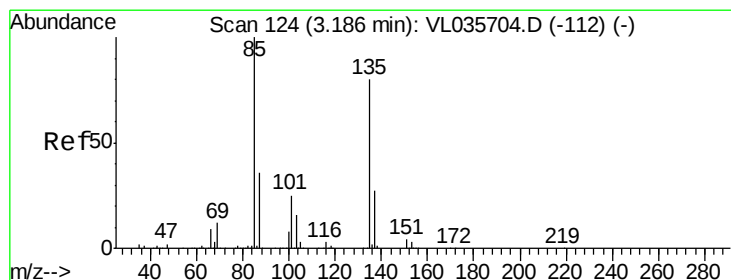
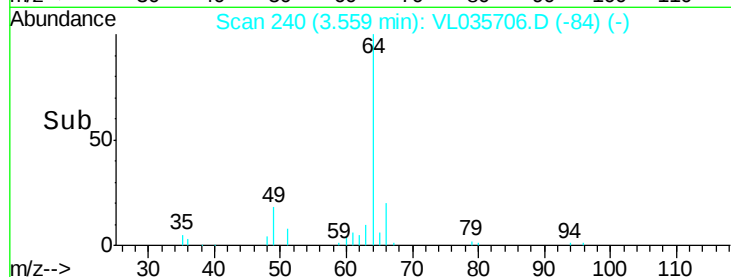
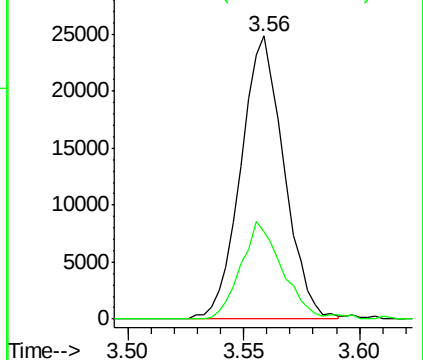
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 1.089 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.00 min

Lab File: VL035706.D

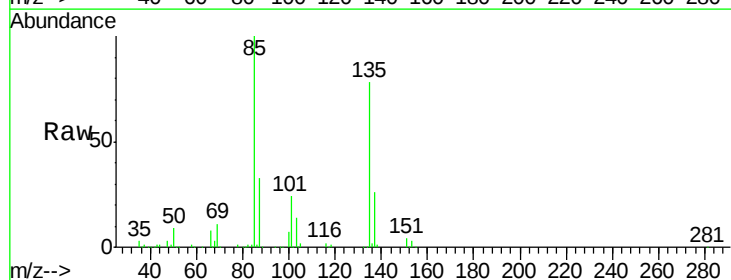
Acq: 23 Sep 2020 4:40

Tgt Ion: 85 Resp: 282284

Ion Ratio Lower Upper

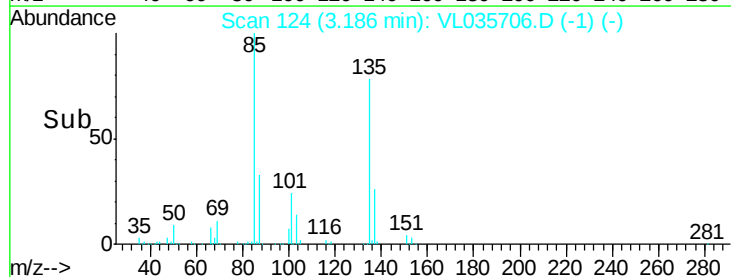
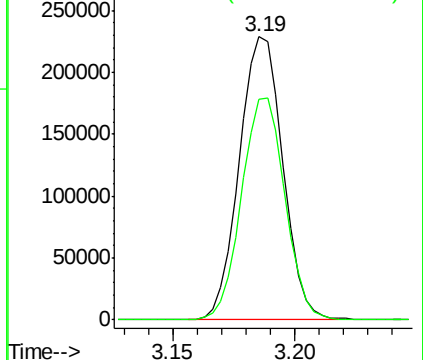
85 100

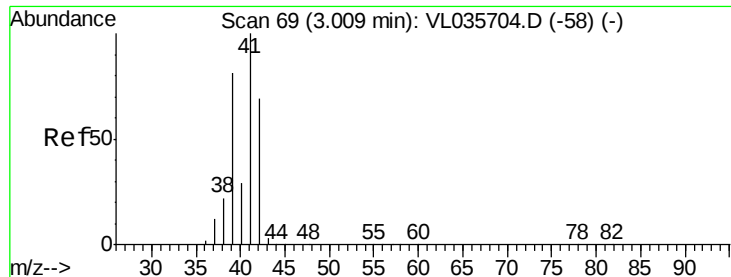
135 78.6 64.3 96.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.972 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 51109

Ion Ratio Lower Upper

41 100

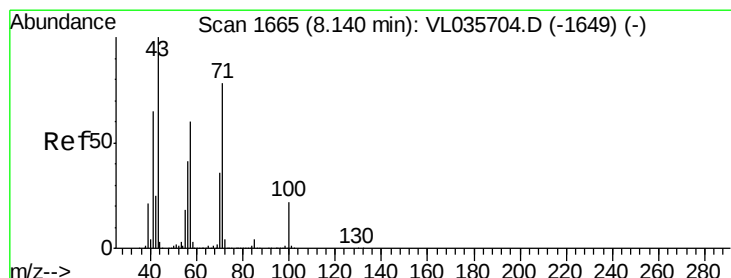
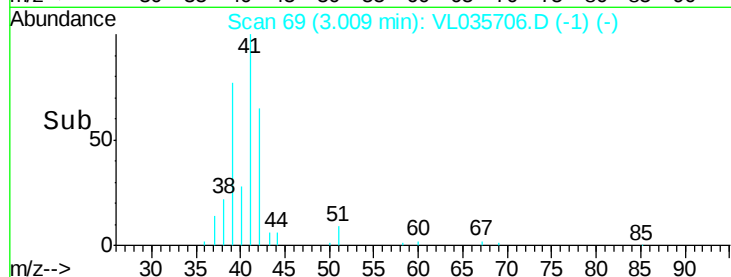
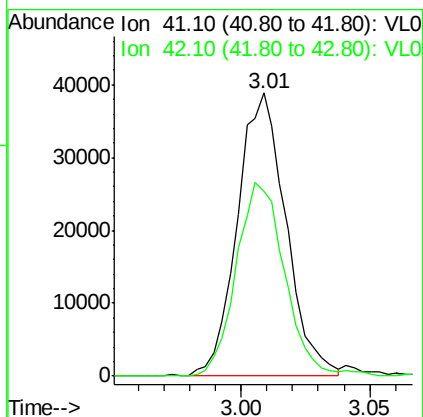
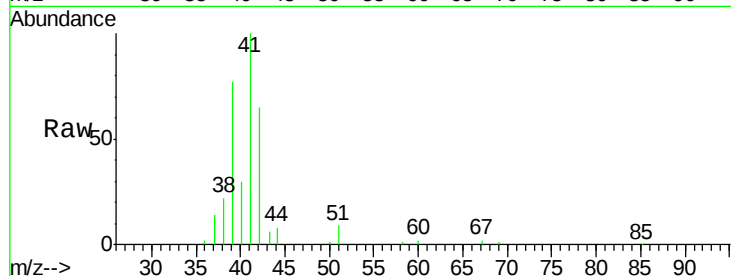
42 68.9 56.2 84.4

Manual Integrations

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#10

Heptane

Concen: 0.973 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.00 min

Lab File: VL035706.D

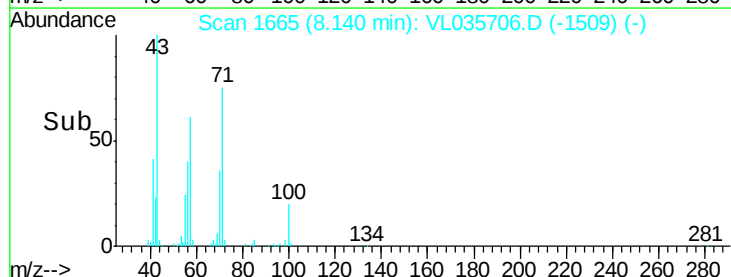
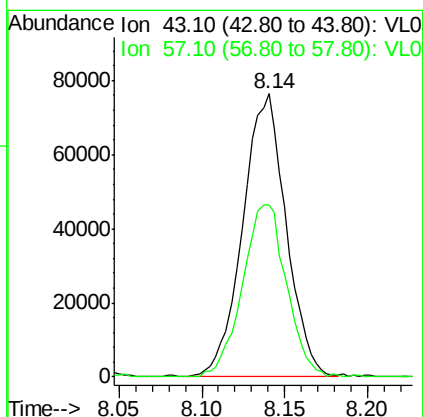
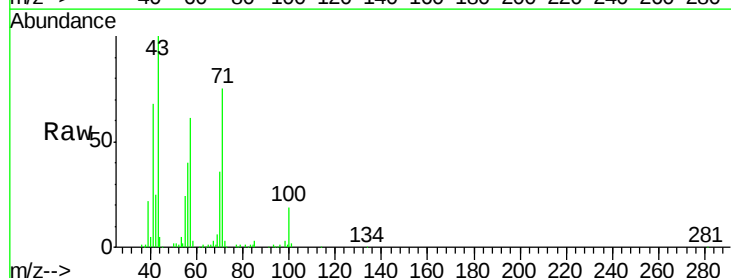
Acq: 23 Sep 2020 4:40

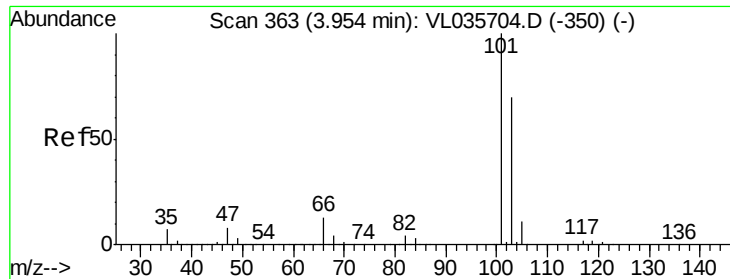
Tgt Ion: 43 Resp: 139677

Ion Ratio Lower Upper

43 100

57 61.9 50.4 75.6





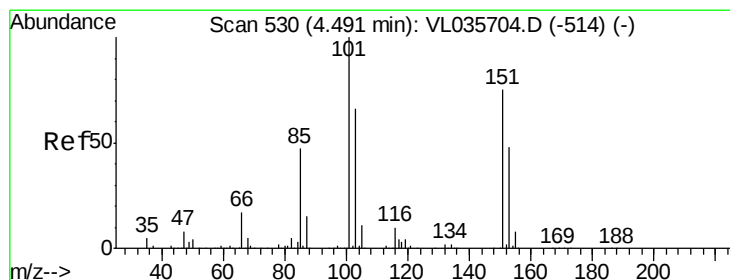
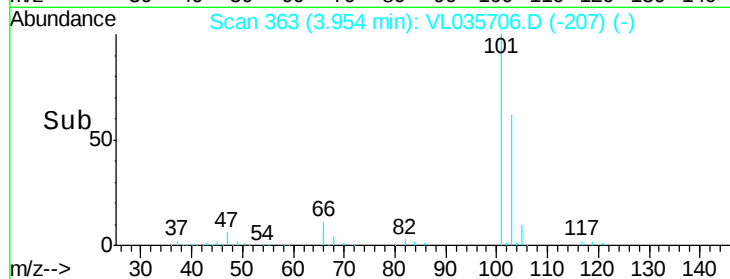
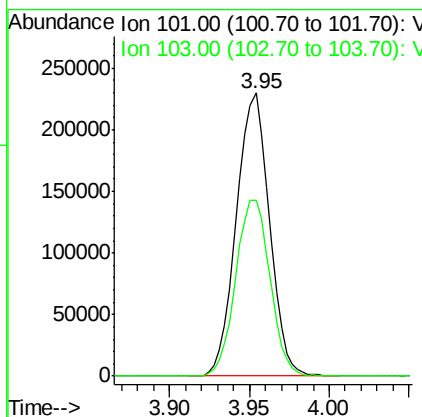
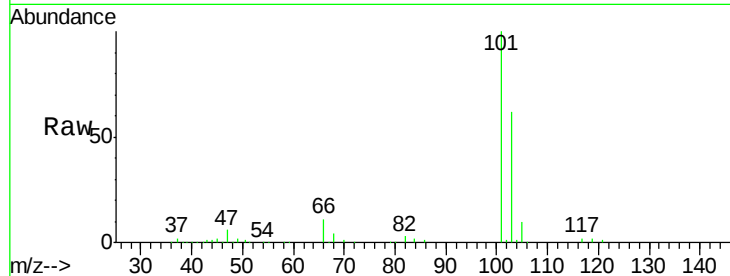
#11
 Trichlorofluoromethane
 Concen: 1.037 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. 0.00 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	101	100	323434		
103	103	62.2		55.6	83.4

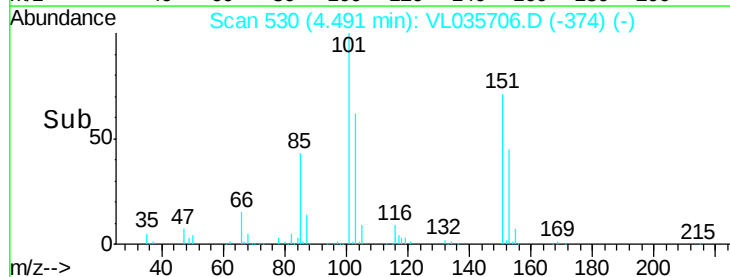
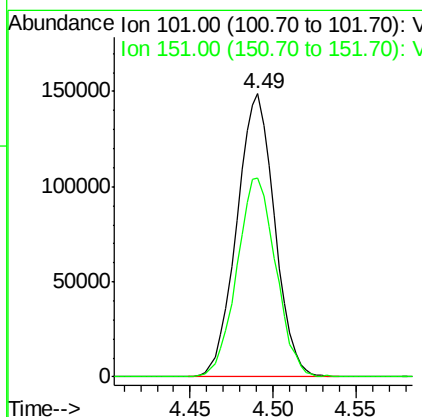
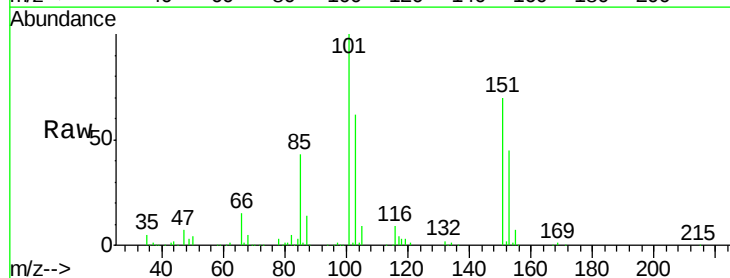
Manual Integrations
 APPROVED

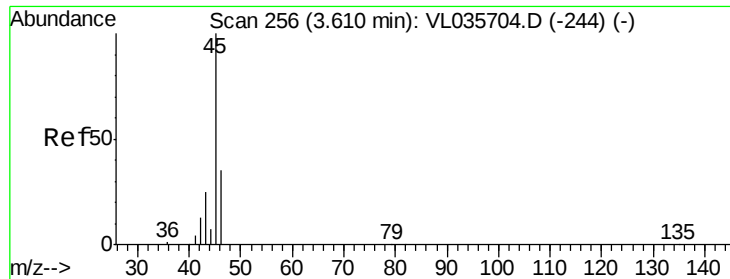
MMDadoda
 9/24/2020 1:35:15 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.006 ppbv
 RT: 4.49 min Scan# 530
 Delta R.T. 0.00 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
101	101	100	236153		
151	151	72.5		59.1	88.7





#13

Ethanol

Concen: 0.988 ppbv m

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 12900

Ion Ratio Lower Upper

45 100

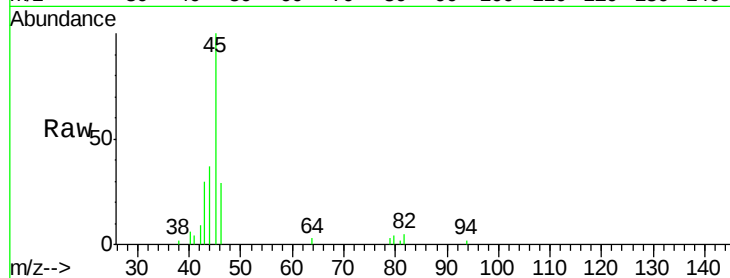
46 39.1 14.7 58.7

Manual Integrations

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MMDadoda

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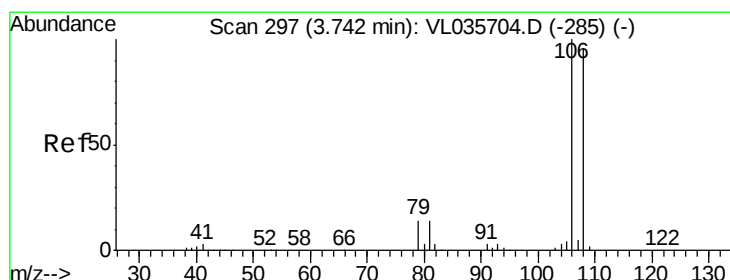
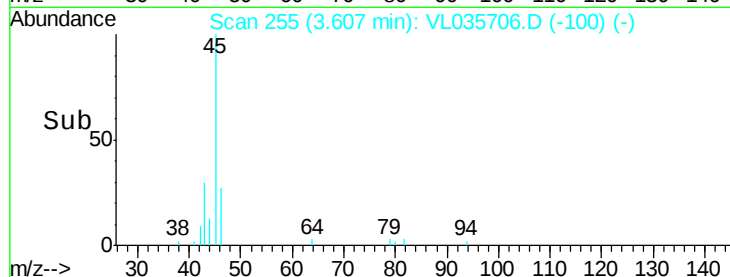


Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.61

Time-->



#14

Bromoethene

Concen: 0.956 ppbv

RT: 3.74 min Scan# 297

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

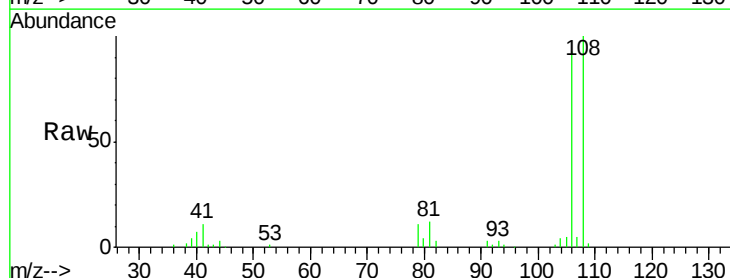
Tgt Ion: 108 Resp: 95942

Ion Ratio Lower Upper

108 100

106 104.6 84.6 126.8

79 15.3 11.6 17.4



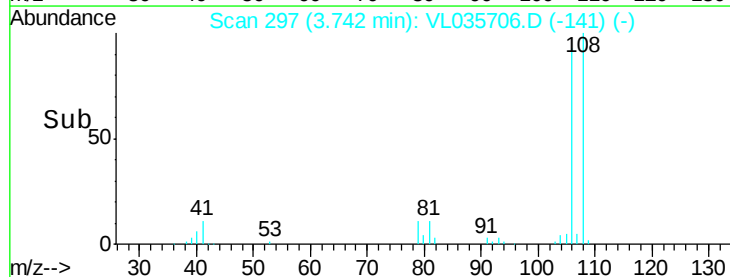
Abundance Ion 108.00 (107.70 to 108.70): V

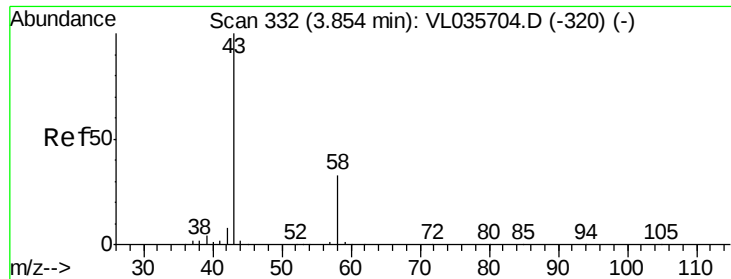
Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0

3.74

Time-->





#15

Acetone

Concen: 1.106 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 150026

Ion Ratio Lower Upper

43 100

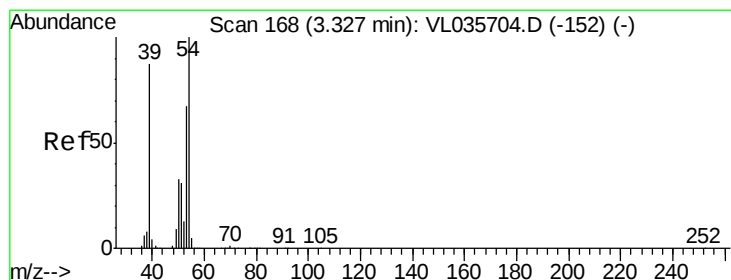
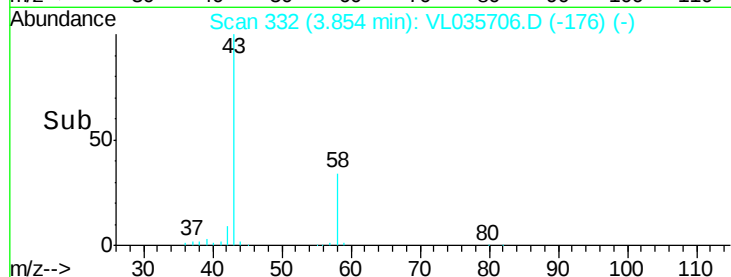
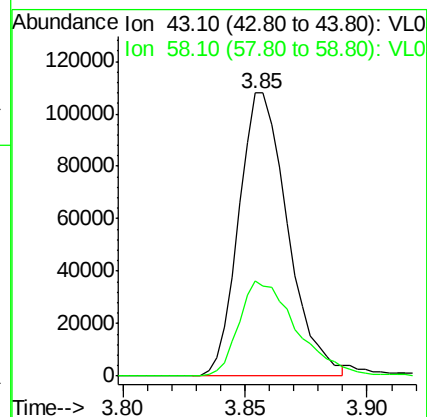
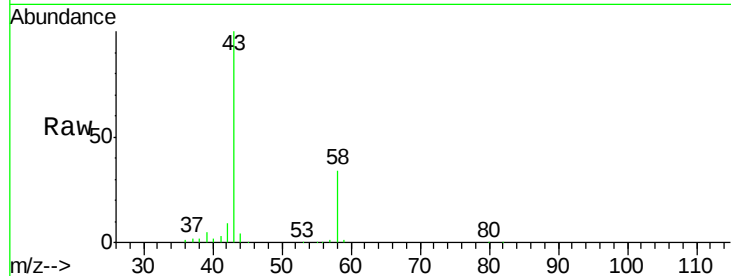
58 39.9 27.3 40.9

Manual Integrations

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#16

1,3-Butadiene

Concen: 0.946 ppbv

RT: 3.33 min Scan# 168

Delta R.T. 0.00 min

Lab File: VL035706.D

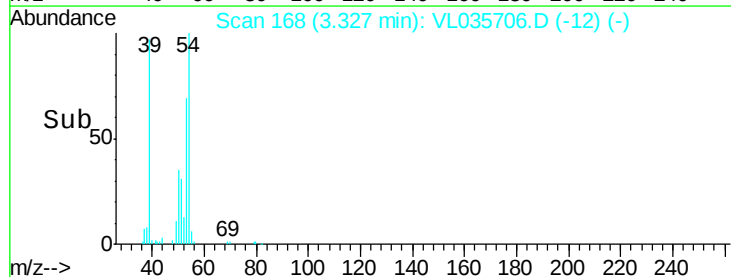
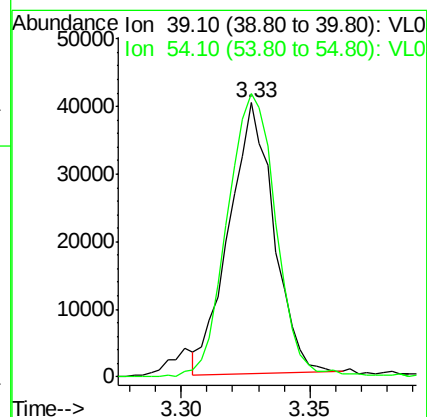
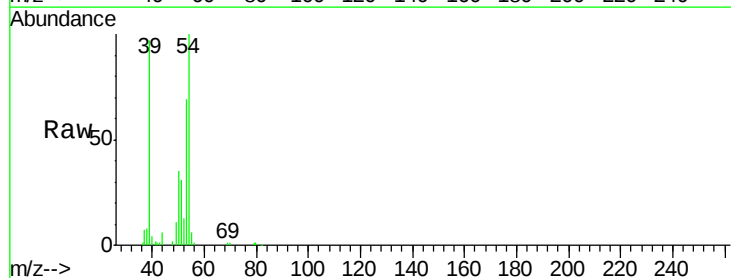
Acq: 23 Sep 2020 4:40

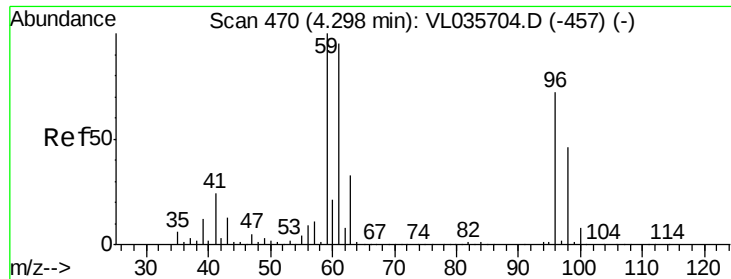
Tgt Ion: 39 Resp: 48325

Ion Ratio Lower Upper

39 100

54 114.4 87.4 131.0





#17

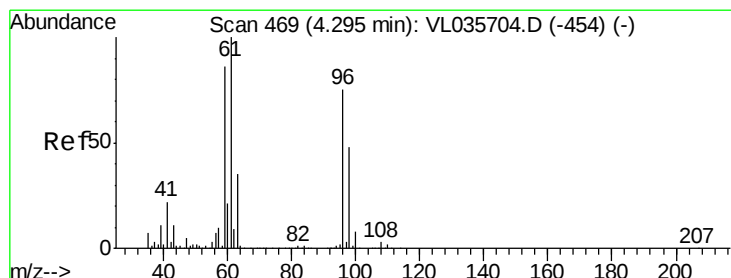
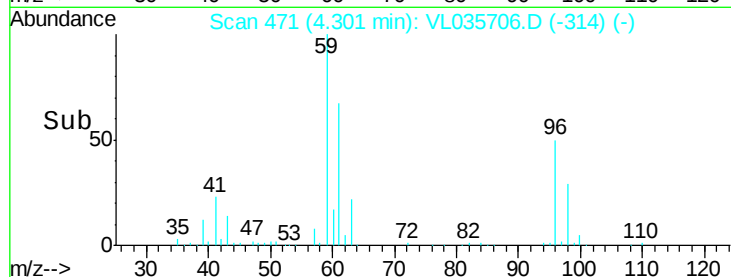
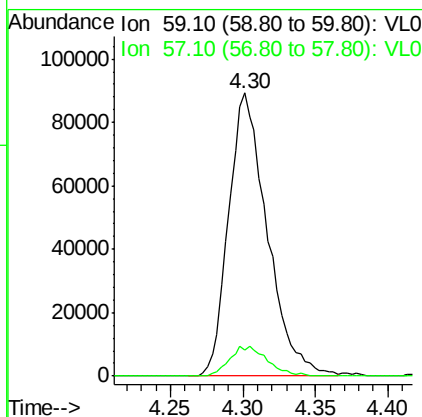
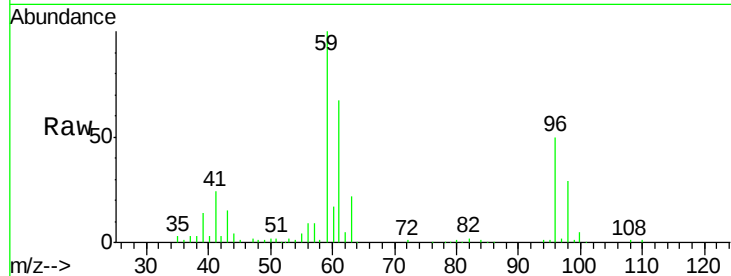
tert-Butyl alcohol
Concen: 1.011 ppbv
RT: 4.30 min Scan# 471
Delta R.T. 0.00 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Instrument :
MSVOA_L
ClientSampleID :
VSTDIC001

Tot Ion: 59 Resp: 165239
Ion Ratio Lower Upper
59 100
57 10.5 8.5 12.7

Manual Integrations
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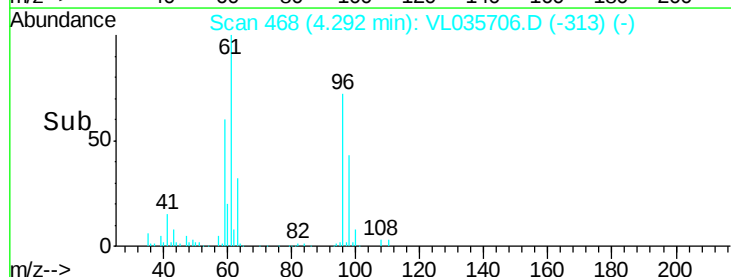
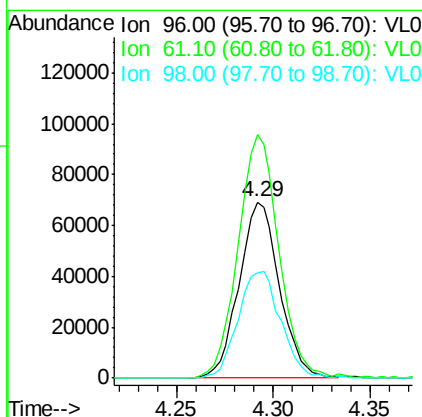
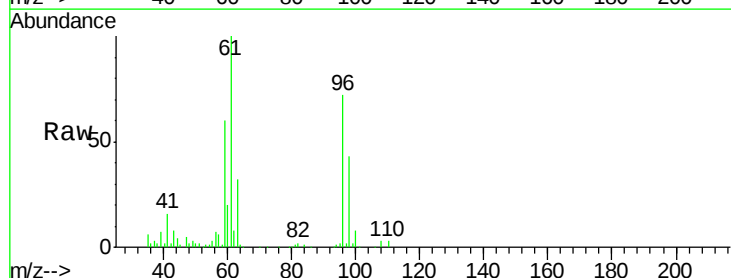
MMDadoda
9/24/2020 1:35:15 PM

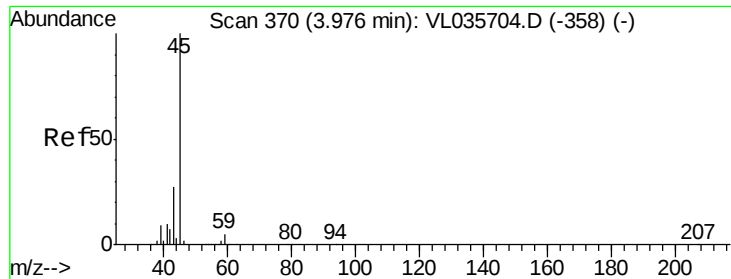


#18

1,1-Dichloroethene
Concen: 0.972 ppbv
RT: 4.29 min Scan# 468
Delta R.T. -0.00 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Tgt Ion: 96 Resp: 100371
Ion Ratio Lower Upper
96 100
61 138.4 106.7 160.1
98 60.1 50.8 76.2





#19

Isopropyl Alcohol

Concen: 1.016 ppbv

RT: 3.97 min Scan# 369

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampled :

VSTDIC001

Tot Ion: 45 Resp: 81181

Ion Ratio Lower Upper

45 100

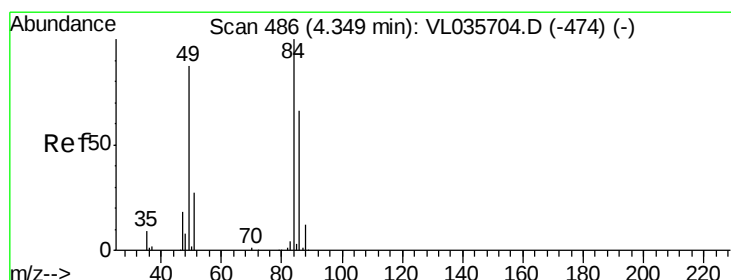
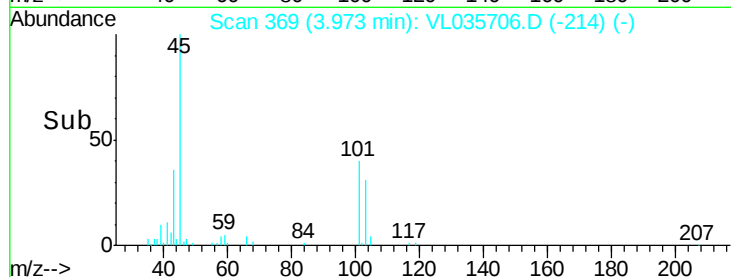
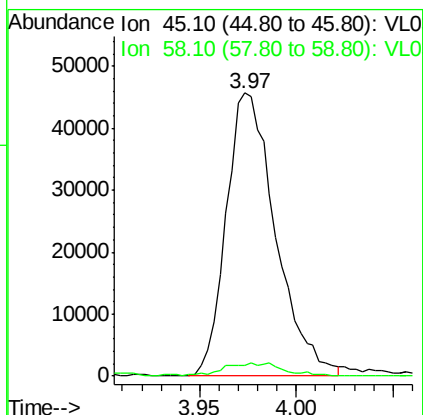
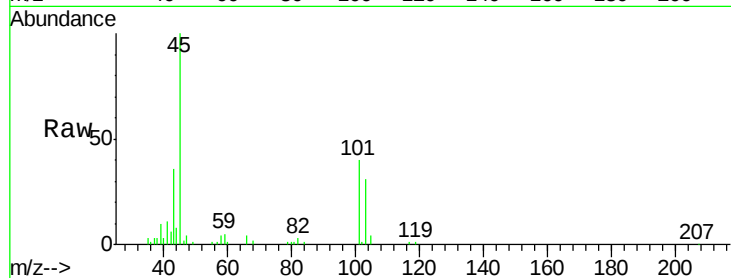
58 5.7 2.8 4.2#

Manual Integrations

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#20

Methylene Chloride

Concen: 1.117 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Tgt Ion: 84 Resp: 114149

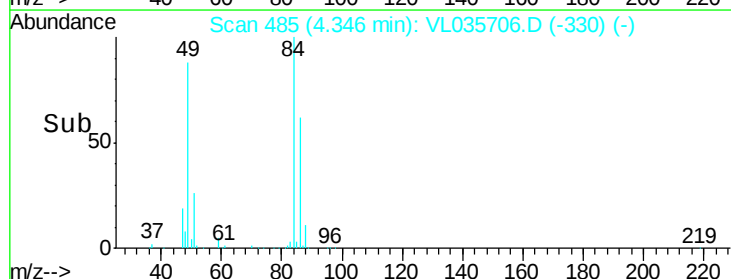
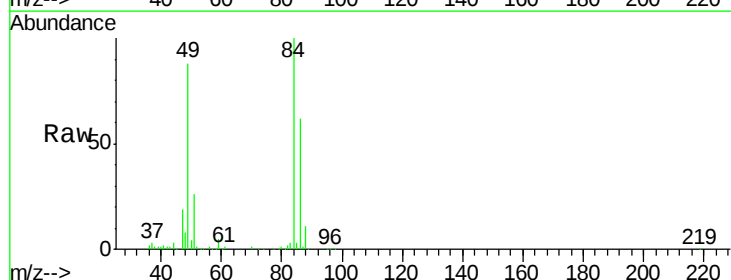
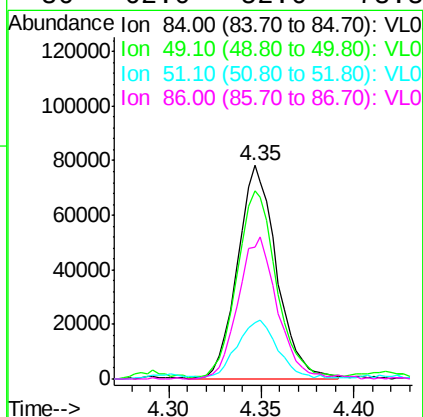
Ion Ratio Lower Upper

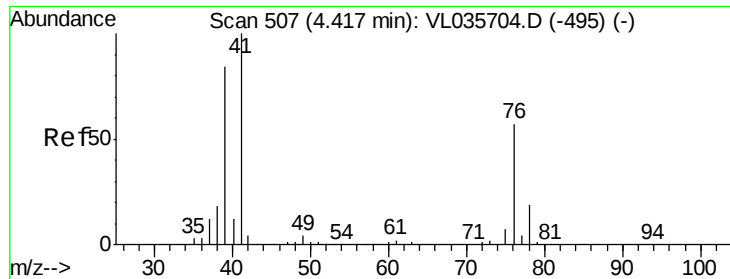
84 100

49 87.5 69.8 104.6

51 25.5 21.8 32.8

86 62.0 52.6 78.8





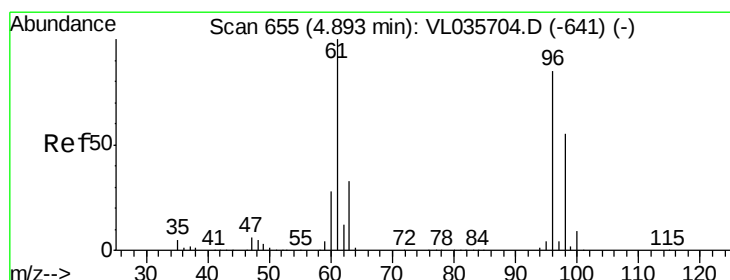
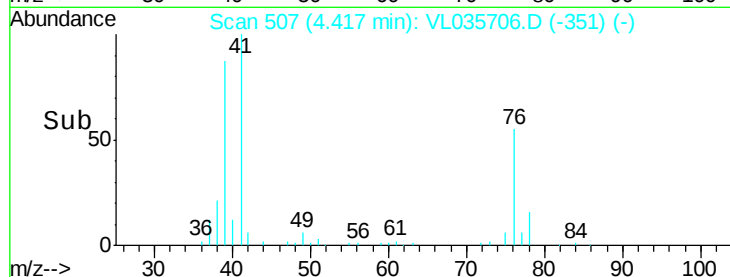
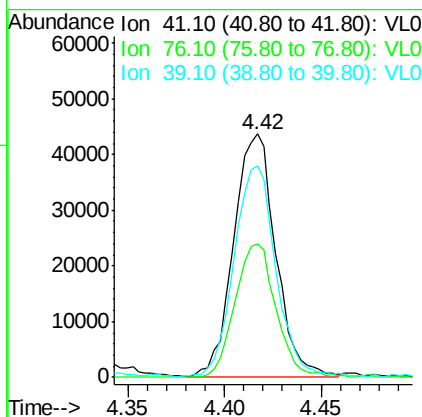
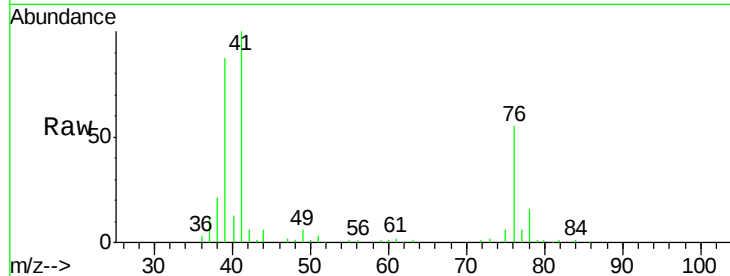
#21
Allvl Chloride
Concen: 1.030 ppbv
RT: 4.42 min Scan# 507
Delta R.T. 0.00 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
41	100		
76	53.5	44.8	67.2
39	86.1	68.4	102.6

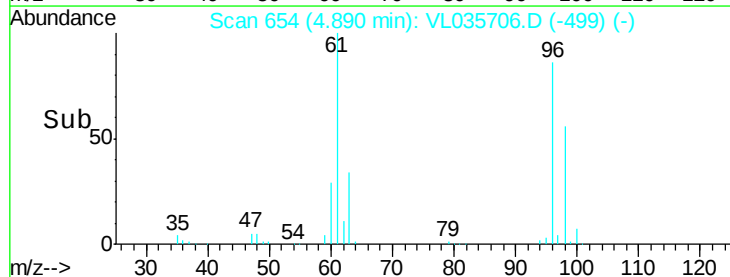
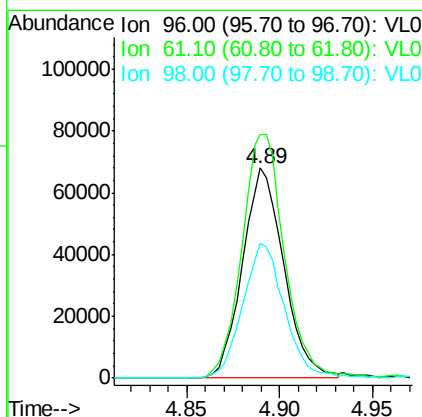
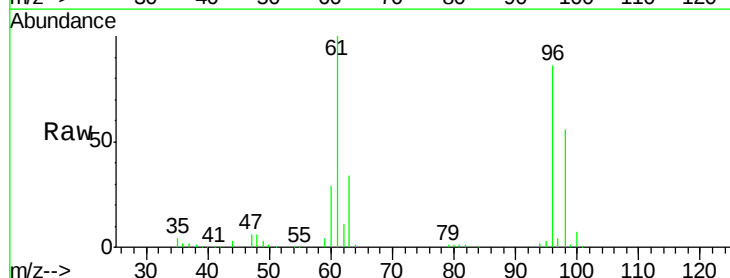
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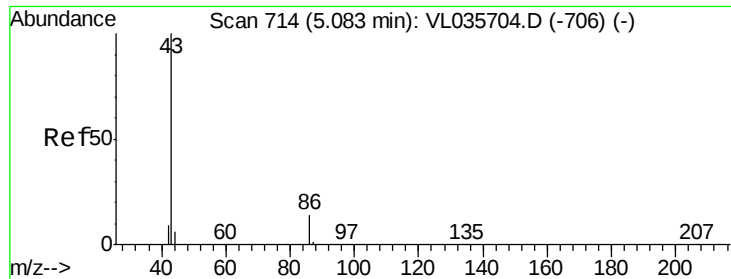
MMDadoda
9/24/2020 1:35:15 PM



#22
trans-1,2-Dichloroethene
Concen: 0.951 ppbv
RT: 4.89 min Scan# 654
Delta R.T. -0.00 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Tgt Ion	Ratio	Lower	Upper
96	100		
61	115.7	93.7	140.5
98	64.3	51.2	76.8





#23

Vinyl Acetate

Concen: 0.960 ppbv

RT: 5.08 min Scan# 713

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

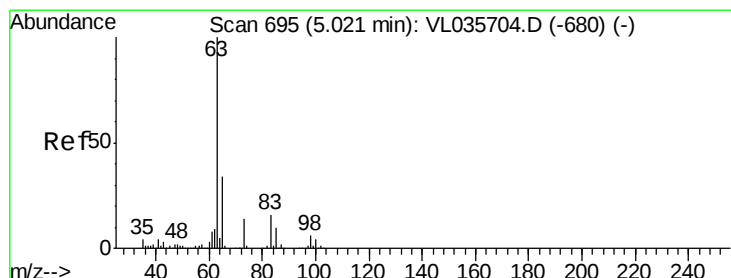
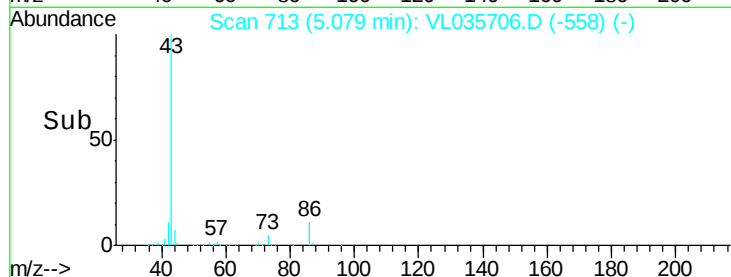
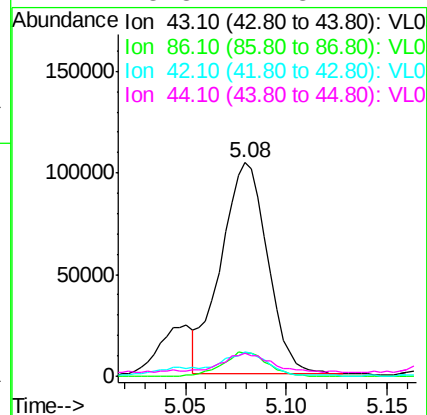
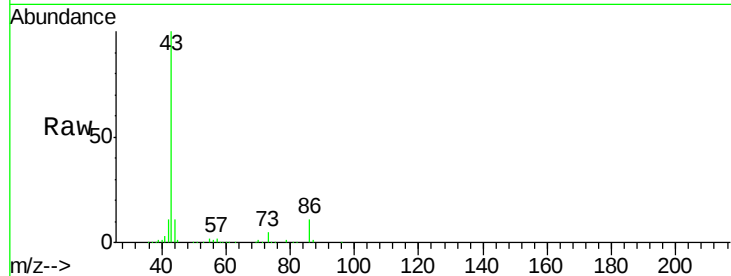
ClientSampleId :

VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		167894		
86	10.5	9.7	14.5		
42	11.3	7.9	11.9		
44	8.8	4.8	7.2		

Manual Integrations
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9/24/2020 1:35:15 PM



#24

1,1-Dichloroethane

Concen: 1.052 ppbv

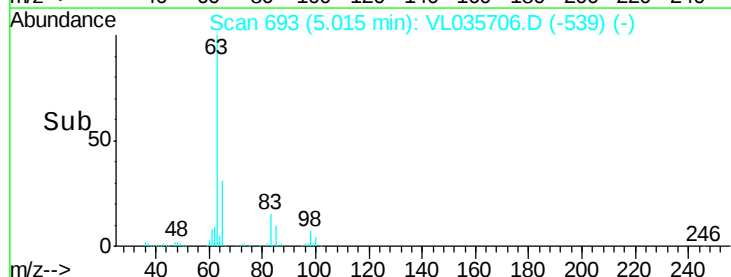
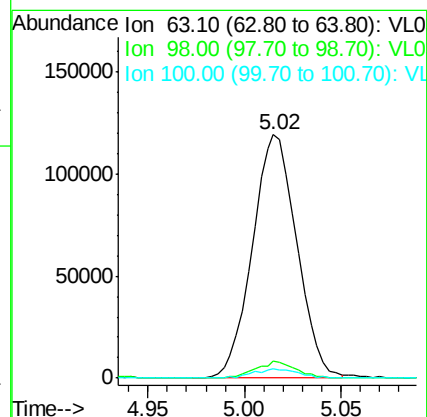
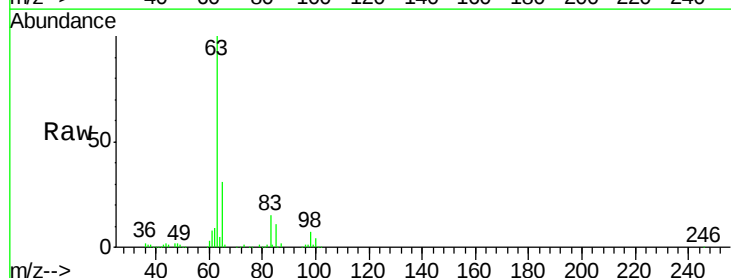
RT: 5.02 min Scan# 693

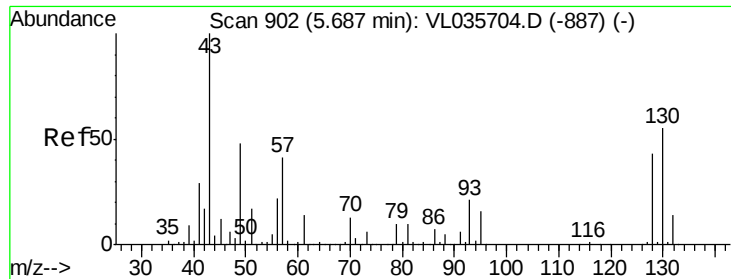
Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
63	100		190563		
98	7.0	3.3	9.8		
100	4.0	2.0	5.8		





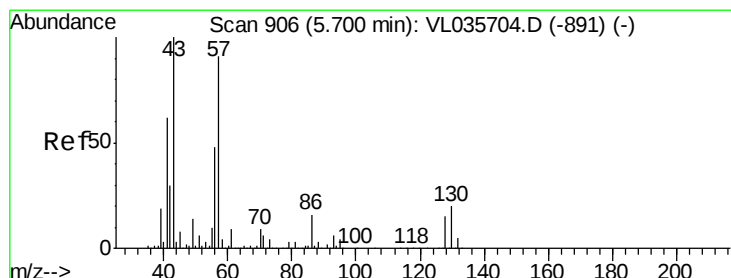
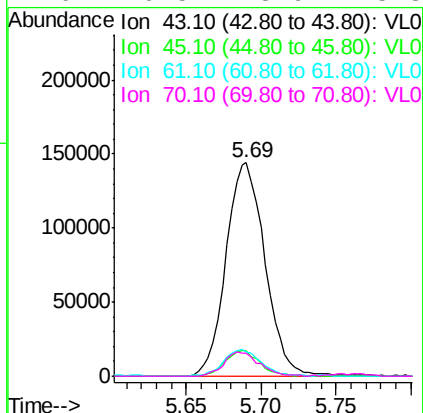
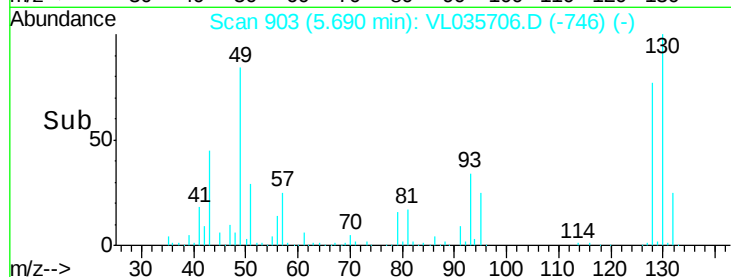
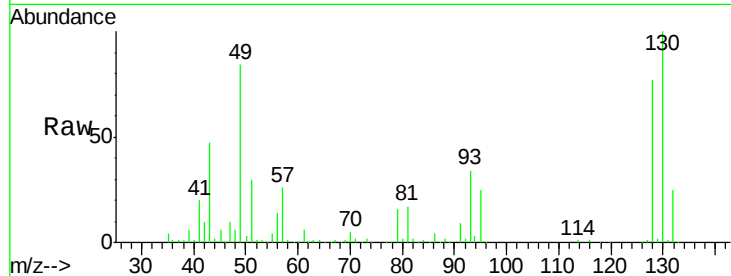
#25
Ethyl Acetate
Concen: 1.060 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.00 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	11.0	8.6	12.8	
61	12.7	10.4	15.6	
70	10.5	8.9	13.3	

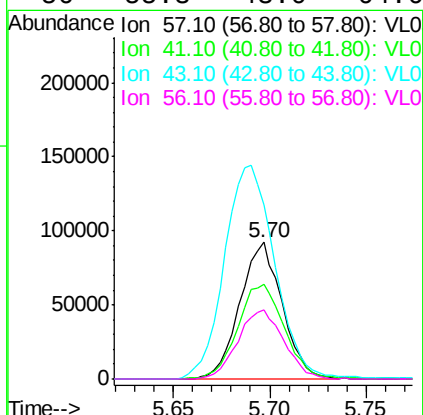
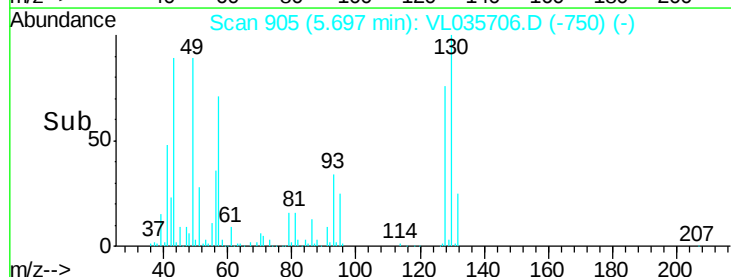
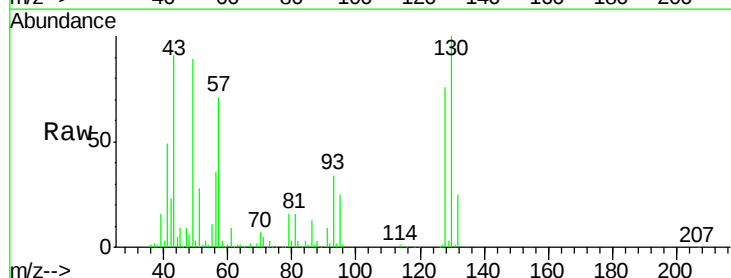
Manual Integrations
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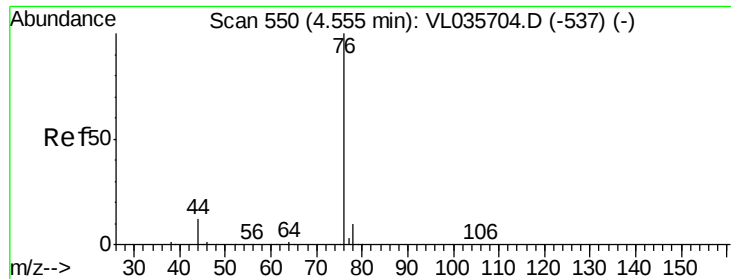
MMDadoda
9/24/2020 1:35:15 PM



#26
Hexane
Concen: 1.013 ppbv
RT: 5.70 min Scan# 905
Delta R.T. -0.00 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	77.5	57.9	86.9	
43	188.4	143.8	215.6	
56	55.3	43.0	64.6	





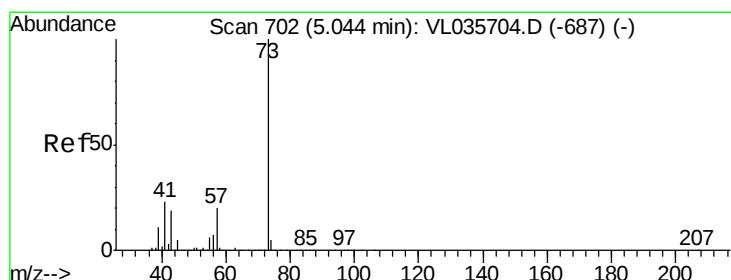
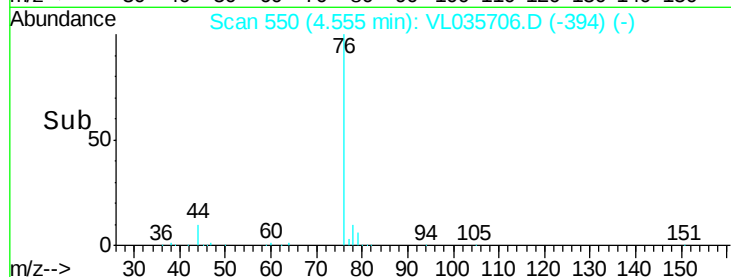
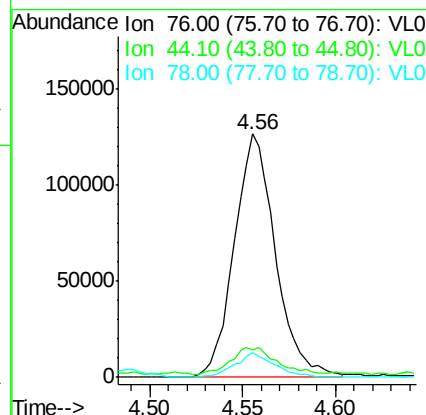
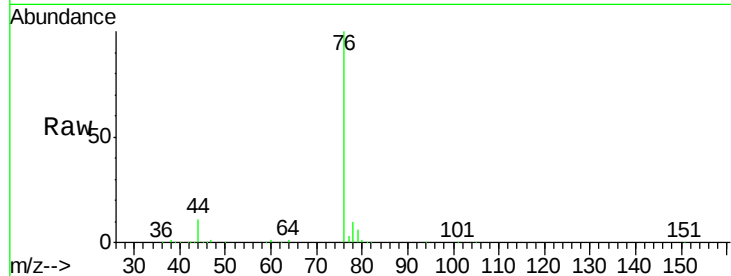
#27
Carbon Disulfide
Concen: 0.985 ppbv
RT: 4.56 min Scan# 550
Delta R.T. 0.00 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
76	100		
44	12.4	9.7	14.5
78	10.3	7.8	11.8

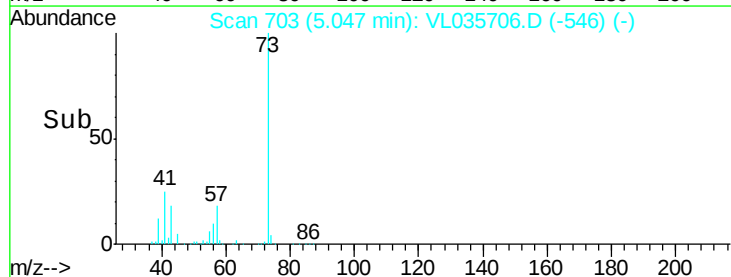
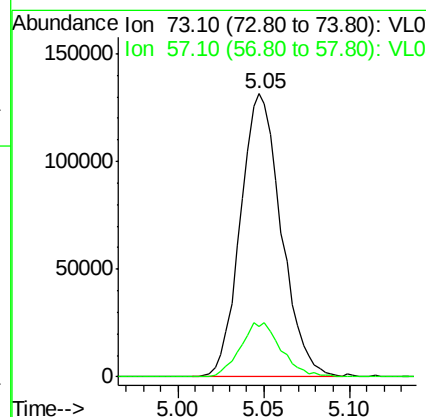
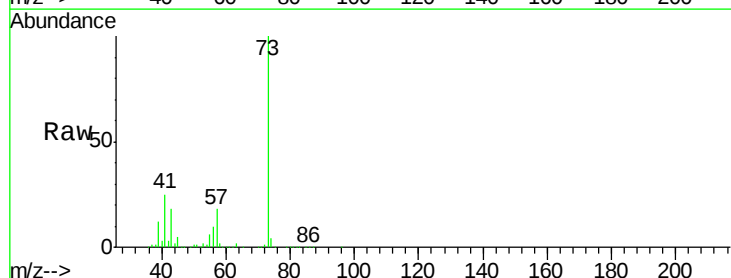
Manual Integrations
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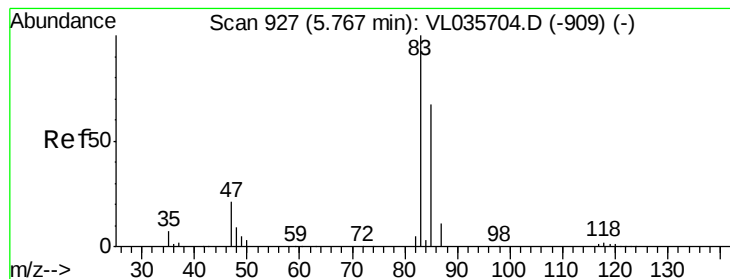
MMDadoda
9/24/2020 1:35:15 PM



#28
Methyl tert-Butyl Ether
Concen: 0.926 ppbv
RT: 5.05 min Scan# 703
Delta R.T. 0.00 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Tgt Ion	Ratio	Lower	Upper
73	100		
57	19.2	15.6	23.4





#29

Chloroform

Concen: 1.034 ppbv

RT: 5.76 min Scan# 924

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 83 Resp: 288373

Ion Ratio Lower Upper

83 100

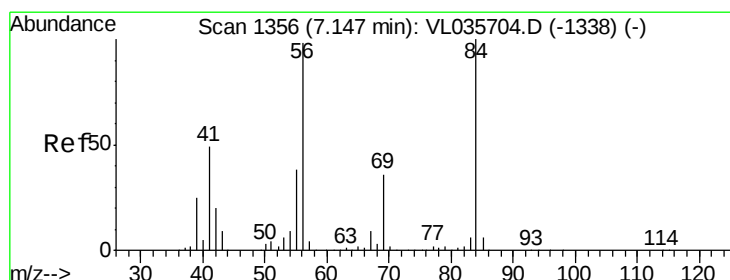
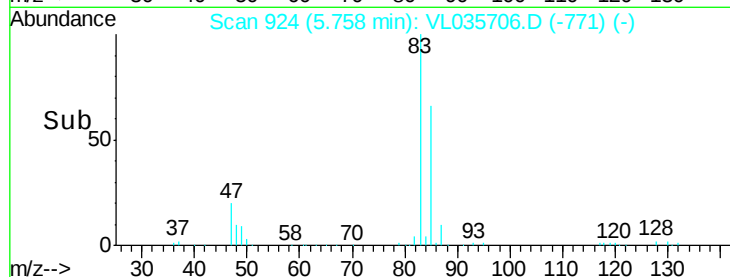
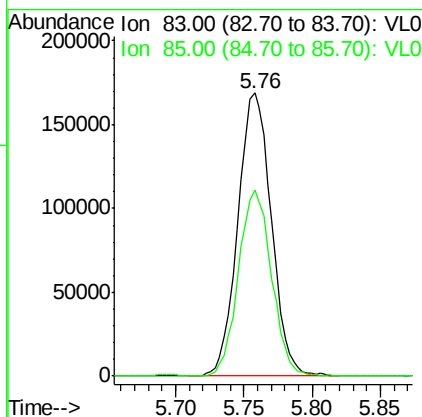
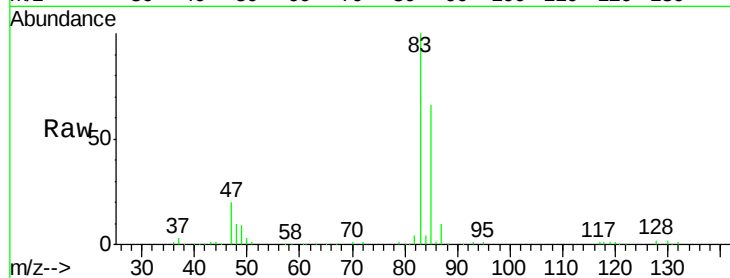
85 65.6 54.0 81.0

Manual Integrations

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MMDadoda

9/24/2020 1:35:15 PM



#30

Cyclohexane

Concen: 0.868 ppbv

RT: 7.14 min Scan# 1355

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

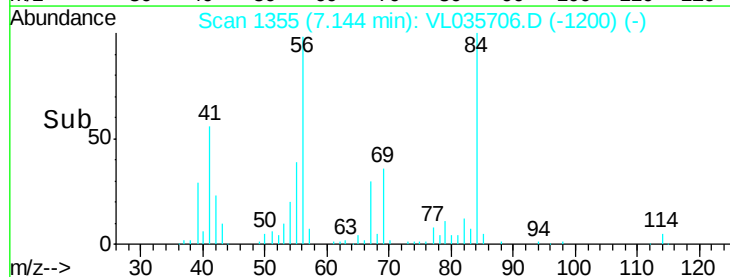
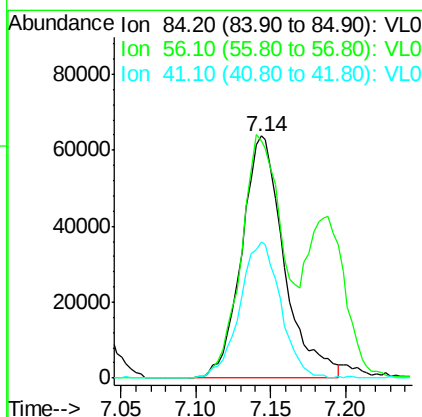
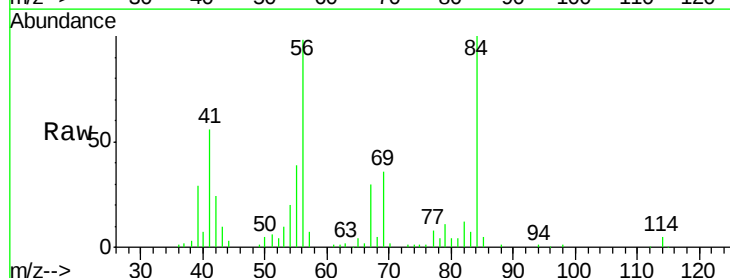
Tgt Ion: 84 Resp: 126238

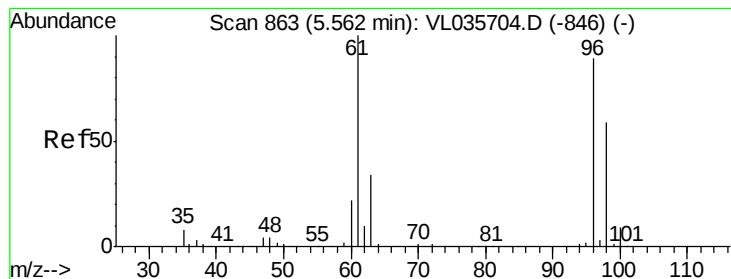
Ion Ratio Lower Upper

84 100

56 98.5 84.6 127.0

41 54.1 41.1 61.7





#31

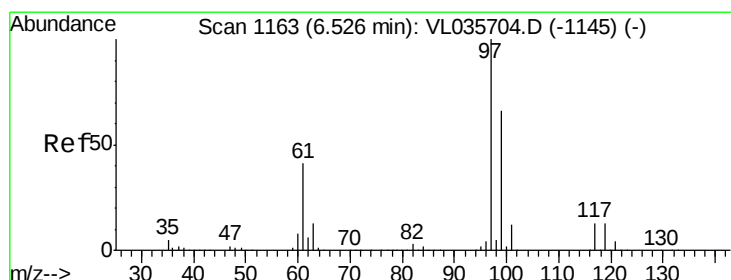
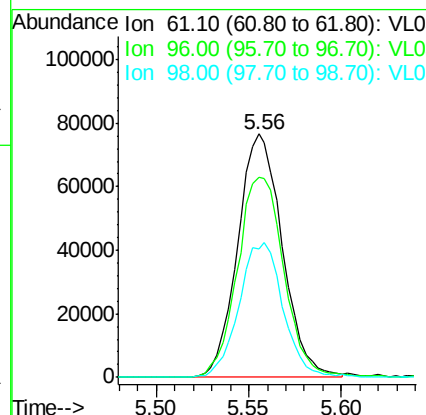
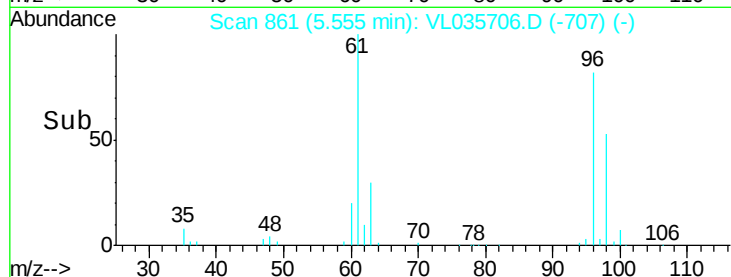
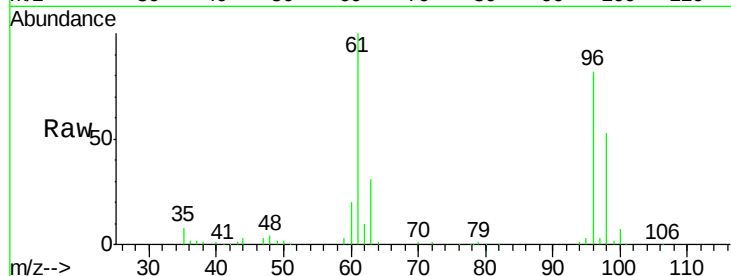
cis-1,2-Dichloroethene
 Concen: 0.912 ppbv
 RT: 5.56 min Scan# 861
 Delta R.T. -0.01 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
61	100	127663		
96	81.7	71.4	107.2	
98	52.7	47.4	71.2	

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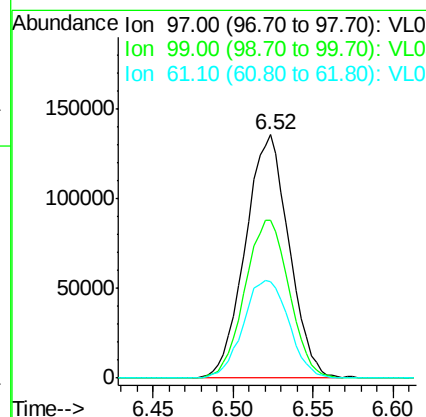
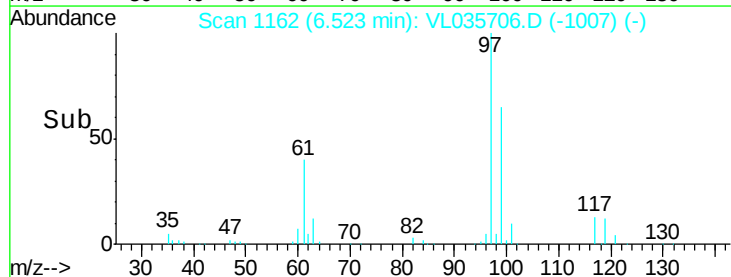
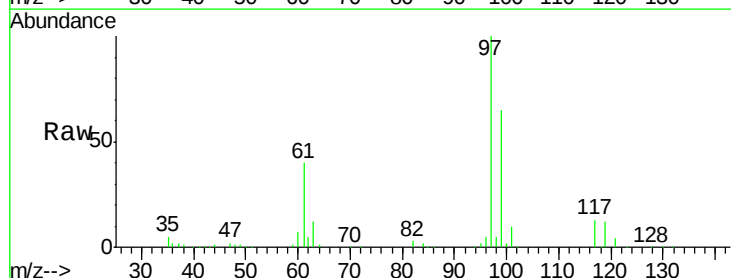
MMDadoda
 9/24/2020 1:35:15 PM

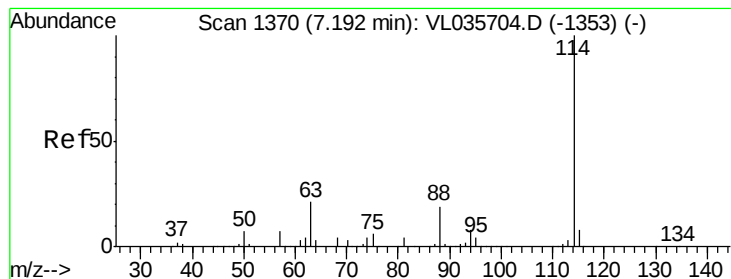


#32

1,1,1-Trichloroethane
 Concen: 0.935 ppbv
 RT: 6.52 min Scan# 1162
 Delta R.T. -0.00 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	252209		
99	66.0	52.7	79.1	
61	41.8	32.7	49.1	





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:114 Resp: 4701722

Ion Ratio Lower Upper

114 100

63 20.1 16.1 24.1

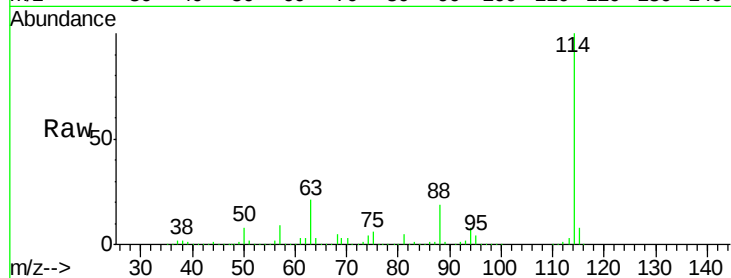
88 17.8 14.1 21.1

Manual Integrations

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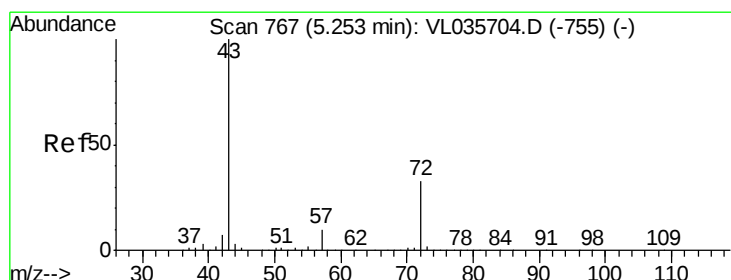
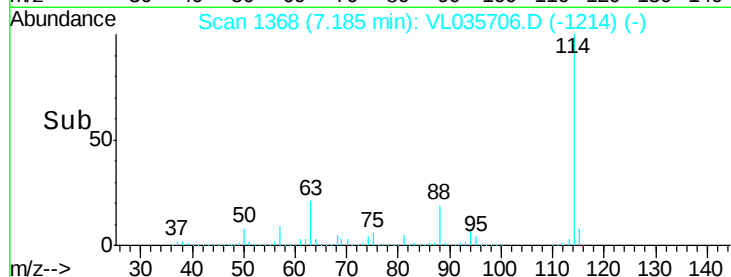
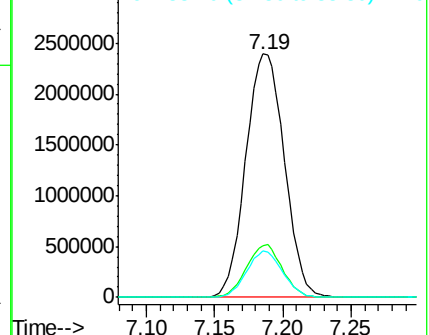
9/24/2020 1:35:15 PM



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 1.129 ppbv

RT: 5.26 min Scan# 768

Delta R.T. 0.00 min

Lab File: VL035706.D

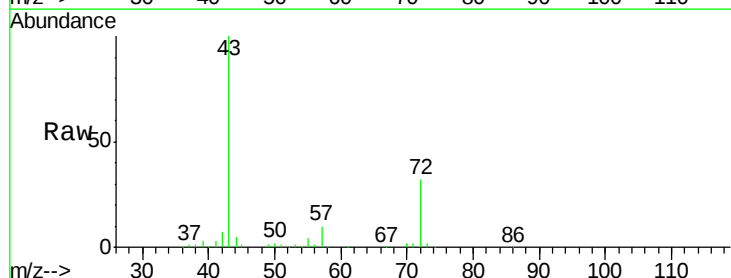
Acq: 23 Sep 2020 4:40

Tgt Ion: 43 Resp: 161574

Ion Ratio Lower Upper

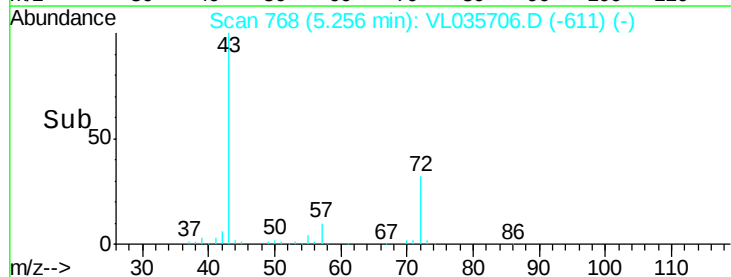
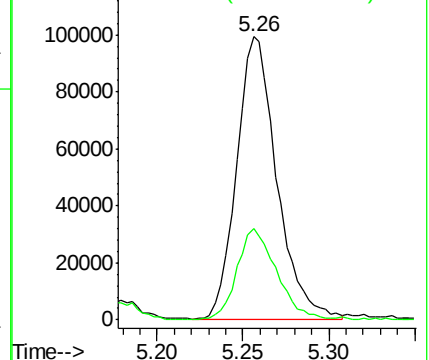
43 100

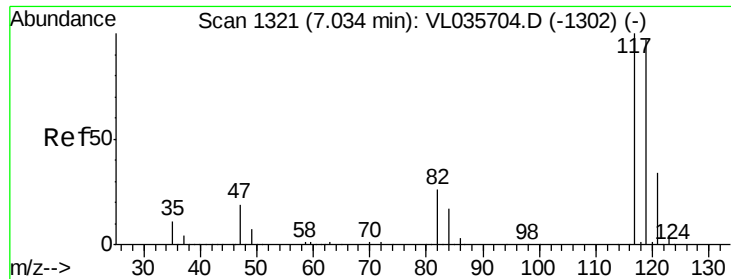
72 32.6 26.1 39.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 1.079 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

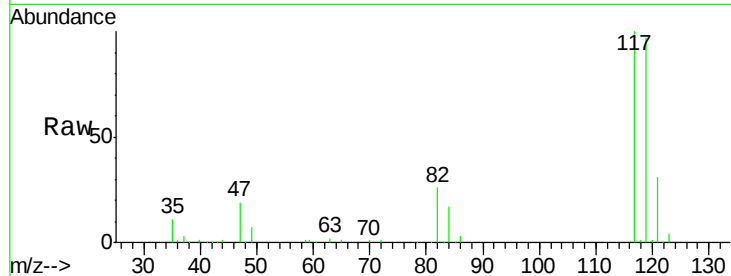
ClientSampleId :

VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
119	97.3	77.7	116.5
121	30.6	26.9	40.3

Manual Integrations
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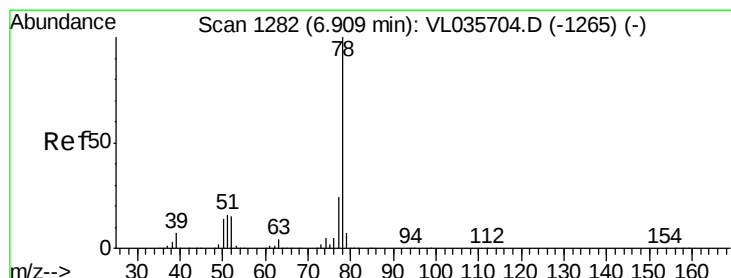
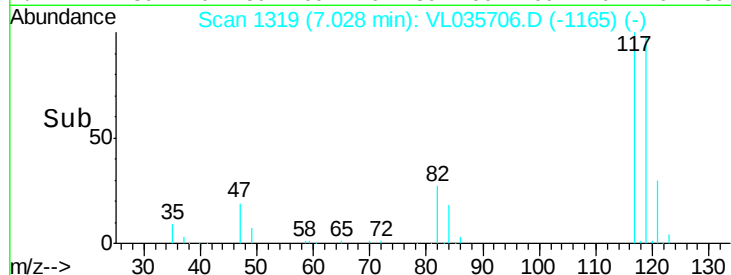
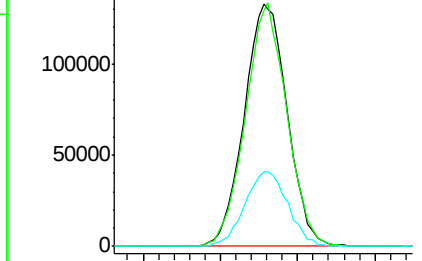
MMDadoda
9/24/2020 1:35:15 PM



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: 1.025 ppbv

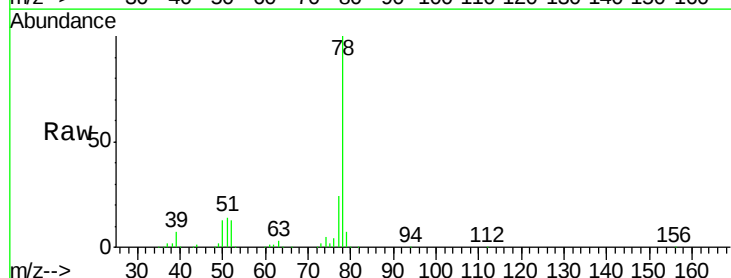
RT: 6.90 min Scan# 1280

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

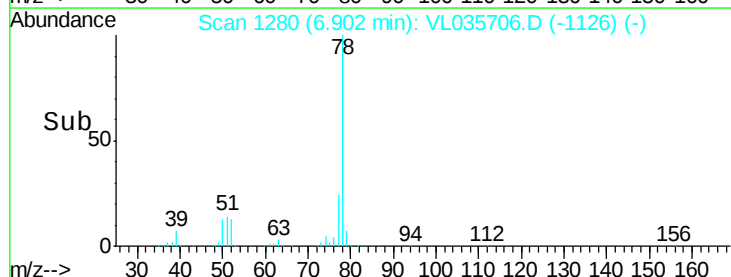
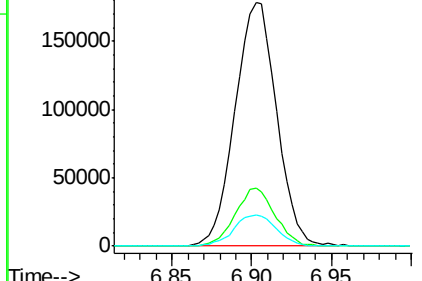
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.3	28.9
50	12.7	11.6	17.4

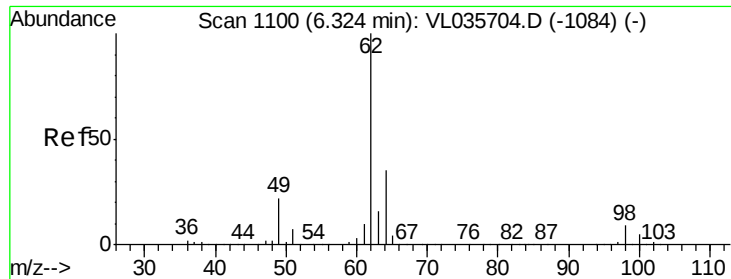


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





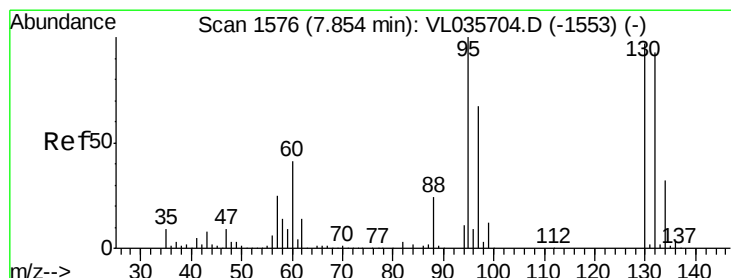
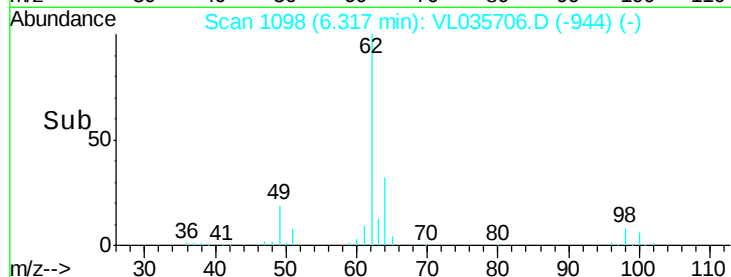
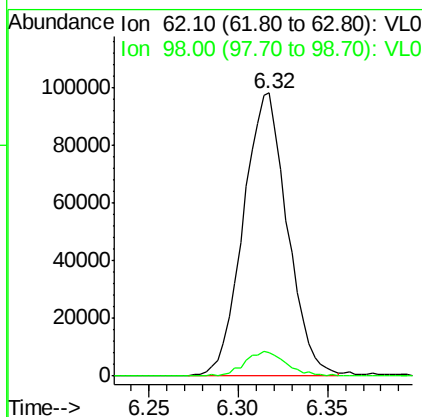
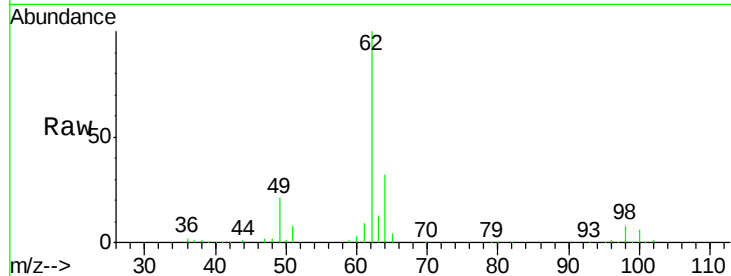
#37
 1,2-Dichloroethane
 Concen: 1.147 ppbv
 RT: 6.32 min Scan# 1098
 Delta R.T. -0.01 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
62	100	169845		
98	8.3	6.9	10.3	

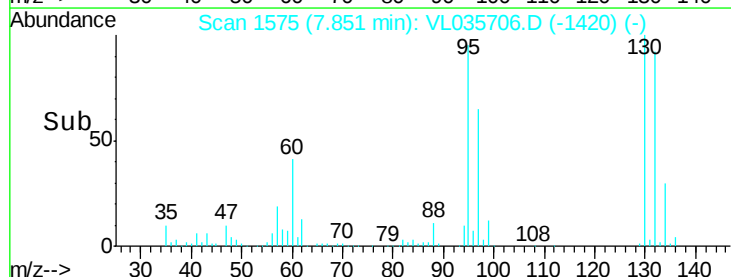
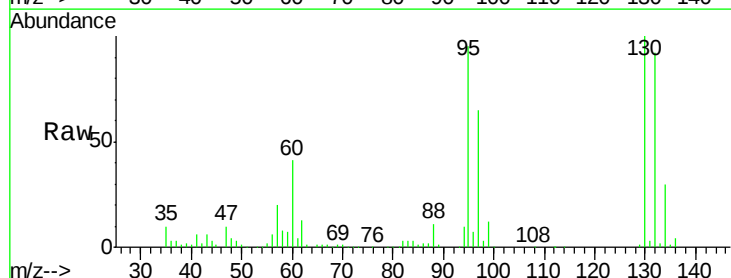
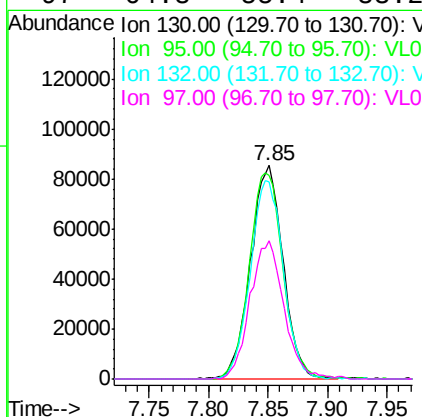
Manual Integrations
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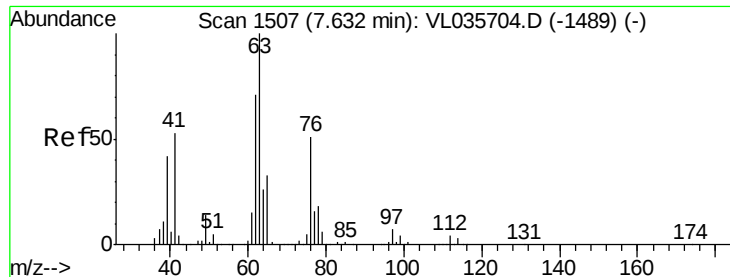
MMDadoda
 9/24/2020 1:35:15 PM



#38
 Trichloroethene
 Concen: 0.919 ppbv
 RT: 7.85 min Scan# 1575
 Delta R.T. -0.00 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	162373		
95	95.5	82.4	123.6	
132	92.2	76.8	115.2	
97	64.8	55.4	83.2	





#39

1,2-Dichloropropane

Concen: 1.109 ppbv

RT: 7.62 min Scan# 1504

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

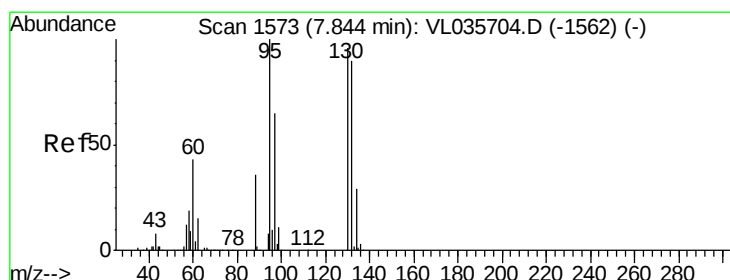
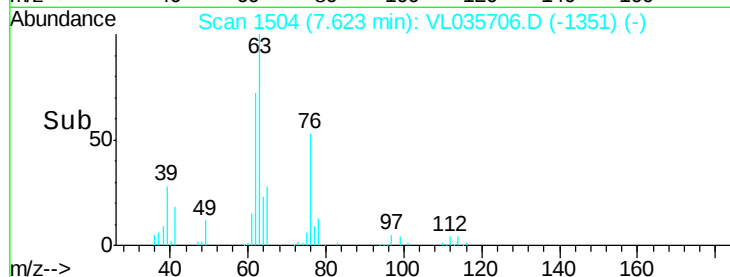
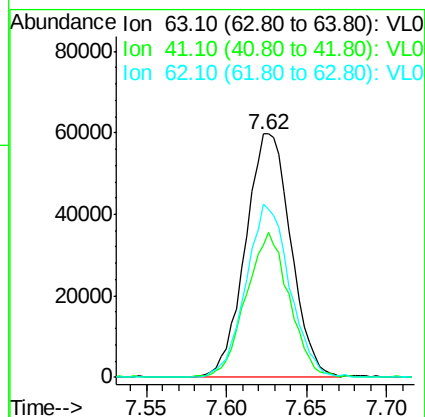
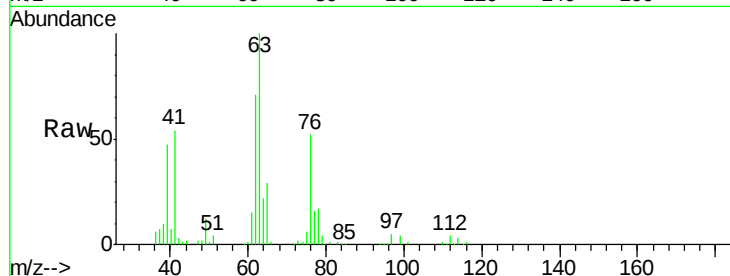
ClientSampleId :

VSTDIC001

Tot Ion:	63	Resp:	116045
Ion	Ratio	Lower	Upper
63	100		
41	54.3	42.6	63.8
62	70.9	56.5	84.7

Manual Integrations
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#40

1,4-Dioxane

Concen: 1.077 ppbv

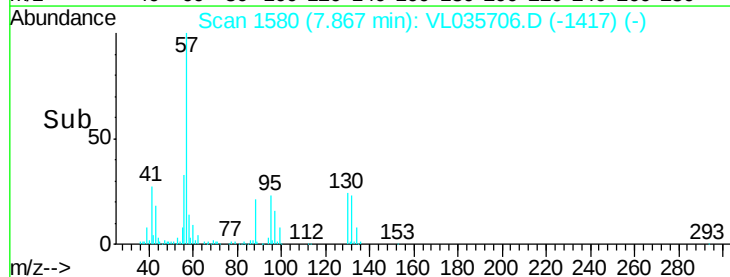
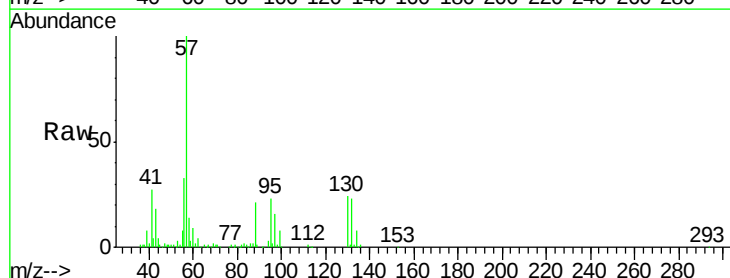
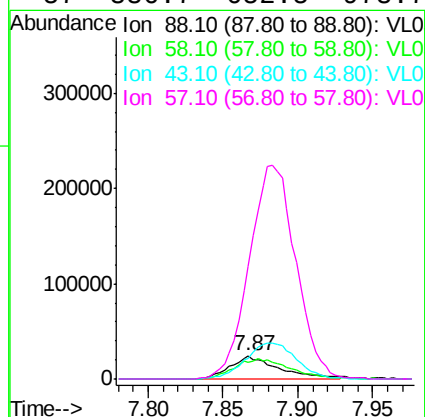
RT: 7.87 min Scan# 1580

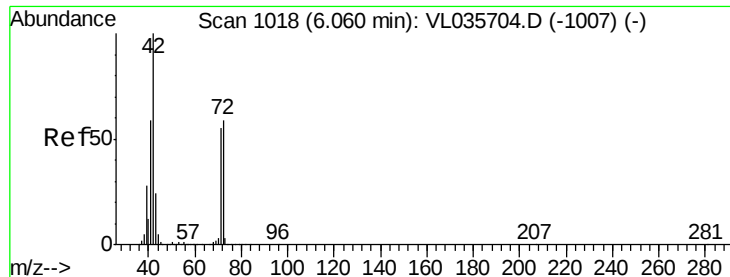
Delta R.T. 0.02 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Tgt Ion:	88	Resp:	54912
Ion	Ratio	Lower	Upper
88	100		
58	101.7	76.2	114.4
43	163.4	123.4	185.2
57	886.7	652.5	978.7





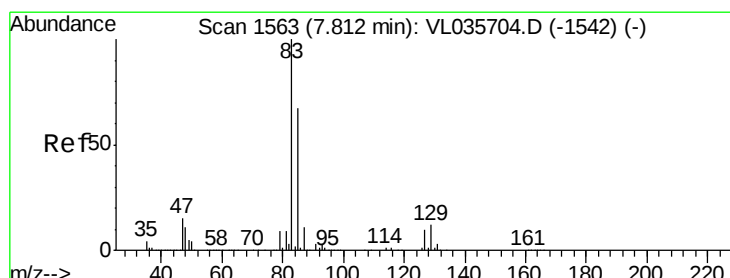
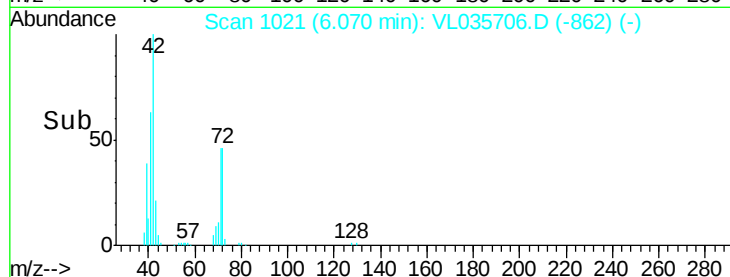
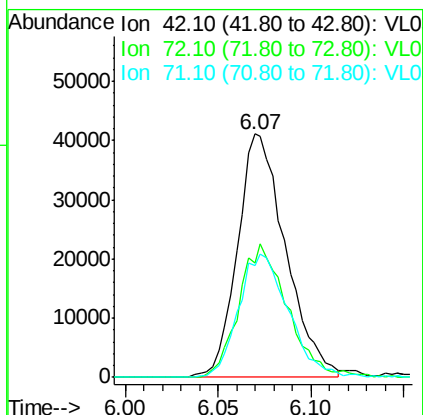
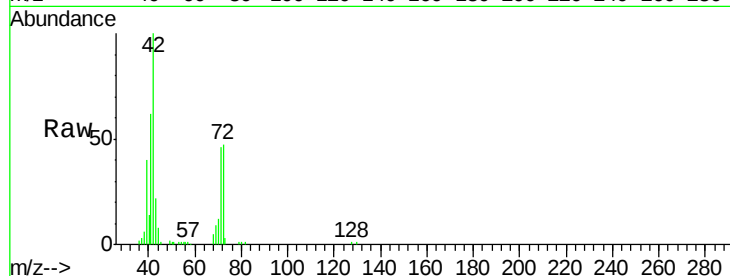
#41
Tetrahydrofuran
Concen: 0.978 ppbv
RT: 6.07 min Scan# 1021
Delta R.T. 0.01 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
42	100		
72	55.4	46.2	69.4
71	52.7	44.2	66.4

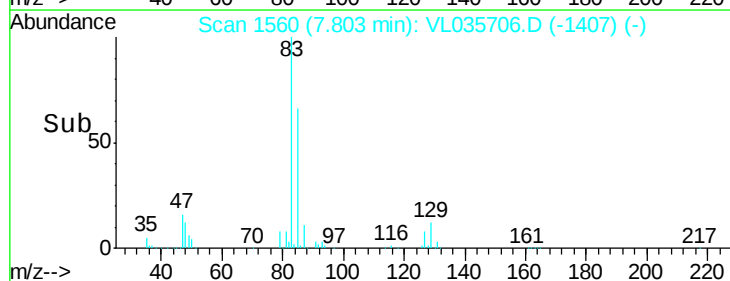
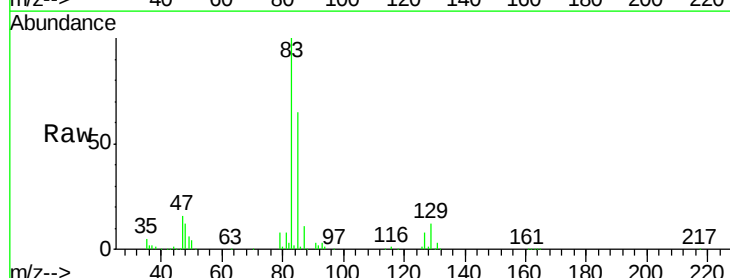
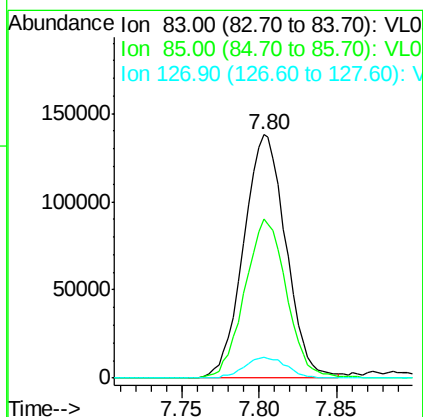
Manual Integrations
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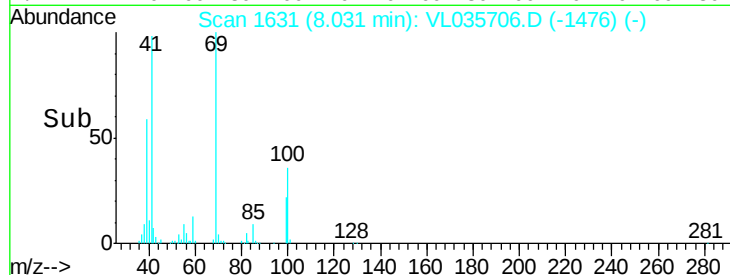
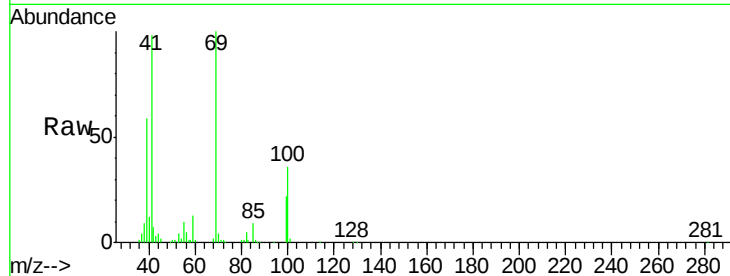
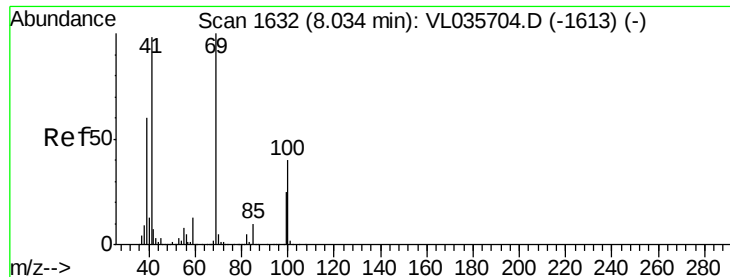
MMDadoda
9/24/2020 1:35:15 PM



#42
Bromodichloromethane
Concen: 1.099 ppbv
RT: 7.80 min Scan# 1560
Delta R.T. -0.01 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.5	53.4	80.0
127	8.5	7.8	11.6





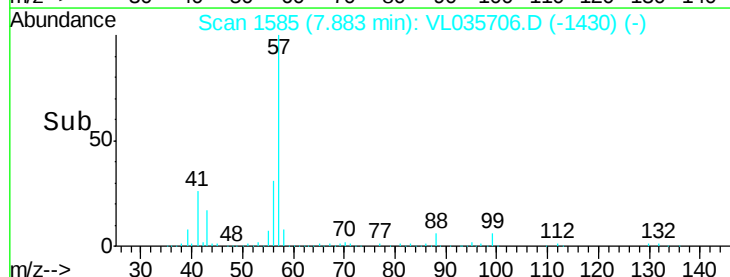
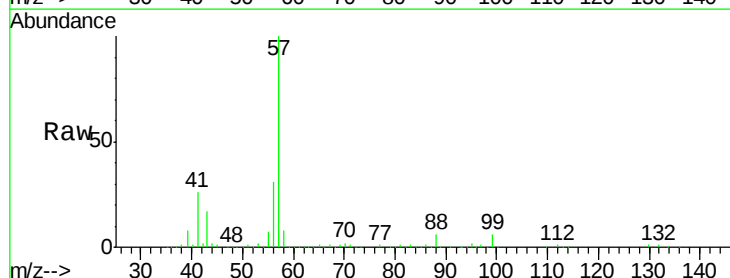
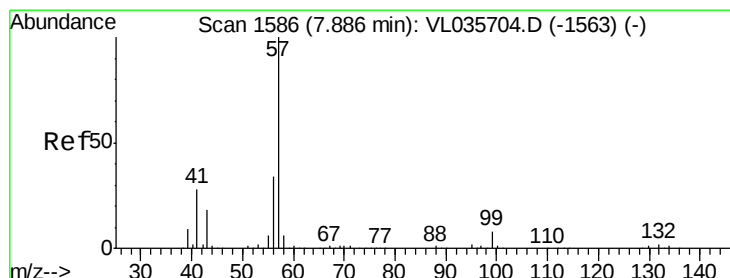
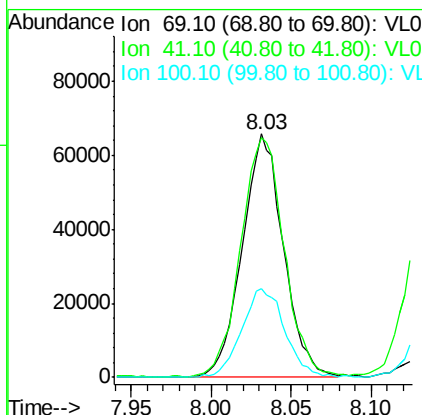
#43
Methvl Methacrilate
Concen: 0.967 ppbv
RT: 8.03 min Scan# 1631
Delta R.T. -0.00 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100		115885		
41	104.3	79.8	119.6		
100	38.3	30.6	46.0		

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

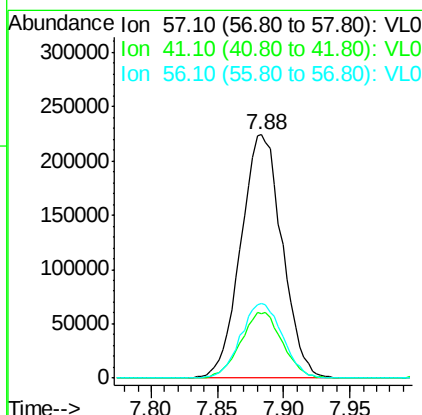
Manual Integrations
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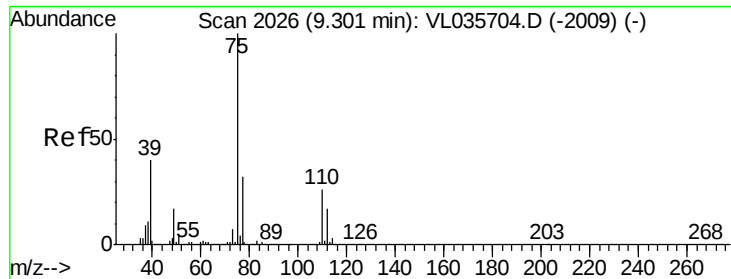
MMDadoda
9/24/2020 1:35:15 PM



#44
2,2,4-Trimethylpentane
Concen: 1.184 ppbv
RT: 7.88 min Scan# 1585
Delta R.T. -0.00 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		485633		
41	27.3	21.2	31.8		
56	31.2	25.8	38.8		





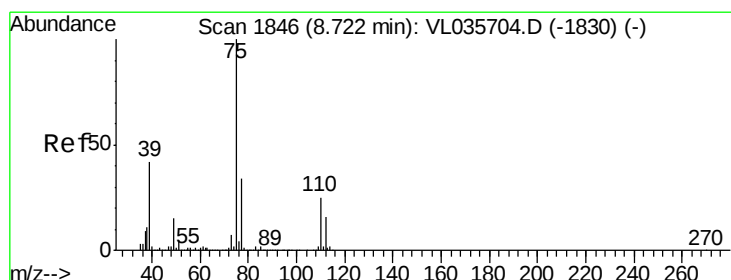
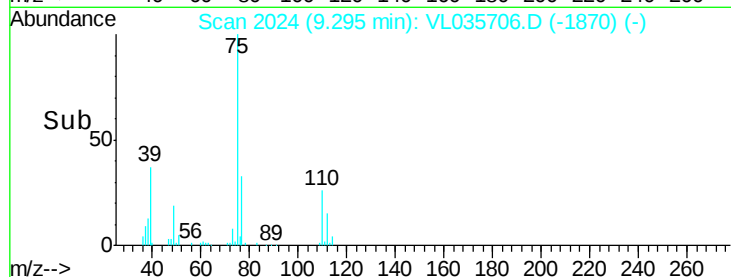
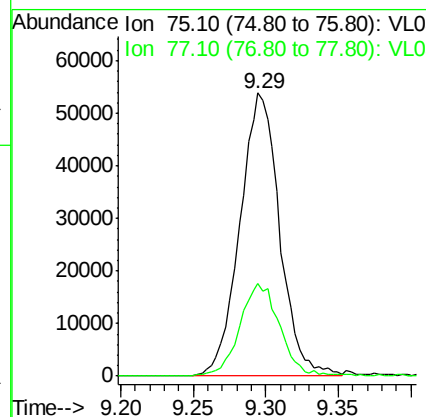
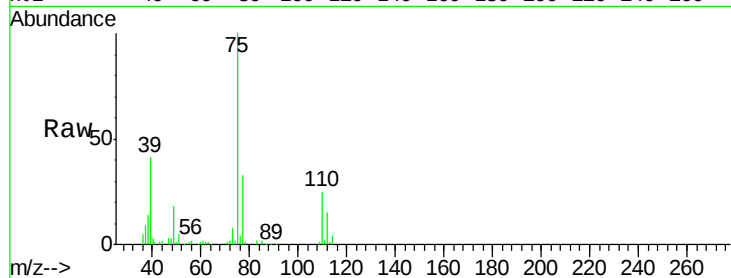
#45
 t-1,3-Dichloropropene
 Concen: 0.846 ppbv
 RT: 9.29 min Scan# 2024
 Delta R.T. -0.01 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion: 75 Resp: 102452
 Ion Ratio Lower Upper
 75 100
 77 32.8 25.9 38.9

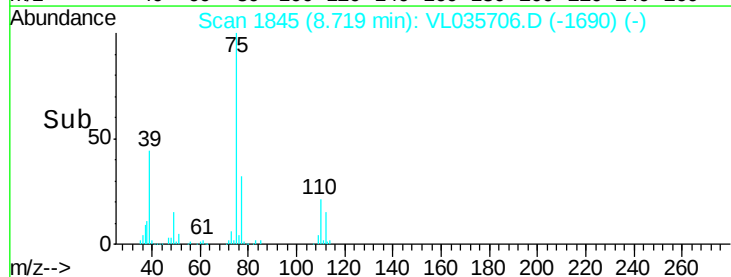
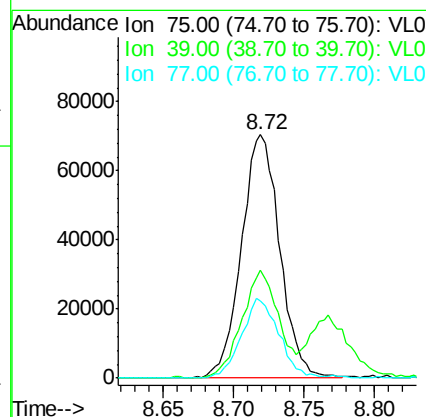
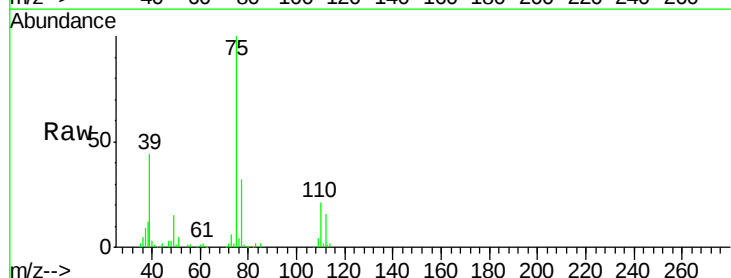
Manual Integrations
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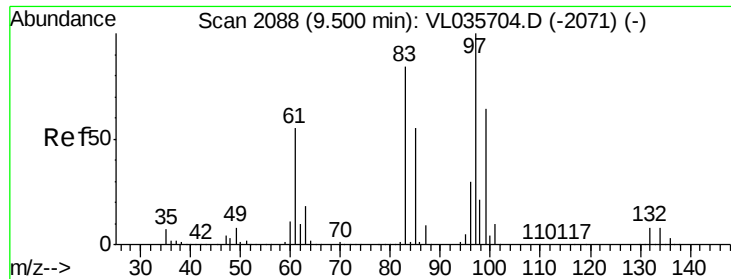
MMDadoda
 9/24/2020 1:35:15 PM



#46
 cis-1,3-Dichloropropene
 Concen: 0.892 ppbv
 RT: 8.72 min Scan# 1845
 Delta R.T. -0.00 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Tgt Ion: 75 Resp: 134186
 Ion Ratio Lower Upper
 75 100
 39 44.2 33.9 50.9
 77 31.7 27.4 41.0





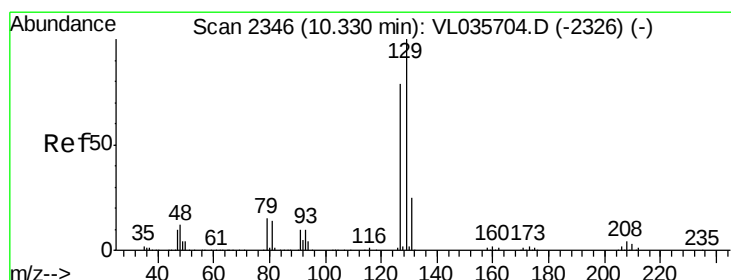
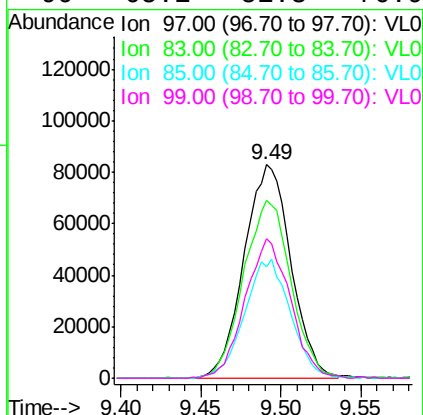
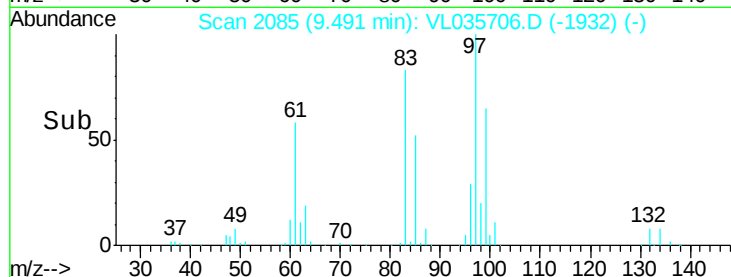
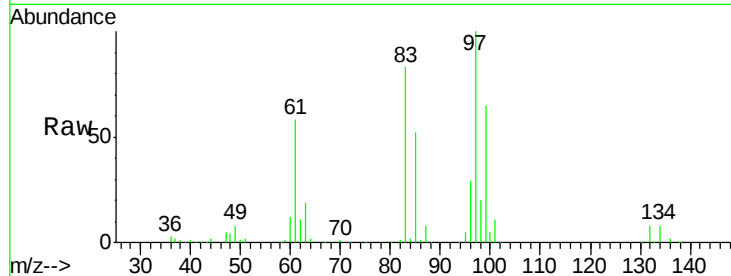
#47
 1,1,2-Trichloroethane
 Concen: 1.090 ppbv
 RT: 9.49 min Scan# 2085
 Delta R.T. -0.01 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		166908		
83	83.3	67.1	100.7		
85	52.2	43.9	65.9		
99	65.1	51.3	76.9		

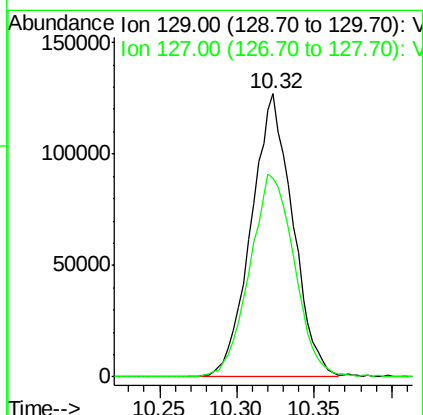
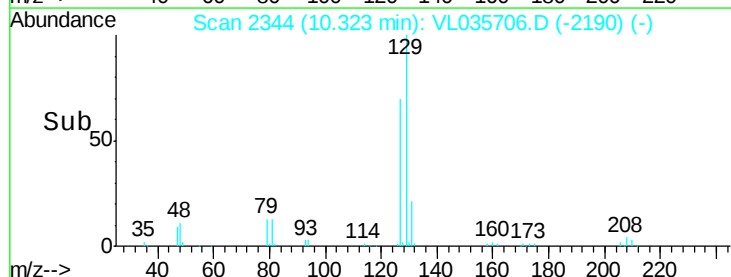
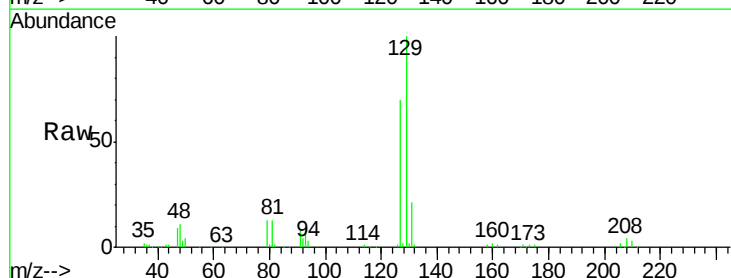
Manual Integrations
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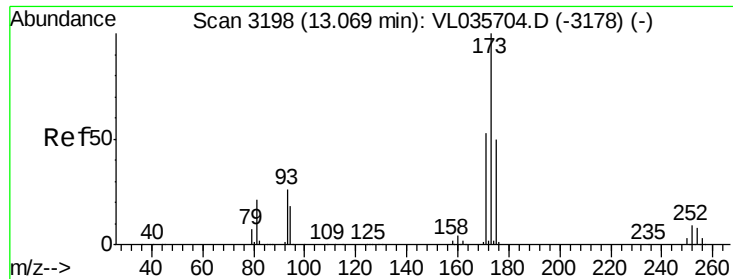
MMDadoda
 9/24/2020 1:35:15 PM



#48
 Dibromochloromethane
 Concen: 0.993 ppbv
 RT: 10.32 min Scan# 2344
 Delta R.T. -0.01 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		237315		
127	77.4	39.4	118.1		





#49

Bromoform

Concen: 0.911 ppbv

RT: 13.06 min Scan# 3195

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

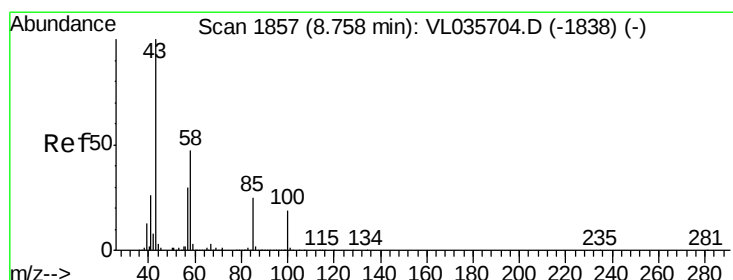
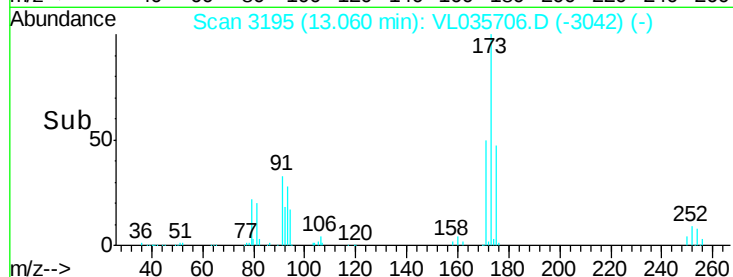
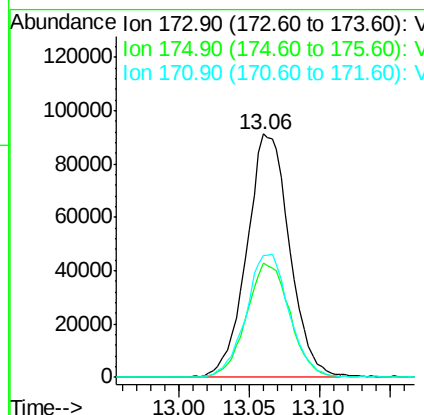
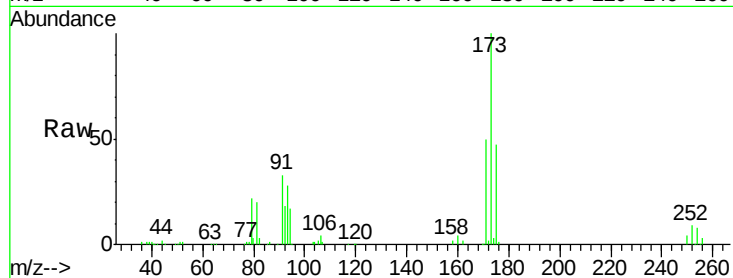
ClientSampleId :

VSTDIC001

Tot Ion:	173	Resp:	193981
Ion Ratio	Lower	Upper	
173	100		
175	47.7	39.8	59.6
171	51.2	42.8	64.2

Manual Integrations
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#50

4-Methyl-2-Pentanone

Concen: 1.135 ppbv

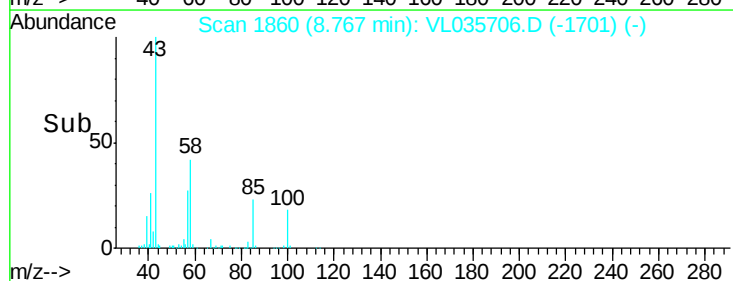
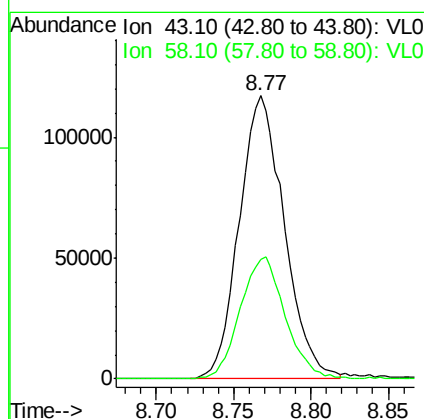
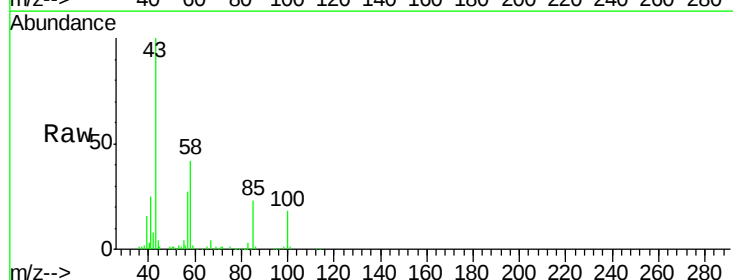
RT: 8.77 min Scan# 1860

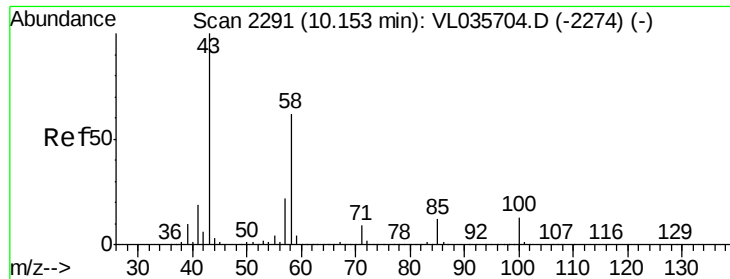
Delta R.T. 0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Tgt Ion:	43	Resp:	236009
Ion Ratio	Lower	Upper	
43	100		
58	43.6	36.6	54.8





#51

2-Hexanone

Concen: 1.061 ppbv

RT: 10.17 min Scan# 2295

Delta R.T. 0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 180362

Ion Ratio Lower Upper

43 100

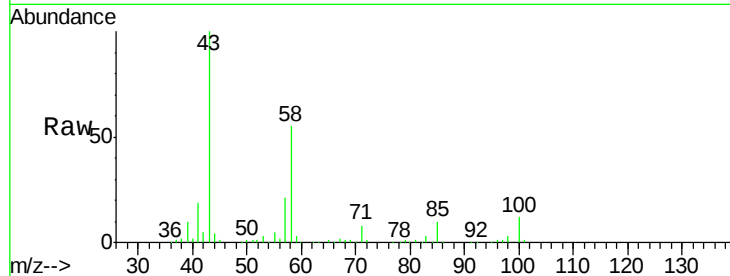
58 56.7 48.7 73.1

98 2.9 0.7 1.1#

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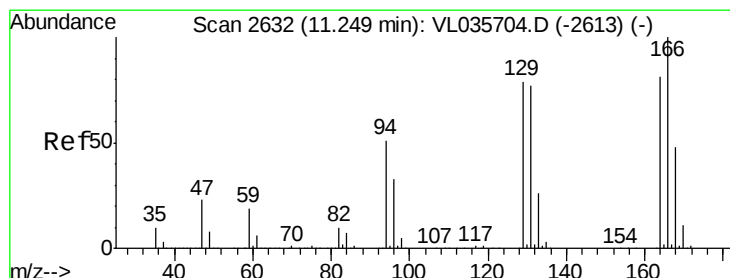
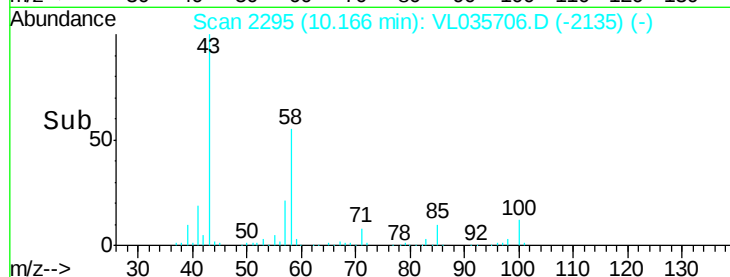
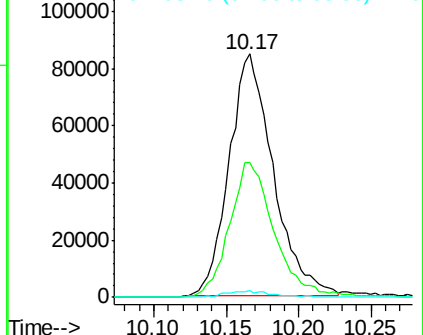
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 0.849 ppbv m

RT: 11.24 min Scan# 2630

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Tgt Ion: 164 Resp: 148679

Ion Ratio Lower Upper

164 100

166 131.6 98.7 148.1

129 99.7 78.4 117.6

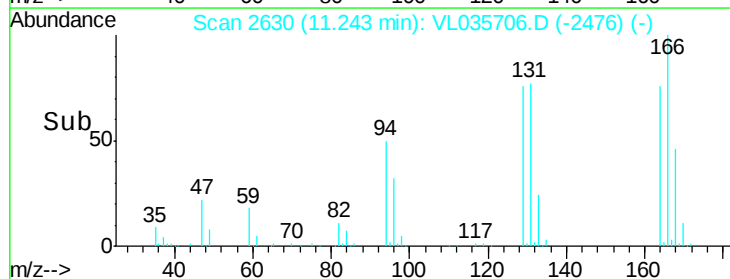
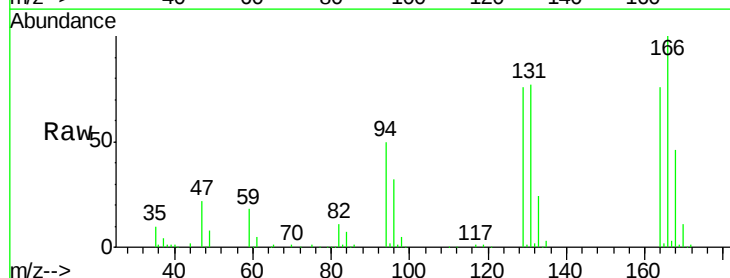
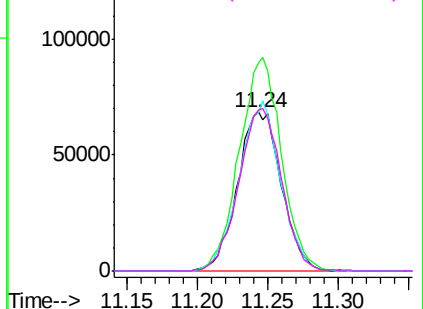
131 101.7 76.2 114.2

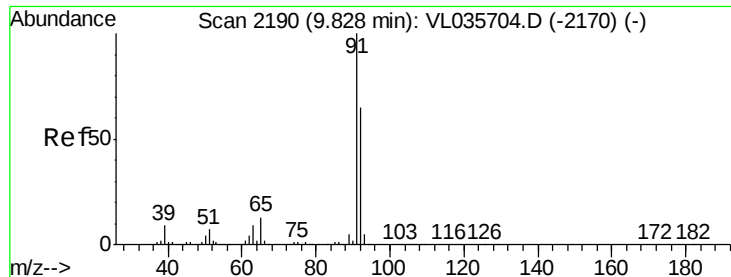
Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.926 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 357125

Ion Ratio Lower Upper

91 100

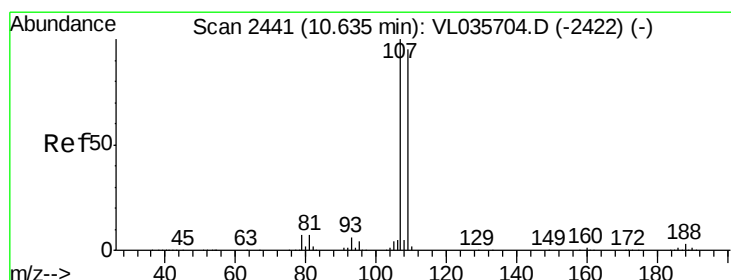
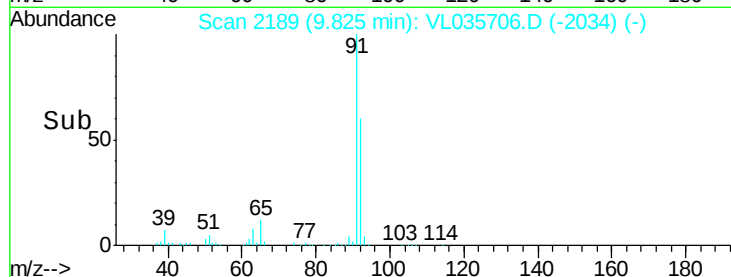
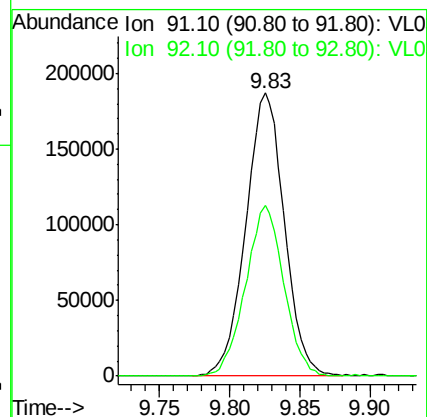
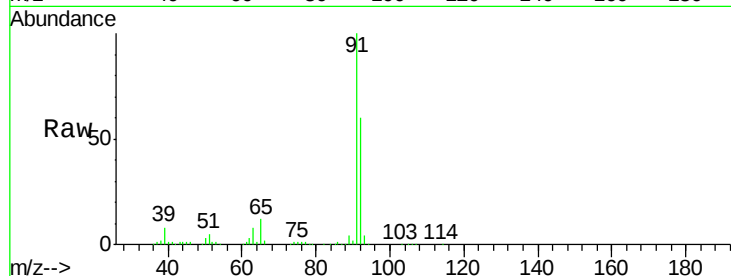
92 60.3 50.0 75.0

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#54

1,2-Dibromoethane

Concen: 1.011 ppbv

RT: 10.63 min Scan# 2439

Delta R.T. -0.01 min

Lab File: VL035706.D

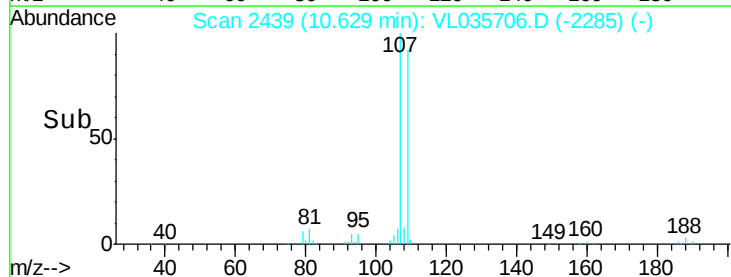
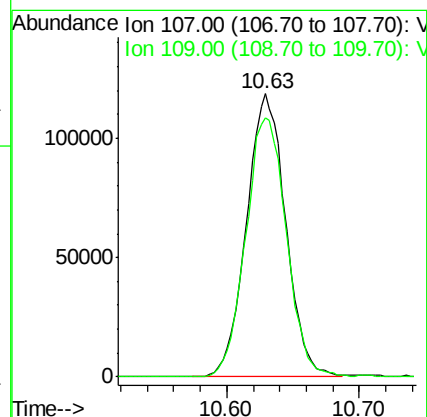
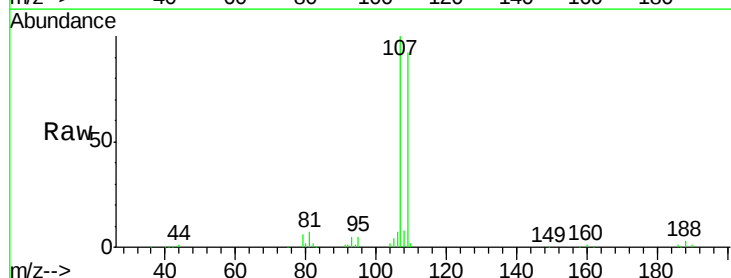
Acq: 23 Sep 2020 4:40

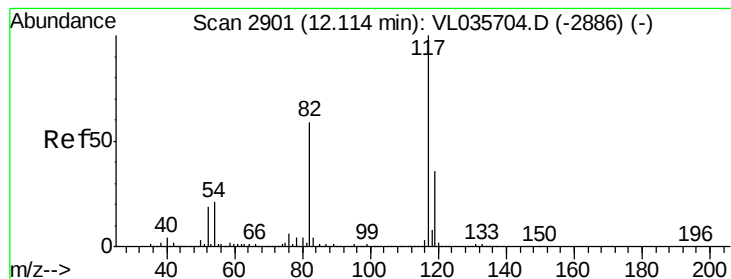
Tgt Ion: 107 Resp: 243668

Ion Ratio Lower Upper

107 100

109 91.6 76.0 114.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:117 Resp: 4662480

Ion Ratio Lower Upper

117 100

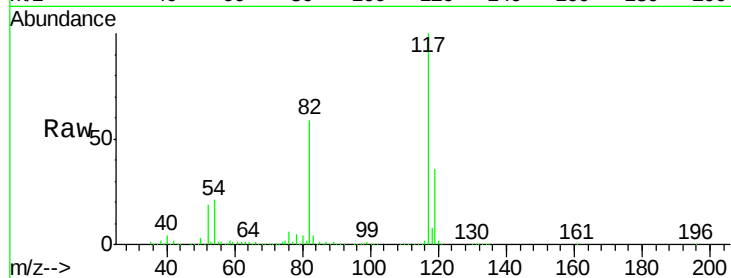
82 57.0 46.1 69.1

119 36.7 28.0 42.0

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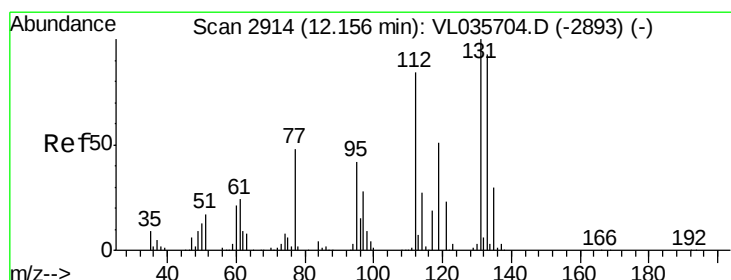
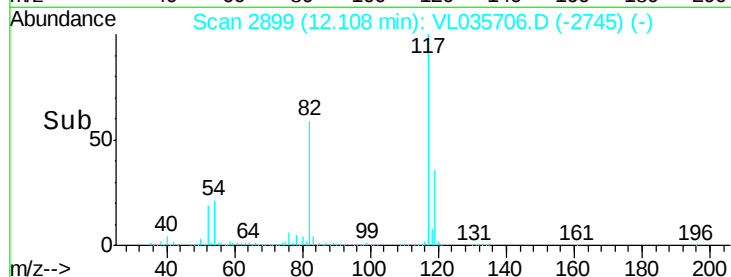
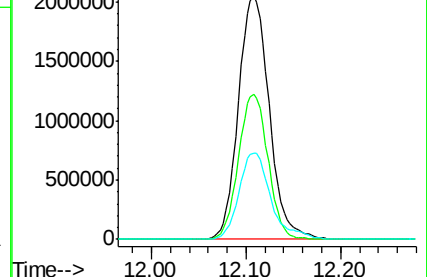
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 1.084 ppbv

RT: 12.15 min Scan# 2911

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Tgt Ion:131 Resp: 207703

Ion Ratio Lower Upper

131 100

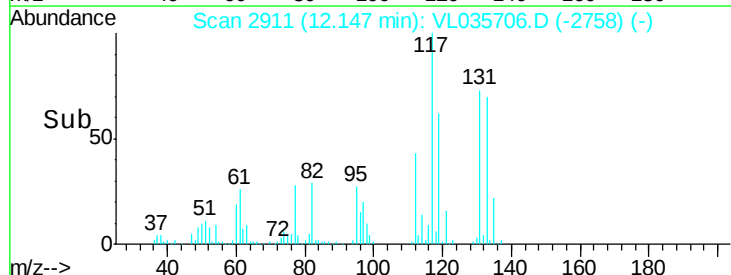
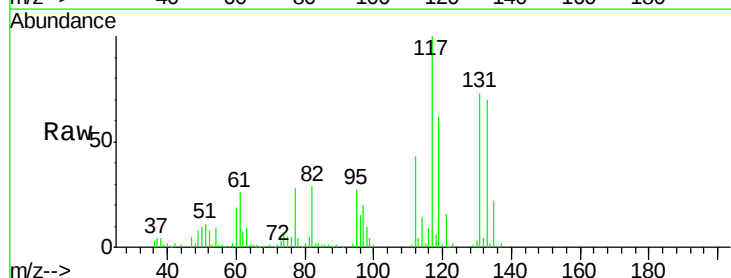
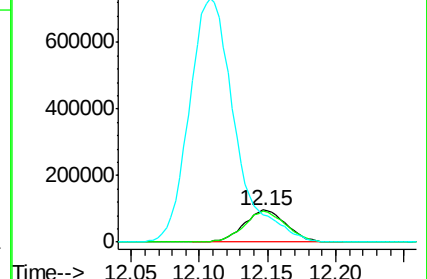
133 95.2 76.2 114.4

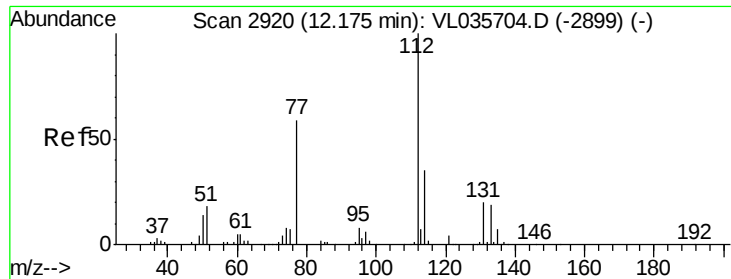
119 823.6 52.4 78.6#

Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





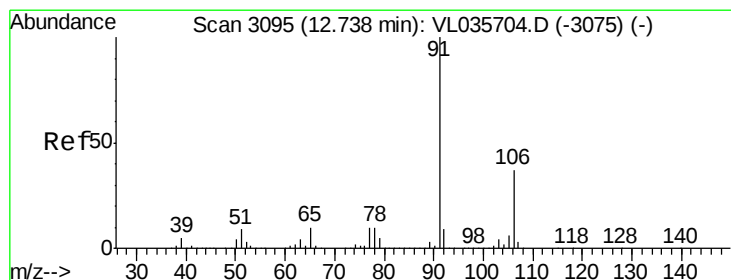
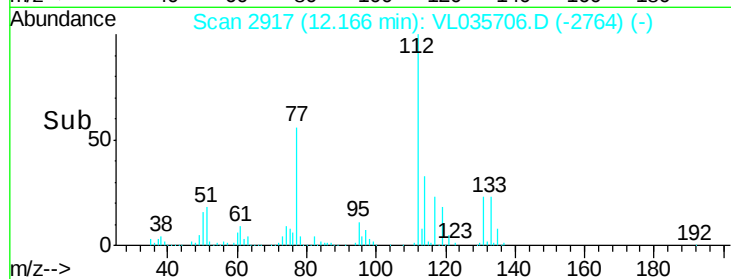
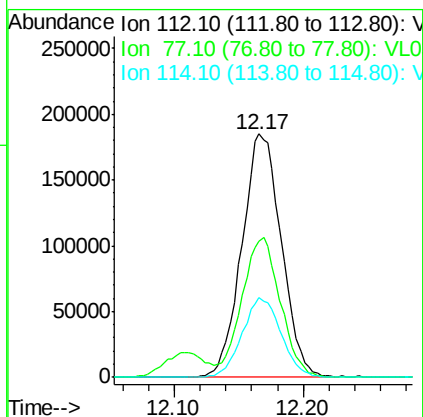
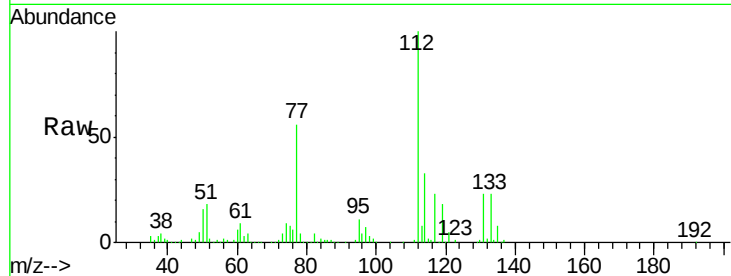
#57
Chlorobenzene
Concen: 1.135 ppbv
RT: 12.17 min Scan# 2917
Delta R.T. -0.01 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
112	100	394592		
77	55.6	48.2	72.2	
114	32.6	31.9	39.1	

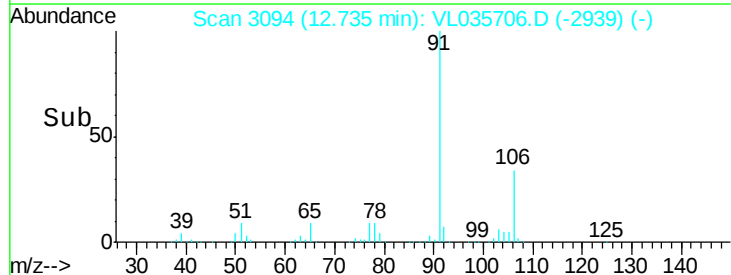
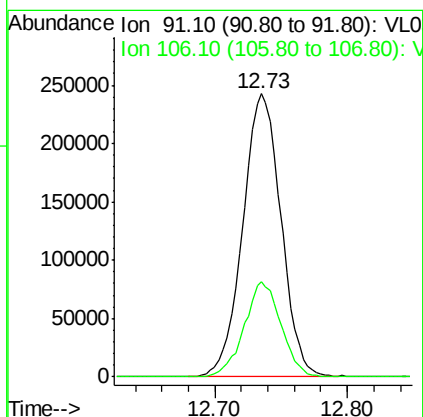
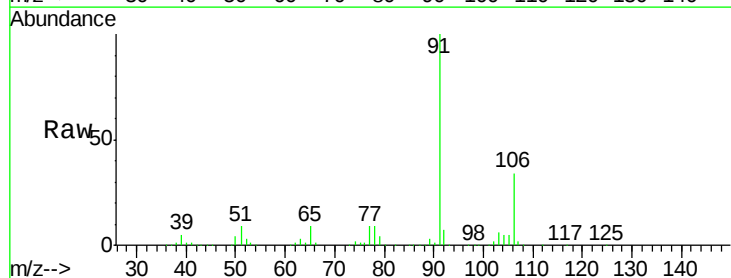
Manual Integrations
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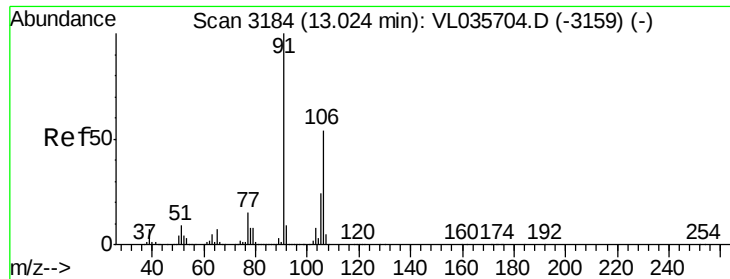
MMDadoda
9/24/2020 1:35:15 PM



#58
Ethyl Benzene
Concen: 0.993 ppbv
RT: 12.73 min Scan# 3094
Delta R.T. -0.00 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	486356		
106	33.6	29.7	44.5	





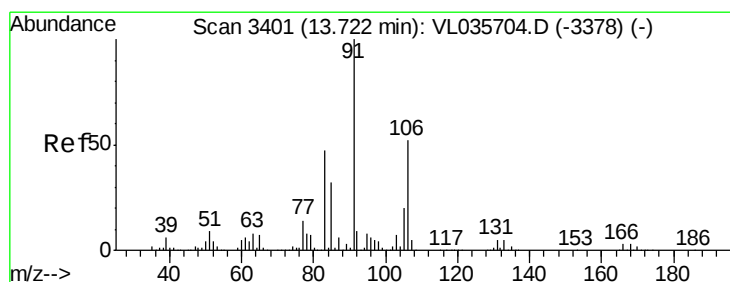
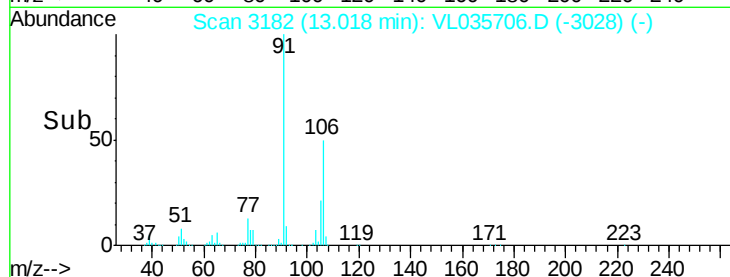
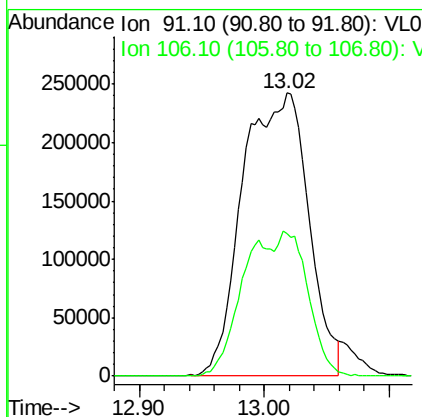
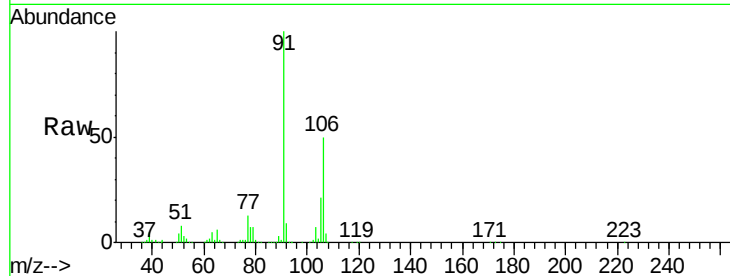
#59
m/p-Xylene
Concen: 2.155 ppbv m
RT: 13.02 min Scan# 3182
Delta R.T. -0.01 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 91 Resp: 887523
Ion Ratio Lower Upper
91 100
106 49.7 41.4 62.0

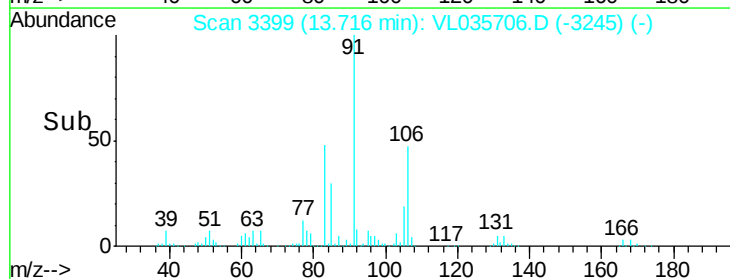
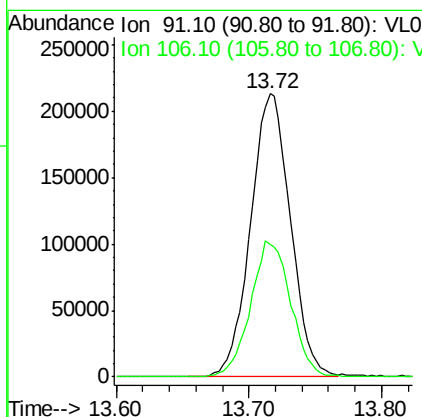
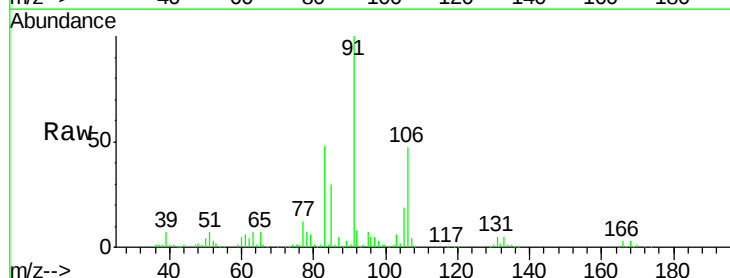
Manual Integrations
APPROVED

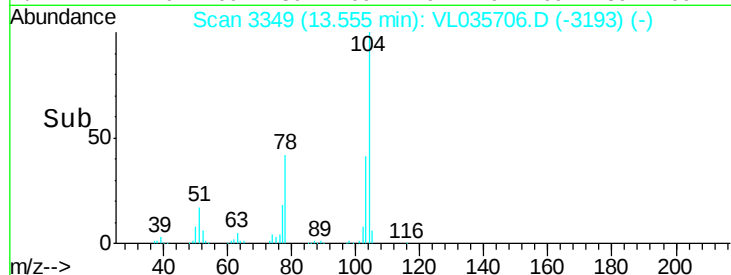
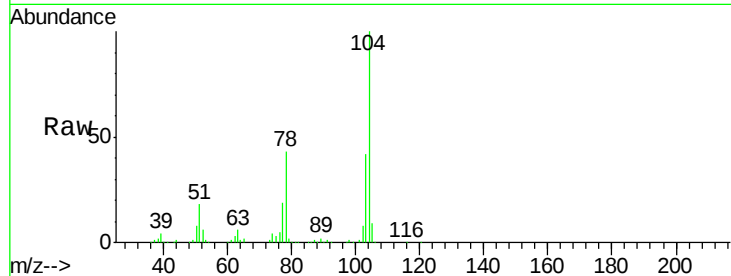
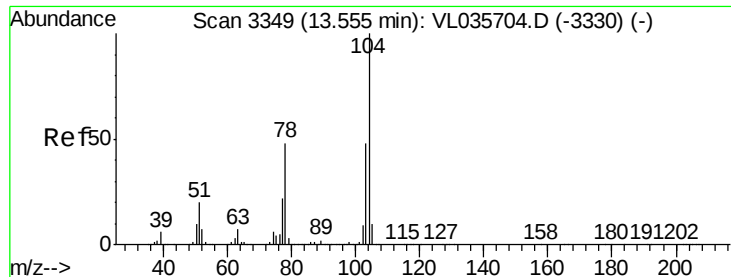
MMDadoda
9/24/2020 1:35:15 PM



#60
o-Xylene
Concen: 1.073 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. -0.01 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Tgt Ion: 91 Resp: 444545
Ion Ratio Lower Upper
91 100
106 48.3 25.0 75.0





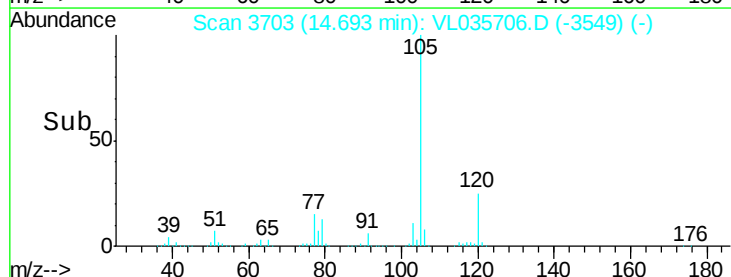
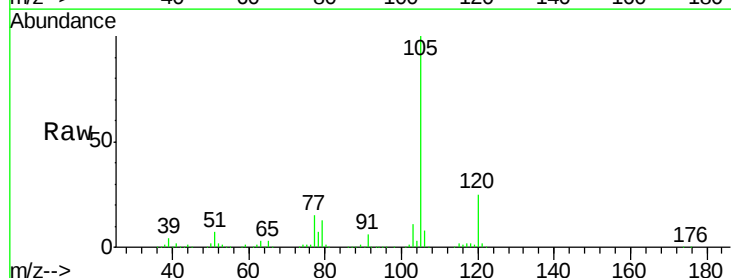
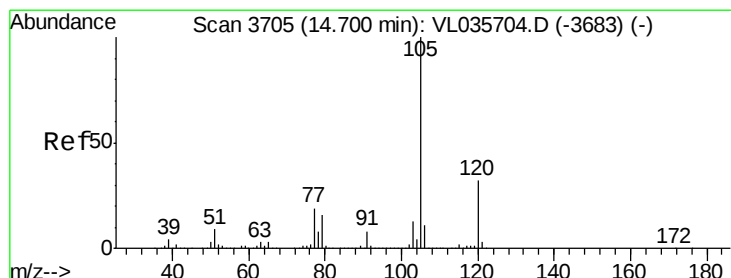
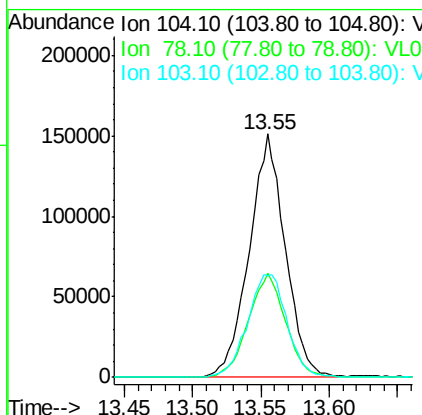
#61
Stvrene
Concen: 0.886 ppbv
RT: 13.55 min Scan# 3349
Delta R.T. 0.00 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
104	100	277165		
78	44.3		37.2	55.8
103	46.8		38.2	57.2

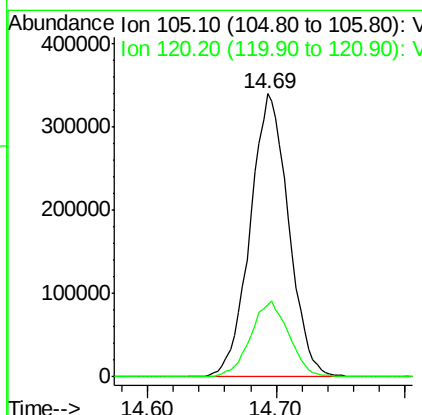
Manual Integrations
APPROVED

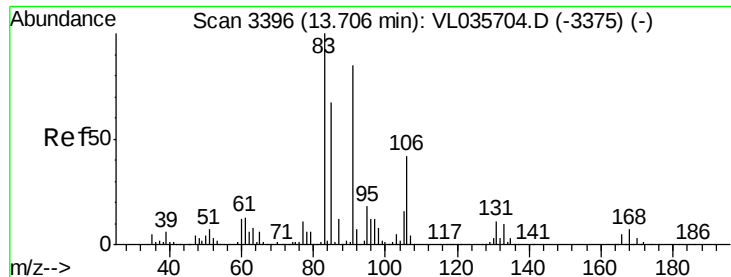
MMDadoda
9/24/2020 1:35:15 PM



#62
Isopropylbenzene
Concen: 1.071 ppbv
RT: 14.69 min Scan# 3703
Delta R.T. -0.01 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	706547		
120	26.7		24.1	36.1





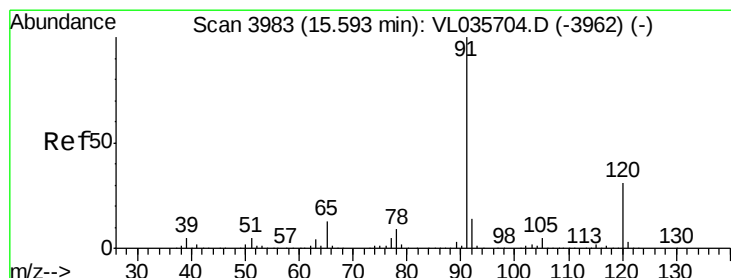
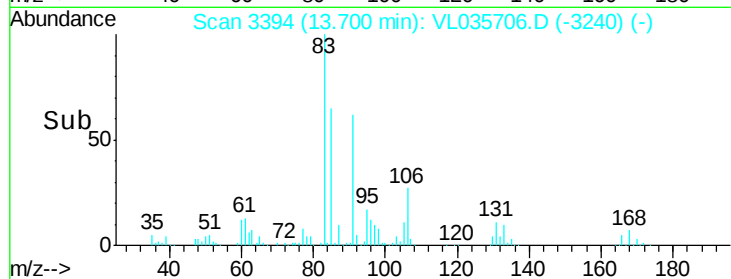
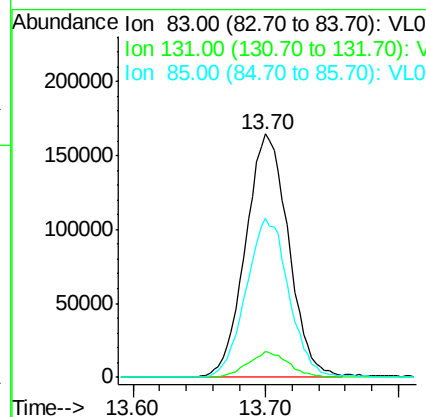
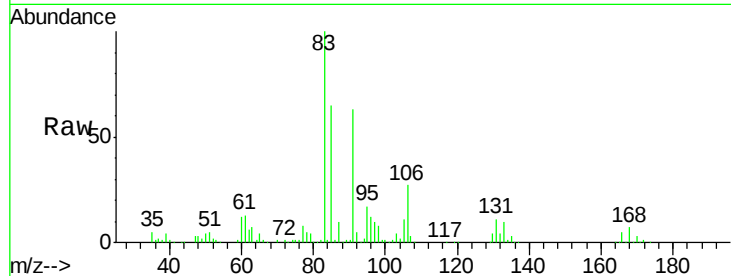
#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.159 ppbv
 RT: 13.70 min Scan# 3394
 Delta R.T. -0.01 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	83	Resp	371542
Ion Ratio	100	Lower	Upper
83	100		
131	10.0	5.3	16.1
85	65.4	33.4	100.2

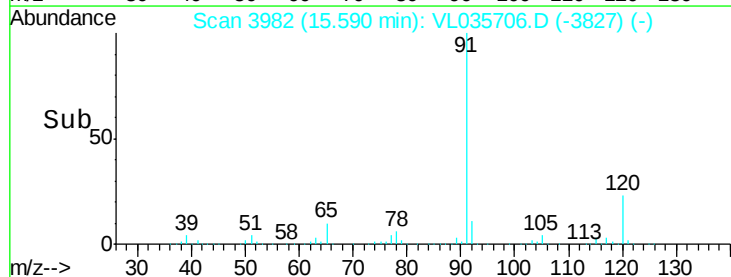
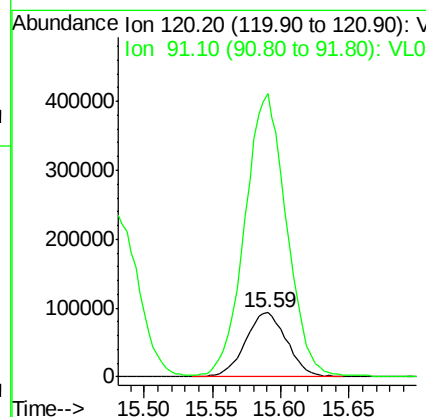
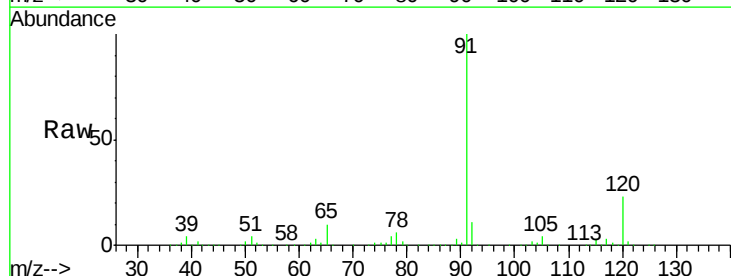
Manual Integrations
 APPROVED

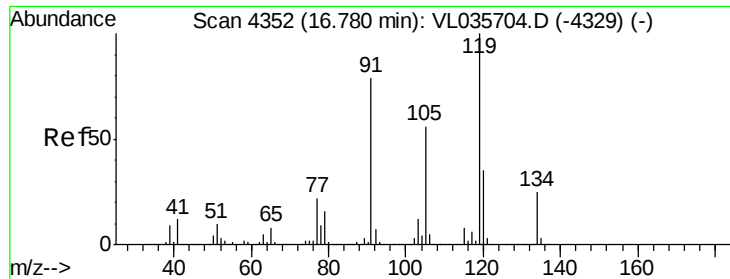
MMDadoda
 9/24/2020 1:35:15 PM



#64
 n-propylbenzene
 Concen: 0.984 ppbv
 RT: 15.59 min Scan# 3982
 Delta R.T. -0.00 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Tgt Ion	120	Resp	196453
Ion Ratio	100	Lower	Upper
120	100		
91	445.4	300.4	450.6





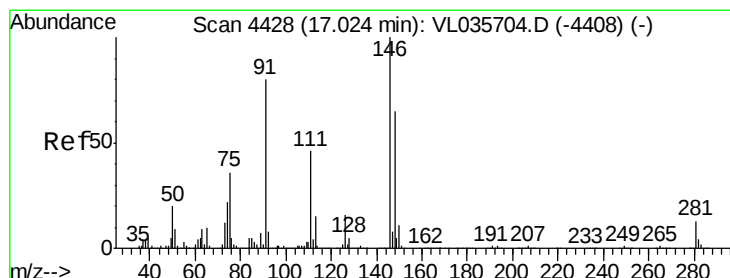
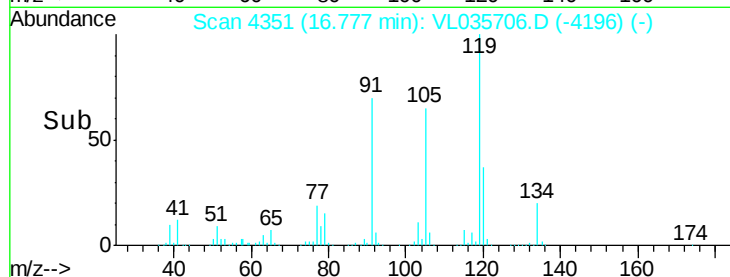
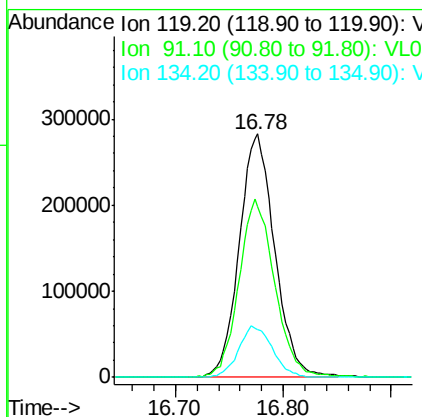
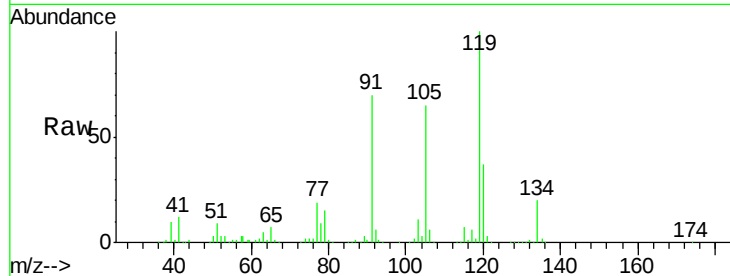
#65
tert-Butylbenzene
Concen: 1.058 ppbv
RT: 16.78 min Scan# 4351
Delta R.T. -0.00 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
119	100	645633		
91	74.7	62.4	93.6	
134	20.4	18.2	27.2	

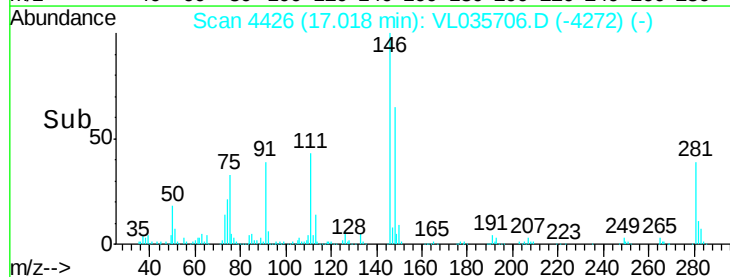
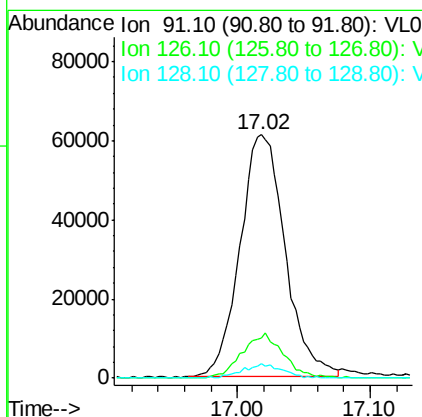
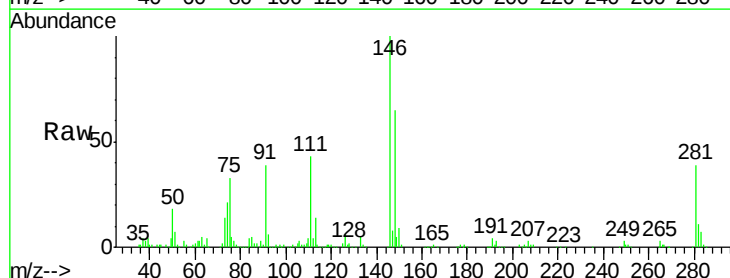
Manual Integrations
APPROVED

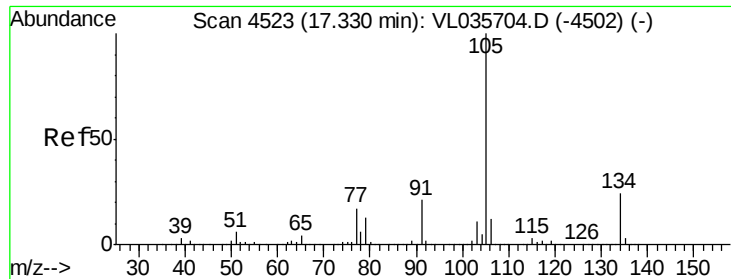
MMDadoda
9/24/2020 1:35:15 PM



#66
Benzyl Chloride
Concen: 0.923 ppbv
RT: 17.02 min Scan# 4426
Delta R.T. -0.01 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	144675		
126	16.9	15.3	22.9	
128	5.2	5.0	7.4	





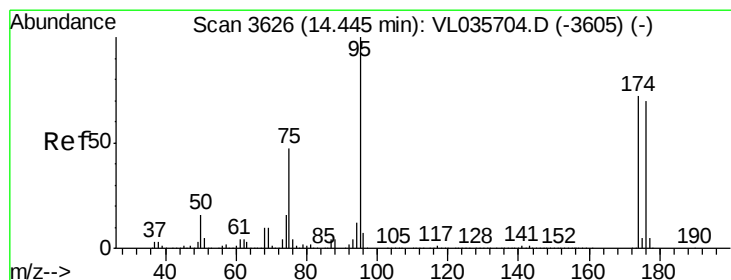
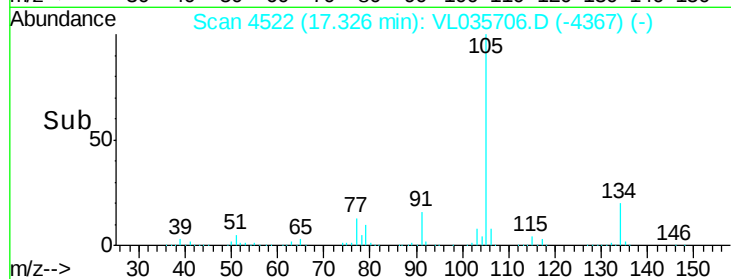
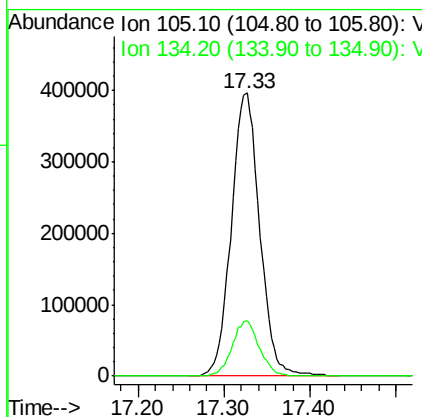
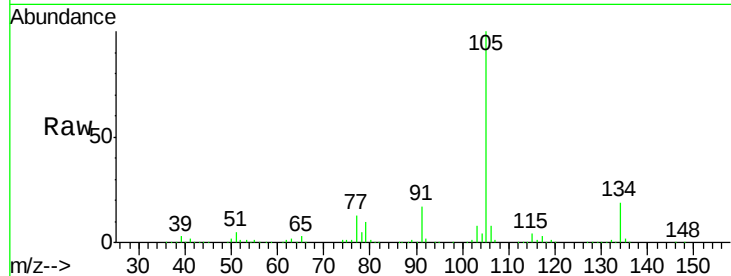
#67
 sec-Butylbenzene
 Concen: 1.110 ppbv
 RT: 17.33 min Scan# 4522
 Delta R.T. -0.00 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.8	17.6	26.4

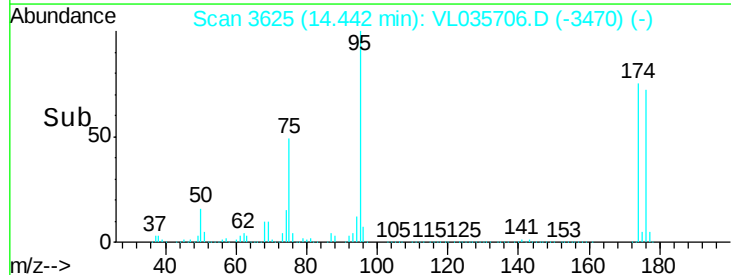
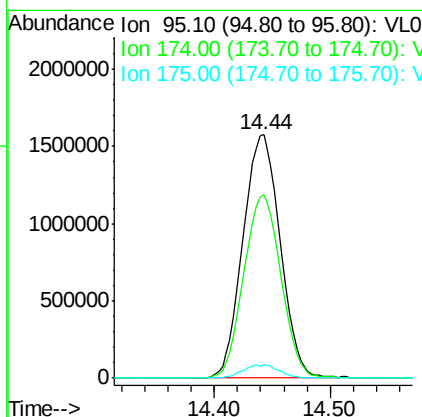
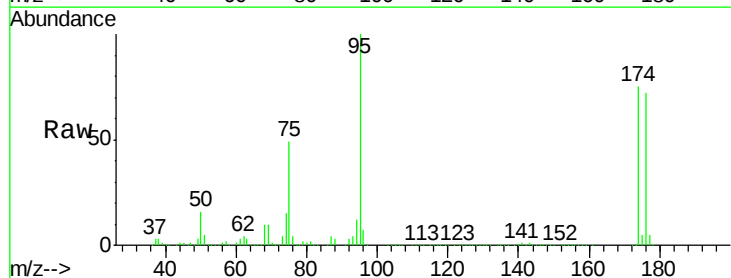
Manual Integrations
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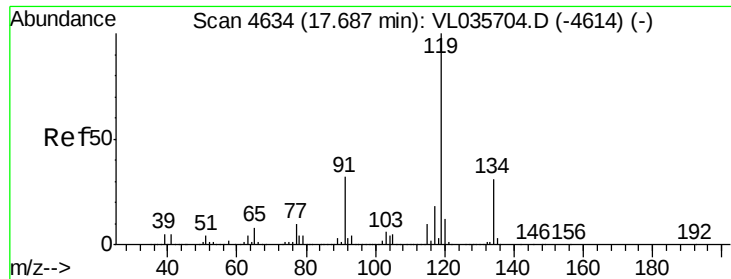
MMDadoda
 9/24/2020 1:35:15 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.541 ppbv
 RT: 14.44 min Scan# 3625
 Delta R.T. -0.00 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Tgt Ion	Ratio	Lower	Upper
95	100		
174	75.6	59.6	89.4
175	5.4	4.2	6.4





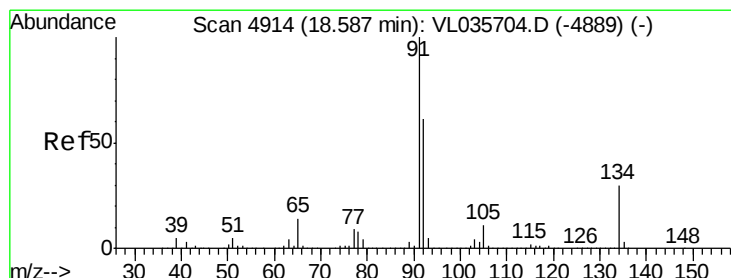
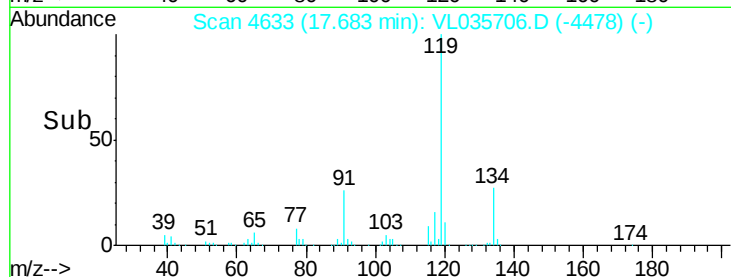
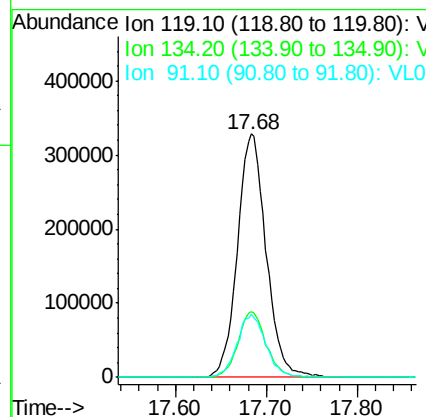
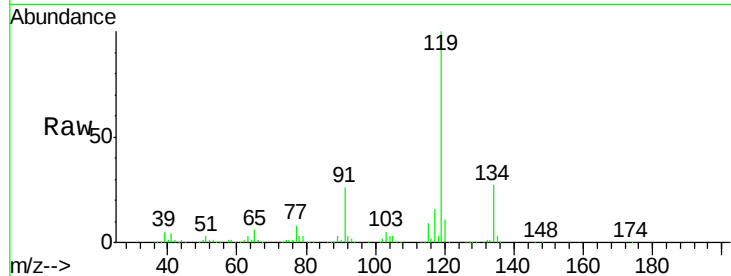
#69
 p-Isopropyltoluene
 Concen: 1.010 ppbv
 RT: 17.68 min Scan# 4633
 Delta R.T. -0.00 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
119	100	718084		
134	26.5		23.9	35.9
91	26.4		23.8	35.6

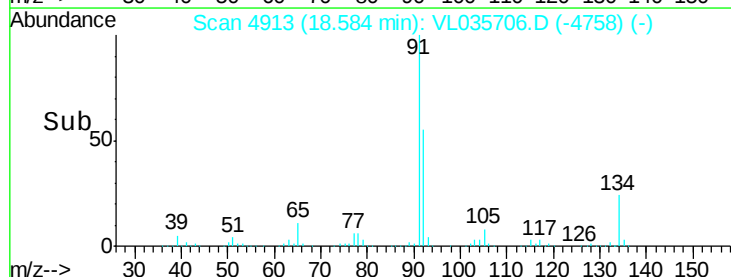
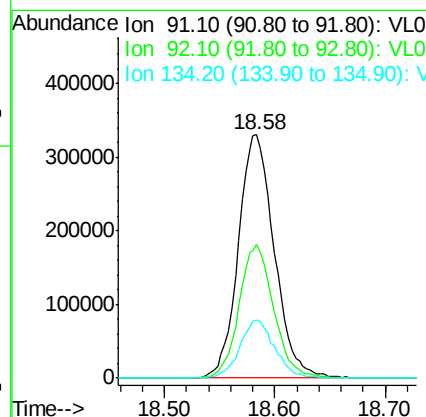
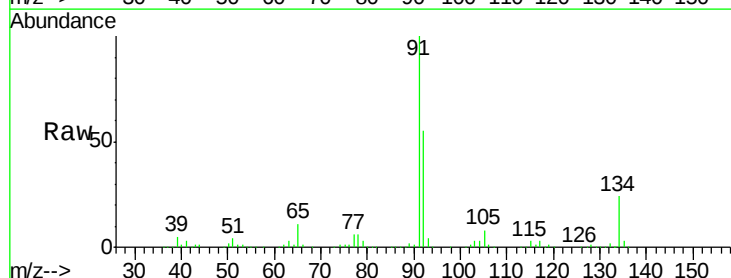
Manual Integrations
 APPROVED

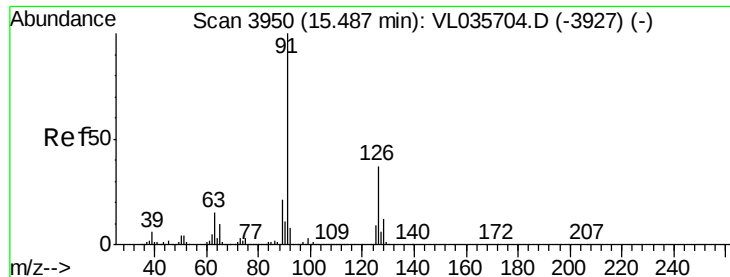
MMDadoda
 9/24/2020 1:35:15 PM



#70
 n-Butylbenzene
 Concen: 1.072 ppbv
 RT: 18.58 min Scan# 4913
 Delta R.T. -0.00 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	741240		
92	53.2		47.0	70.4
134	23.4		21.9	32.9





#71

2-Chlorotoluene

Concen: 1.019 ppbv

RT: 15.48 min Scan# 3948

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 491381

Ion Ratio Lower Upper

91 100

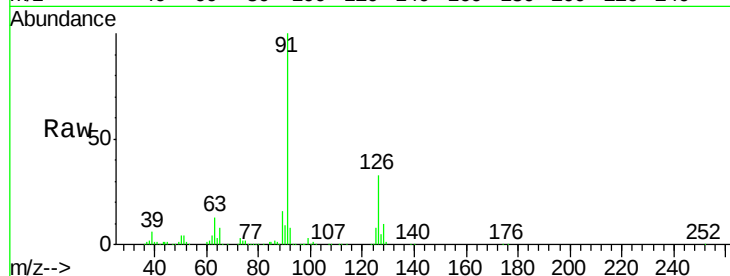
126 34.3 14.4 57.4

Manual Integrations

APPROVED

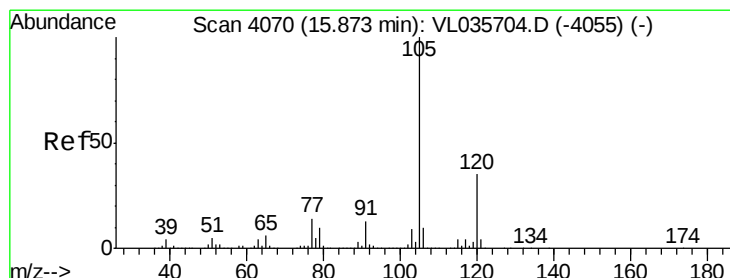
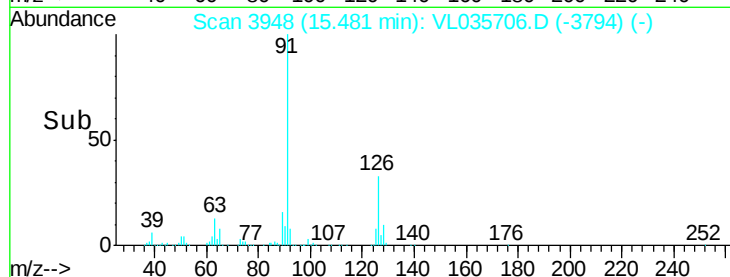
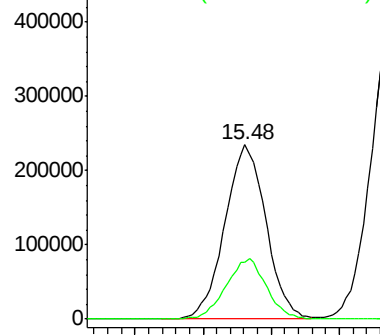
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.993 ppbv

RT: 15.87 min Scan# 4068

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Tgt Ion: 105 Resp: 517334

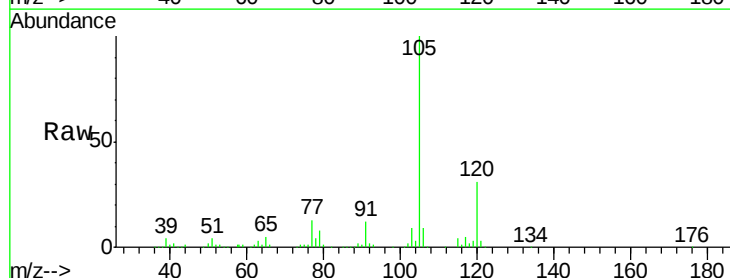
Ion Ratio Lower Upper

105 100

120 30.4 26.5 39.7

91 12.3 10.2 15.2

77 12.1 10.3 15.5

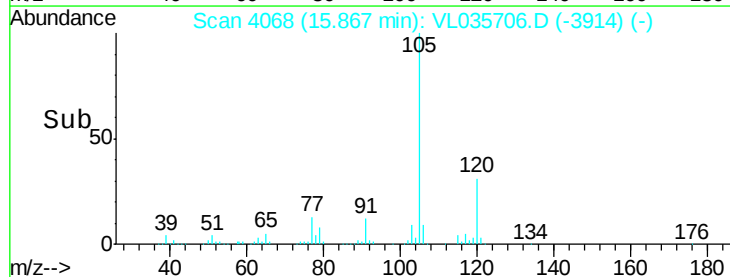
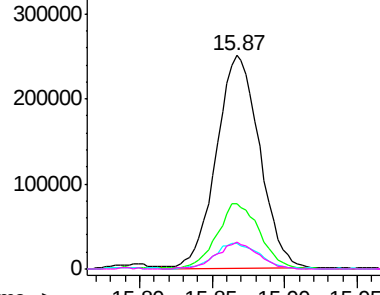


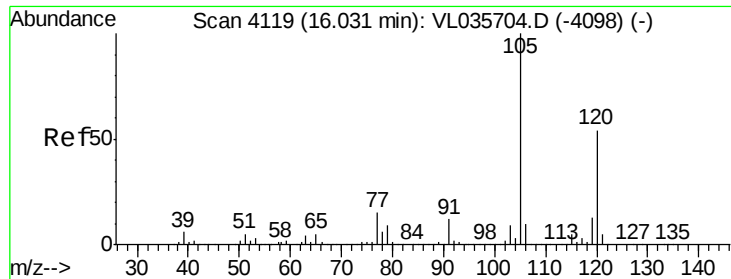
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 1.018 ppbv

RT: 16.03 min Scan# 4118

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 491025

Ion Ratio Lower Upper

105 100

120 46.0

43.0

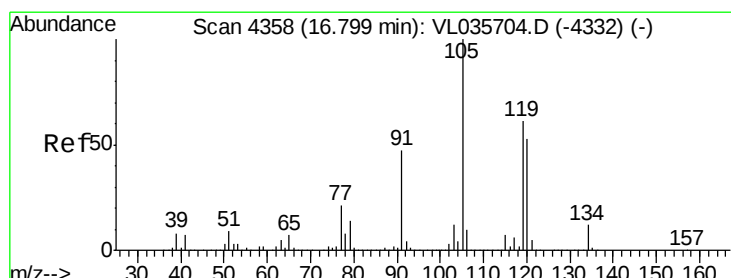
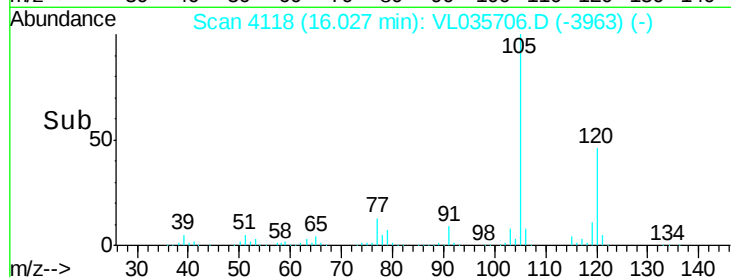
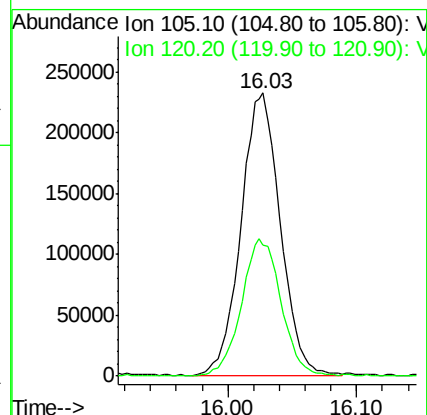
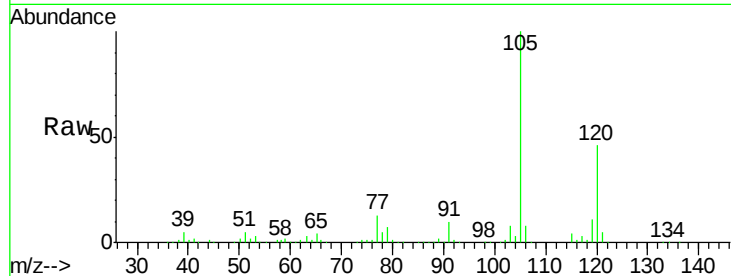
64.4

Manual Integrations

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#74

1,2,4-Trimethylbenzene

Concen: 1.098 ppbv

RT: 16.79 min Scan# 4354

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Tgt Ion:105 Resp: 582441

Ion Ratio Lower Upper

105 100

120 51.0

42.5

63.7

91 55.9

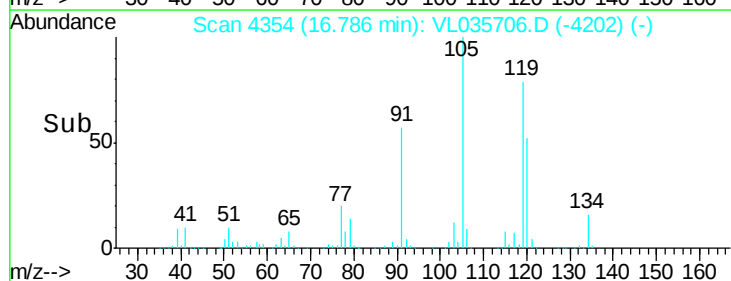
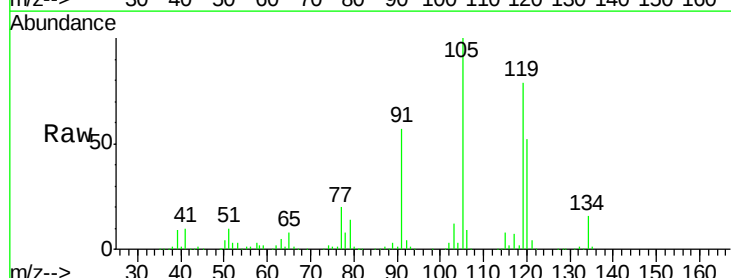
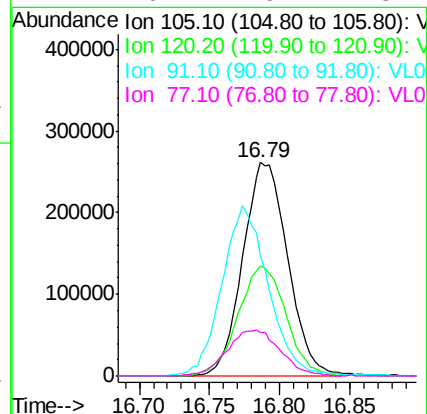
37.7

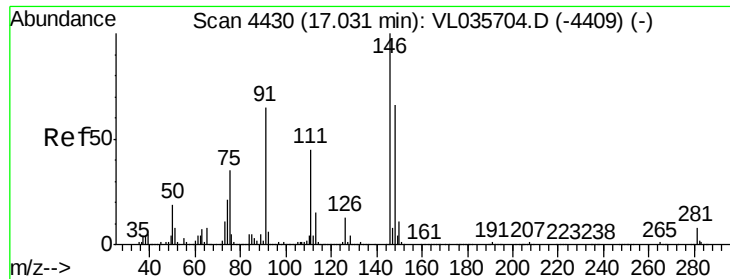
56.5

77 20.2

16.7

25.1





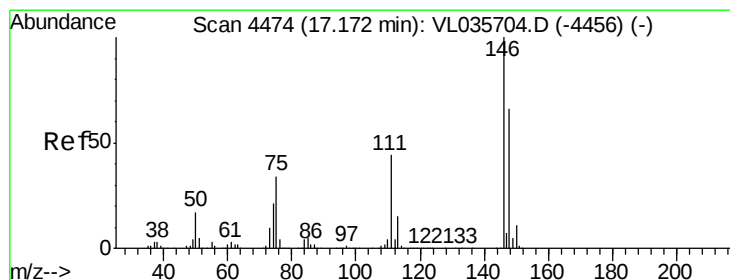
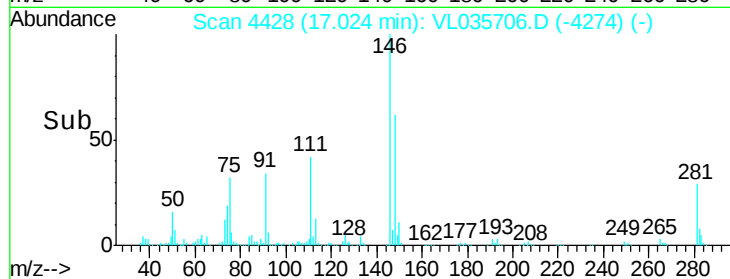
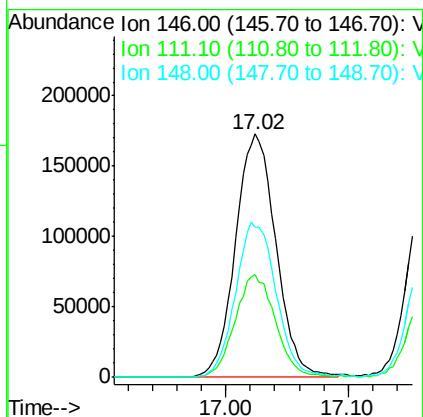
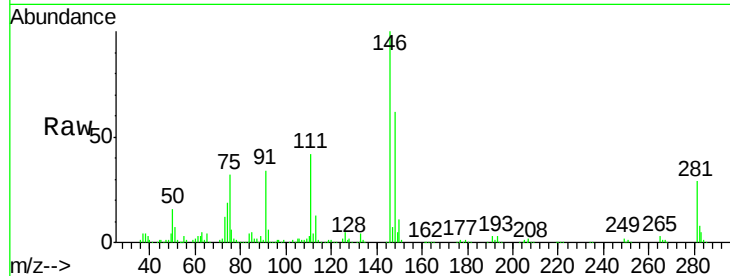
#75
 1,3-Dichlorobenzene
 Concen: 1.030 ppbv
 RT: 17.02 min Scan# 4428
 Delta R.T. -0.01 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.3	22.4	67.0
148	64.2	33.0	99.0

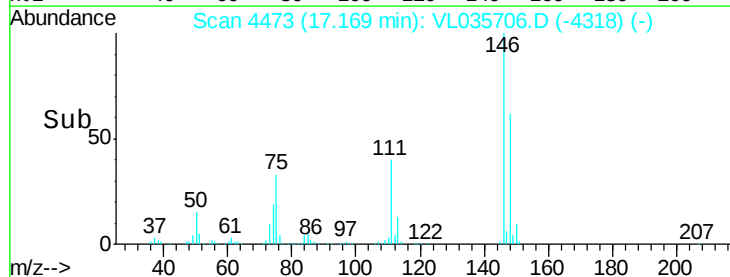
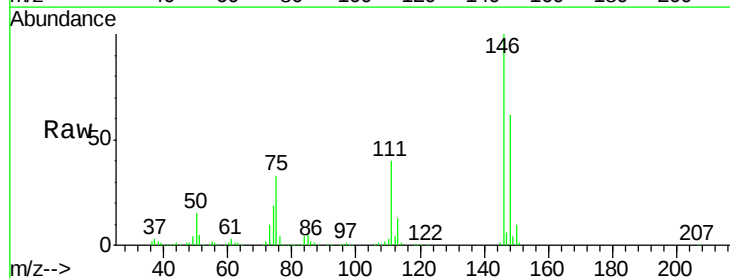
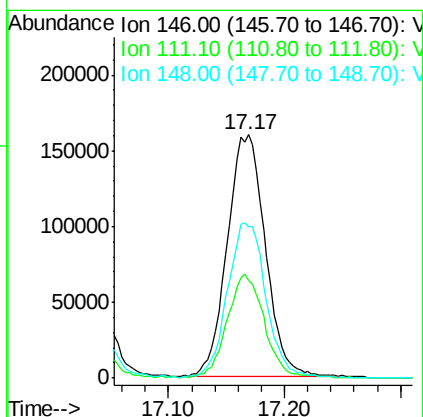
Manual Integrations
 APPROVED

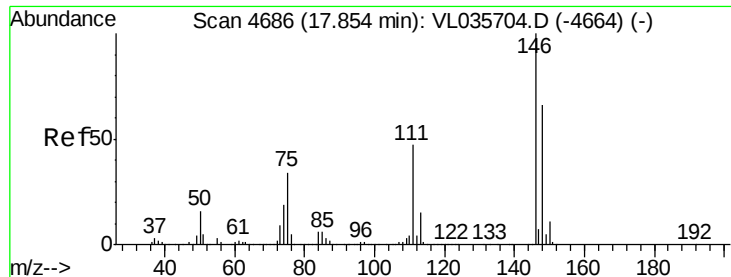
MMDadoda
 9/24/2020 1:35:15 PM



#76
 1,4-Dichlorobenzene
 Concen: 0.951 ppbv
 RT: 17.17 min Scan# 4473
 Delta R.T. -0.00 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.4	64.3
148	65.9	32.6	98.0





#77

1,2-Dichlorobenzene

Concen: 0.971 ppbv

RT: 17.85 min Scan# 4684

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

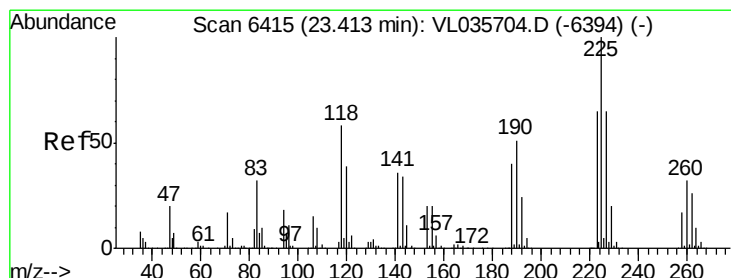
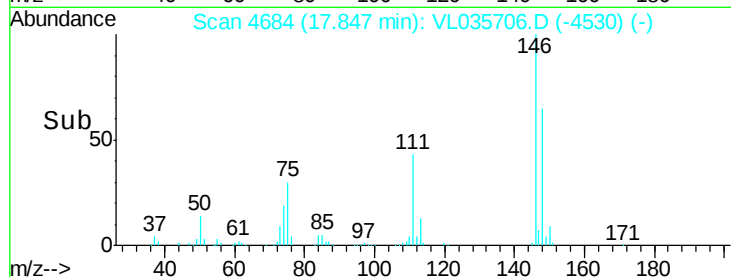
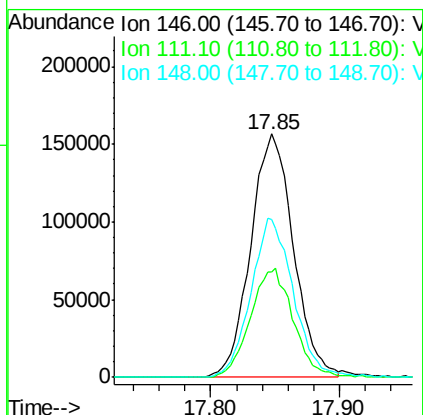
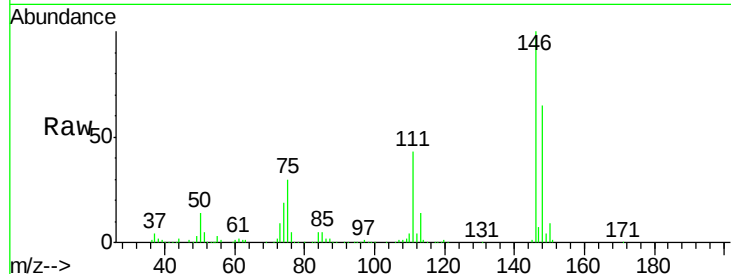
ClientSampleId :

VSTDIC001

Tot Ion:	146	Resp:	361937
Ion Ratio		Lower	Upper
146	100		
111	45.0	22.9	68.5
148	65.2	32.6	98.0

Manual Integrations
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#78

Hexachloro-1,3-Butadiene

Concen: 0.833 ppbv

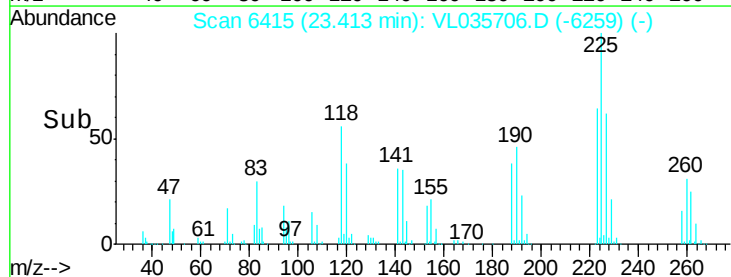
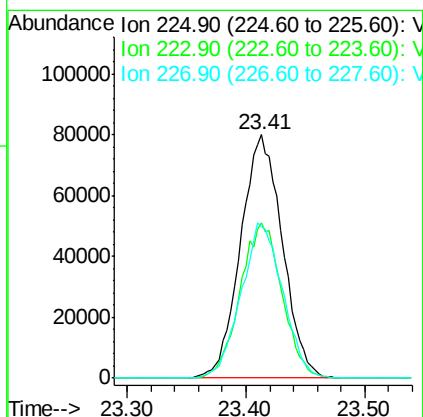
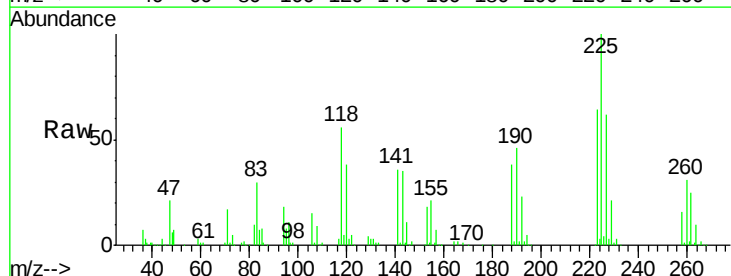
RT: 23.41 min Scan# 6415

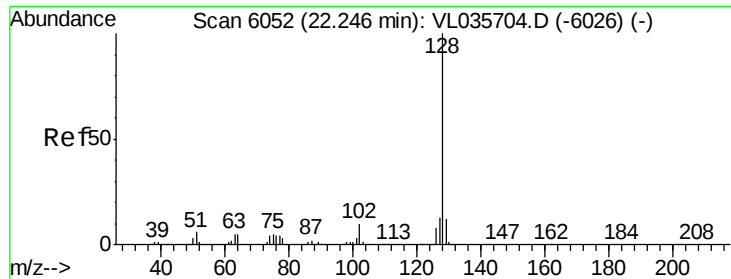
Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Tgt Ion:	225	Resp:	194246
Ion Ratio		Lower	Upper
225	100		
223	63.8	51.3	76.9
227	63.6	51.6	77.4





#79

Naphthalene

Concen: 0.881 ppbv

RT: 22.25 min Scan# 6052

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

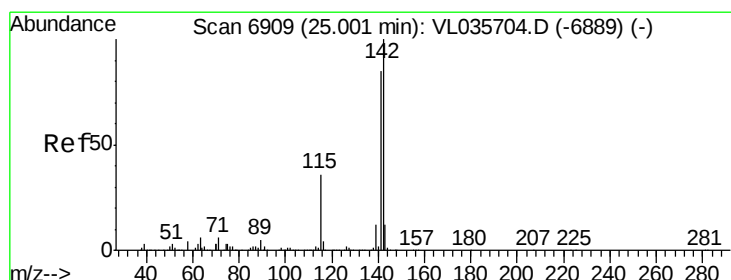
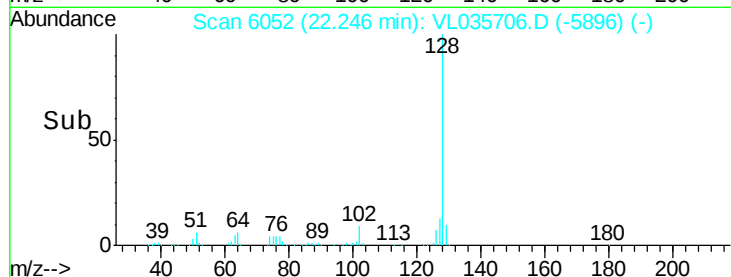
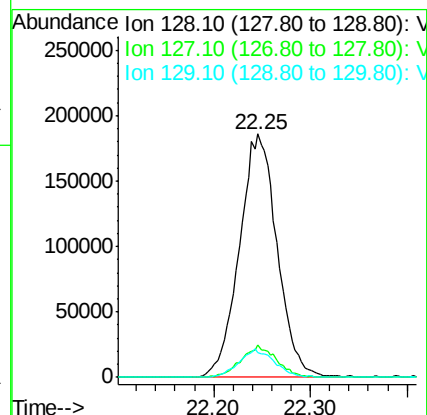
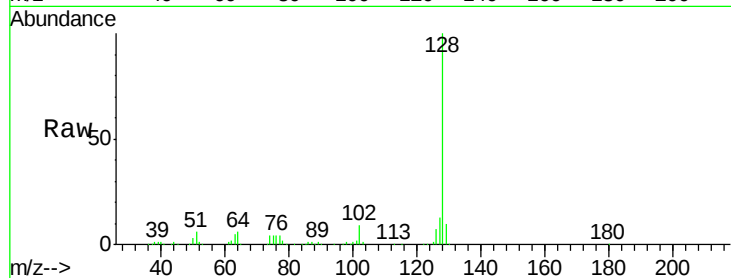
ClientSampleId :

VSTDIC001

Tot Ion:	128	Resp:	501848
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.6	15.8
129	10.4	9.4	14.0

Manual Integrations
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#80

Naphthalene, 2-methyl-

Concen: 0.357 ppbv

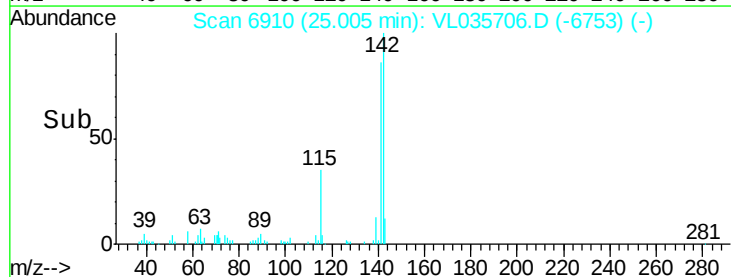
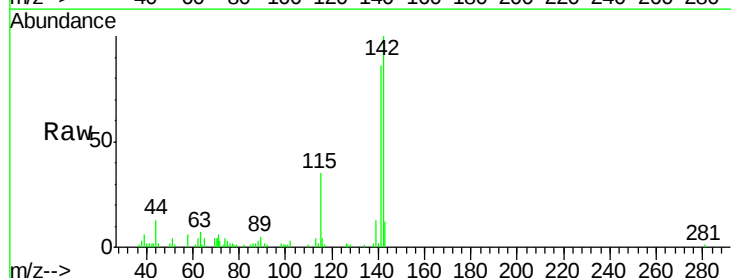
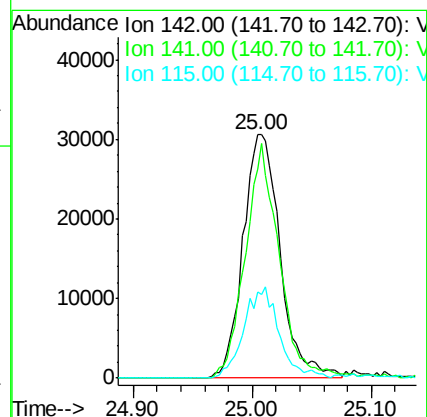
RT: 25.00 min Scan# 6910

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Tgt Ion:	142	Resp:	66140
Ion Ratio	Lower	Upper	
142	100		
141	89.2	68.2	102.4
115	35.2	27.8	41.6





#81
 1,2,4-Trichlorobenzene
 Concen: 0.784 ppbv
 RT: 21.97 min Scan# 5967
 Delta R.T. 0.00 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.7	76.2	114.2
184	29.8	24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 9/24/2020 1:35:15 PM

