

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081220\
 Data File : VL035397.D
 Acq On : 13 Aug 2020 7:56
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 8/17/2020 5:44:11 PM

Quant Time: Aug 13 10:59:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081220AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 13 2020
 QLast Update : Wed Aug 12 20:32:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1403165	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3307074	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3187721m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2698563	10.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	1502731	8.893 ppbv	99
3) Chlorodifluoromethane	2.98	51	1516054	9.293 ppbv	98
4) Chloromethane	3.13	50	840049	9.215 ppbv	99
5) Vinyl Chloride	3.25	62	815659	9.052 ppbv	97
6) Bromomethane	3.47	94	466378	9.334 ppbv	100
7) Chloroethane	3.55	64	290313	9.134 ppbv	97
8) Dichlorotetrafluoroethane	3.18	85	1770059	9.024 ppbv	96
9) Propene	3.00	41	729732	8.635 ppbv	99
10) Heptane	8.13	43	1878421	8.581 ppbv	99
11) Trichlorofluoromethane	3.94	101	1912029	9.330 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1275508	9.146 ppbv	96
13) Ethanol	3.60	45	182751	6.595 ppbv	98
14) Bromoethene	3.73	108	586816	9.418 ppbv	99
15) Acetone	3.84	43	1438002	8.137 ppbv	100
16) 1,3-Butadiene	3.32	39	762169	8.399 ppbv	99
17) tert-Butyl alcohol	4.29	59	1841128	8.931 ppbv	99
18) 1,1-Dichloroethene	4.29	96	585617	9.166 ppbv	98
19) Isopropyl Alcohol	3.96	45	1213666	8.800 ppbv	98
20) Methylene Chloride	4.34	84	526243	7.885 ppbv	99
21) Allyl Chloride	4.41	41	1022442	8.811 ppbv	98
22) trans-1,2-Dichloroethene	4.88	96	599401	9.339 ppbv	94
23) Vinyl Acetate	5.07	43	2474985	8.772 ppbv	100
24) 1,1-Dichloroethane	5.01	63	1700486	9.153 ppbv	100
25) Ethyl Acetate	5.68	43	3095850	8.487 ppbv	99
26) Hexane	5.69	57	1365652	8.556 ppbv	99
27) Carbon Disulfide	4.55	76	1579847	9.271 ppbv	100
28) Methyl tert-Butyl Ether	5.03	73	2305646	8.748 ppbv	99
29) Chloroform	5.75	83	2147409	9.427 ppbv	98
30) Cyclohexane	7.13	84	1188784	9.036 ppbv	97
31) cis-1,2-Dichloroethene	5.55	61	1451512	9.171 ppbv	98
32) 1,1,1-Trichloroethane	6.52	97	2147303	8.642 ppbv	99
34) 2-Butanone	5.24	43	2119918	8.995 ppbv	99
35) Carbon Tetrachloride	7.02	117	2136034	9.292 ppbv	96
36) Benzene	6.90	78	2839581	8.954 ppbv	100
37) 1,2-Dichloroethane	6.31	62	1694968	9.629 ppbv	99
38) Trichloroethene	7.84	130	1014016	8.159 ppbv	96
39) 1,2-Dichloropropane	7.62	63	1132563	9.019 ppbv	98
40) 1,4-Dioxane	7.84	88	438256	8.569 ppbv	97
41) Tetrahydrofuran	6.05	42	1254496	8.922 ppbv	99
42) Bromodichloromethane	7.80	83	2387530	9.628 ppbv	99
43) Methyl Methacrylate	8.02	69	1307086	9.291 ppbv	98

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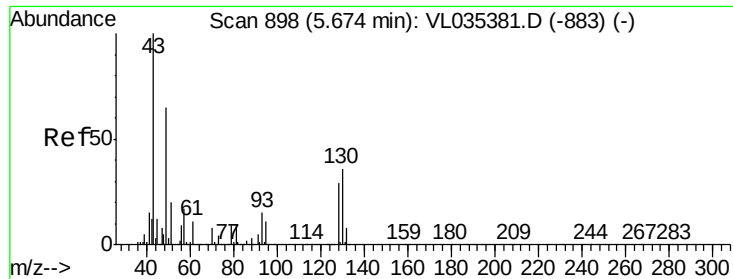
Manual Integrations
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 8/17/2020 5:44:11 PM

Quant Time: Aug 13 10:59:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081220AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 13 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	4739152	8.687	ppbv	100
45) t-1,3-Dichloropropene	9.29	75	1566453	9.596	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	1768459	9.276	ppbv	96
47) 1,1,2-Trichloroethane	9.49	97	1191583	9.356	ppbv	97
48) Dibromochloromethane	10.32	129	1914877	9.406	ppbv	100
49) Bromoform	13.06	173	1598490	9.578	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	3127445	8.805	ppbv	99
51) 2-Hexanone	10.15	43	2662986	8.906	ppbv #	100
52) Tetrachloroethene	11.24	164	909677	8.090	ppbv	98
53) Toluene	9.82	91	3321317	8.823	ppbv	100
54) 1,2-Dibromoethane	10.63	107	1821063	9.028	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.14	131	1400414	9.041	ppbv	96
57) Chlorobenzene	12.16	112	2427857	8.934	ppbv	98
58) Ethyl Benzene	12.73	91	4517103	8.966	ppbv	100
59) m/p-Xylene	13.01	91	7629150m	18.158	ppbv	
60) o-Xylene	13.71	91	3620247	8.899	ppbv	99
61) Styrene	13.55	104	2727182	9.080	ppbv	98
62) Isopropylbenzene	14.69	105	5292770	8.673	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.70	83	2555596	8.612	ppbv	99
64) n-propylbenzene	15.58	120	1426156	8.859	ppbv	93
65) tert-Butylbenzene	16.77	119	4549869	8.469	ppbv	97
66) Benzyl Chloride	17.01	91	2162909	8.914	ppbv	98
67) sec-Butylbenzene	17.32	105	6650813	8.588	ppbv	99
69) p-Isopropyltoluene	17.68	119	5533087	8.571	ppbv	98
70) n-Butylbenzene	18.58	91	6218322	8.700	ppbv	99
71) 2-Chlorotoluene	15.47	91	4417892	8.993	ppbv	97
72) 4-Ethyltoluene	15.86	105	4382318	8.825	ppbv	98
73) 1,3,5-Trimethylbenzene	16.02	105	4142155	8.896	ppbv	98
74) 1,2,4-Trimethylbenzene	16.79	105	4145066	8.464	ppbv	95
75) 1,3-Dichlorobenzene	17.02	146	2291966	8.576	ppbv	99
76) 1,4-Dichlorobenzene	17.17	146	2376707	8.658	ppbv	98
77) 1,2-Dichlorobenzene	17.84	146	2334727	8.665	ppbv	99
78) Hexachloro-1,3-Butadiene	23.40	225	1768299	7.959	ppbv	99
79) Naphthalene	22.23	128	5008892	8.213	ppbv	99
80) Naphthalene, 2-methyl-	24.99	142	2208158	7.774	ppbv	98
81) 1,2,4-Trichlorobenzene	21.96	180	2361884	8.181	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1403165

Ion Ratio Lower Upper

49 100

128 43.0 21.8 65.3

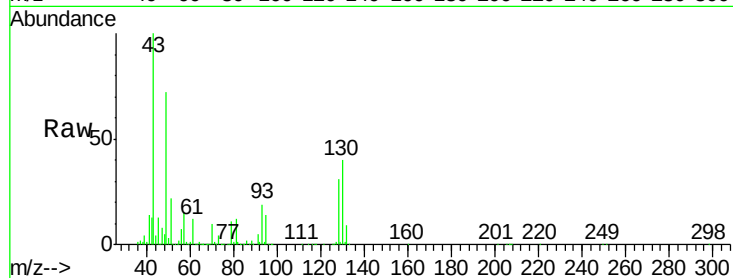
130 54.1 27.9 83.6

Manual Integrations

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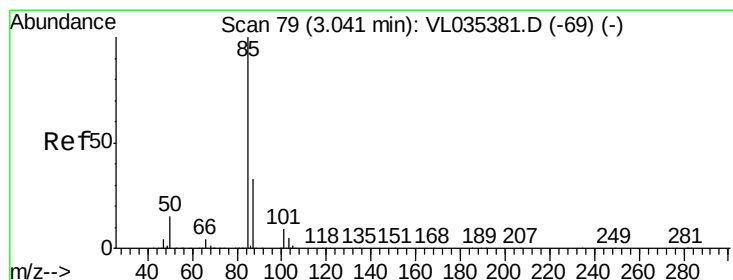
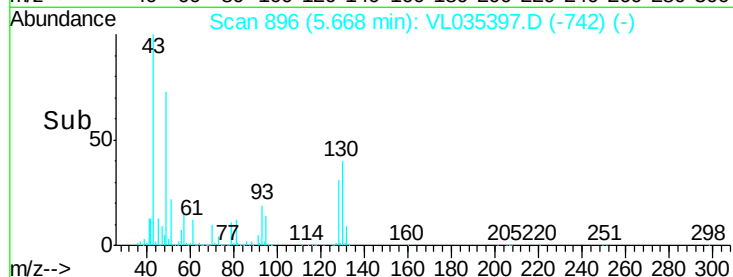
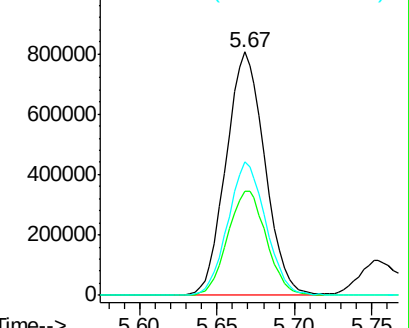
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 8.893 ppbv

RT: 3.04 min Scan# 79

Delta R.T. 0.00 min

Lab File: VL035397.D

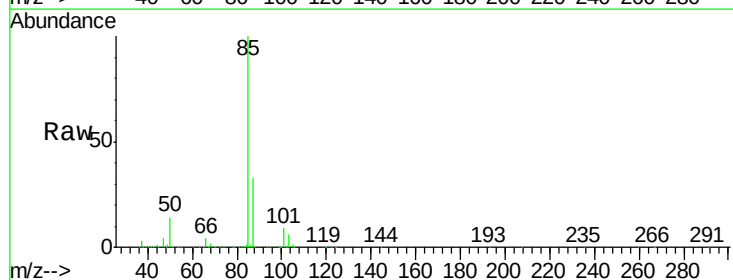
Acq: 13 Aug 2020 7:56

Tgt Ion: 85 Resp: 1502731

Ion Ratio Lower Upper

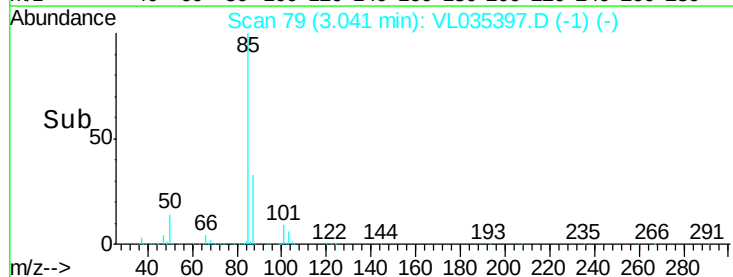
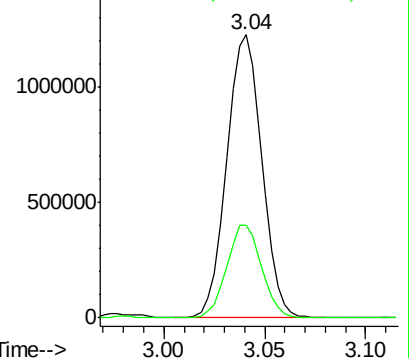
85 100

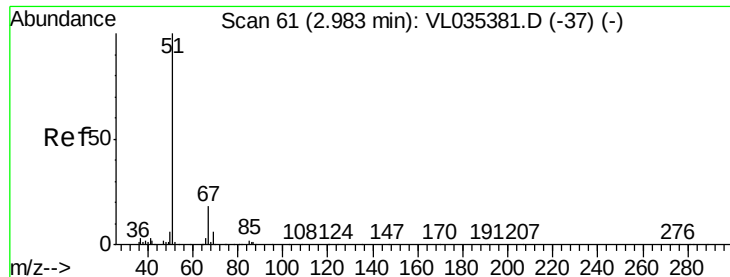
87 32.9 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.293 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.00 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Tot Ion: 51 Resp: 1516054

Ion Ratio Lower Upper

51 100

67 18.7 14.1 21.1

Instrument :

MSVOA_L

ClientSampleId :

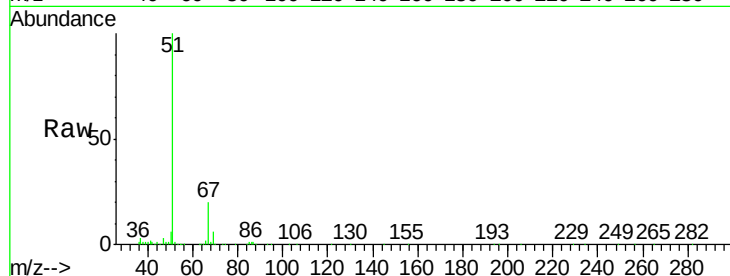
VSTDCCC010EC

Manual Integrations

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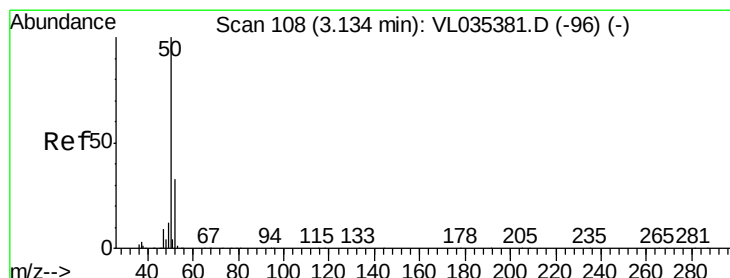
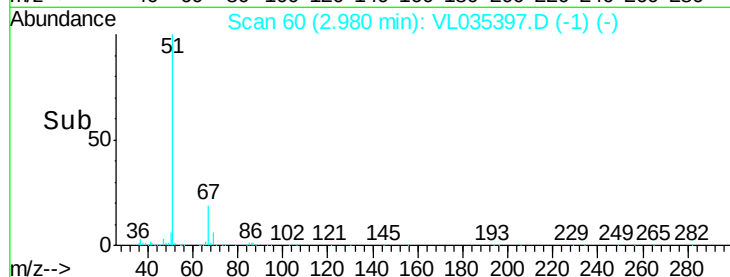
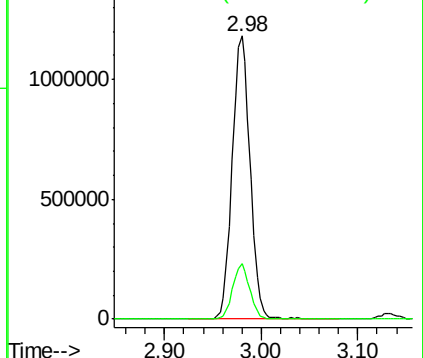
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.215 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.00 min

Lab File: VL035397.D

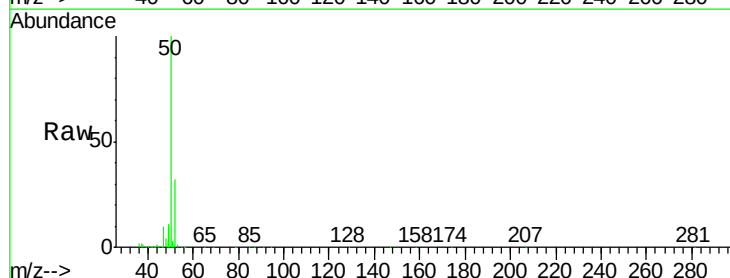
Acq: 13 Aug 2020 7:56

Tgt Ion: 50 Resp: 840049

Ion Ratio Lower Upper

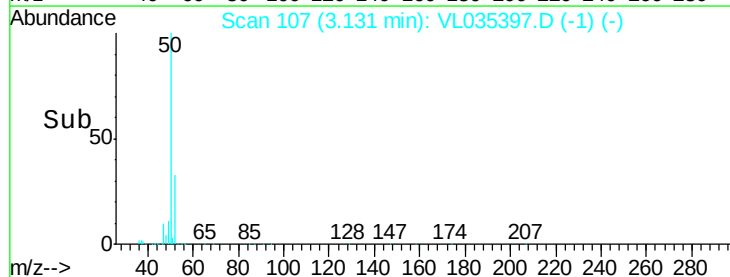
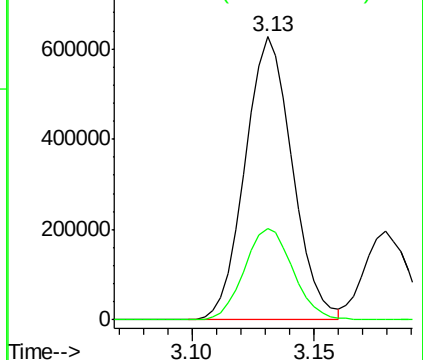
50 100

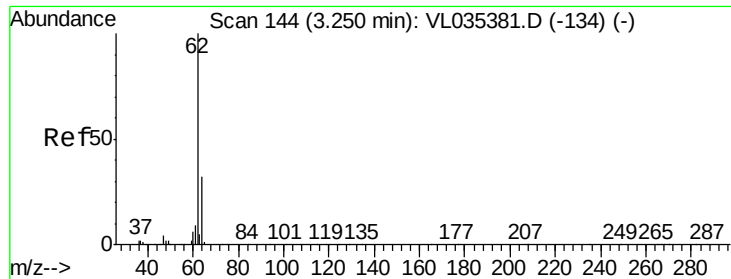
52 32.5 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.052 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.00 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 815659

Ion Ratio Lower Upper

62 100

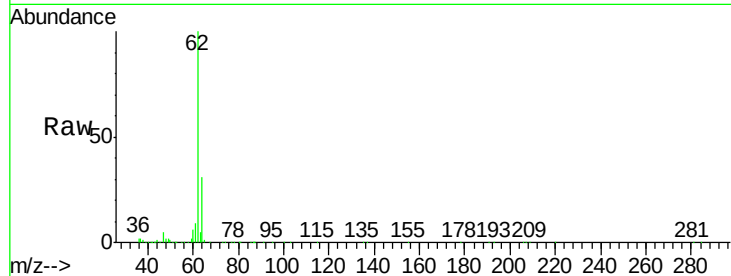
64 30.6 25.7 38.5

Manual Integrations

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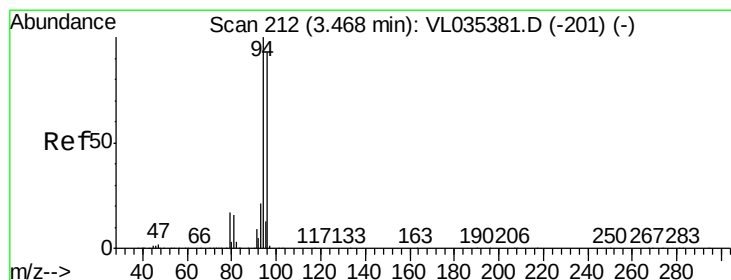
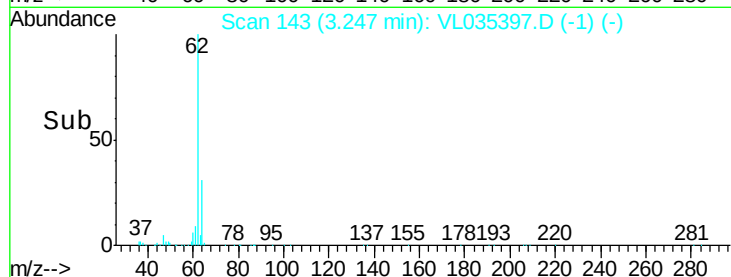
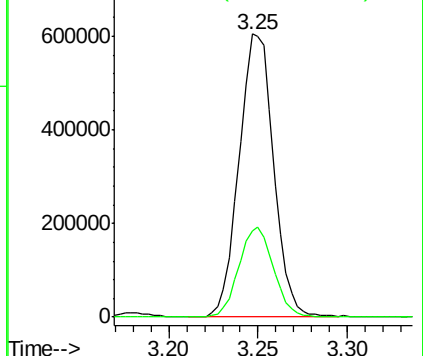
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.334 ppbv

RT: 3.47 min Scan# 212

Delta R.T. 0.00 min

Lab File: VL035397.D

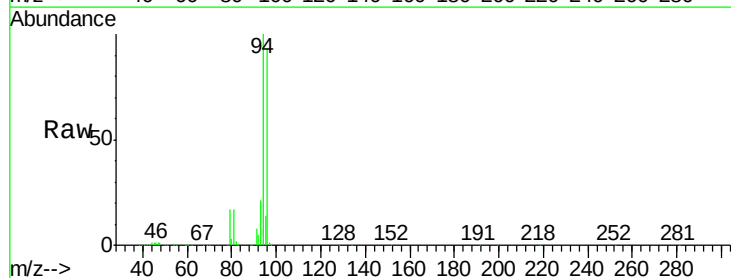
Acq: 13 Aug 2020 7:56

Tgt Ion: 94 Resp: 466378

Ion Ratio Lower Upper

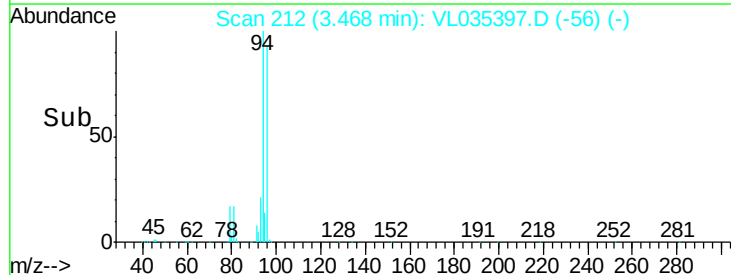
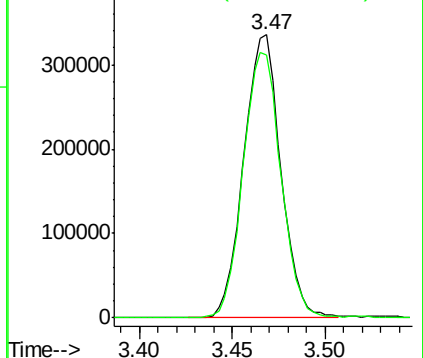
94 100

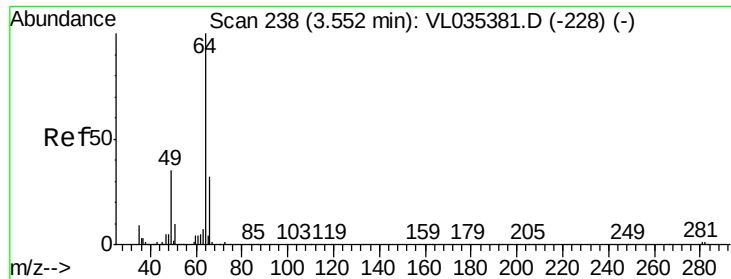
96 92.9 74.4 111.6



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.134 ppbv

RT: 3.55 min Scan# 237

Delta R.T. -0.00 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 290313

Ion Ratio Lower Upper

64 100

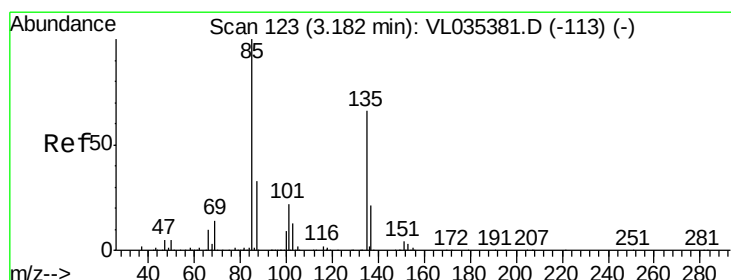
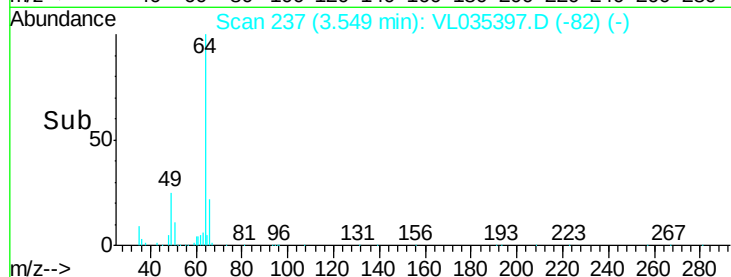
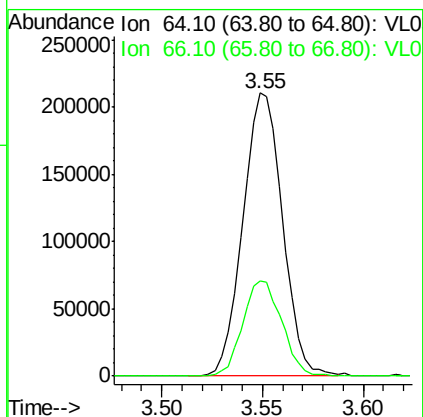
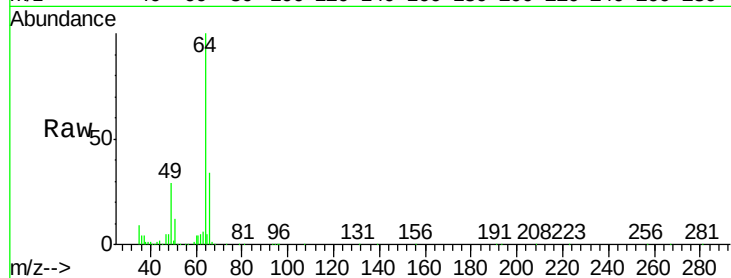
66 33.8 25.7 38.5

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.024 ppbv

RT: 3.18 min Scan# 122

Delta R.T. -0.00 min

Lab File: VL035397.D

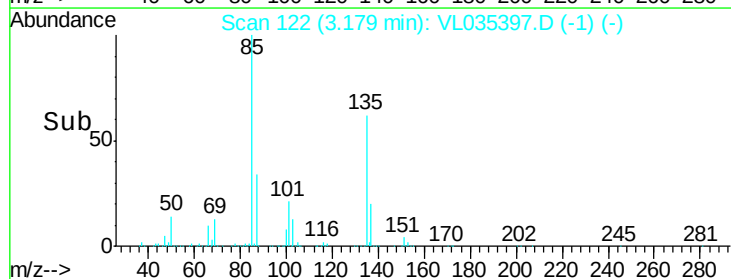
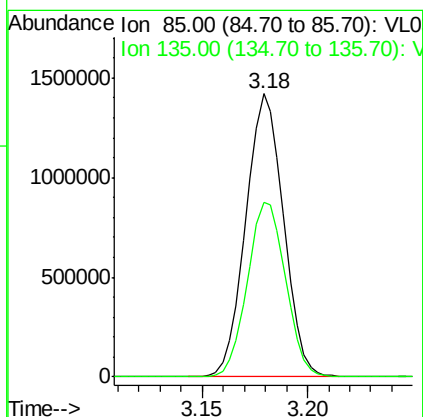
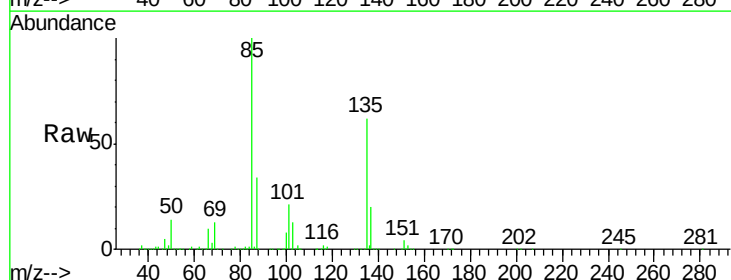
Acq: 13 Aug 2020 7:56

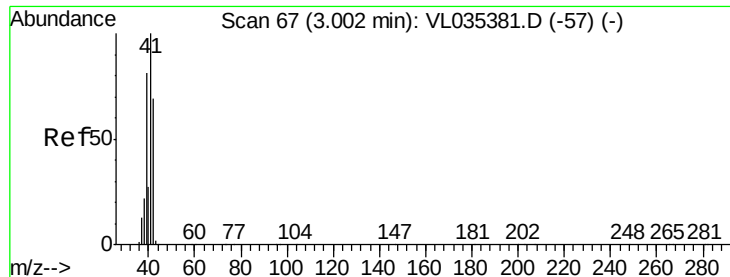
Tgt Ion: 85 Resp: 1770059

Ion Ratio Lower Upper

85 100

135 62.7 52.5 78.7





#9

Propene

Concen: 8.635 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.00 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 729732

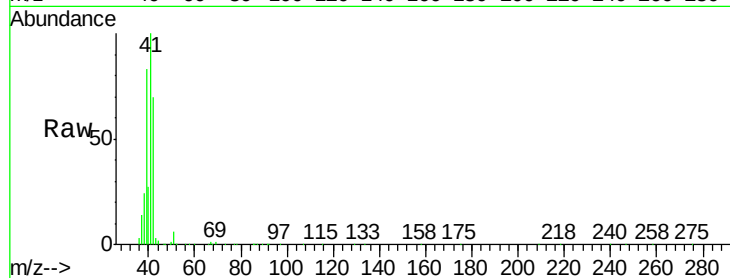
Ion Ratio Lower Upper

41 100

42 68.8 55.4 83.2

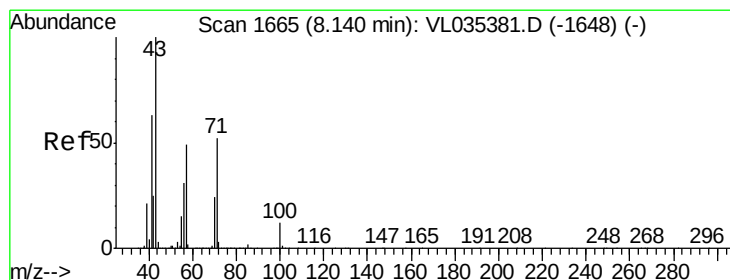
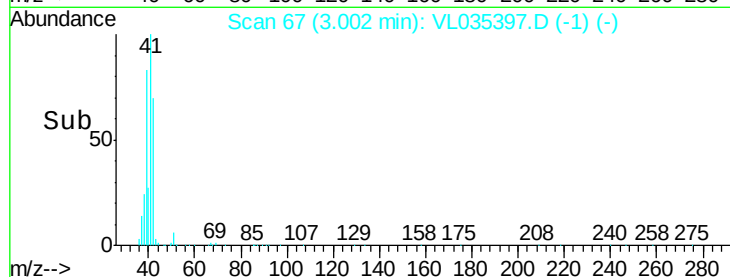
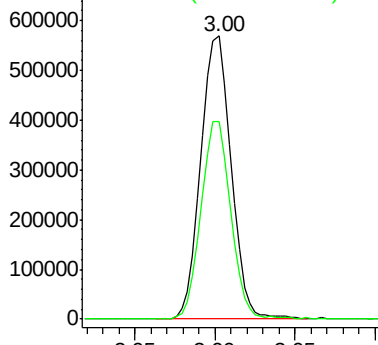
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 8.581 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. -0.01 min

Lab File: VL035397.D

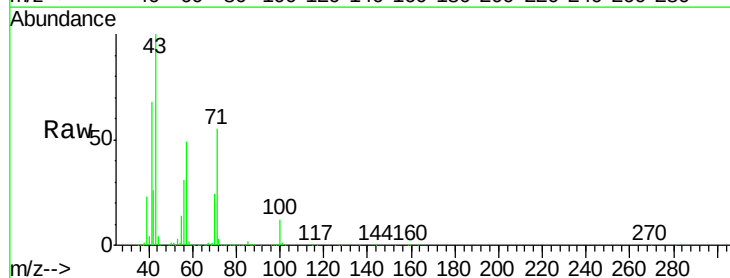
Acq: 13 Aug 2020 7:56

Tgt Ion: 43 Resp: 1878421

Ion Ratio Lower Upper

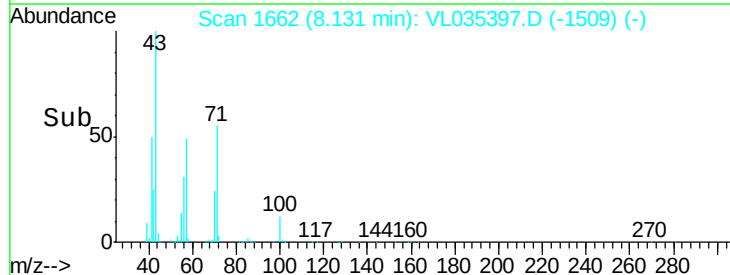
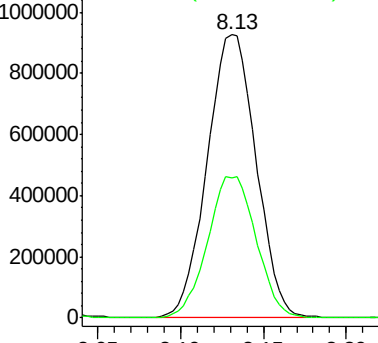
43 100

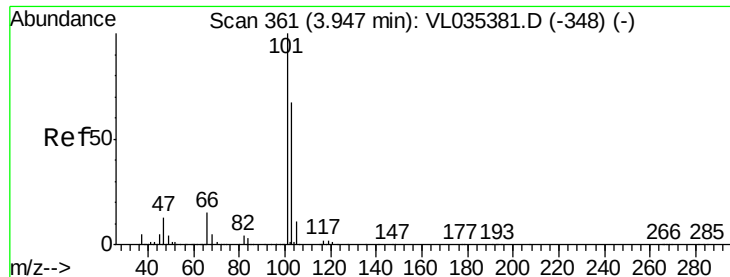
57 50.1 39.4 59.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





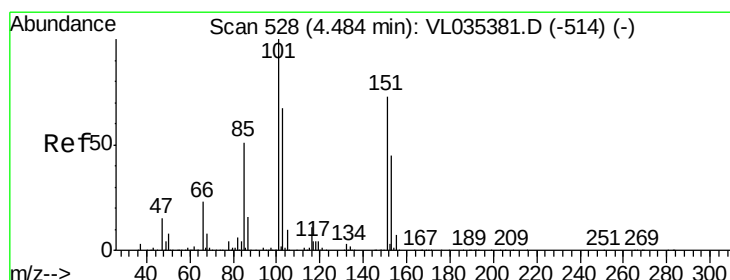
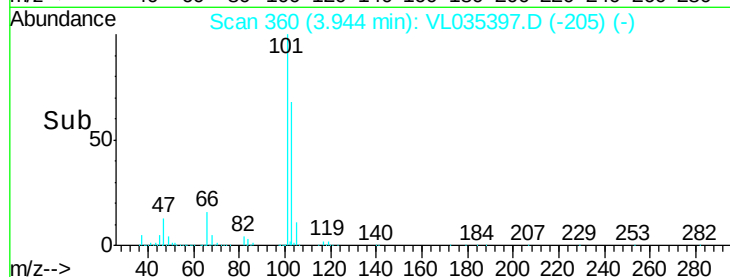
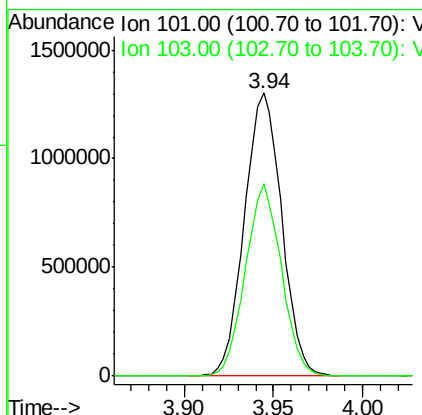
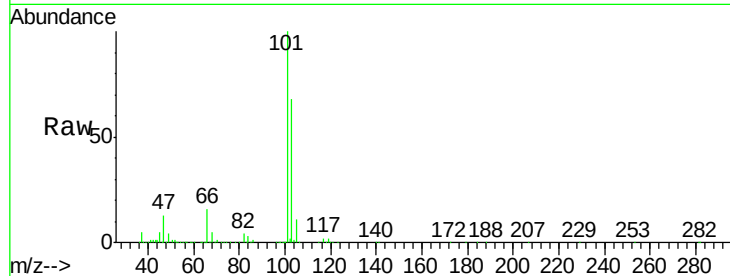
#11
 Trichlorofluoromethane
 Concen: 9.330 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.00 min
 Lab File: VL035397.D
 Acq: 13 Aug 2020 7:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1912029
 Ion Ratio Lower Upper
 101 100
 103 67.8 53.3 79.9

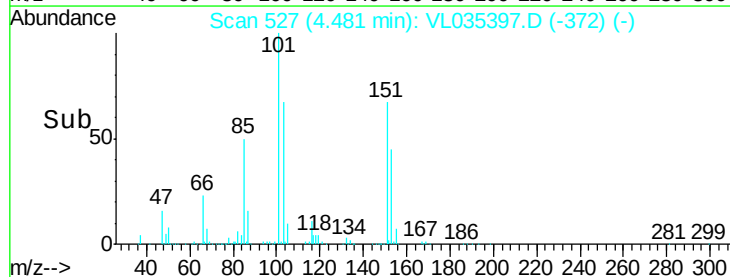
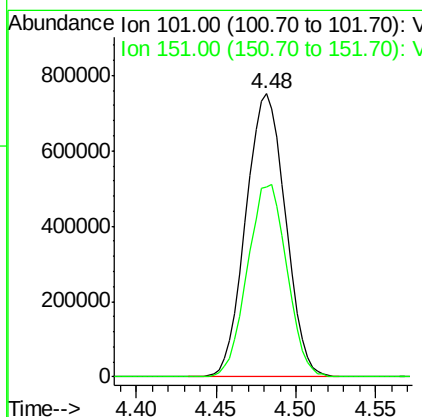
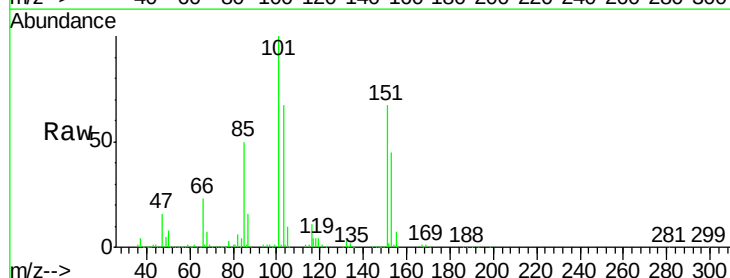
Manual Integrations
 APPROVED

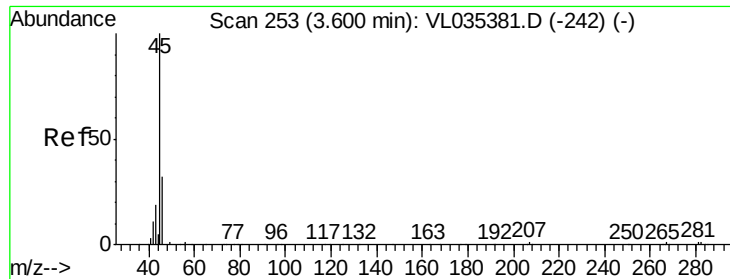
MMDadoda
 8/17/2020 5:44:11 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.146 ppbv
 RT: 4.48 min Scan# 527
 Delta R.T. -0.00 min
 Lab File: VL035397.D
 Acq: 13 Aug 2020 7:56

Tgt Ion:101 Resp: 1275508
 Ion Ratio Lower Upper
 101 100
 151 67.8 57.0 85.6





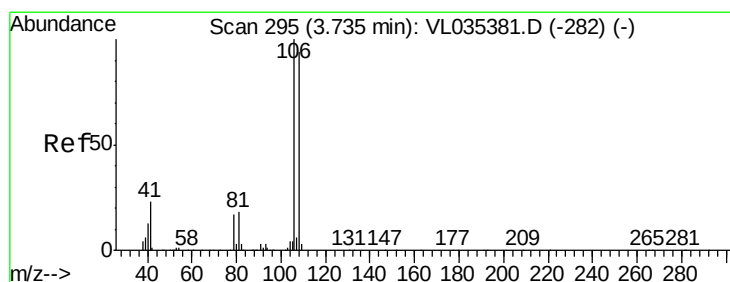
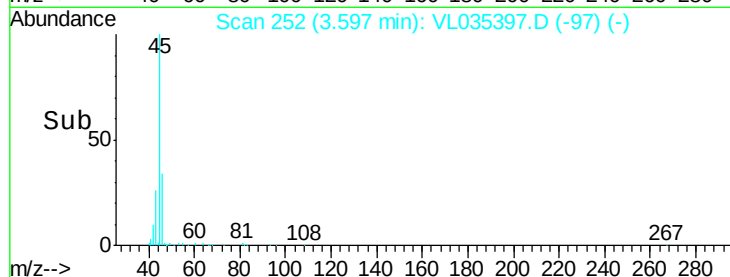
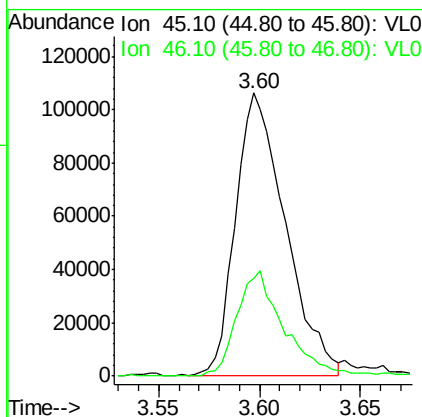
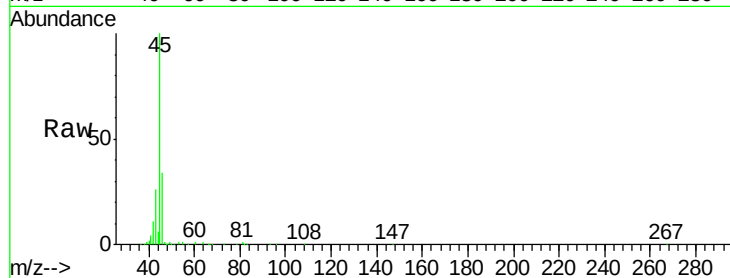
#13
Ethanol
Concen: 6.595 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.00 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
46	36.1	14.1	56.3

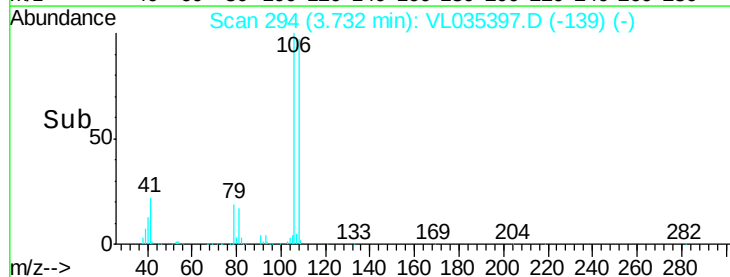
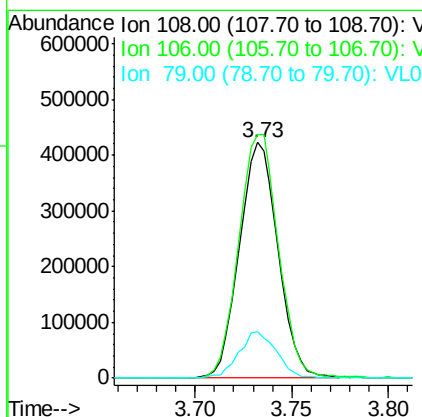
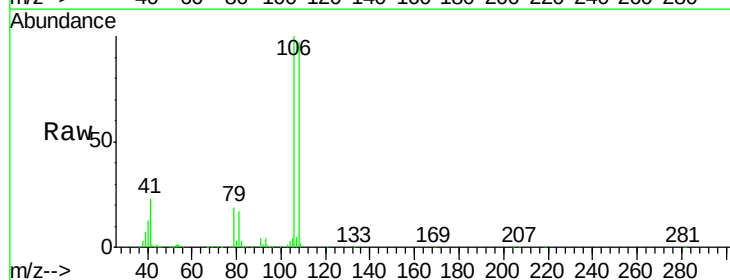
Manual Integrations
APPROVED

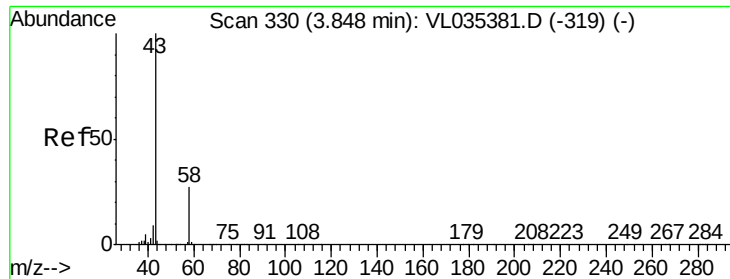
MMDadoda
8/17/2020 5:44:11 PM



#14
Bromoethene
Concen: 9.418 ppbv
RT: 3.73 min Scan# 294
Delta R.T. -0.00 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.4	84.9	127.3
79	19.4	15.8	23.8





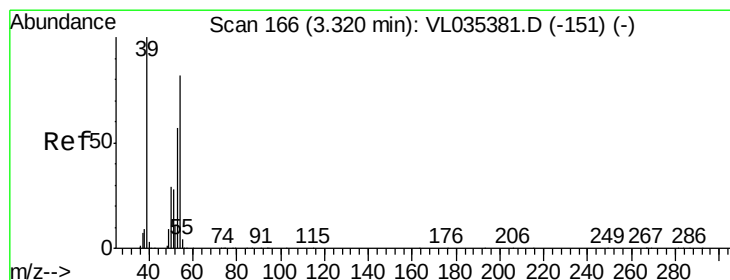
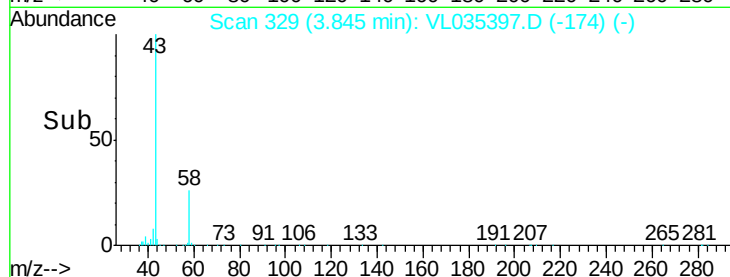
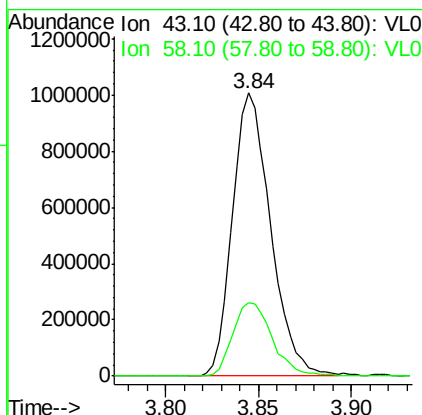
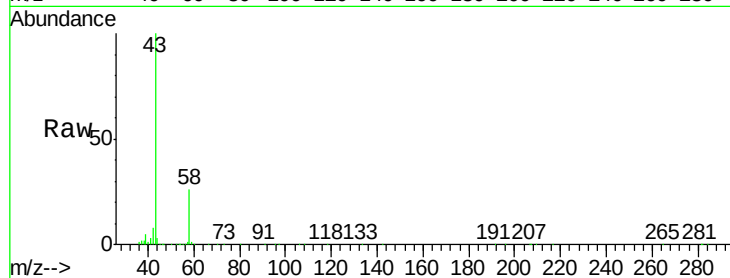
#15
Acetone
Concen: 8.137 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.00 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1438002
Ion Ratio Lower Upper
43 100
58 27.1 21.7 32.5

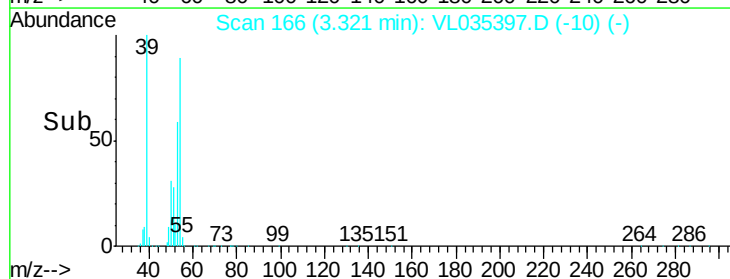
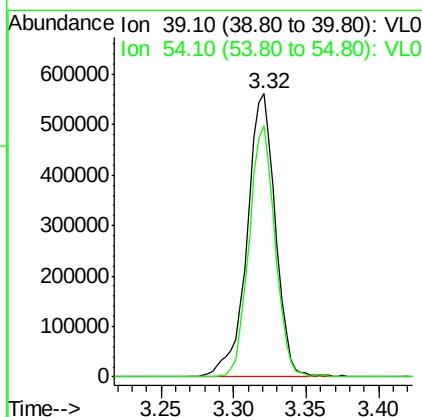
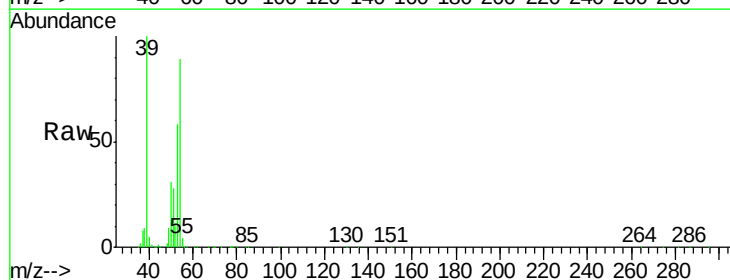
Manual Integrations
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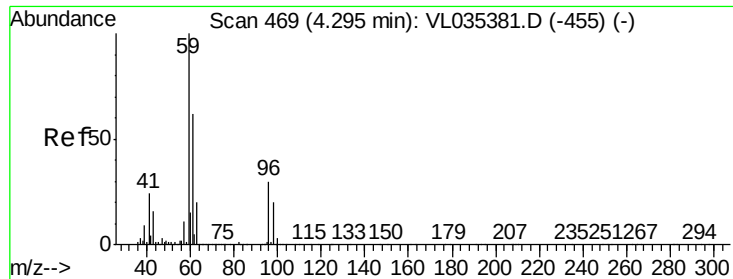
MMDadoda
8/17/2020 5:44:11 PM



#16
1,3-Butadiene
Concen: 8.399 ppbv
RT: 3.32 min Scan# 166
Delta R.T. 0.00 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Tgt Ion: 39 Resp: 762169
Ion Ratio Lower Upper
39 100
54 82.0 64.9 97.3





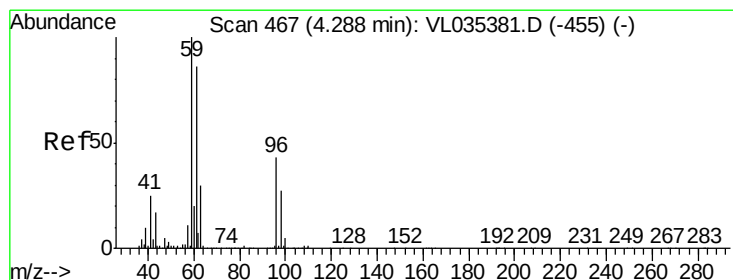
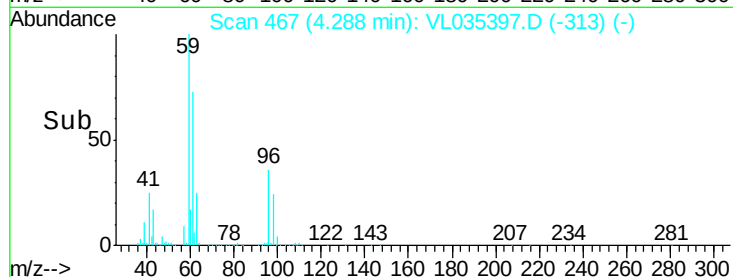
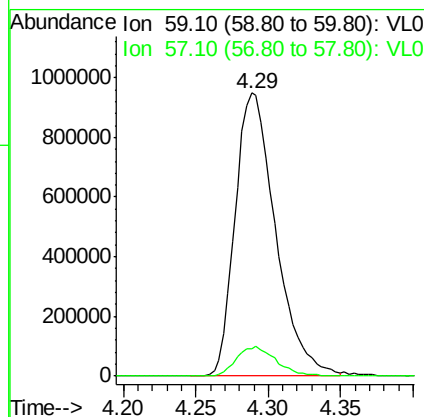
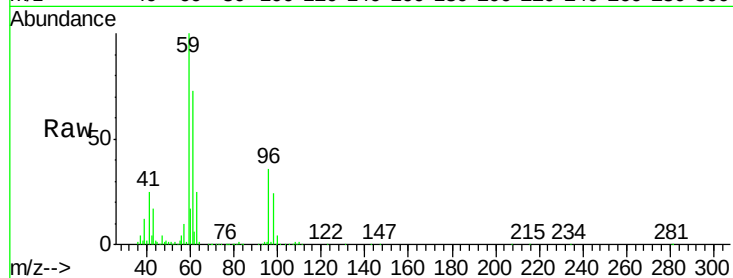
#17
 tert-Butyl alcohol
 Concen: 8.931 ppbv
 RT: 4.29 min Scan# 467
 Delta R.T. -0.01 min
 Lab File: VL035397.D
 Acq: 13 Aug 2020 7:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 59 Resp: 1841128
 Ion Ratio Lower Upper
 59 100
 57 10.5 8.6 13.0

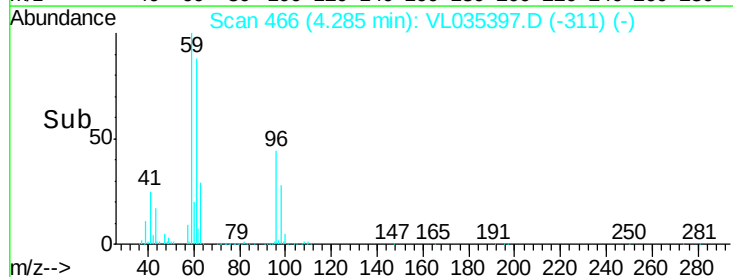
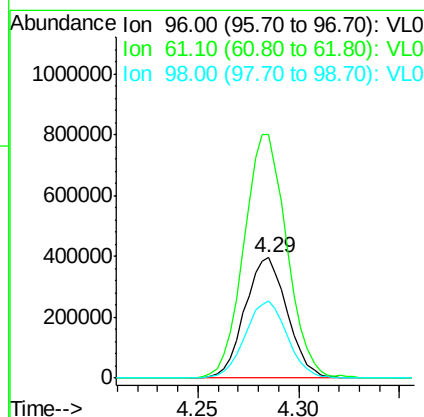
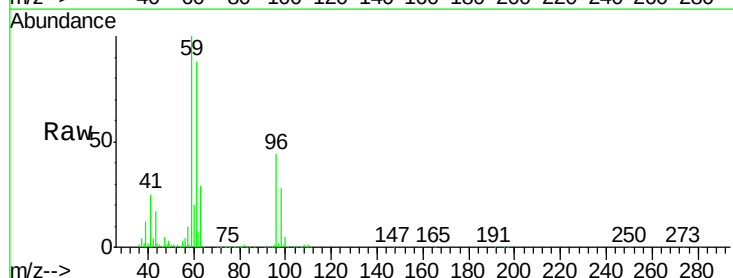
Manual Integrations
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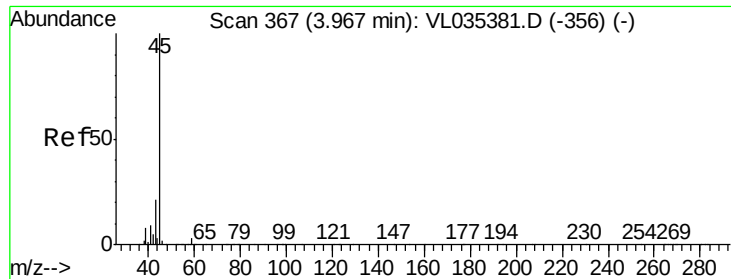
MMDadoda
 8/17/2020 5:44:11 PM



#18
 1,1-Dichloroethene
 Concen: 9.166 ppbv
 RT: 4.29 min Scan# 466
 Delta R.T. -0.00 min
 Lab File: VL035397.D
 Acq: 13 Aug 2020 7:56

Tgt Ion: 96 Resp: 585617
 Ion Ratio Lower Upper
 96 100
 61 202.0 159.0 238.4
 98 64.2 50.3 75.5





#19

Isopropyl Alcohol

Concen: 8.800 ppbv

RT: 3.96 min Scan# 366

Delta R.T. -0.00 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 1213666

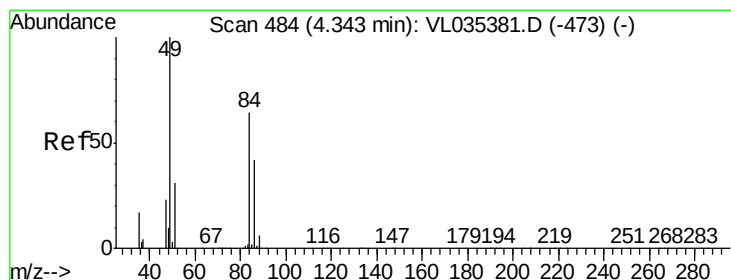
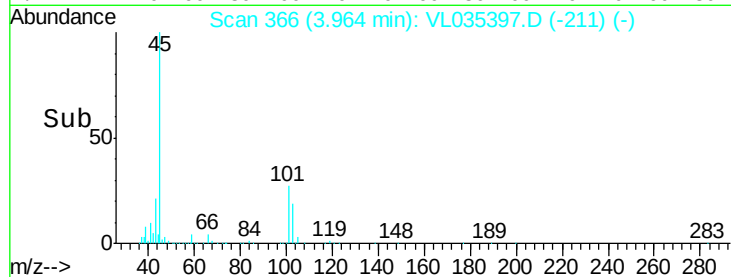
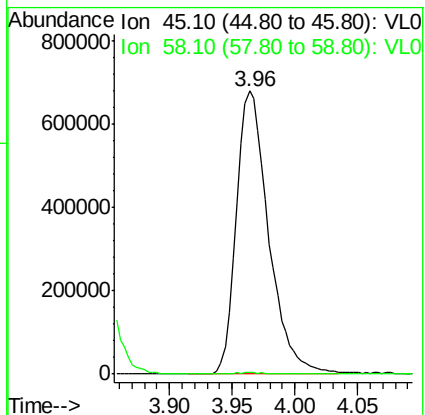
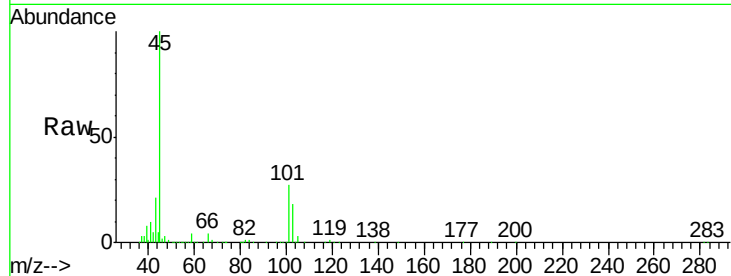
Ion Ratio Lower Upper

45 100

58 32.2 24.9 37.3

Manual Integrations
APPROVED

MMDadoda
8/17/2020 5:44:11 PM



#20

Methylene Chloride

Concen: 7.885 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Tgt Ion: 84 Resp: 526243

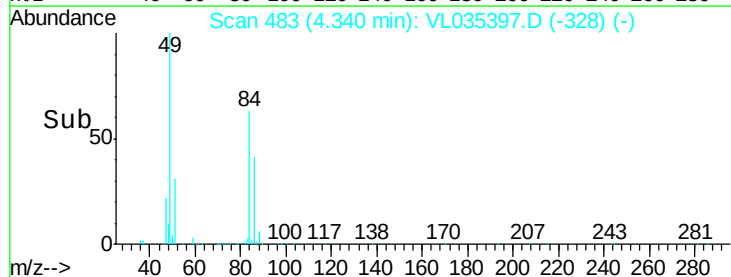
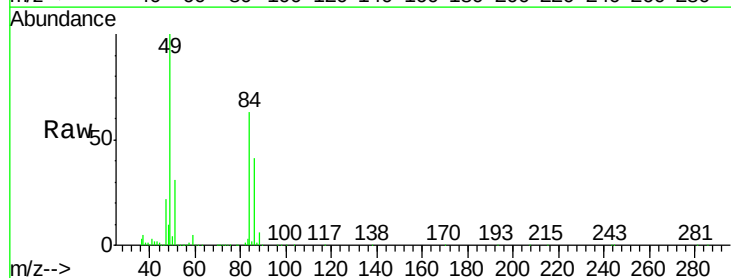
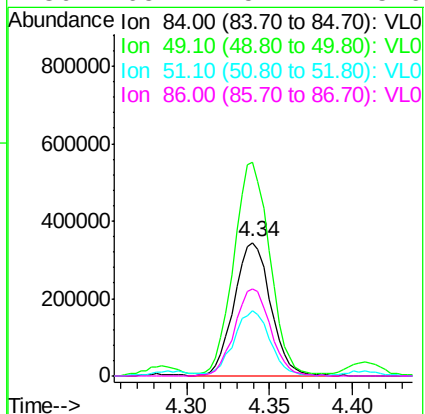
Ion Ratio Lower Upper

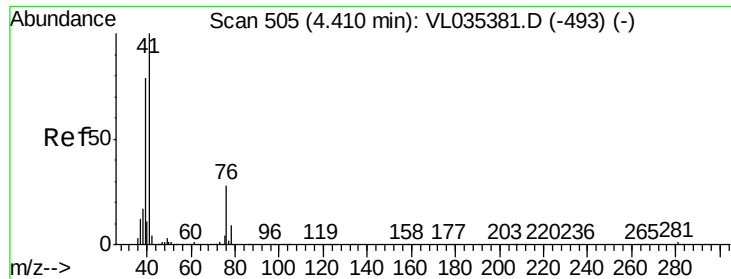
84 100

49 158.4 125.7 188.5

51 47.4 38.5 57.7

86 65.7 52.4 78.6





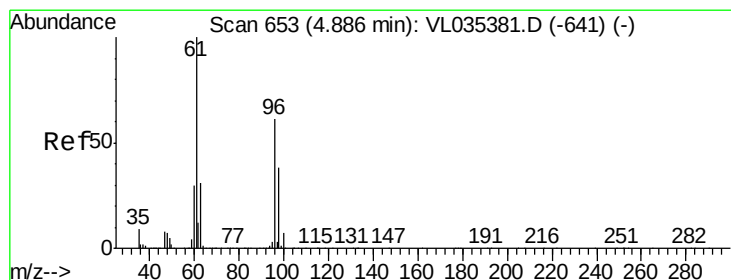
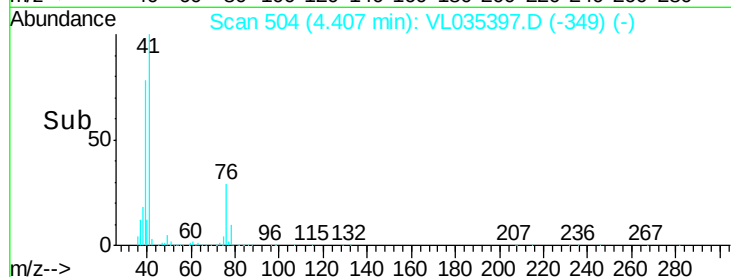
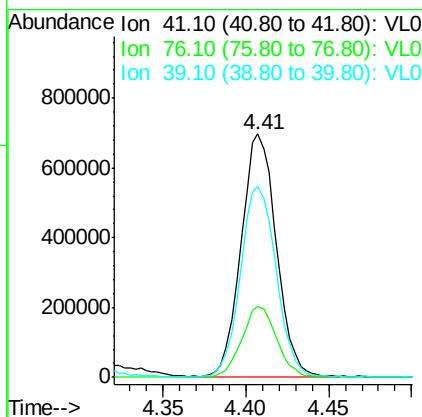
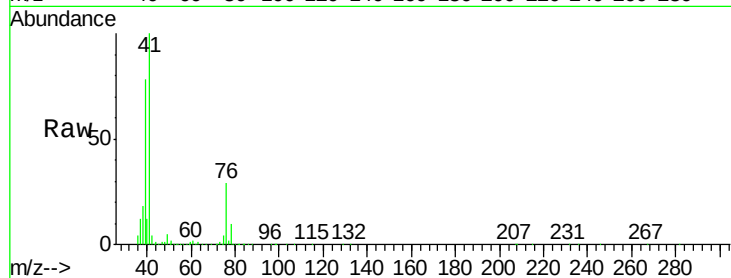
#21
Allvl Chloride
Concen: 8.811 ppbv
RT: 4.41 min Scan# 504
Delta R.T. -0.00 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.1	22.4	33.6
39	80.1	63.0	94.4

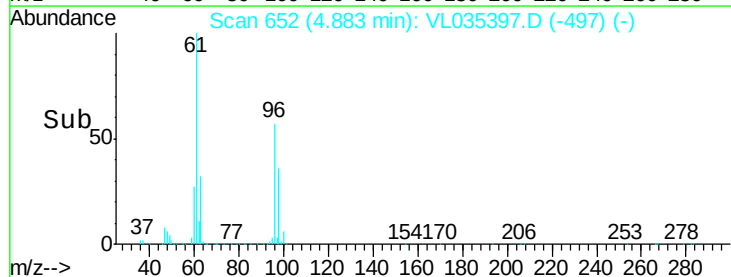
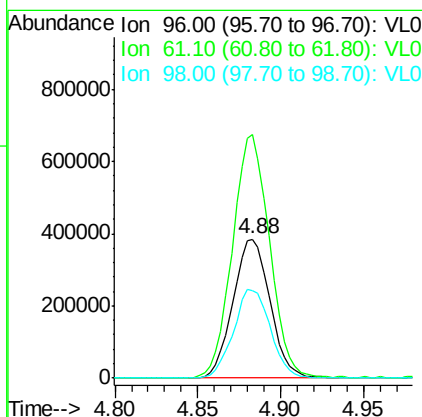
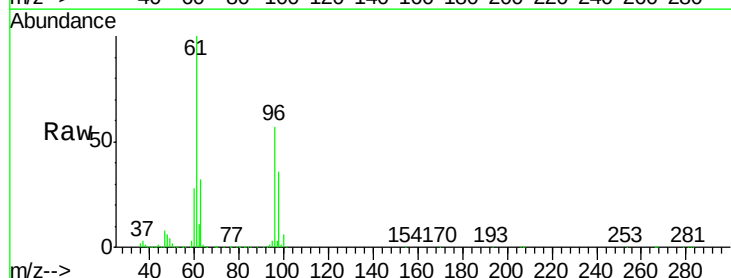
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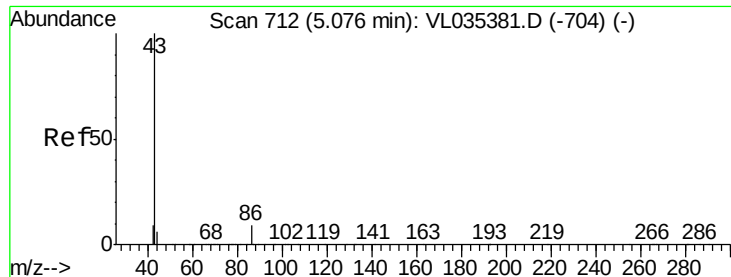
MMDadoda
8/17/2020 5:44:11 PM



#22
trans-1,2-Dichloroethene
Concen: 9.339 ppbv
RT: 4.88 min Scan# 652
Delta R.T. -0.00 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Tgt Ion	Ratio	Lower	Upper
96	100		
61	175.2	131.8	197.6
98	63.1	49.6	74.4





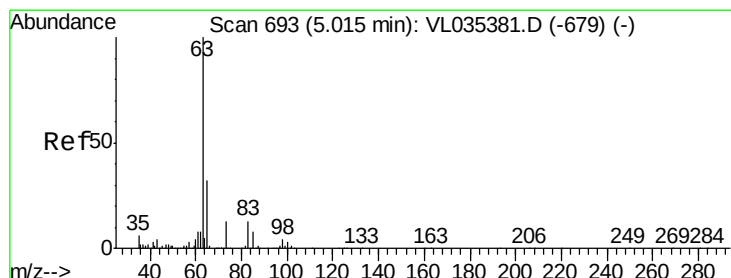
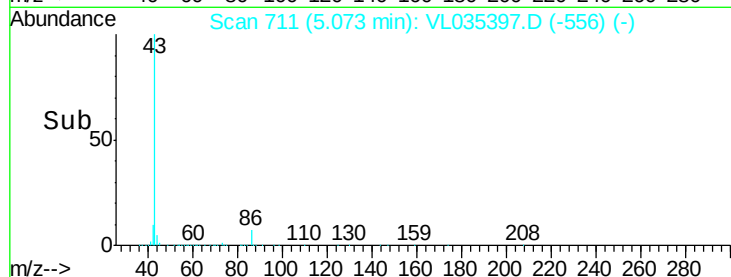
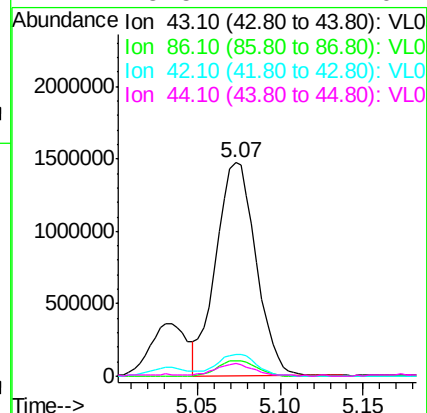
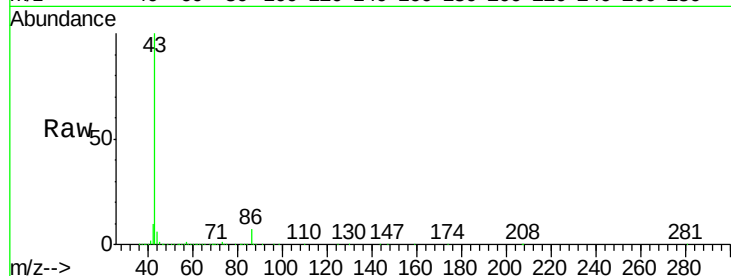
#23
 Vinyl Acetate
 Concen: 8.772 ppbv
 RT: 5.07 min Scan# 711
 Delta R.T. -0.00 min
 Lab File: VL035397.D
 Acq: 13 Aug 2020 7:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	43	Resp	2474985
Ion	Ratio	Lower	Upper
43	100		
86	7.4	5.8	8.8
42	10.1	8.0	12.0
44	5.5	4.2	6.2

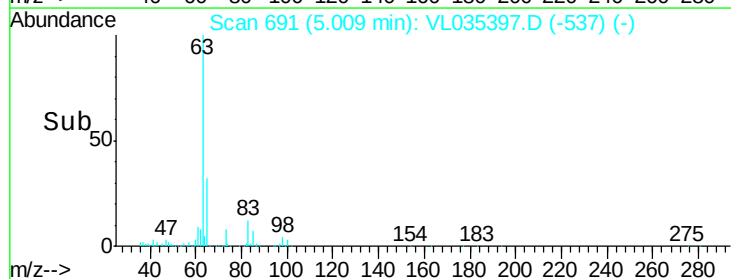
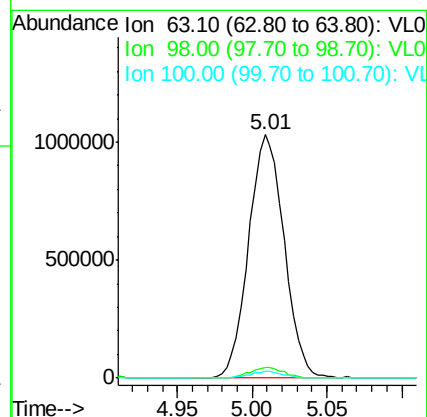
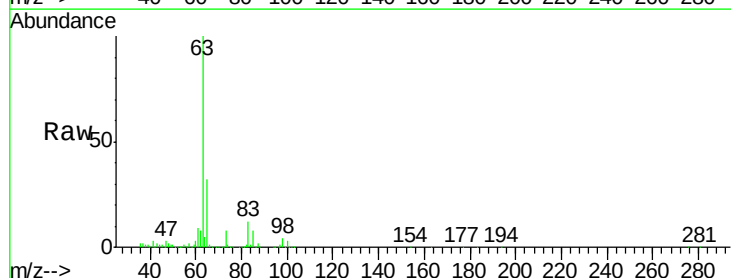
Manual Integrations
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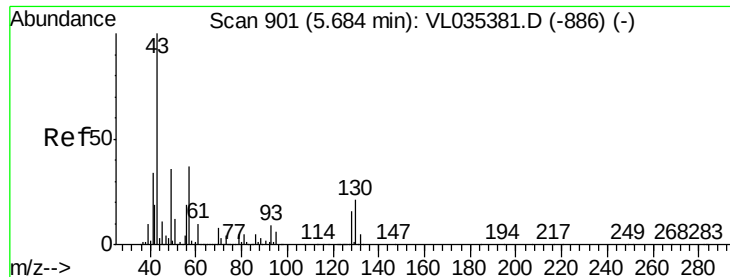
MMDadoda
 8/17/2020 5:44:11 PM



#24
 1,1-Dichloroethane
 Concen: 9.153 ppbv
 RT: 5.01 min Scan# 691
 Delta R.T. -0.01 min
 Lab File: VL035397.D
 Acq: 13 Aug 2020 7:56

Tgt Ion	63	Resp	1700486
Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.2	6.6
100	2.7	1.4	4.0





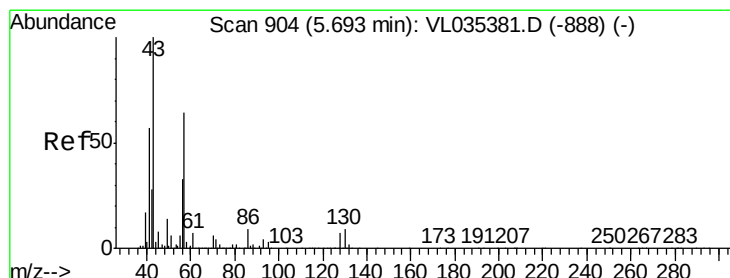
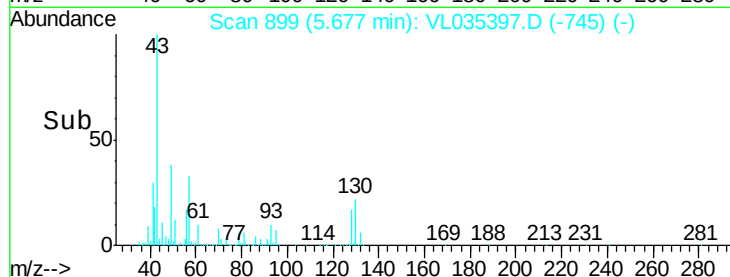
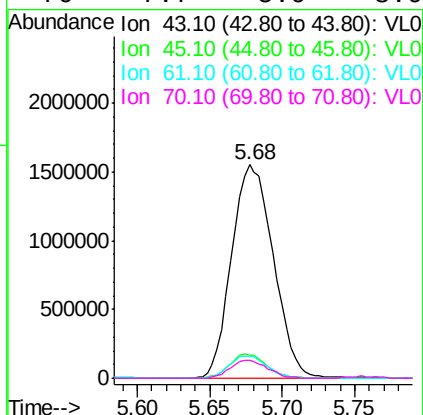
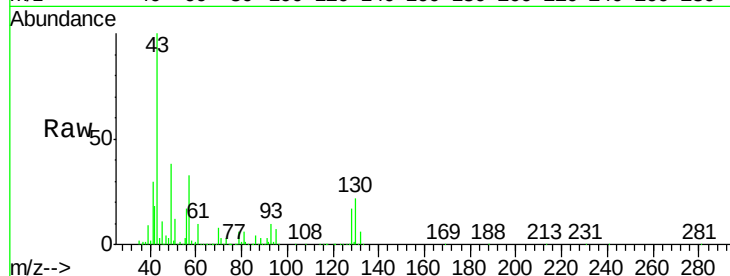
#25
Ethyl Acetate
Concen: 8.487 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	43	Resp	3095850
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.0	12.0
61	9.6	7.4	11.2
70	7.7	5.9	8.9

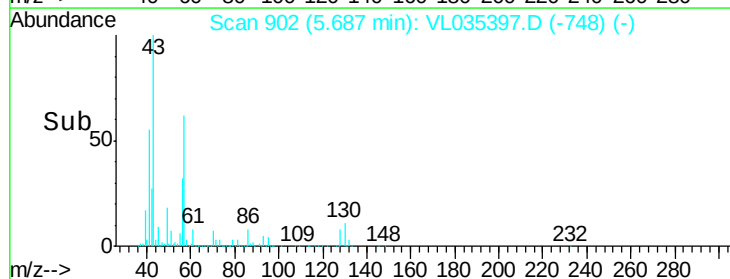
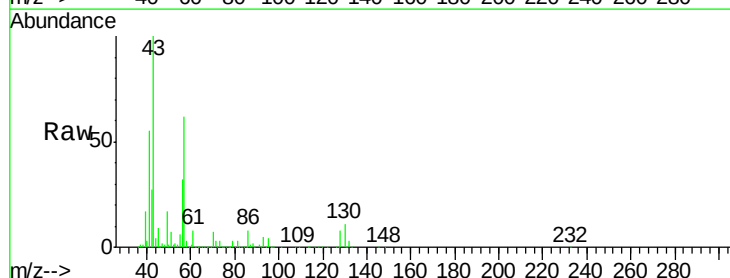
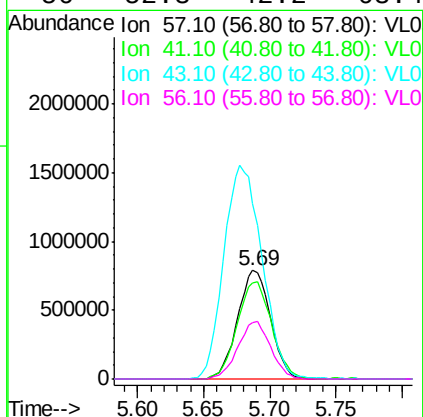
Manual Integrations
APPROVED

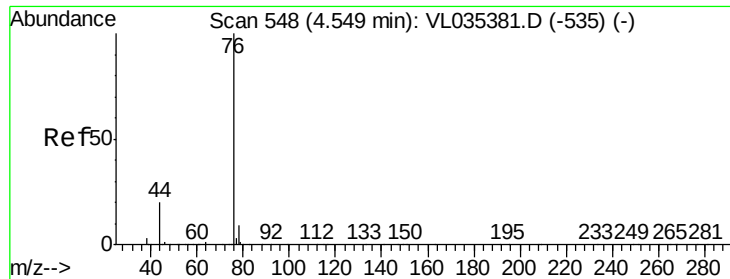
MMDadoda
8/17/2020 5:44:11 PM



#26
Hexane
Concen: 8.556 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Tgt Ion	57	Resp	1365652
Ion	Ratio	Lower	Upper
57	100		
41	93.9	75.4	113.2
43	228.1	184.1	276.1
56	52.3	42.2	63.4





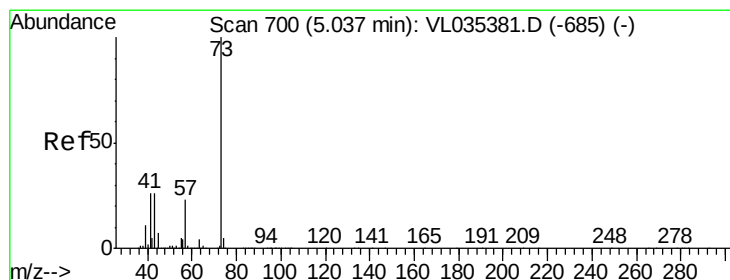
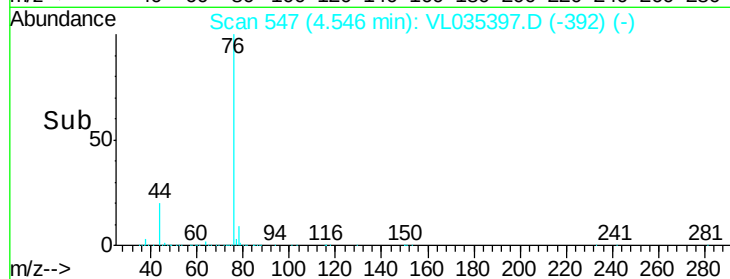
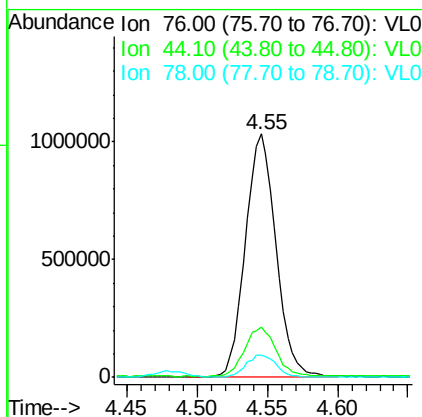
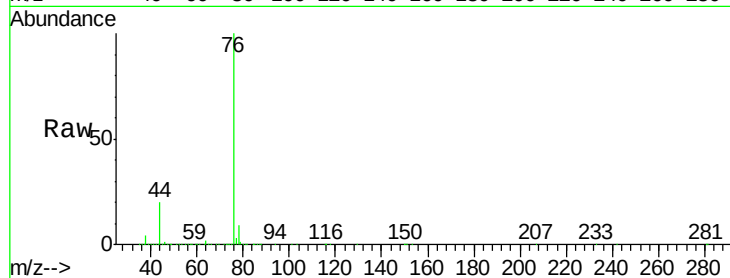
#27
Carbon Disulfide
Concen: 9.271 ppbv
RT: 4.55 min Scan# 547
Delta R.T. -0.00 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
76	100		
44	21.0	17.0	25.4
78	9.4	7.5	11.3

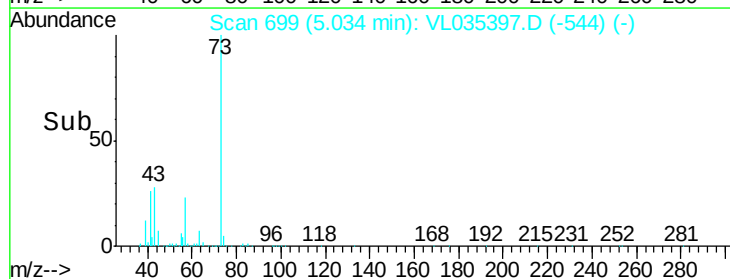
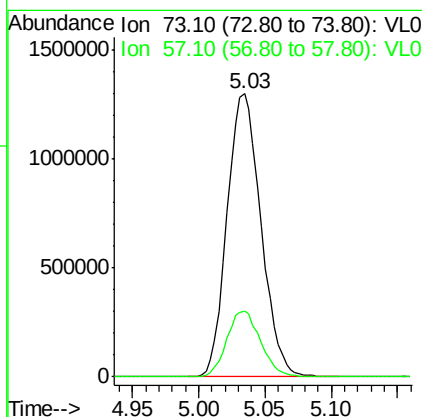
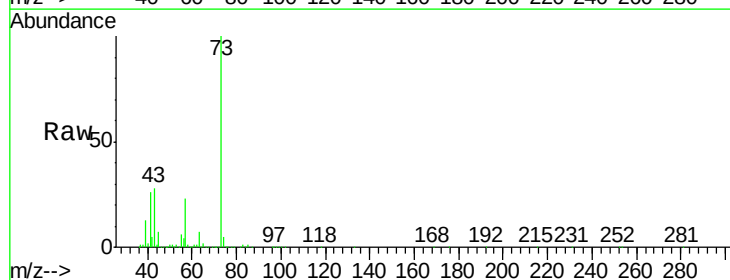
Manual Integrations
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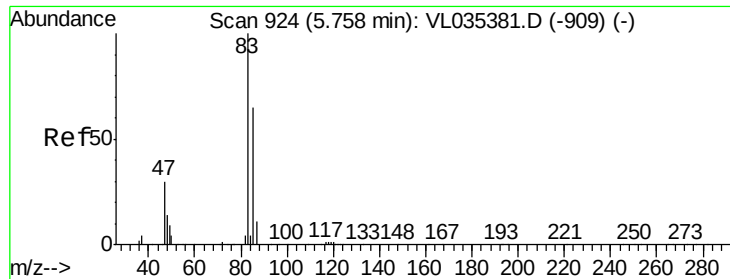
MMDadoda
8/17/2020 5:44:11 PM



#28
Methyl tert-Butyl Ether
Concen: 8.748 ppbv
RT: 5.03 min Scan# 699
Delta R.T. -0.00 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Tgt Ion	Ratio	Lower	Upper
73	100		
57	23.4	19.0	28.4





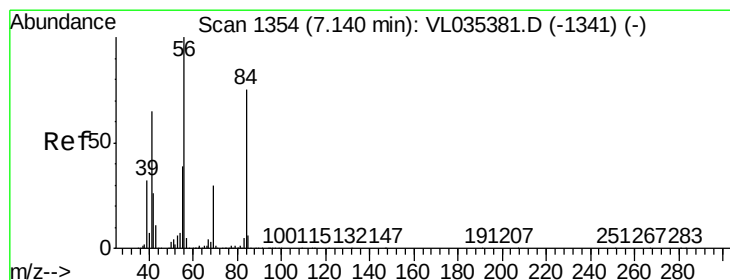
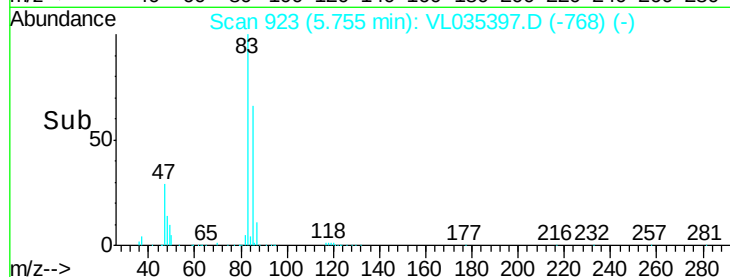
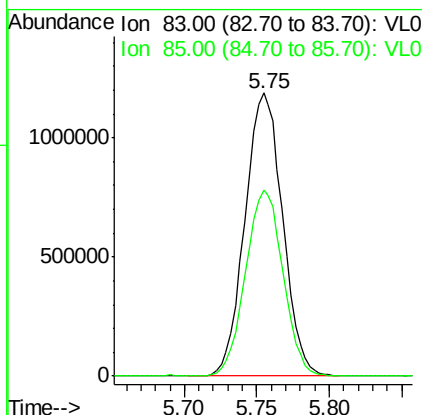
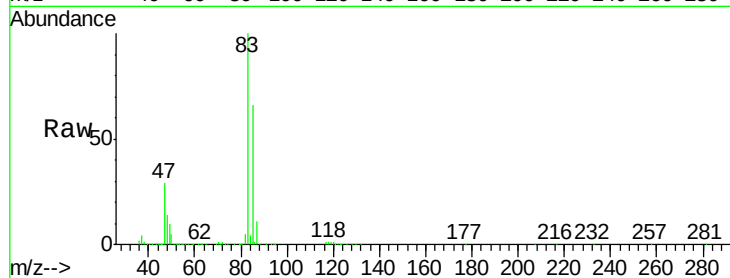
#29
Chloroform
Concen: 9.427 ppbv
RT: 5.75 min Scan# 923
Delta R.T. -0.00 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 2147409
Ion Ratio Lower Upper
83 100
85 65.8 51.7 77.5

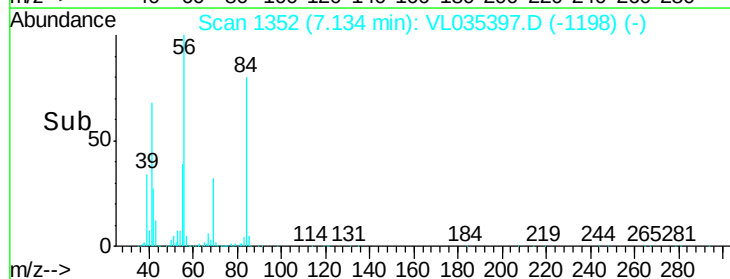
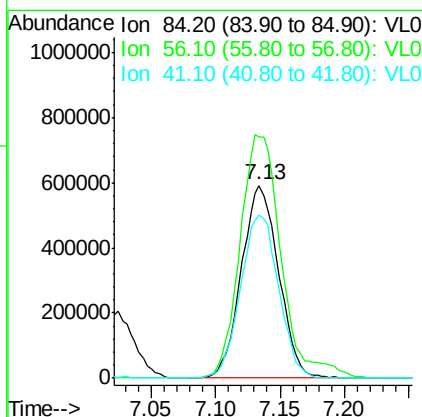
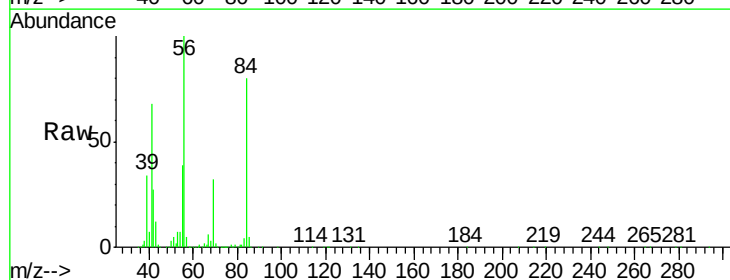
Manual Integrations
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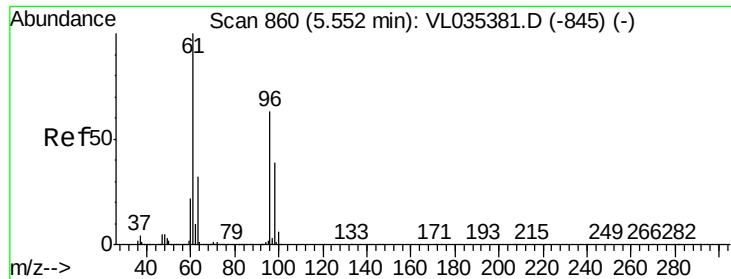
MMDadoda
8/17/2020 5:44:11 PM



#30
Cyclohexane
Concen: 9.036 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Tgt Ion: 84 Resp: 1188784
Ion Ratio Lower Upper
84 100
56 140.1 115.8 173.6
41 86.8 71.4 107.0





#31

cis-1,2-Dichloroethene

Concen: 9.171 ppbv

RT: 5.55 min Scan# 859

Delta R.T. -0.00 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Instrument :

MSVOA_L

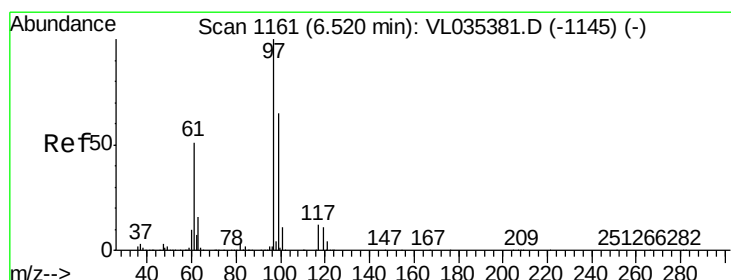
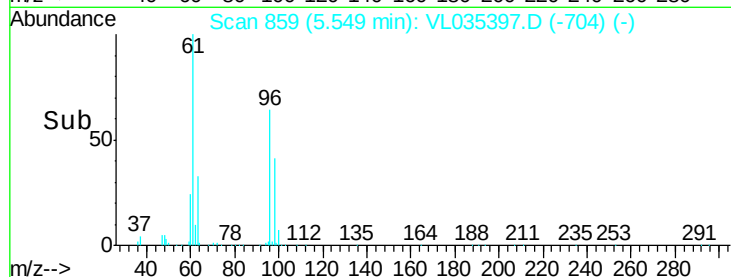
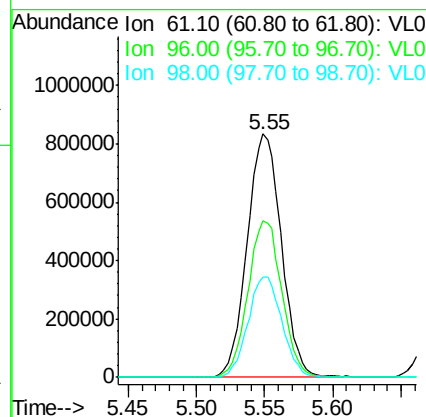
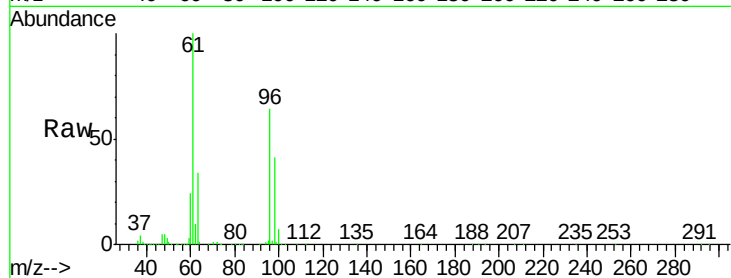
ClientSampleId :

VSTDCCC010EC

Tot Ion:	61	Resp:	1451512
Ion	Ratio	Lower	Upper
61	100		
96	64.2	50.5	75.7
98	41.0	31.5	47.3

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 8.642 ppbv

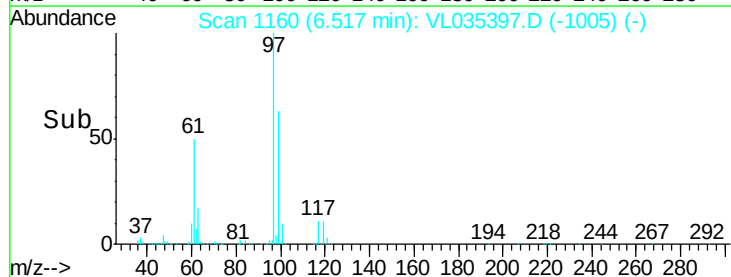
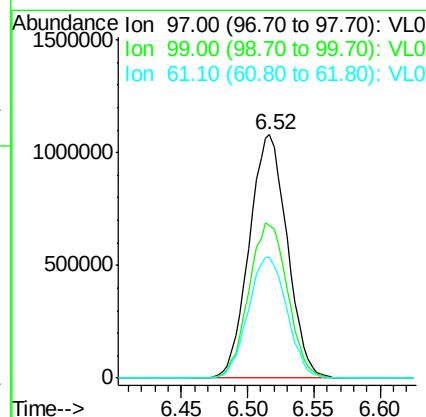
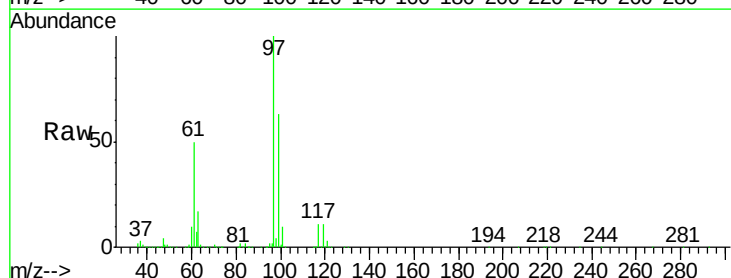
RT: 6.52 min Scan# 1160

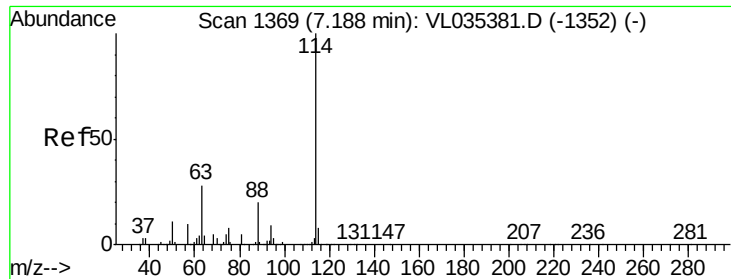
Delta R.T. -0.00 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Tgt Ion:	97	Resp:	2147303
Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.8	77.8
61	50.7	39.6	59.4





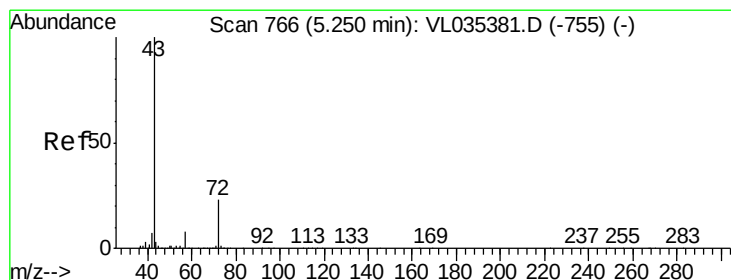
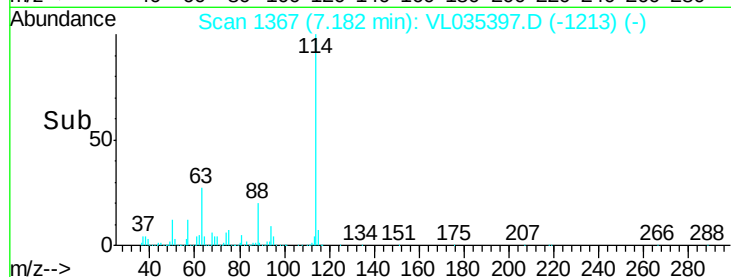
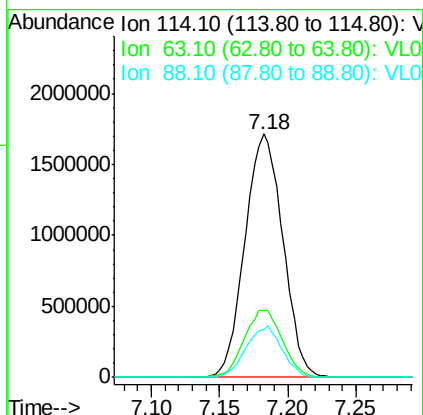
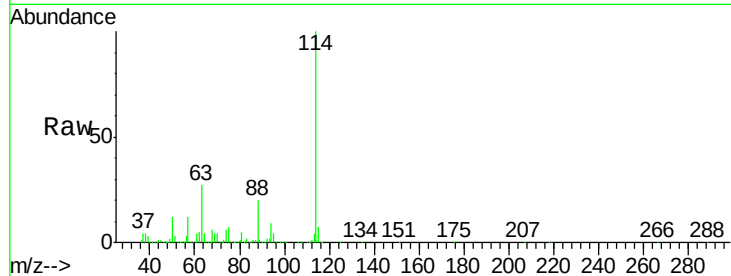
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.01 min
 Lab File: VL035397.D
 Acq: 13 Aug 2020 7:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:114 Resp: 3307074
 Ion Ratio Lower Upper
 114 100
 63 28.1 21.5 32.3
 88 20.1 15.6 23.4

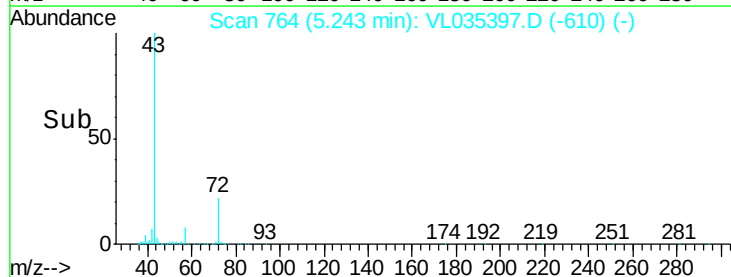
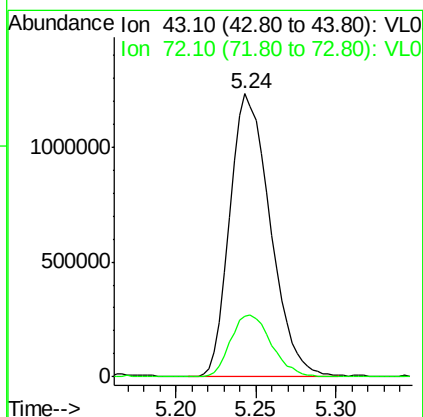
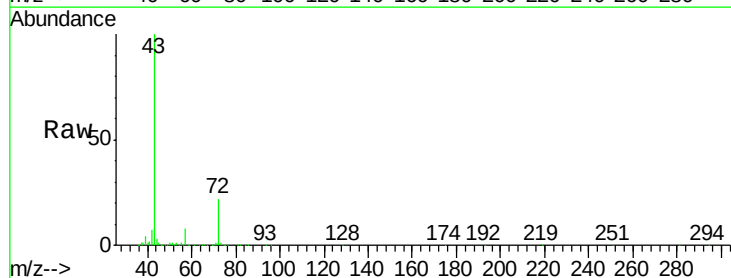
Manual Integrations
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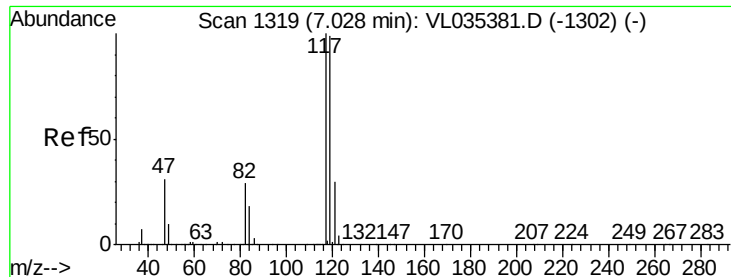
MMDadoda
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#34
 2-Butanone
 Concen: 8.995 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. -0.01 min
 Lab File: VL035397.D
 Acq: 13 Aug 2020 7:56

Tgt Ion: 43 Resp: 2119918
 Ion Ratio Lower Upper
 43 100
 72 22.4 17.7 26.5





#35

Carbon Tetrachloride

Concen: 9.292 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.01 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Instrument :

MSVOA_L

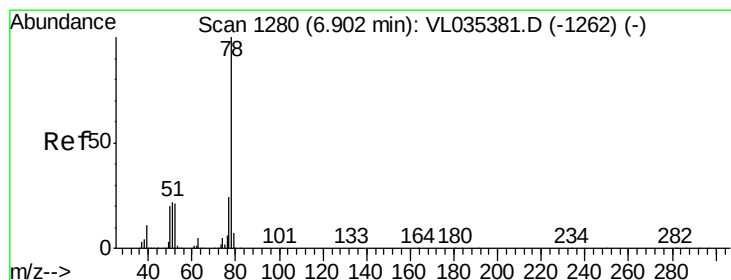
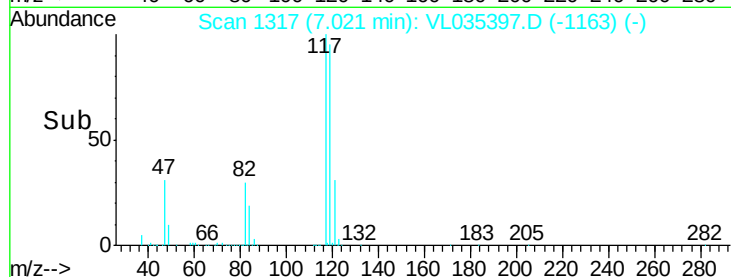
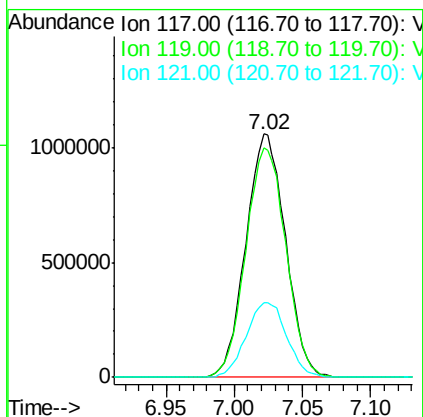
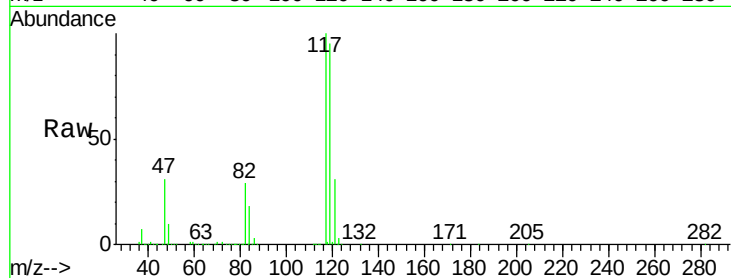
ClientSampleId :

VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	94.5	79.4	119.0
121	30.6	24.3	36.5

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#36

Benzene

Concen: 8.954 ppbv

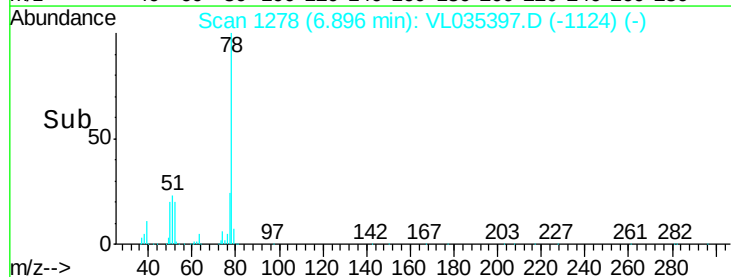
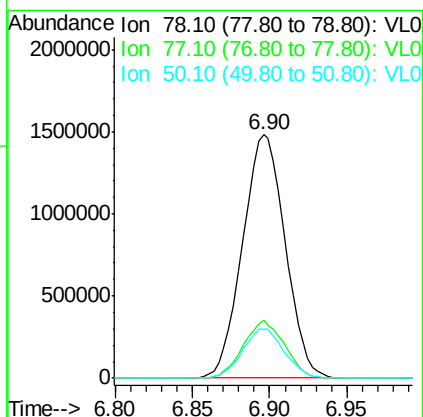
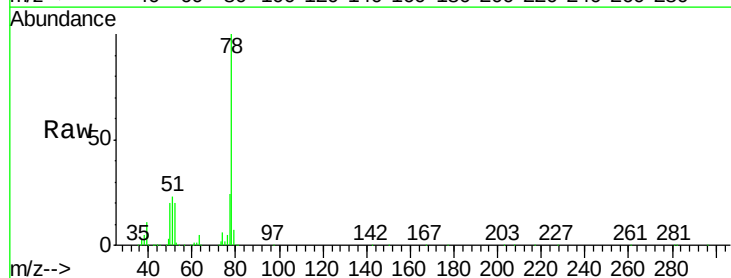
RT: 6.90 min Scan# 1278

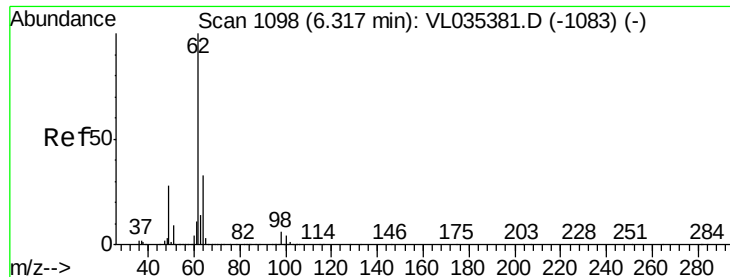
Delta R.T. -0.01 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.1	28.7
50	20.1	15.8	23.6





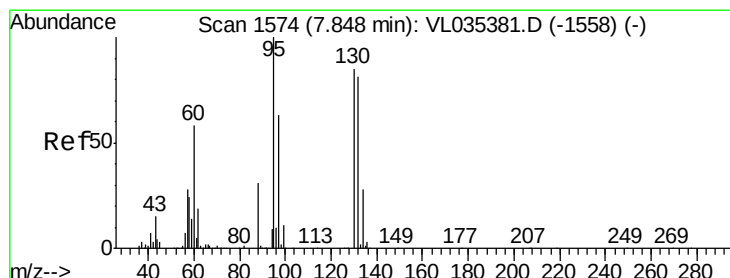
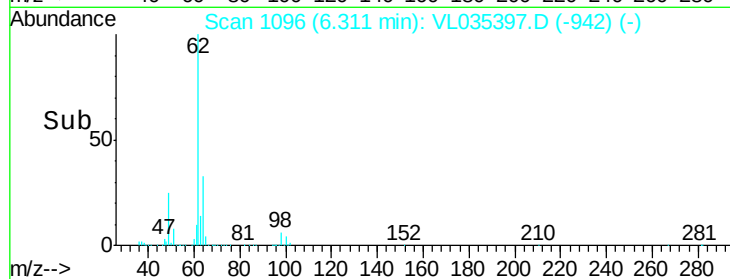
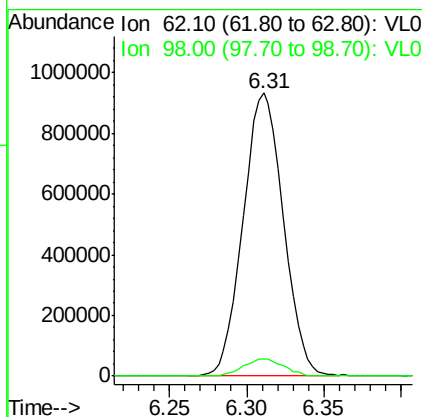
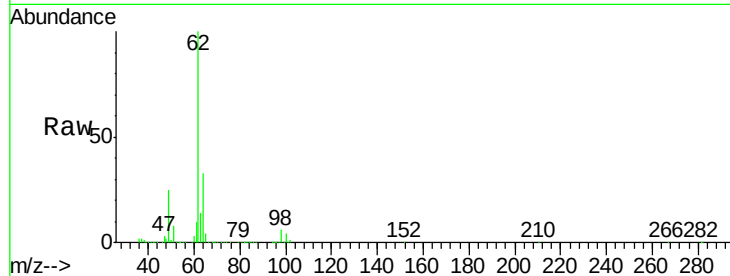
#37
 1,2-Dichloroethane
 Concen: 9.629 ppbv
 RT: 6.31 min Scan# 1096
 Delta R.T. -0.01 min
 Lab File: VL035397.D
 Acq: 13 Aug 2020 7:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1694968
 Ion Ratio Lower Upper
 62 100
 98 6.1 5.1 7.7

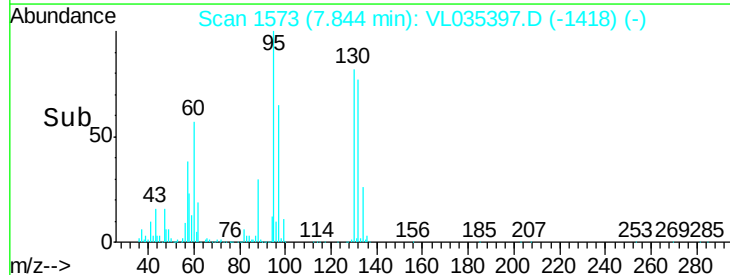
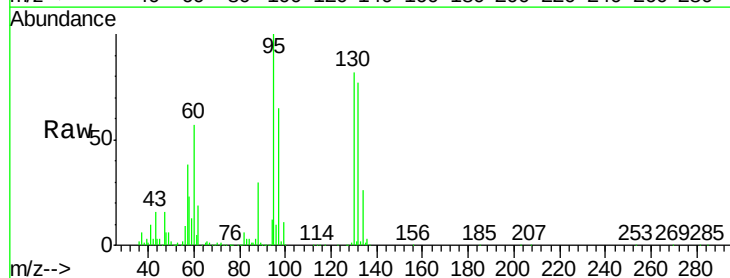
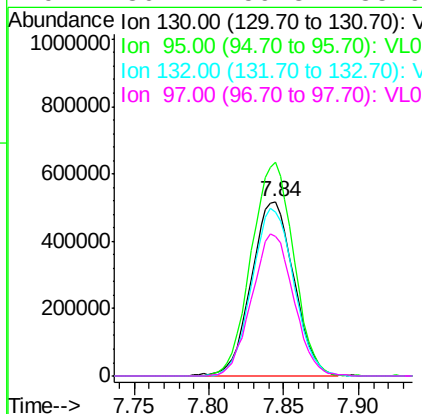
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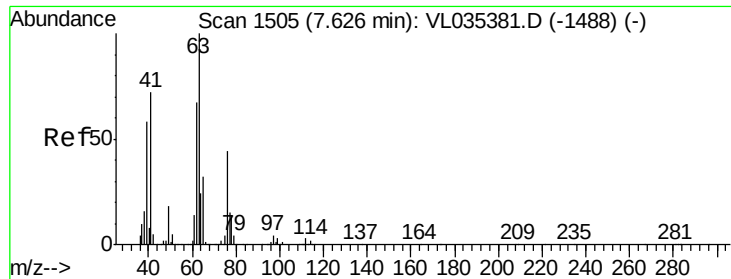
MMDadoda
 8/17/2020 5:44:11 PM



#38
 Trichloroethene
 Concen: 8.159 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VL035397.D
 Acq: 13 Aug 2020 7:56

Tgt Ion: 130 Resp: 1014016
 Ion Ratio Lower Upper
 130 100
 95 122.8 94.2 141.4
 132 94.6 76.6 114.8
 97 80.2 59.3 88.9





#39

1,2-Dichloropropane

Concen: 9.019 ppbv

RT: 7.62 min Scan# 1504

Delta R.T. -0.00 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 63 Resp: 1132563

Ion Ratio Lower Upper

63 100

41 73.5 57.4 86.2

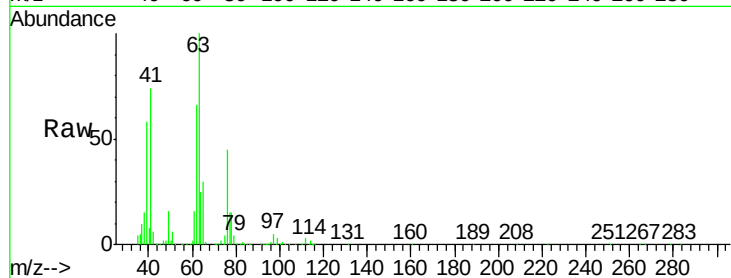
62 65.6 53.6 80.4

Manual Integrations

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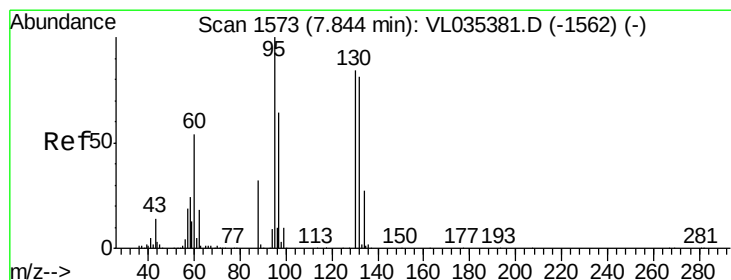
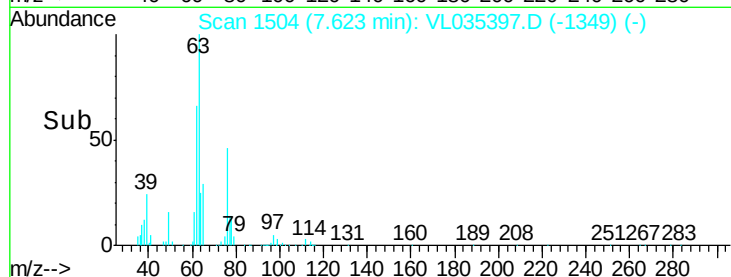
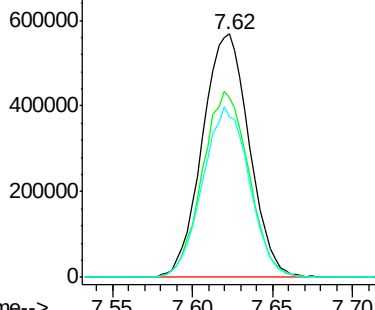
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Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 8.569 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Tgt Ion: 88 Resp: 438256

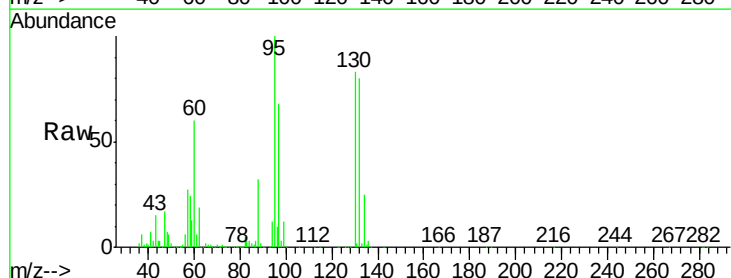
Ion Ratio Lower Upper

88 100

58 133.5 105.0 157.6

43 257.6 204.2 306.2

57 1083.3 855.0 1282.4

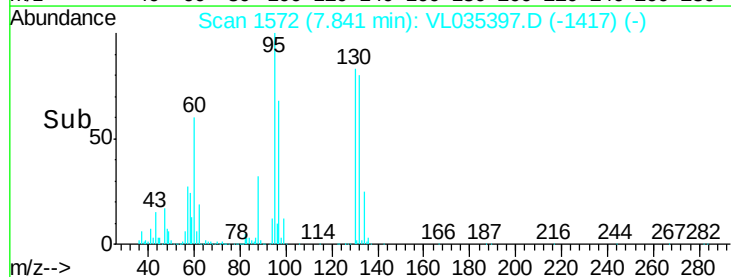
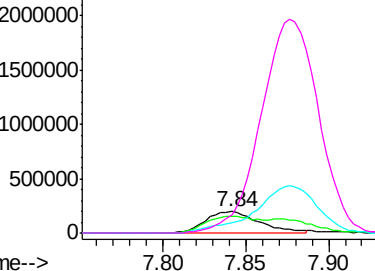


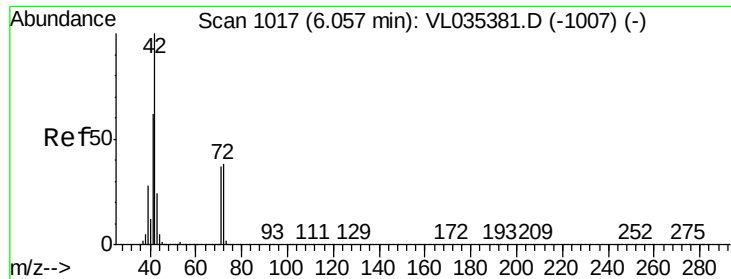
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 8.922 ppbv

RT: 6.05 min Scan# 1016

Delta R.T. -0.00 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 42 Resp: 1254496

Ion Ratio Lower Upper

42 100

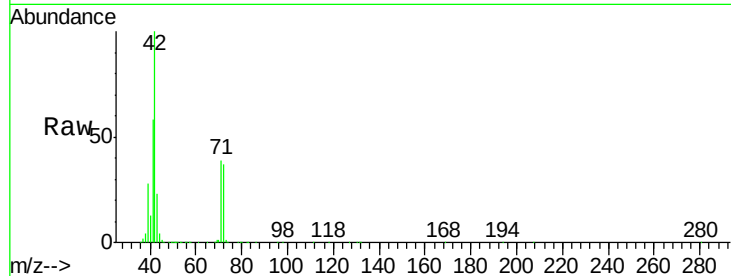
72 37.9 30.2 45.2

71 37.2 28.6 42.8

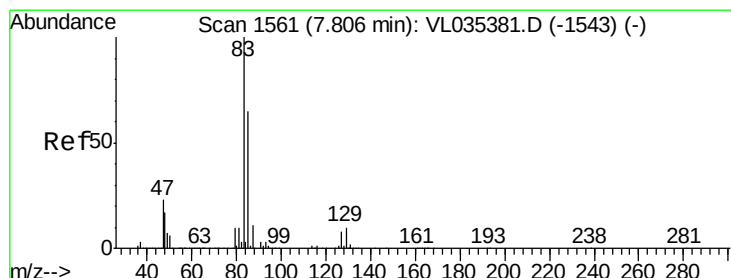
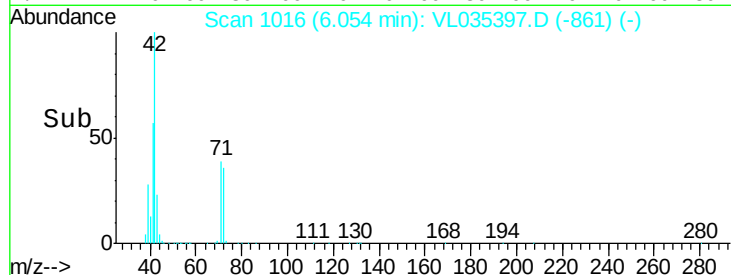
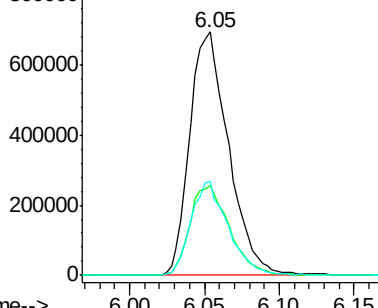
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Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.628 ppbv

RT: 7.80 min Scan# 1559

Delta R.T. -0.01 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

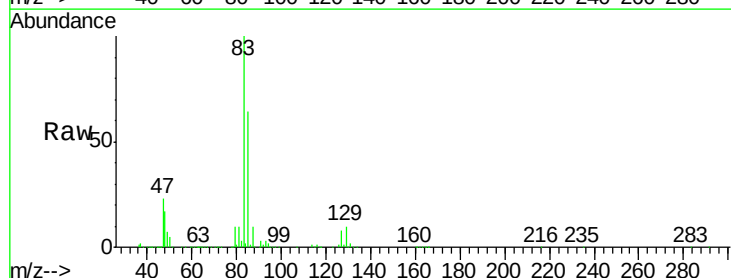
Tgt Ion: 83 Resp: 2387530

Ion Ratio Lower Upper

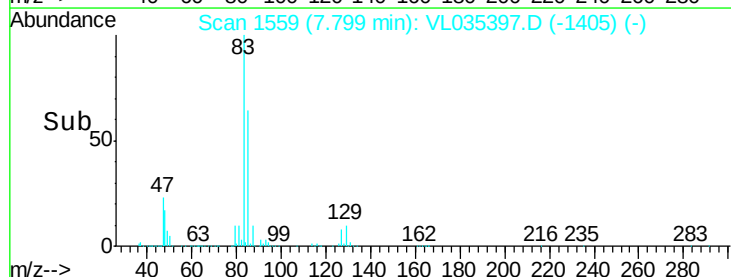
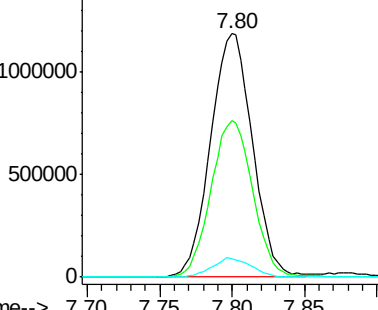
83 100

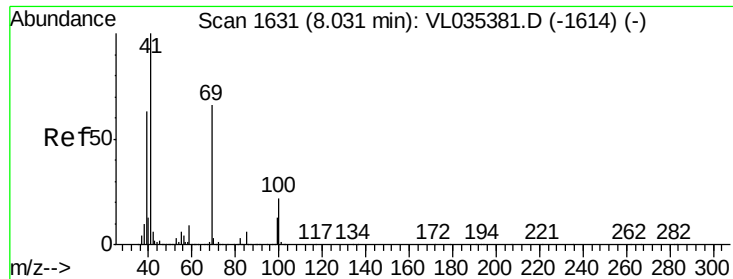
85 64.4 52.2 78.4

127 7.7 6.3 9.5



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





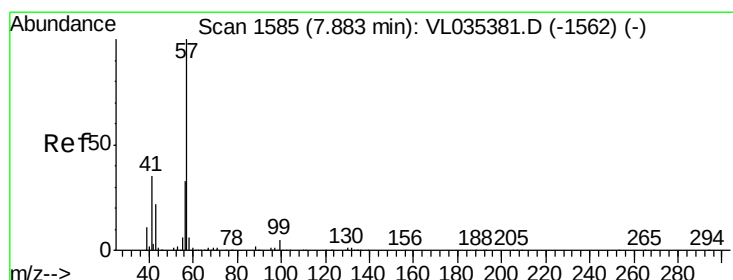
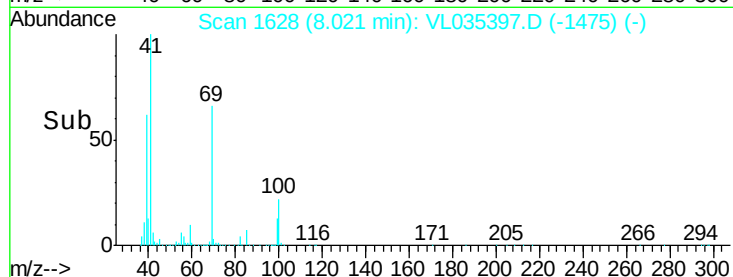
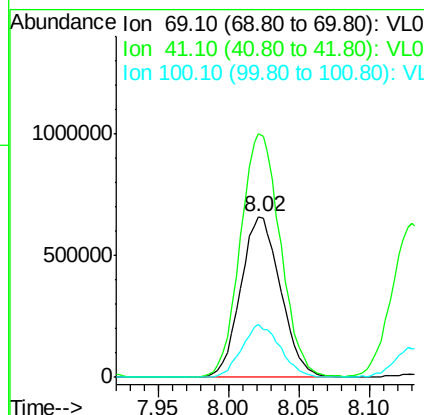
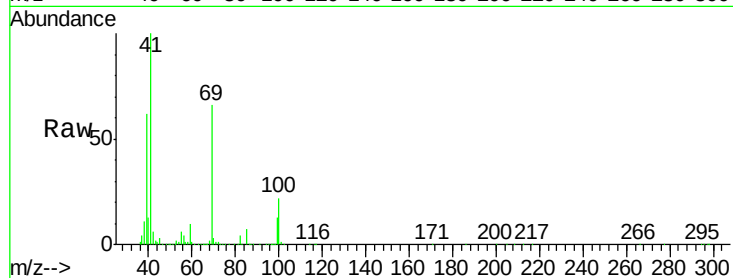
#43
Methyl Methacrylate
Concen: 9.291 ppbv
RT: 8.02 min Scan# 1628
Delta R.T. -0.01 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1307086
Ion Ratio Lower Upper
69 100
41 152.0 123.4 185.2
100 31.9 26.7 40.1

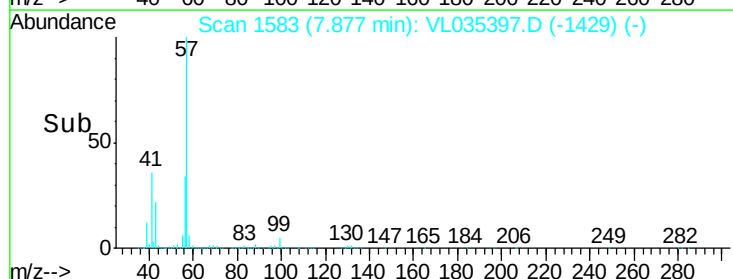
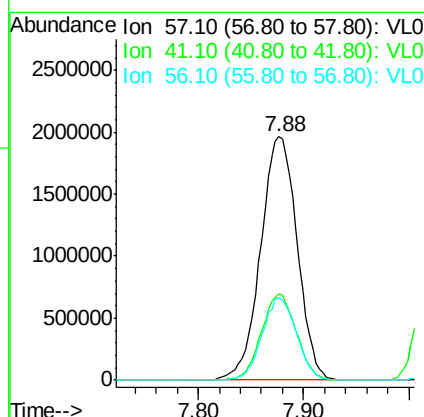
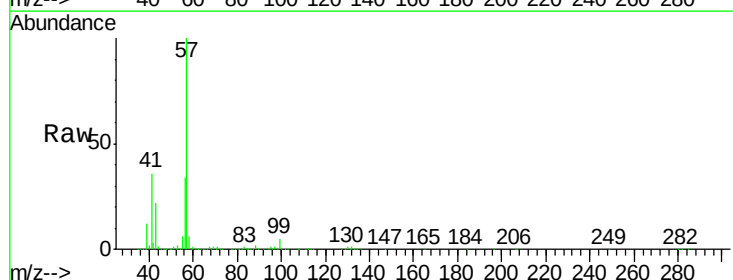
Manual Integrations
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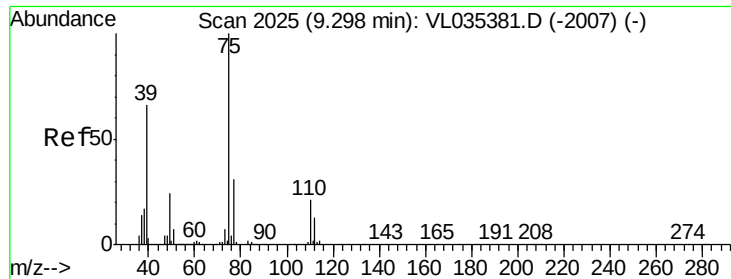
MMDadoda
8/17/2020 5:44:11 PM



#44
2,2,4-Trimethylpentane
Concen: 8.687 ppbv
RT: 7.88 min Scan# 1583
Delta R.T. -0.01 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Tgt Ion: 57 Resp: 4739152
Ion Ratio Lower Upper
57 100
41 33.8 26.9 40.3
56 31.9 25.6 38.4





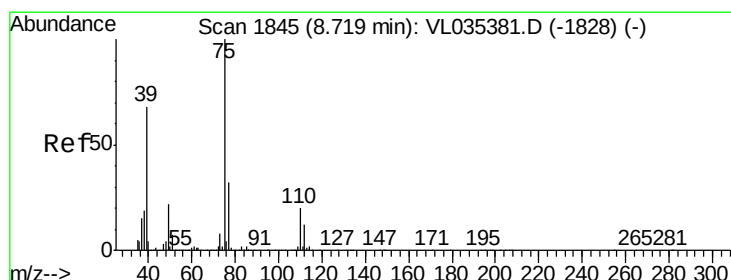
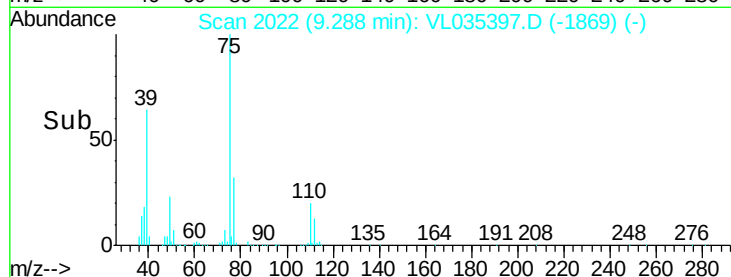
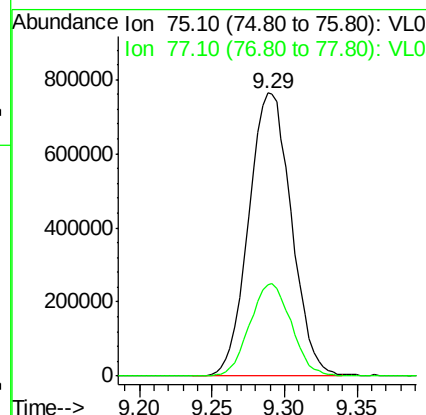
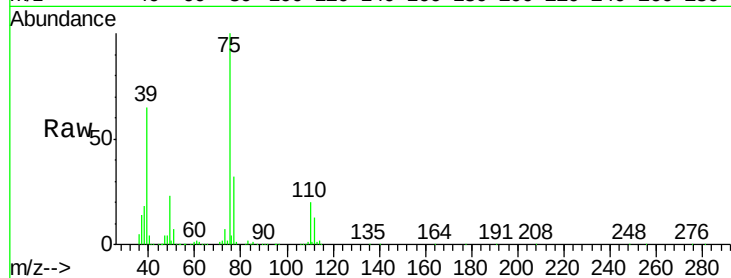
#45
t-1,3-Dichloropropene
Concen: 9.596 ppbv
RT: 9.29 min Scan# 2022
Delta R.T. -0.01 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 1566453
Ion Ratio Lower Upper
75 100
77 32.5 25.2 37.8

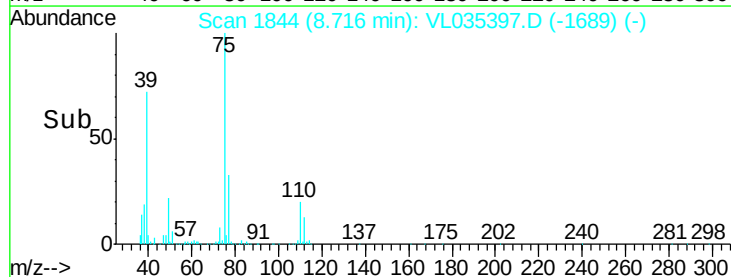
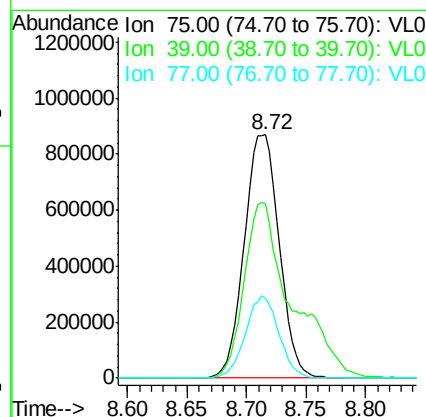
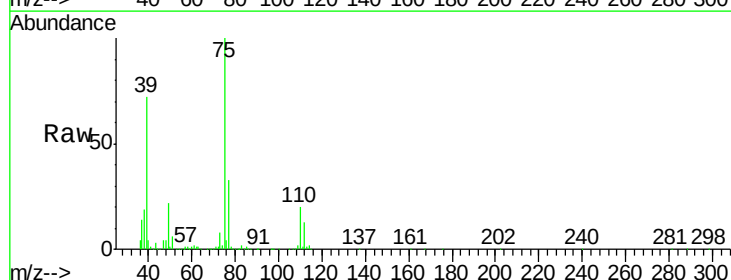
Manual Integrations
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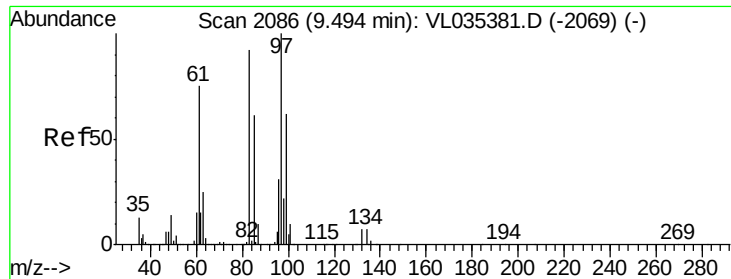
MMDadoda
8/17/2020 5:44:11 PM



#46
cis-1,3-Dichloropropene
Concen: 9.276 ppbv
RT: 8.72 min Scan# 1844
Delta R.T. -0.00 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Tgt Ion: 75 Resp: 1768459
Ion Ratio Lower Upper
75 100
39 71.8 54.2 81.2
77 32.9 25.7 38.5





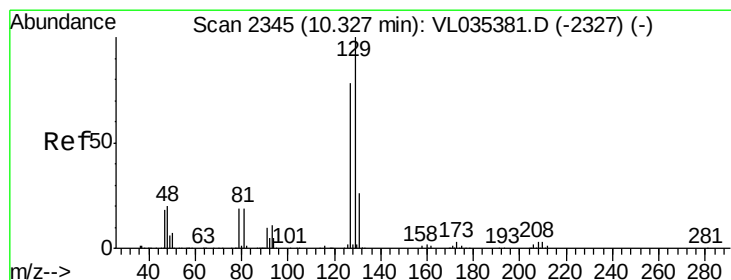
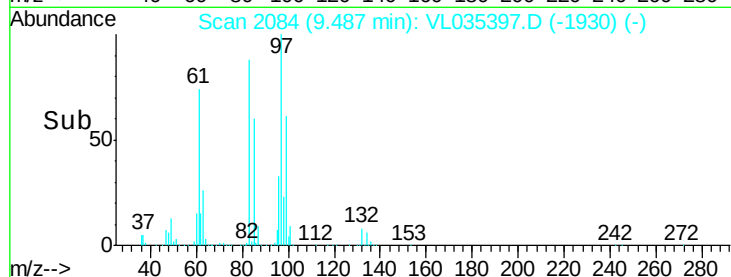
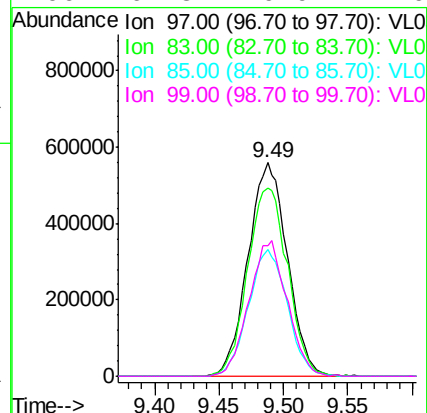
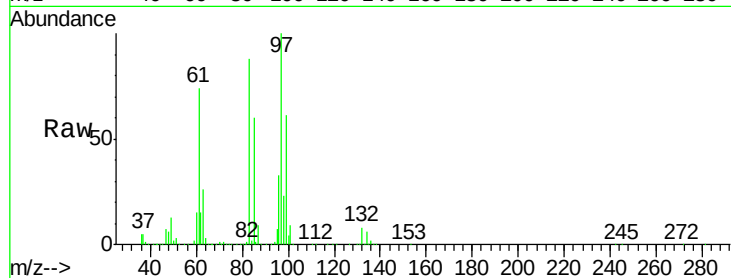
#47
 1,1,2-Trichloroethane
 Concen: 9.356 ppbv
 RT: 9.49 min Scan# 2084
 Delta R.T. -0.01 min
 Lab File: VL035397.D
 Acq: 13 Aug 2020 7:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	87.8	73.9	110.9	
85	59.6	49.0	73.6	
99	61.3	49.9	74.9	

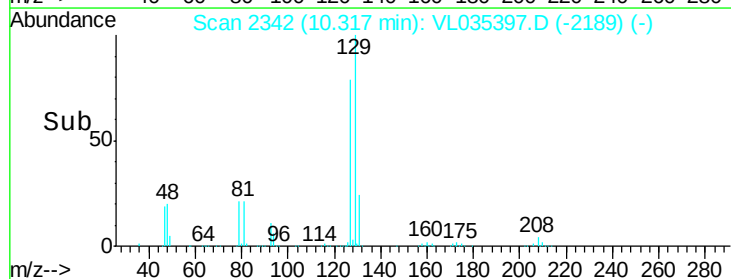
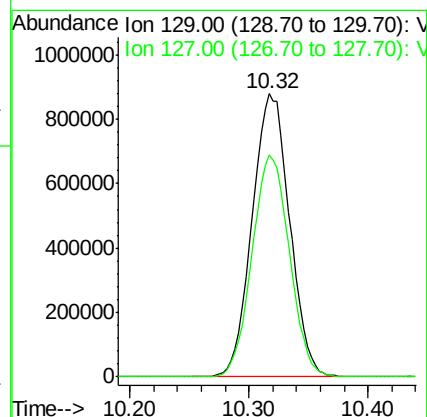
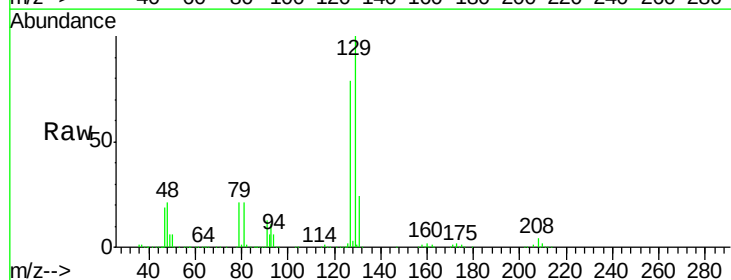
Manual Integrations
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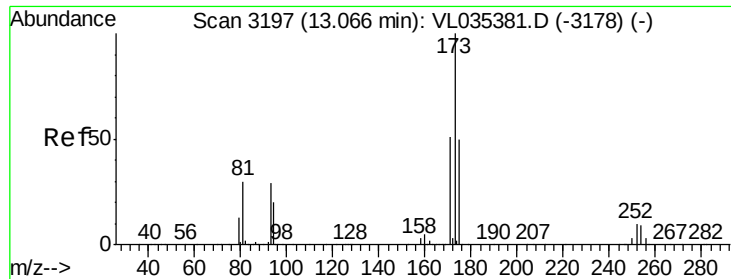
MMDadoda
 8/17/2020 5:44:11 PM



#48
 Dibromochloromethane
 Concen: 9.406 ppbv
 RT: 10.32 min Scan# 2342
 Delta R.T. -0.01 min
 Lab File: VL035397.D
 Acq: 13 Aug 2020 7:56

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.3	39.3	117.8	





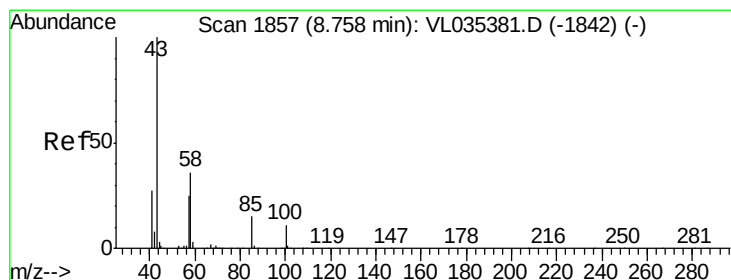
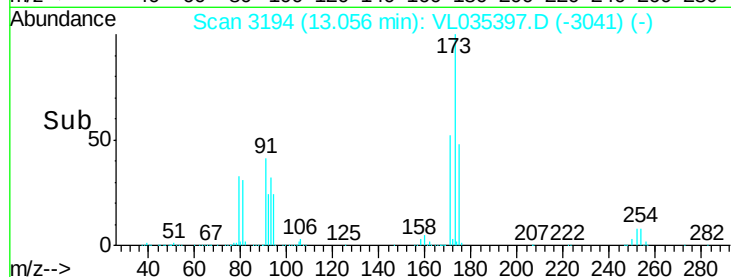
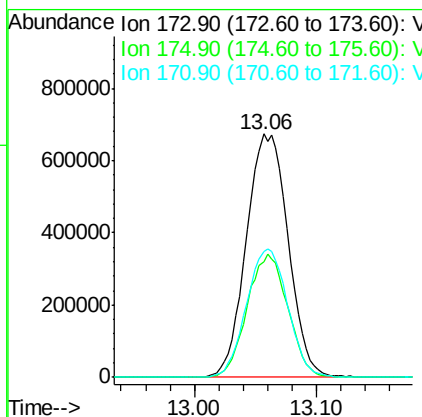
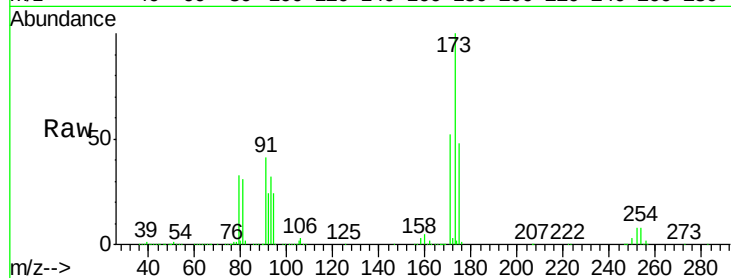
#49
Bromoform
Concen: 9.578 ppbv
RT: 13.06 min Scan# 3194
Delta R.T. -0.01 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1598490
Ion Ratio Lower Upper
173 100
175 49.3 39.9 59.9
171 52.0 41.8 62.8

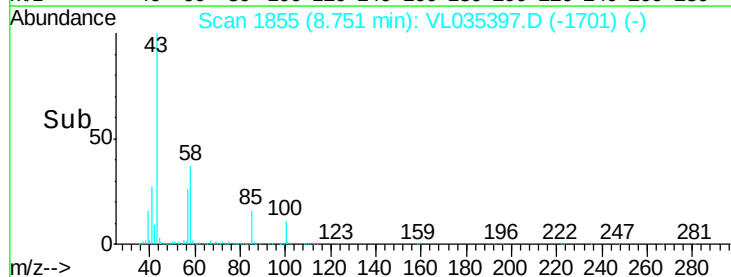
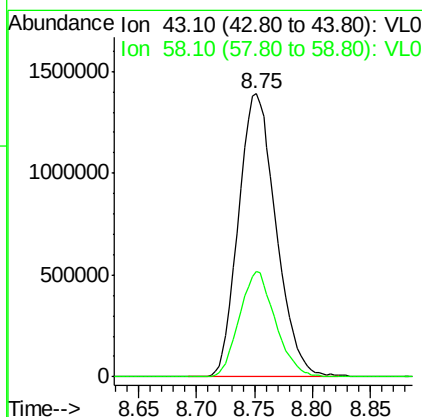
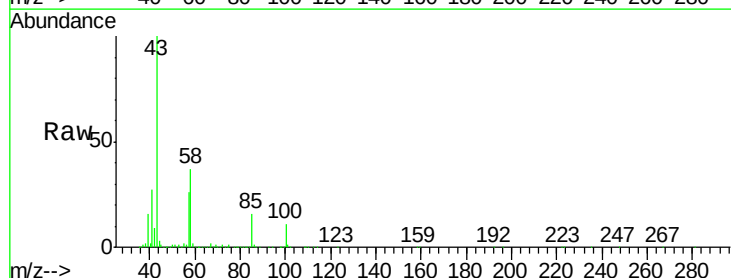
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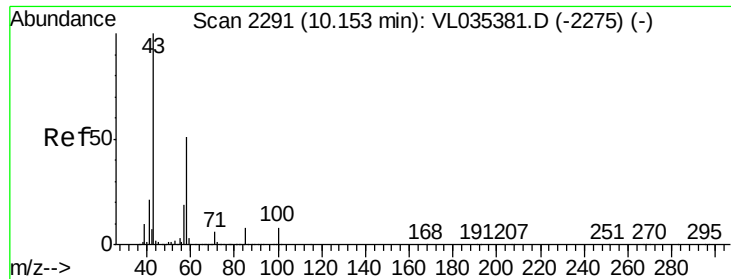
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 8.805 ppbv
RT: 8.75 min Scan# 1855
Delta R.T. -0.01 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Tgt Ion: 43 Resp: 3127445
Ion Ratio Lower Upper
43 100
58 36.0 29.0 43.6





#51

2-Hexanone

Concen: 8.906 ppbv

RT: 10.15 min Scan# 2289

Delta R.T. -0.01 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2662986

Ion Ratio Lower Upper

43 100

58 49.4 39.5 59.3

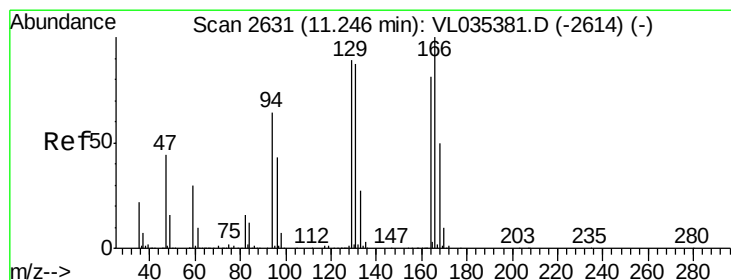
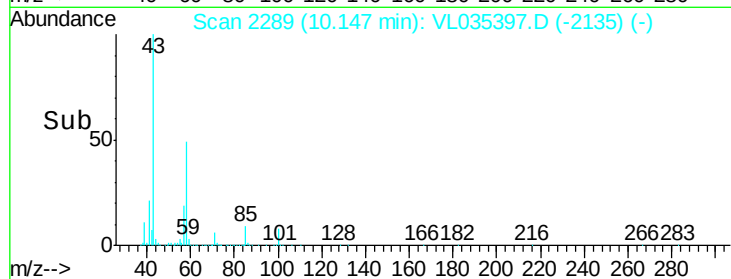
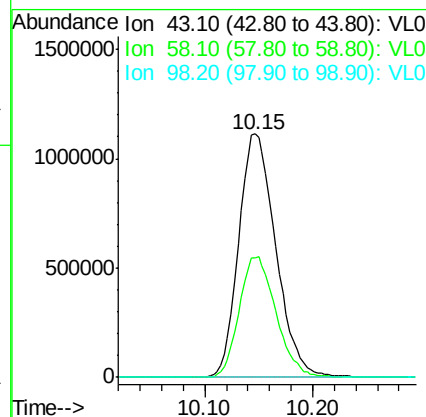
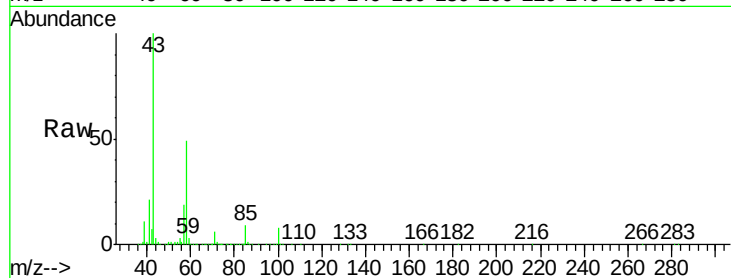
98 0.1 0.1 0.1#

Manual Integrations

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#52

Tetrachloroethene

Concen: 8.090 ppbv

RT: 11.24 min Scan# 2628

Delta R.T. -0.01 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Tgt Ion: 164 Resp: 909677

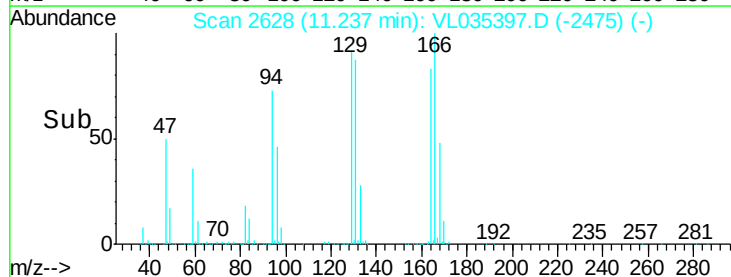
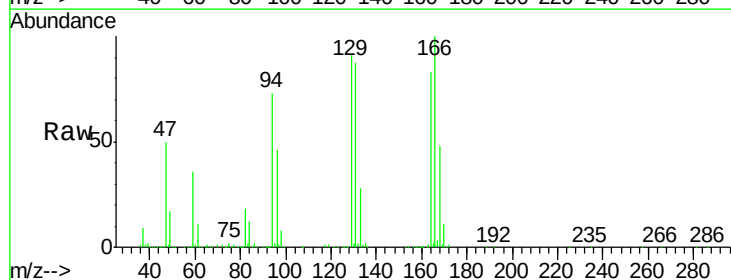
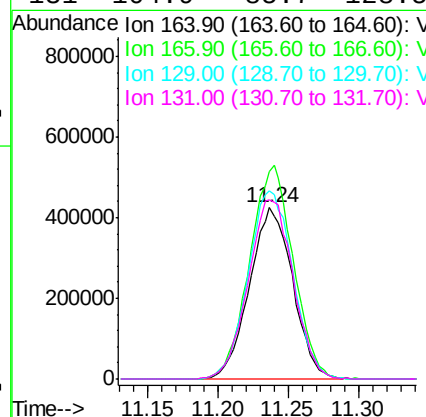
Ion Ratio Lower Upper

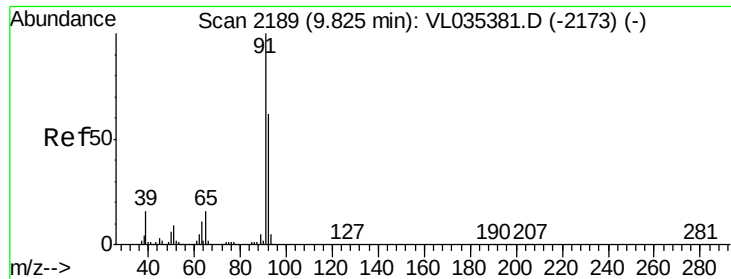
164 100

166 121.0 98.2 147.2

129 110.1 87.3 130.9

131 104.9 85.7 128.5





#53

Toluene

Concen: 8.823 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.01 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3321317

Ion Ratio Lower Upper

91 100

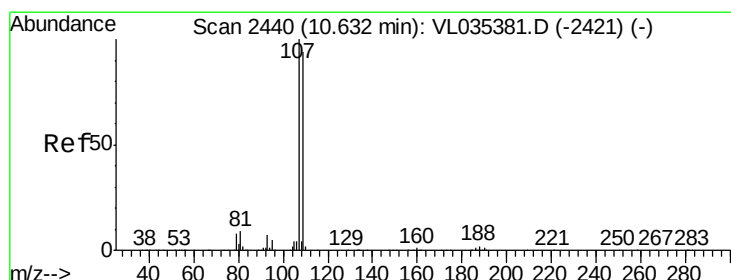
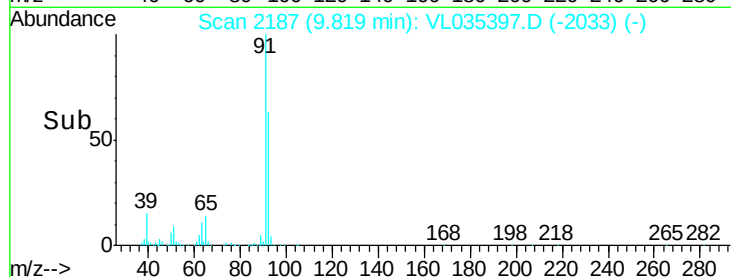
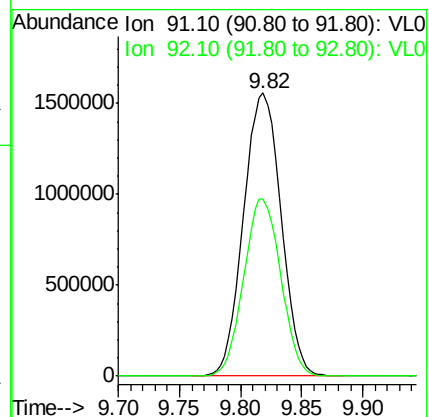
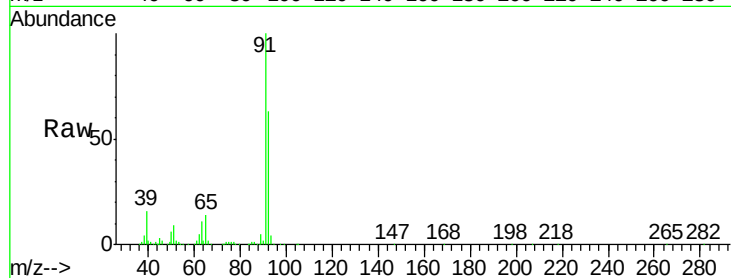
92 61.7 49.1 73.7

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 9.028 ppbv

RT: 10.63 min Scan# 2438

Delta R.T. -0.01 min

Lab File: VL035397.D

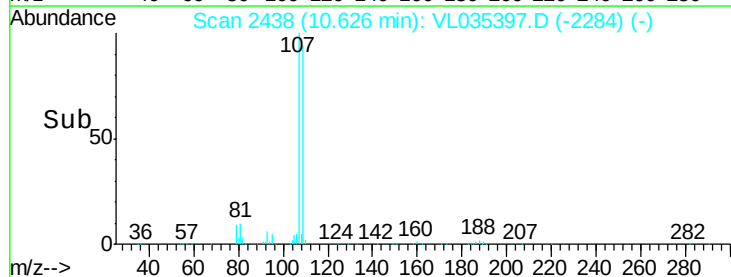
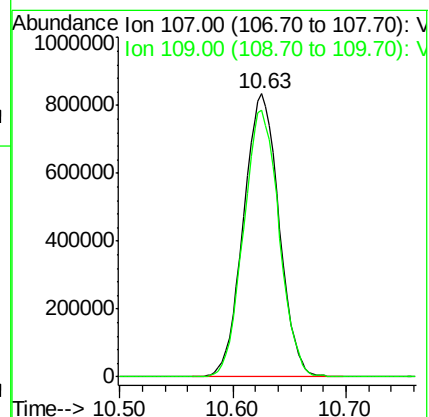
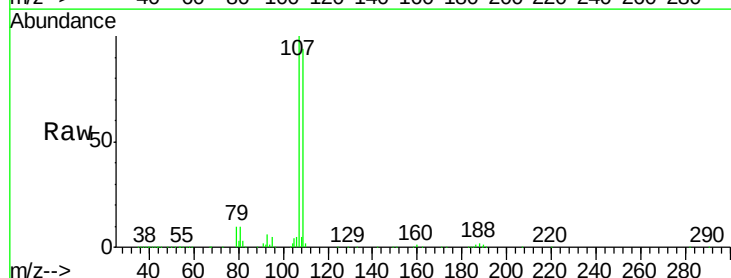
Acq: 13 Aug 2020 7:56

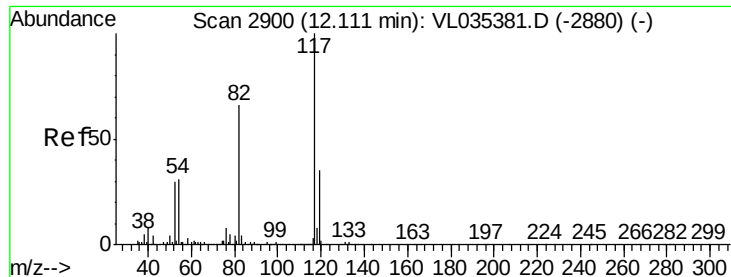
Tgt Ion: 107 Resp: 1821063

Ion Ratio Lower Upper

107 100

109 94.2 75.2 112.8





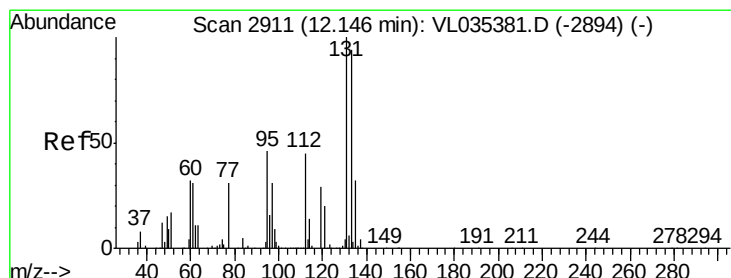
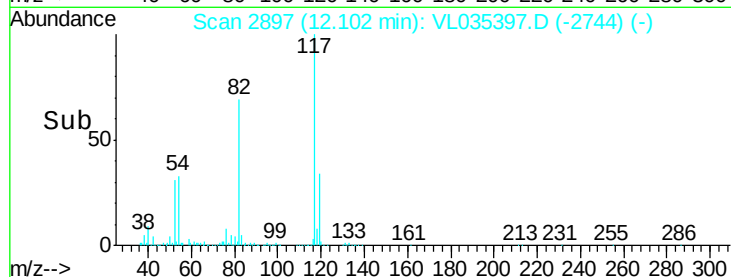
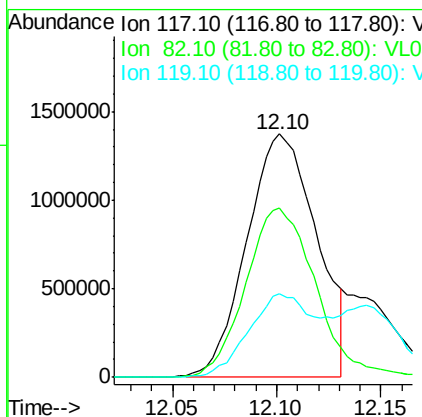
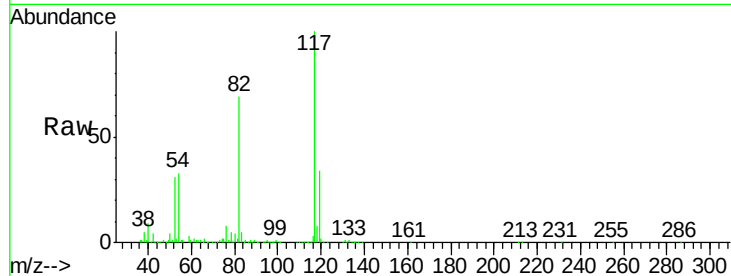
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.10 min Scan# 2897
Delta R.T. -0.01 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 3187721
Ion Ratio Lower Upper
117 100
82 70.4 53.0 79.6
119 31.1 25.7 38.5

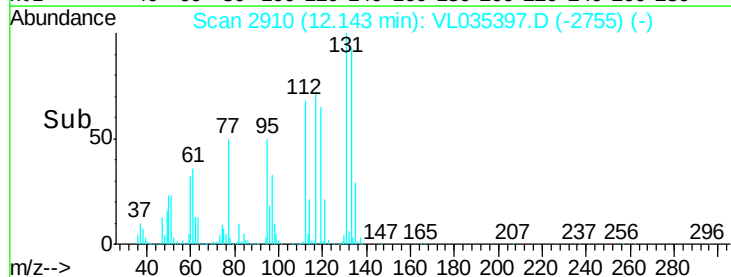
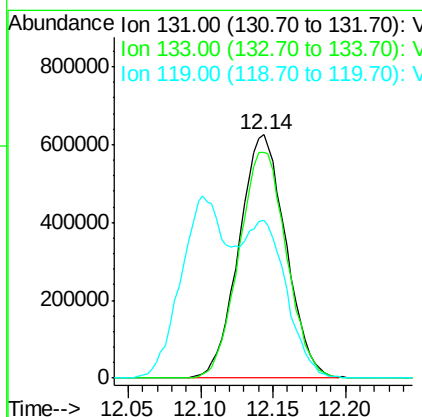
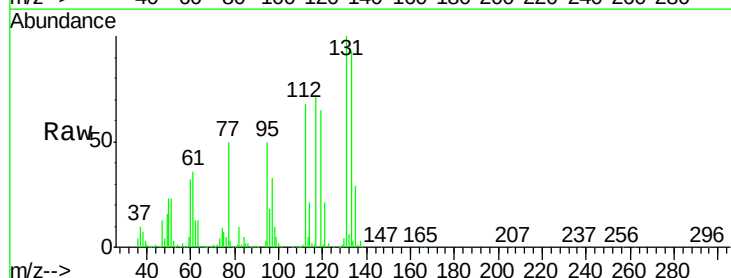
Manual Integrations
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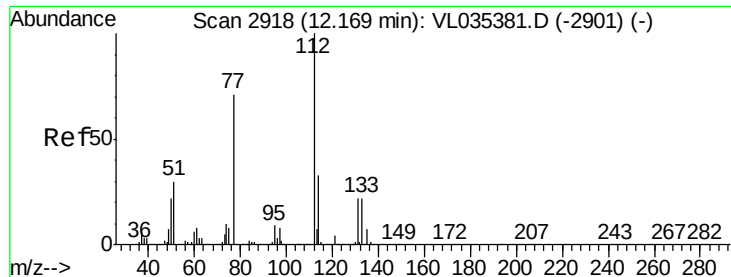
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.041 ppbv
RT: 12.14 min Scan# 2910
Delta R.T. -0.00 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Tgt Ion:131 Resp: 1400414
Ion Ratio Lower Upper
131 100
133 94.9 76.1 114.1
119 65.7 47.0 70.4





#57

Chlorobenzene

Concen: 8.934 ppbv

RT: 12.16 min Scan# 2916

Delta R.T. -0.01 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Instrument :

MSVOA_L

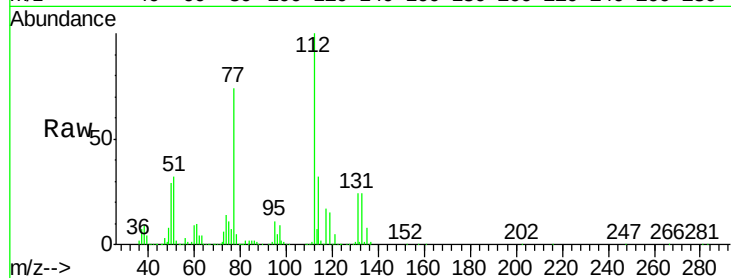
ClientSampleId :

VSTDCCC010EC

Tot Ion:	112	Resp:	2427857
Ion	Ratio	Lower	Upper
112	100		
77	73.9	57.6	86.4
114	32.1	30.0	36.6

Manual Integrations
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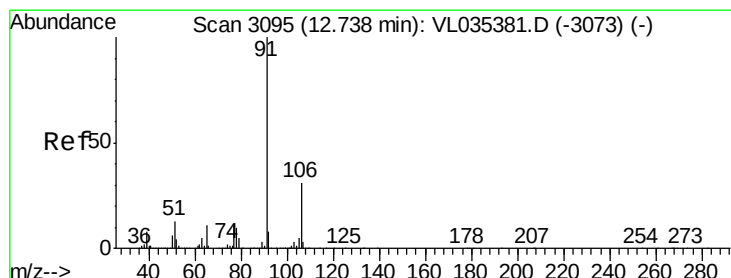
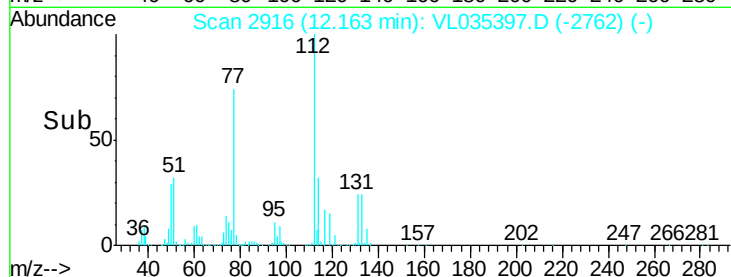
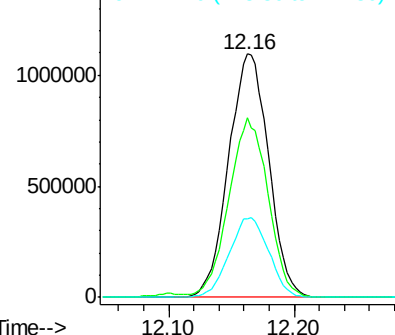
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 8.966 ppbv

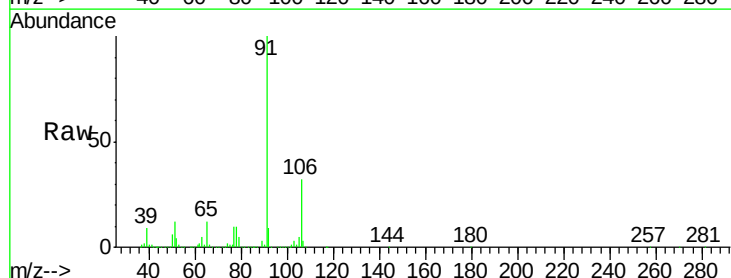
RT: 12.73 min Scan# 3091

Delta R.T. -0.01 min

Lab File: VL035397.D

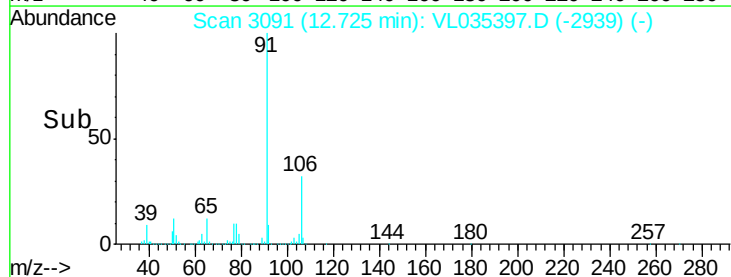
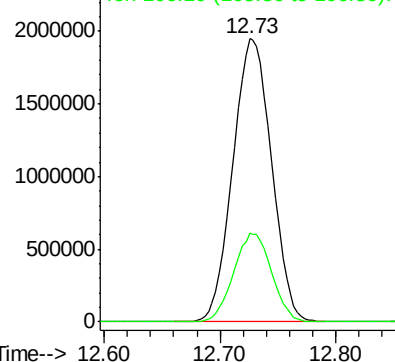
Acq: 13 Aug 2020 7:56

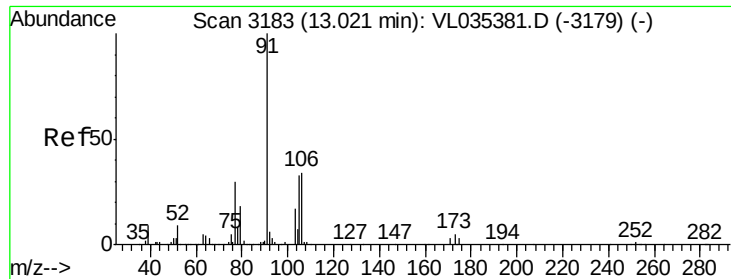
Tgt Ion:	91	Resp:	4517103
Ion	Ratio	Lower	Upper
91	100		
106	31.6	25.1	37.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





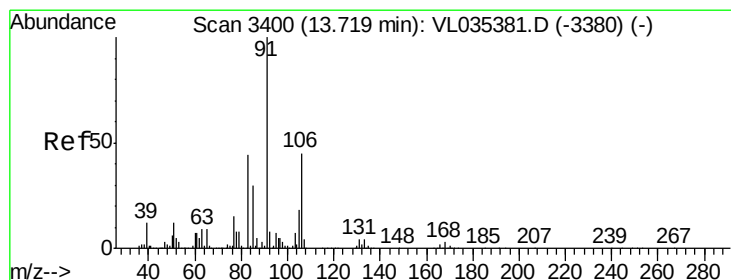
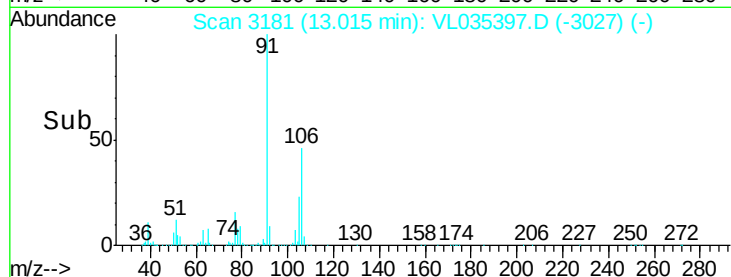
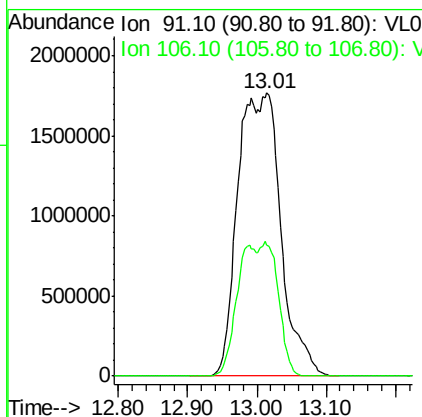
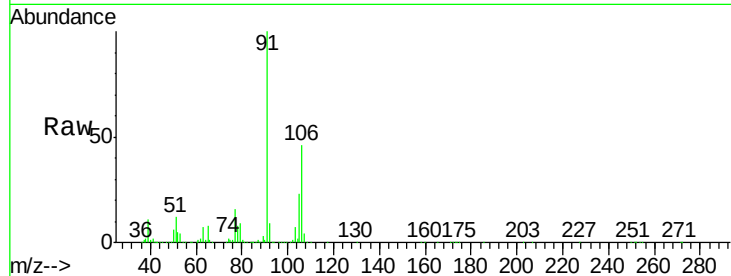
#59
m/p-Xylene
Concen: 18.158 ppbv m
RT: 13.01 min Scan# 3181
Delta R.T. -0.01 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 7629150
Ion Ratio Lower Upper
91 100
106 43.7 36.7 55.1

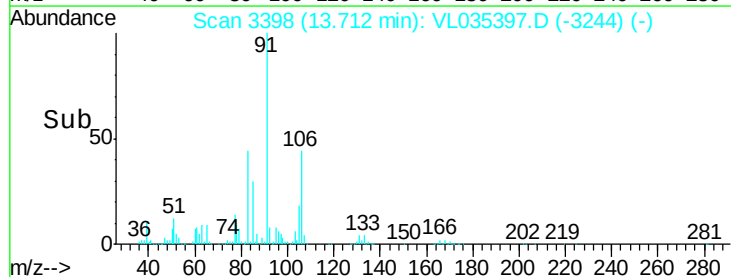
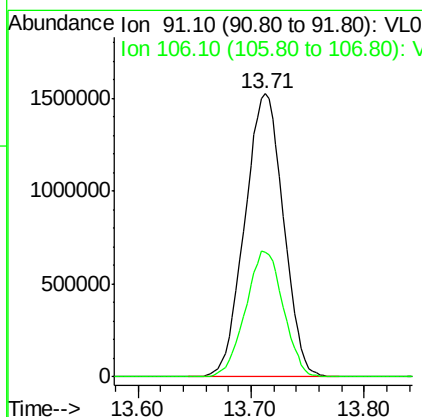
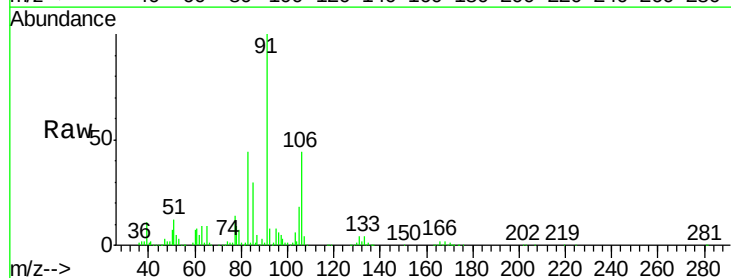
Manual Integrations
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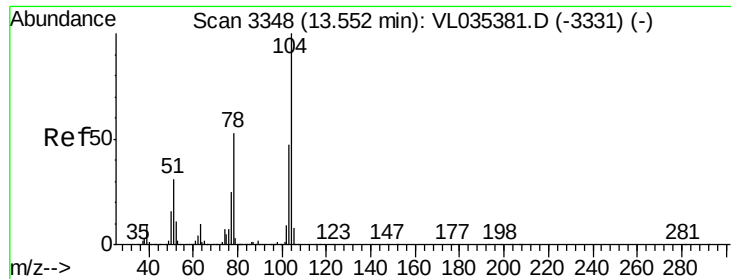
MMDadoda
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#60
o-Xylene
Concen: 8.899 ppbv
RT: 13.71 min Scan# 3398
Delta R.T. -0.01 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Tgt Ion: 91 Resp: 3620247
Ion Ratio Lower Upper
91 100
106 43.5 22.2 66.6





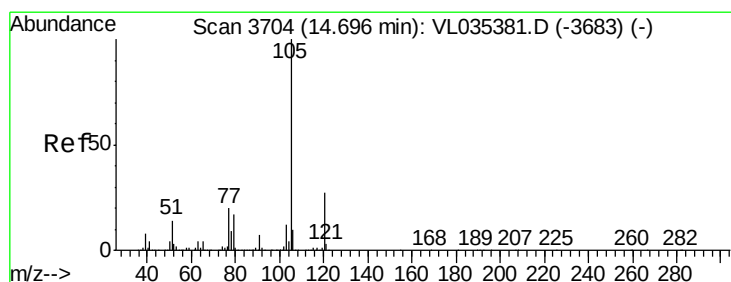
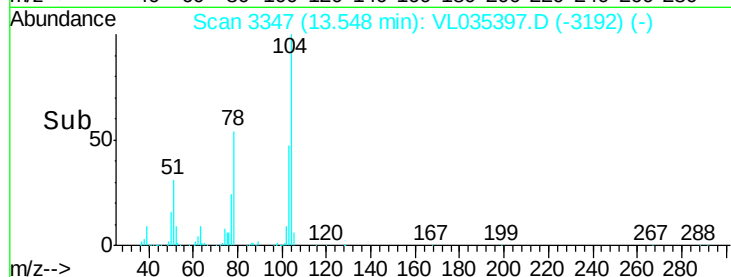
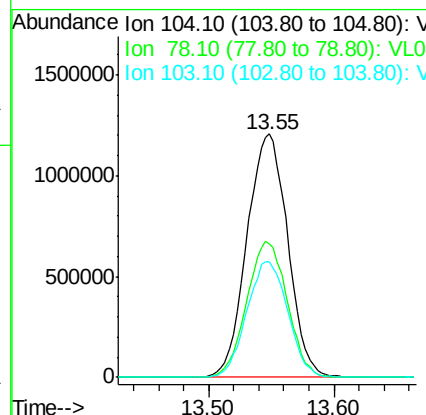
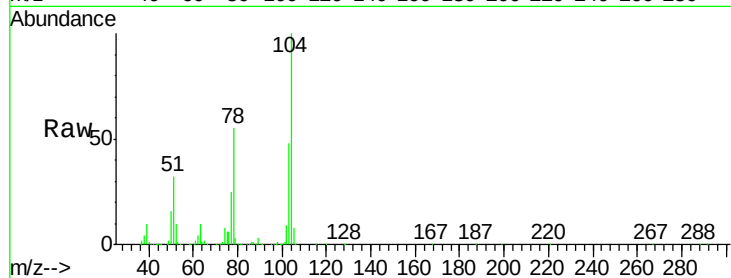
#61
Stvrene
Concen: 9.080 ppbv
RT: 13.55 min Scan# 3347
Delta R.T. -0.00 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	55.5	43.0	64.4
103	48.0	37.9	56.9

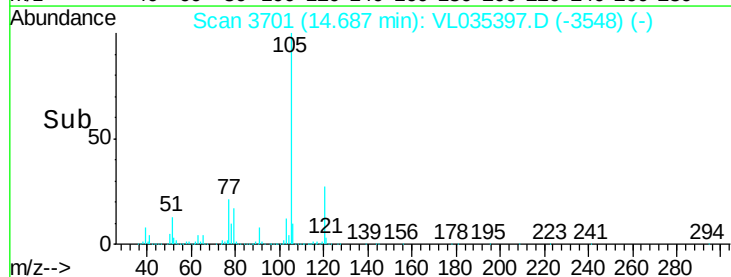
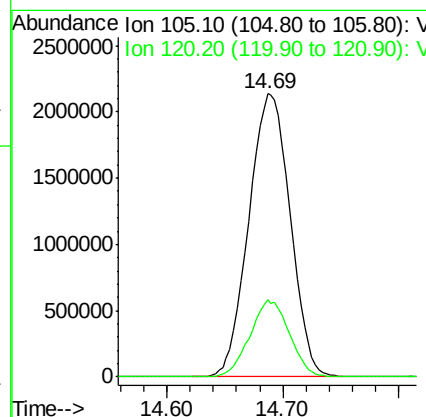
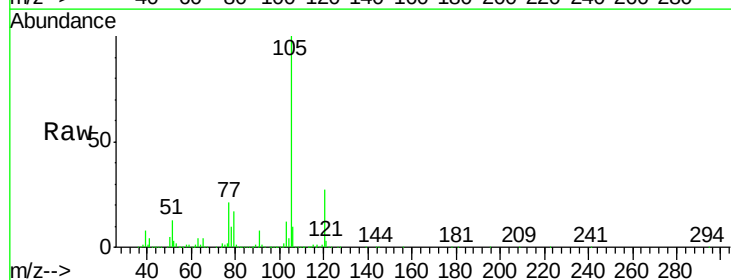
Manual Integrations
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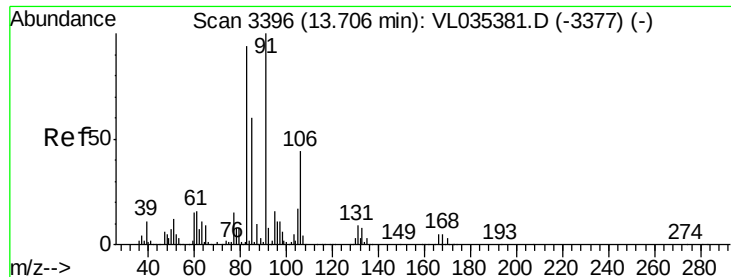
MMDadoda
8/17/2020 5:44:11 PM



#62
Isopropylbenzene
Concen: 8.673 ppbv
RT: 14.69 min Scan# 3701
Delta R.T. -0.01 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.9	21.1	31.7





#63

1,1,2,2-Tetrachloroethane

Concen: 8.612 ppbv

RT: 13.70 min Scan# 3393

Delta R.T. -0.01 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 2555596

Ion Ratio Lower Upper

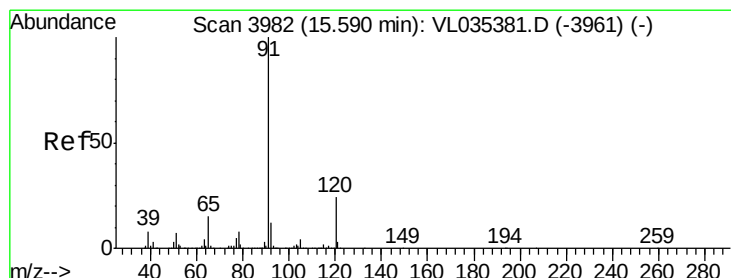
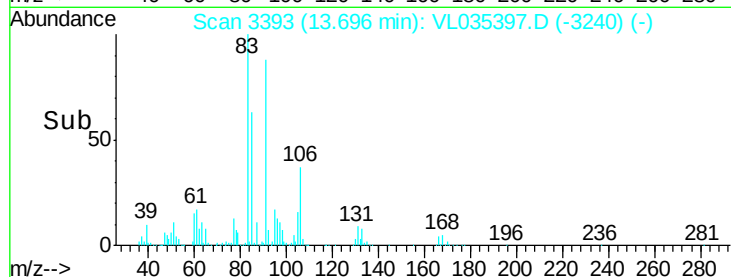
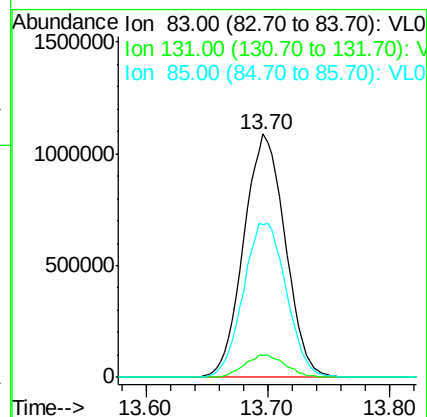
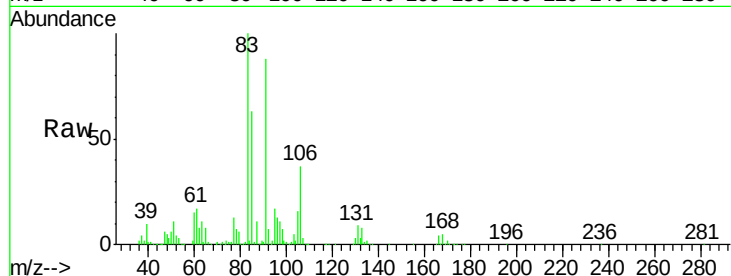
83 100

131 9.3 4.5 13.7

85 65.9 32.4 97.0

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#64

n-propylbenzene

Concen: 8.859 ppbv

RT: 15.58 min Scan# 3980

Delta R.T. -0.01 min

Lab File: VL035397.D

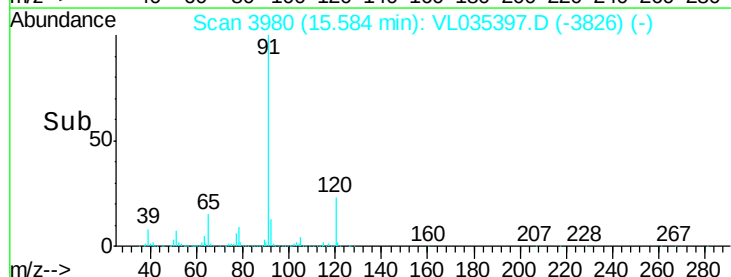
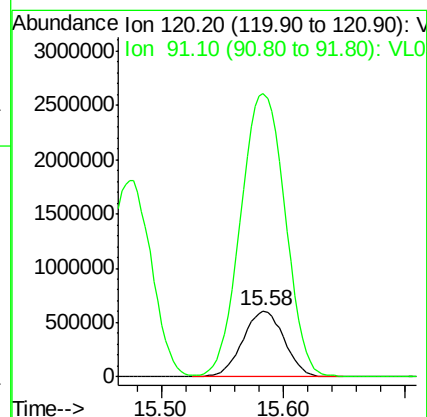
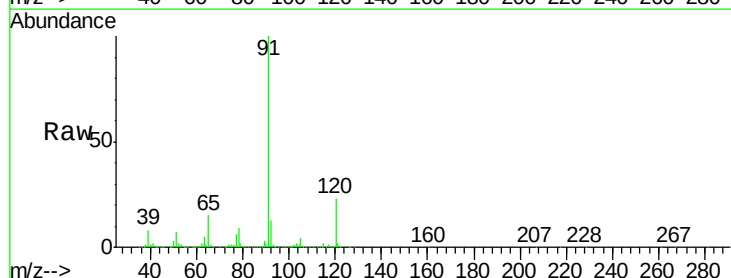
Acq: 13 Aug 2020 7:56

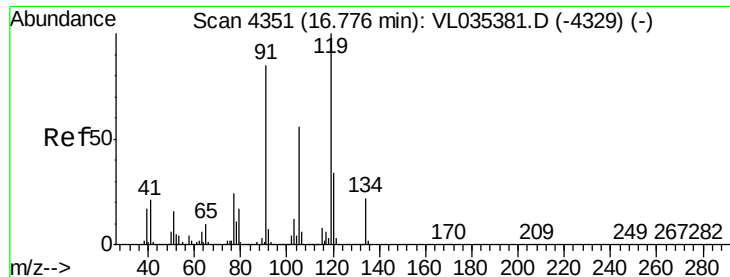
Tgt Ion: 120 Resp: 1426156

Ion Ratio Lower Upper

120 100

91 463.3 356.2 534.4





#65

tert-Butylbenzene

Concen: 8.469 ppbv

RT: 16.77 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 4549869

Ion Ratio Lower Upper

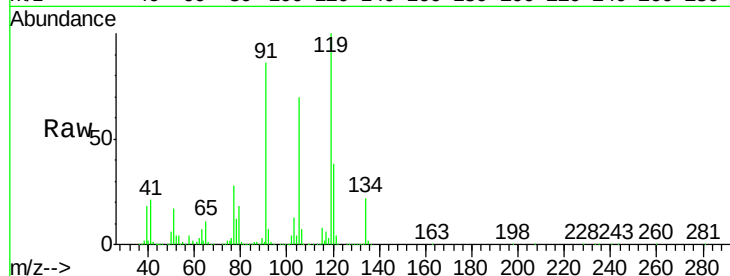
119 100

91 88.8 68.2 102.4

134 19.8 16.2 24.4

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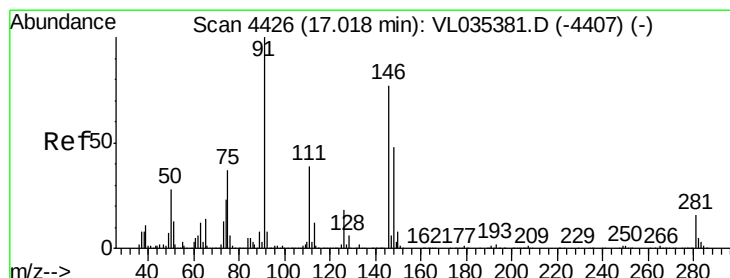
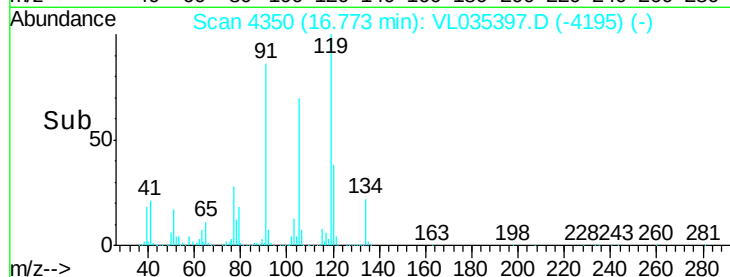
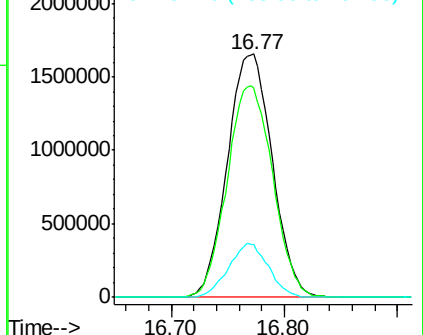
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 8.914 ppbv

RT: 17.01 min Scan# 4423

Delta R.T. -0.01 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

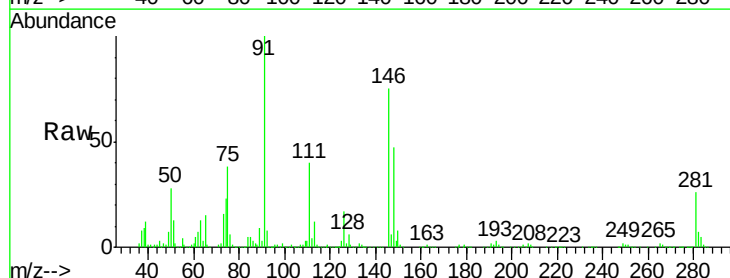
Tgt Ion: 91 Resp: 2162909

Ion Ratio Lower Upper

91 100

126 16.9 14.4 21.6

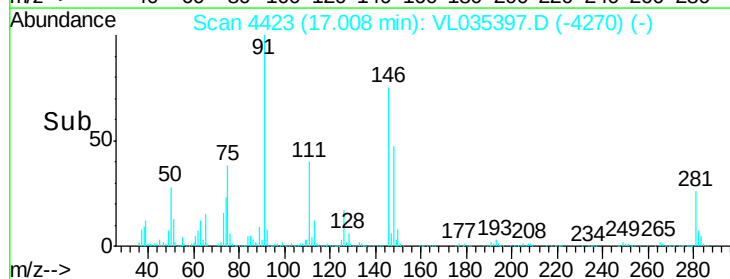
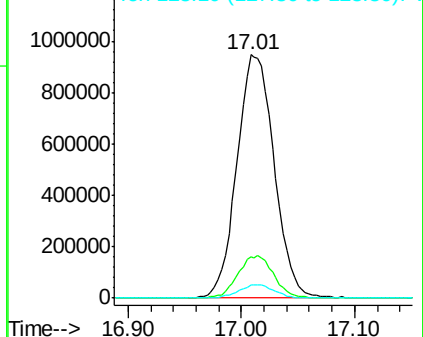
128 5.3 4.6 7.0

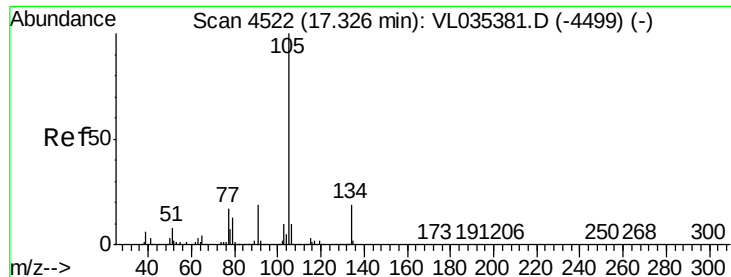


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.588 ppbv

RT: 17.32 min Scan# 4519

Delta R.T. -0.01 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 6650813

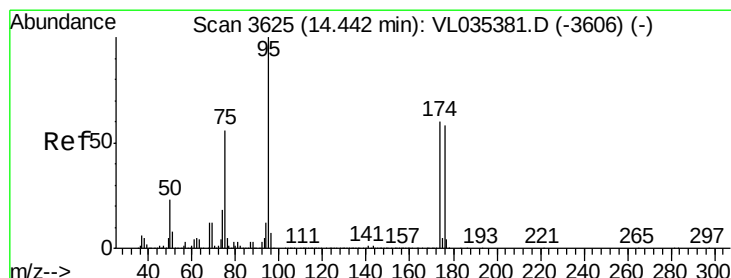
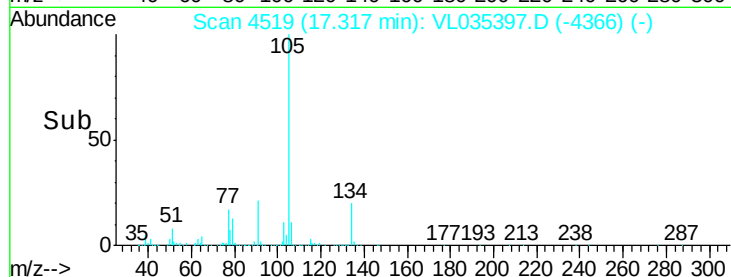
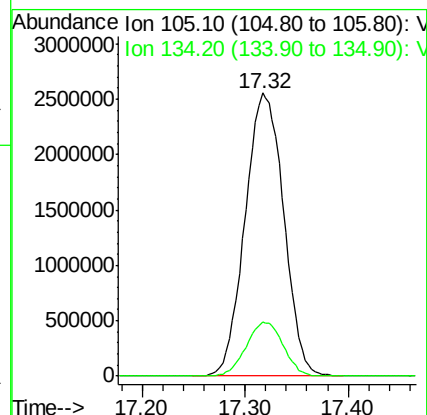
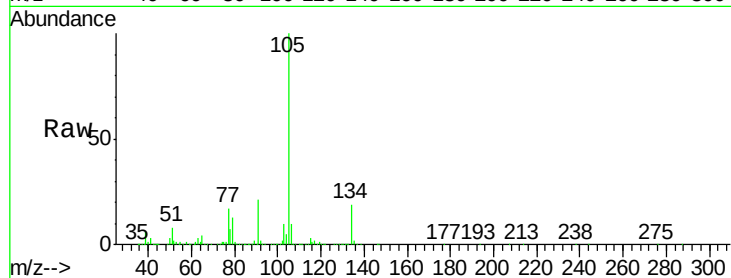
Ion Ratio Lower Upper

105 100

134 18.3 15.0 22.6

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 10.485 ppbv

RT: 14.44 min Scan# 3623

Delta R.T. -0.01 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

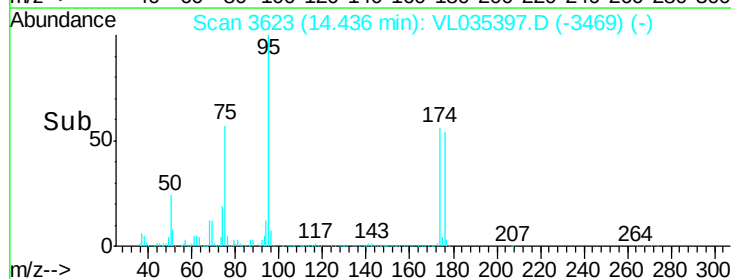
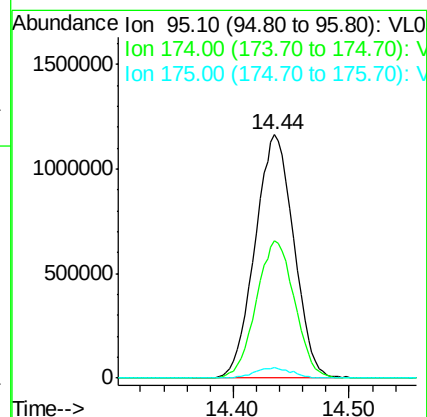
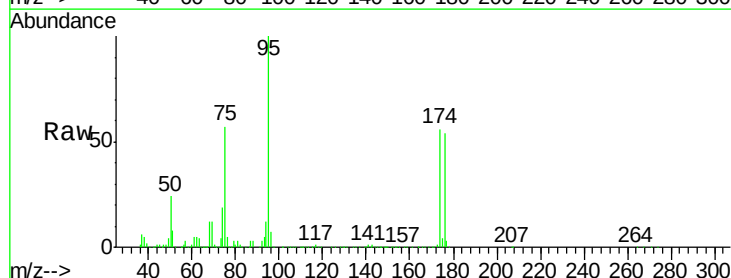
Tgt Ion: 95 Resp: 2698563

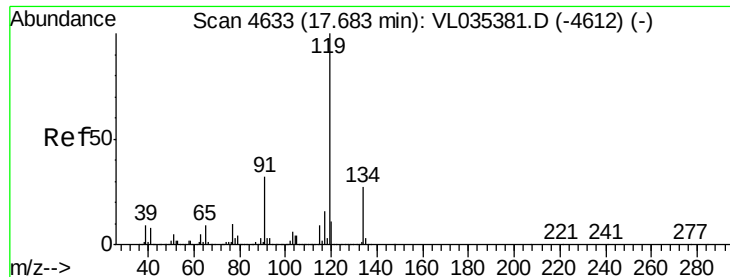
Ion Ratio Lower Upper

95 100

174 56.1 48.2 72.2

175 4.2 3.7 5.5





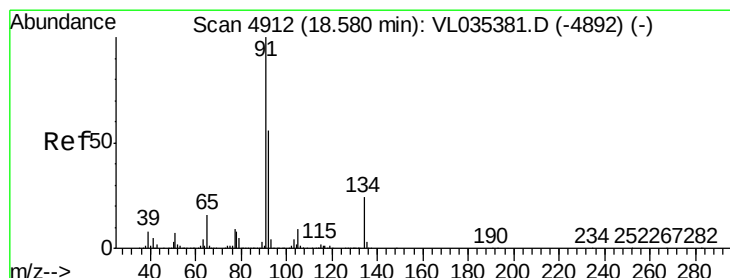
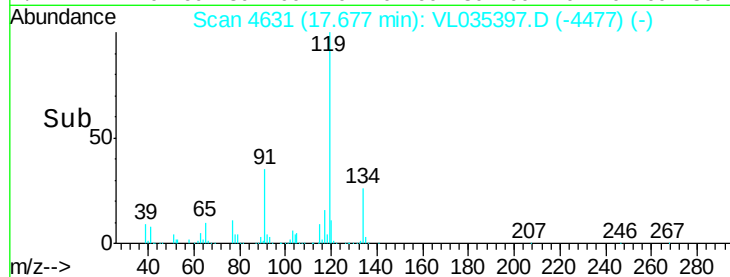
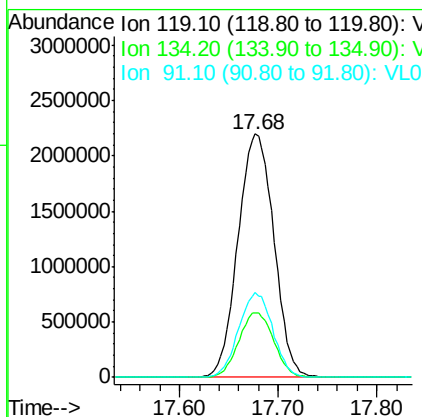
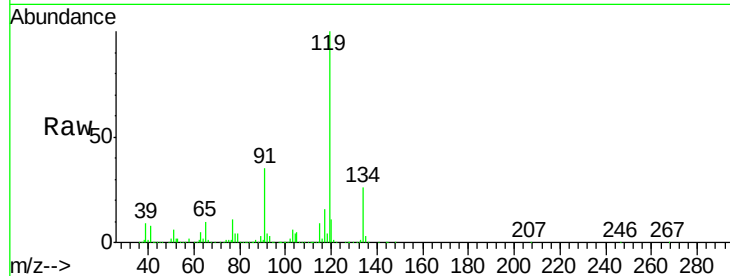
#69
 p-Isopropyltoluene
 Concen: 8.571 ppbv
 RT: 17.68 min Scan# 4631
 Delta R.T. -0.01 min
 Lab File: VL035397.D
 Acq: 13 Aug 2020 7:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.0	20.9	31.3
91	33.1	25.3	37.9

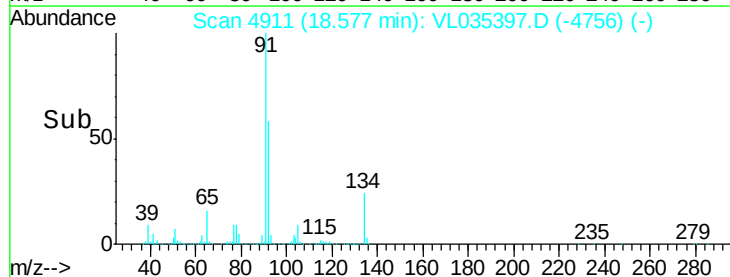
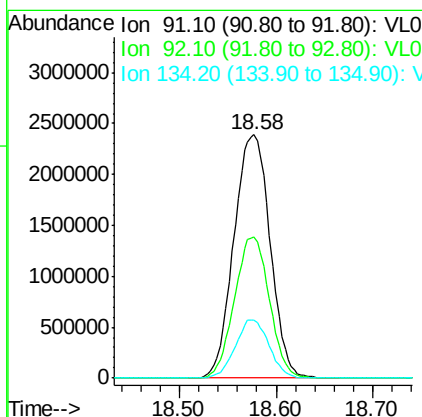
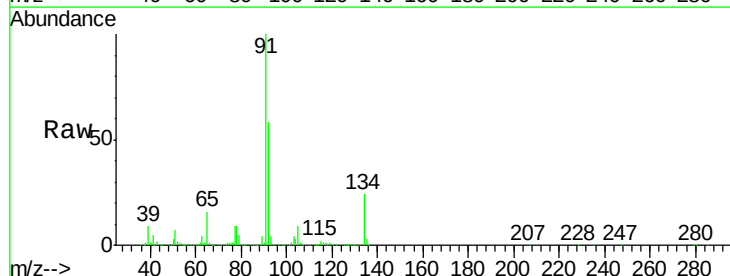
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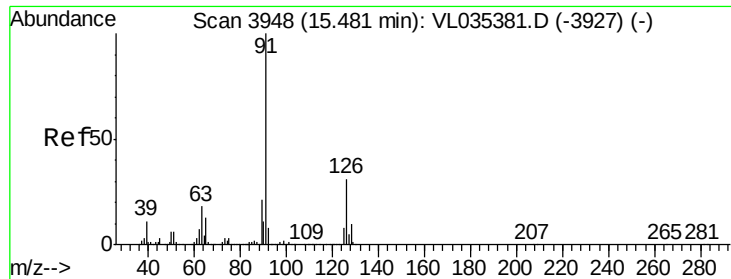
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#70
 n-Butylbenzene
 Concen: 8.700 ppbv
 RT: 18.58 min Scan# 4911
 Delta R.T. -0.00 min
 Lab File: VL035397.D
 Acq: 13 Aug 2020 7:56

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.0	45.0	67.6
134	22.2	18.8	28.2





#71

2-Chlorotoluene

Concen: 8.993 ppbv

RT: 15.47 min Scan# 3946

Delta R.T. -0.01 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 4417892

Ion Ratio Lower Upper

91 100

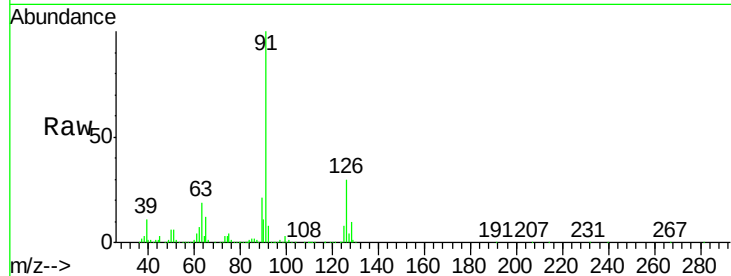
126 28.8 12.1 48.3

Manual Integrations

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

3000000

2500000

2000000

1500000

1000000

500000

0

15.40

15.50

15.60

15.70

15.80

15.90

16.00

16.10

16.20

16.30

16.40

16.50

16.60

16.70

16.80

16.90

17.00

17.10

17.20

17.30

17.40

17.50

17.60

17.70

17.80

17.90

18.00

18.10

18.20

18.30

18.40

18.50

18.60

18.70

18.80

18.90

19.00

19.10

19.20

19.30

19.40

19.50

19.60

19.70

19.80

19.90

20.00

20.10

20.20

20.30

20.40

20.50

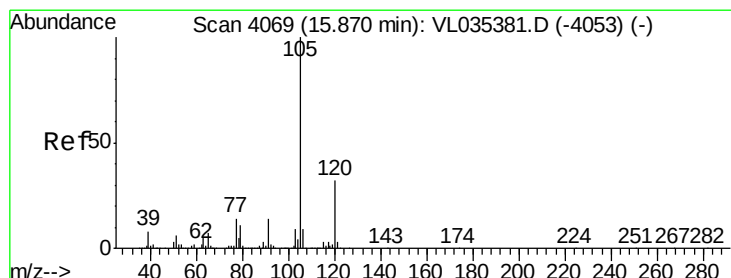
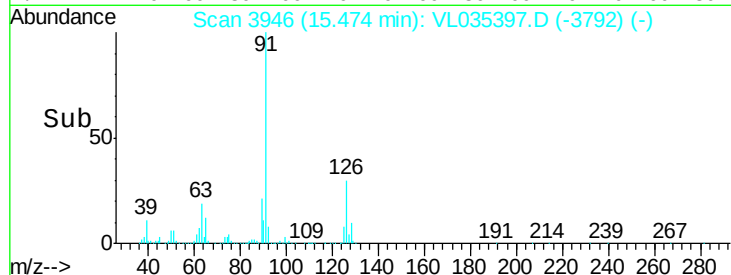
20.60

20.70

20.80

20.90

21.00



#72

4-Ethyltoluene

Concen: 8.825 ppbv

RT: 15.86 min Scan# 4066

Delta R.T. -0.01 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Tgt Ion:105 Resp: 4382318

Ion Ratio Lower Upper

105 100

120 29.2 24.0 36.0

91 13.5 10.4 15.6

77 14.9 11.3 16.9

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

2500000

2000000

1500000

1000000

500000

0

15.80

15.85

15.90

15.95

16.00

16.05

16.10

16.15

16.20

16.25

16.30

16.35

16.40

16.45

16.50

16.55

16.60

16.65

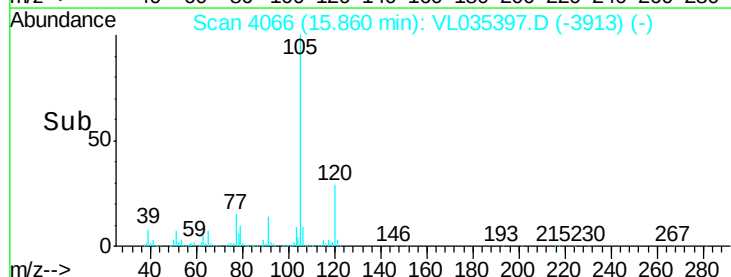
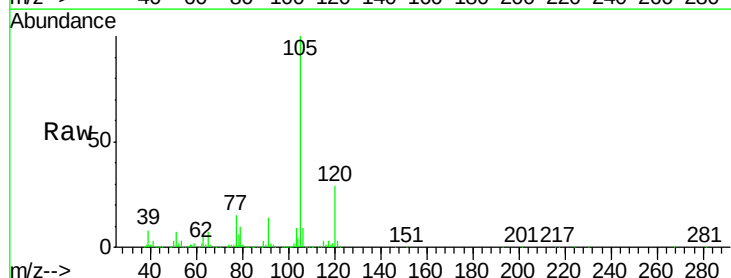
16.70

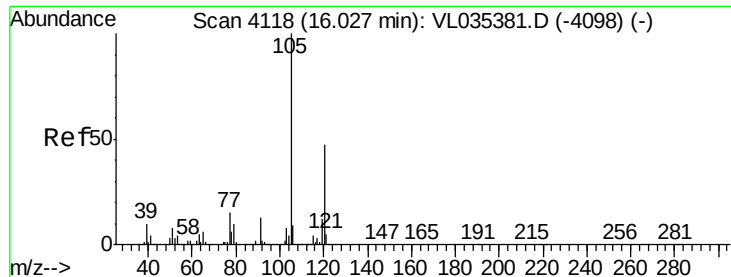
16.75

16.80

16.85

16.90





#73

1,3,5-Trimethylbenzene

Concen: 8.896 ppbv

RT: 16.02 min Scan# 4115

Delta R.T. -0.01 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4142155

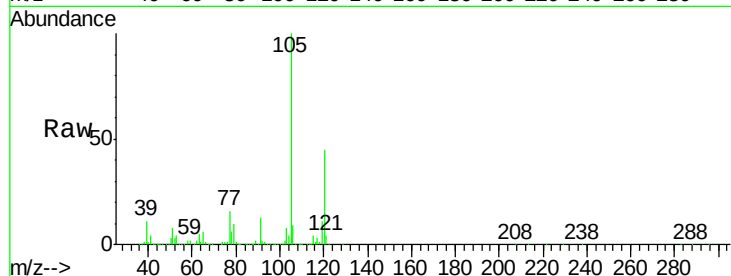
Ion Ratio Lower Upper

105 100

120 45.5 37.4 56.0

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

2000000

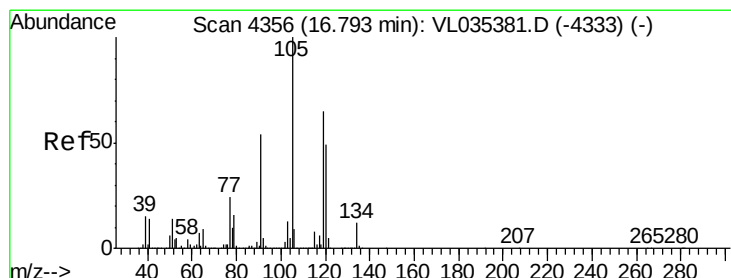
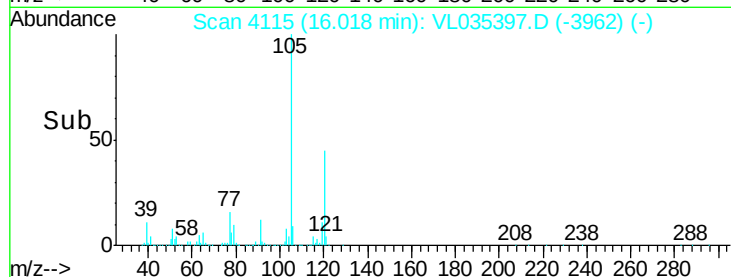
1500000

1000000

500000

0

Time--> 15.90 16.00 16.10



#74

1,2,4-Trimethylbenzene

Concen: 8.464 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. -0.00 min

Lab File: VL035397.D

Acq: 13 Aug 2020 7:56

Tgt Ion:105 Resp: 4145066

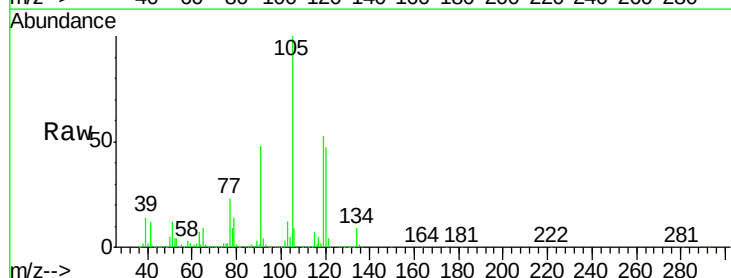
Ion Ratio Lower Upper

105 100

120 47.1 39.1 58.7

91 48.0 43.7 65.5

77 23.0 19.0 28.6



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

2500000

2000000

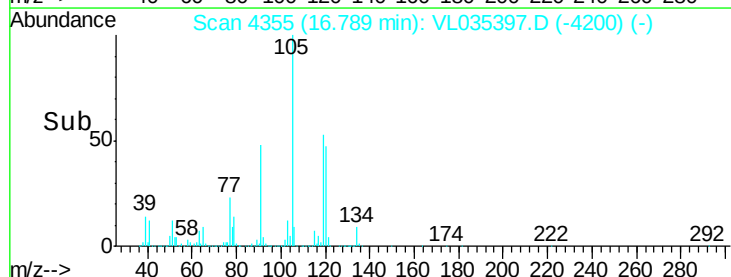
1500000

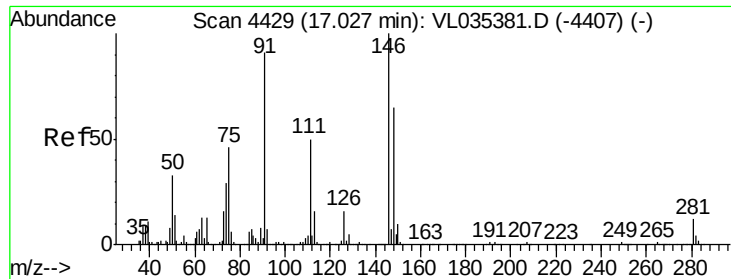
1000000

500000

0

Time--> 16.70 16.80





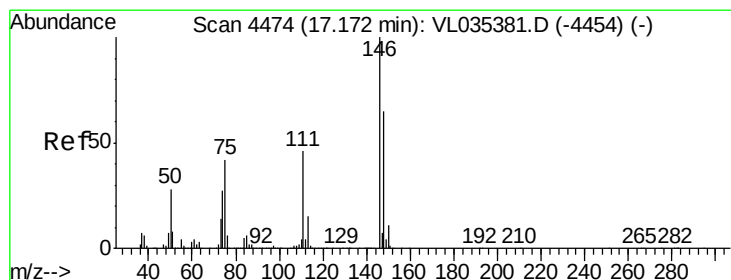
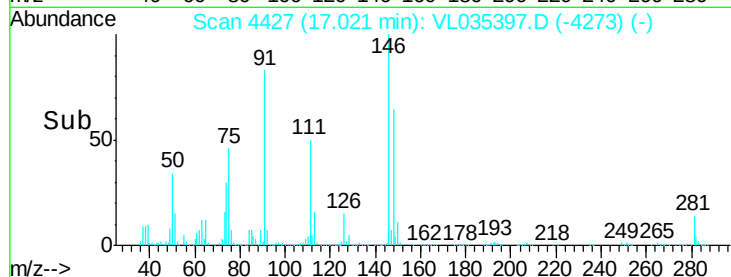
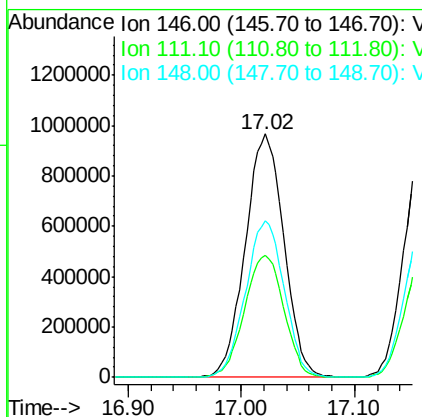
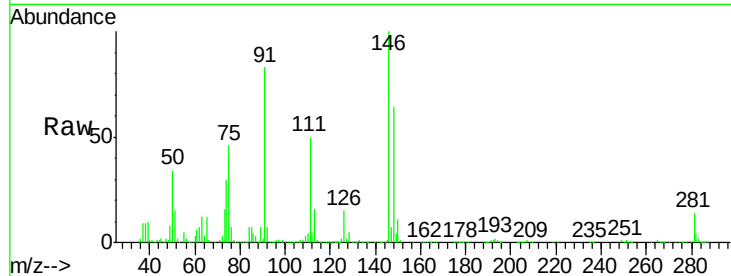
#75
 1,3-Dichlorobenzene
 Concen: 8.576 ppbv
 RT: 17.02 min Scan# 4427
 Delta R.T. -0.01 min
 Lab File: VL035397.D
 Acq: 13 Aug 2020 7:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 2291966
 Ion Ratio Lower Upper
 146 100
 111 51.3 25.0 75.0
 148 64.5 32.6 97.7

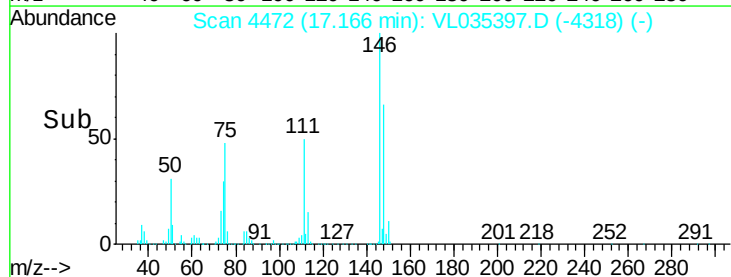
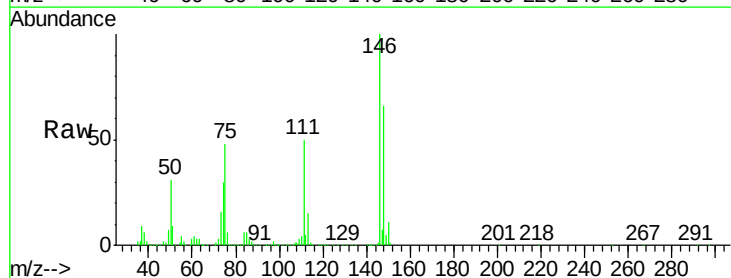
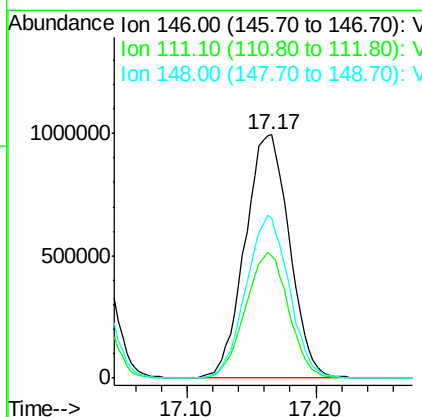
Manual Integrations
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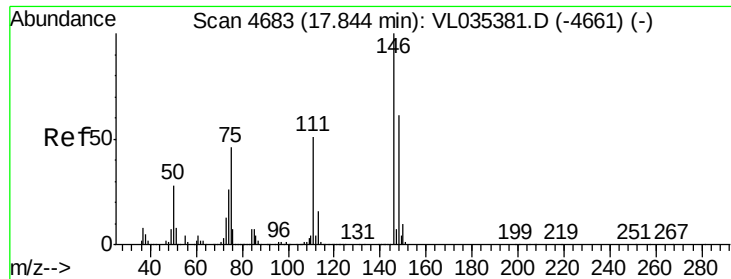
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#76
 1,4-Dichlorobenzene
 Concen: 8.658 ppbv
 RT: 17.17 min Scan# 4472
 Delta R.T. -0.01 min
 Lab File: VL035397.D
 Acq: 13 Aug 2020 7:56

Tgt Ion:146 Resp: 2376707
 Ion Ratio Lower Upper
 146 100
 111 50.4 24.0 72.0
 148 65.3 32.5 97.5





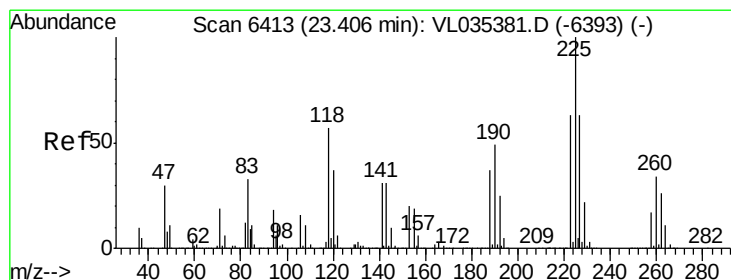
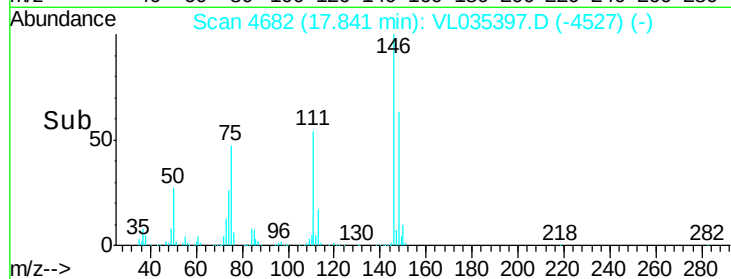
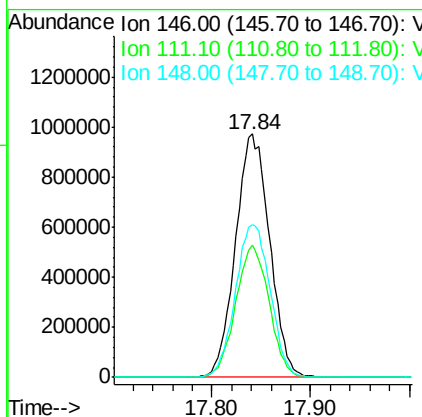
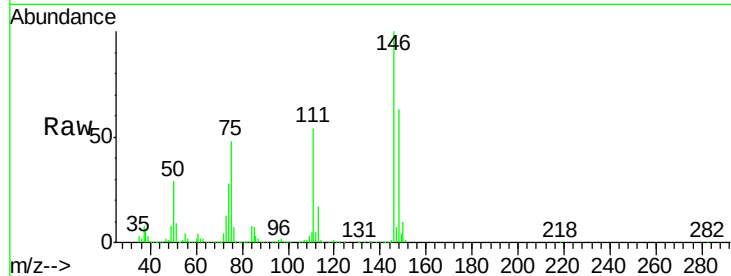
#77
 1,2-Dichlorobenzene
 Concen: 8.665 ppbv
 RT: 17.84 min Scan# 4682
 Delta R.T. -0.00 min
 Lab File: VL035397.D
 Acq: 13 Aug 2020 7:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 2334727
 Ion Ratio Lower Upper
 146 100
 111 53.2 25.9 77.8
 148 64.2 32.1 96.3

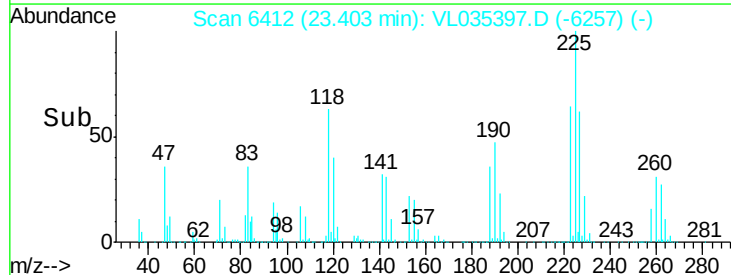
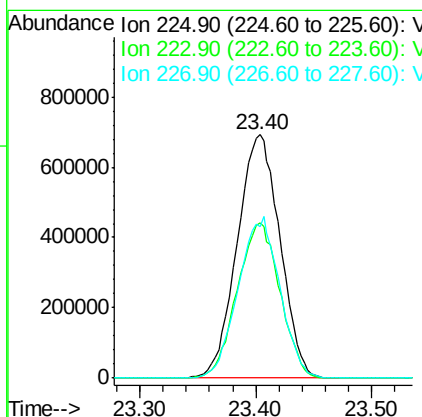
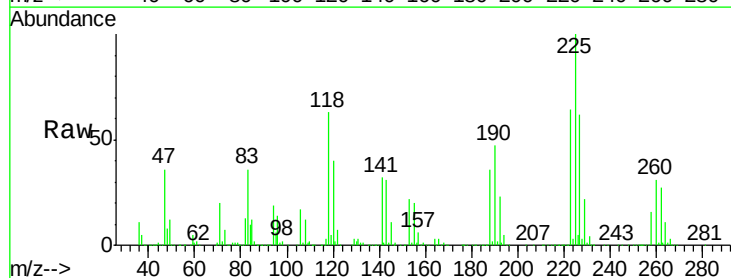
Manual Integrations
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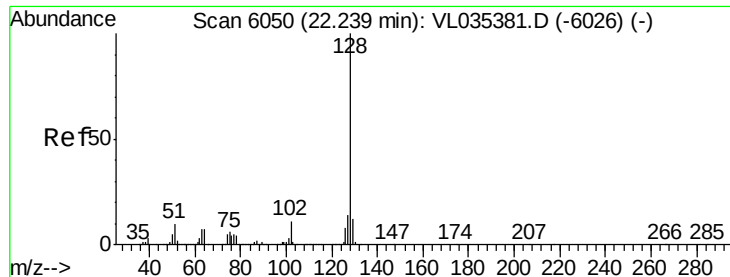
MMDadoda
 8/17/2020 5:44:11 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 7.959 ppbv
 RT: 23.40 min Scan# 6412
 Delta R.T. -0.00 min
 Lab File: VL035397.D
 Acq: 13 Aug 2020 7:56

Tgt Ion:225 Resp: 1768299
 Ion Ratio Lower Upper
 225 100
 223 63.8 51.0 76.6
 227 64.7 51.0 76.6





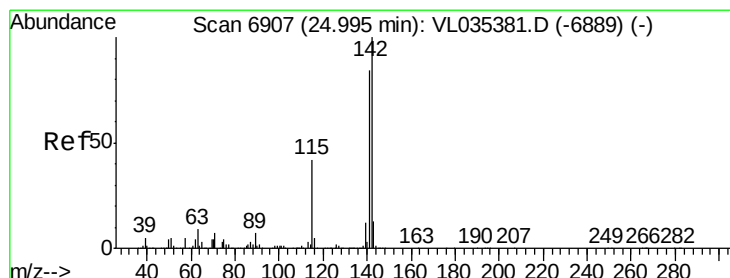
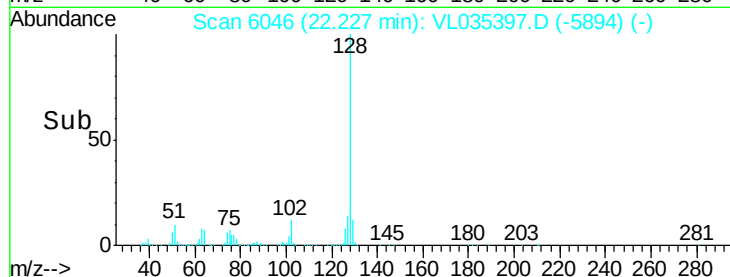
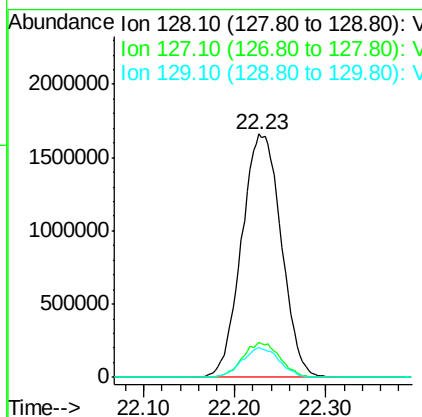
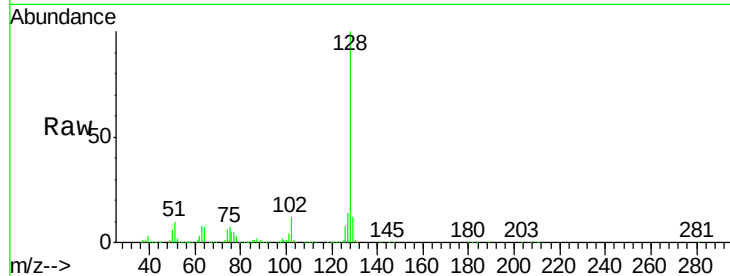
#79
Naphthalene
Concen: 8.213 ppbv
RT: 22.23 min Scan# 6046
Delta R.T. -0.01 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.2	11.0	16.4
129	12.1	9.2	13.8

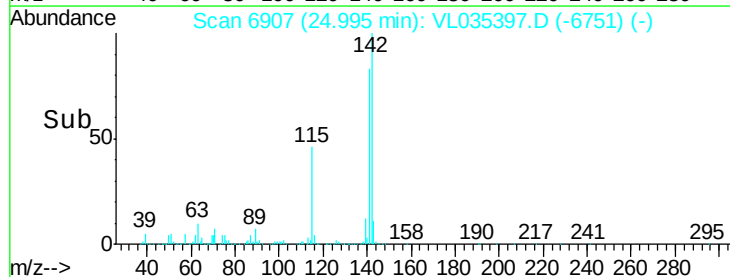
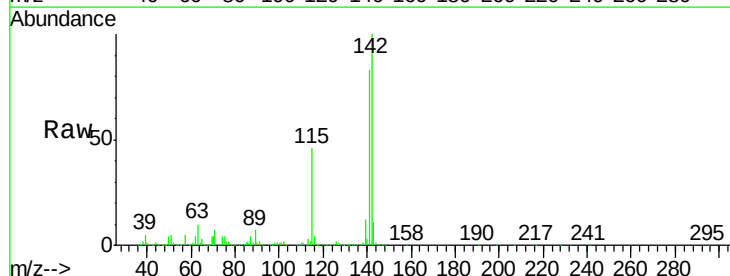
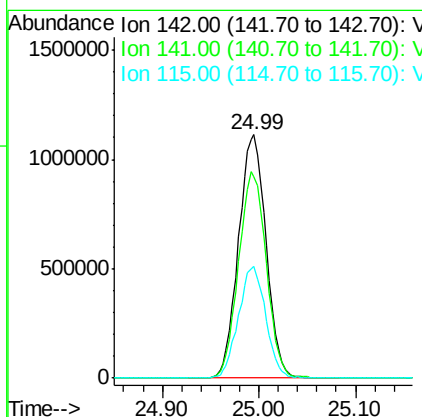
Manual Integrations
APPROVED

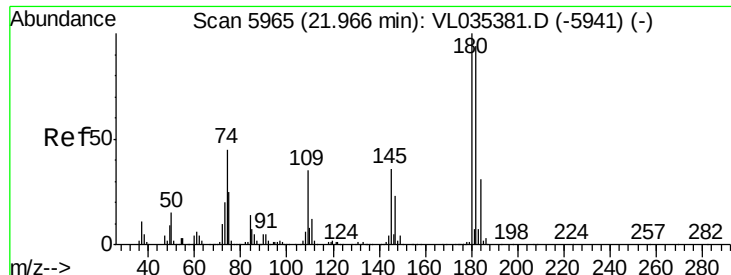
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8/17/2020 5:44:11 PM



#80
Naphthalene, 2-methyl-
Concen: 7.774 ppbv
RT: 24.99 min Scan# 6907
Delta R.T. 0.00 min
Lab File: VL035397.D
Acq: 13 Aug 2020 7:56

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.4	67.7	101.5
115	45.4	34.0	51.0





#81
 1,2,4-Trichlorobenzene
 Concen: 8.181 ppbv
 RT: 21.96 min Scan# 5963
 Delta R.T. -0.01 min
 Lab File: VL035397.D
 Acq: 13 Aug 2020 7:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	77.6	116.4
184	31.0	24.7	37.1

Manual Integrations
 APPROVED

MMDadoda
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