

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101220\
 Data File : VL035780.D
 Acq On : 13 Oct 2020 7:55
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 10/14/2020 2:12:12 PM

Quant Time: Oct 13 12:25:54 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092320AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 2020

QLast Update : Wed Sep 23 07:38:05 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1064490	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4143253	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4154248m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2981876	9.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.05	85	1465235	8.389	ppbv	99
3) Chlorodifluoromethane	2.99	51	1185991	10.356	ppbv	99
4) Chloromethane	3.14	50	643250	10.456	ppbv	99
5) Vinyl Chloride	3.26	62	750233	10.310	ppbv	98
6) Bromomethane	3.47	94	628061	10.211	ppbv	98
7) Chloroethane	3.56	64	285355	10.693	ppbv	99
8) Dichlorotetrafluoroethane	3.19	85	2042374	9.641	ppbv	97
9) Propene	3.01	41	462632	11.126	ppbv	100
10) Heptane	8.14	43	1295042	11.172	ppbv	100
11) Trichlorofluoromethane	3.95	101	2388627	9.585	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1794410	9.659	ppbv	98
13) Ethanol	3.61	45	107232	10.458	ppbv	99
14) Bromoethene	3.74	108	827682	10.577	ppbv	99
15) Acetone	3.85	43	1100226	9.605	ppbv	98
16) 1,3-Butadiene	3.33	39	469296	11.199	ppbv	99
17) tert-Butyl alcohol	4.30	59	1485386	11.905	ppbv	99
18) 1,1-Dichloroethene	4.29	96	844818	10.386	ppbv	96
19) Isopropyl Alcohol	3.97	45	717791	11.520	ppbv #	97
20) Methylene Chloride	4.35	84	720145	8.559	ppbv	98
21) Allyl Chloride	4.42	41	633510	11.410	ppbv	98
22) trans-1,2-Dichloroethene	4.89	96	871145	10.137	ppbv	98
23) Vinyl Acetate	5.08	43	1705092	12.154	ppbv	100
24) 1,1-Dichloroethane	5.02	63	1579856	10.339	ppbv	100
25) Ethyl Acetate	5.69	43	2163789	10.498	ppbv	100
26) Hexane	5.70	57	1190458	10.540	ppbv	98
27) Carbon Disulfide	4.56	76	1899339	11.283	ppbv	100
28) Methyl tert-Butyl Ether	5.04	73	2140211	11.954	ppbv	99
29) Chloroform	5.76	83	2319038	10.111	ppbv	98
30) Cyclohexane	7.14	84	1290014	11.577	ppbv	100
31) cis-1,2-Dichloroethene	5.56	61	1270886	11.657	ppbv	98
32) 1,1,1-Trichloroethane	6.53	97	2267888	11.217	ppbv	100
34) 2-Butanone	5.25	43	1497725	10.929	ppbv	99
35) Carbon Tetrachloride	7.03	117	2292340	10.612	ppbv	100
36) Benzene	6.91	78	3004326	11.128	ppbv	100
37) 1,2-Dichloroethane	6.32	62	1451337	10.314	ppbv	100
38) Trichloroethene	7.85	130	1438270	10.679	ppbv	99
39) 1,2-Dichloropropane	7.63	63	1035981	10.587	ppbv	99
40) 1,4-Dioxane	7.84	88	500368	11.181	ppbv	97
41) Tetrahydrofuran	6.06	42	841380	12.187	ppbv	100
42) Bromodichloromethane	7.81	83	2440314	10.766	ppbv	99
43) Methyl Methacrylate	8.03	69	1267153	11.801	ppbv	100

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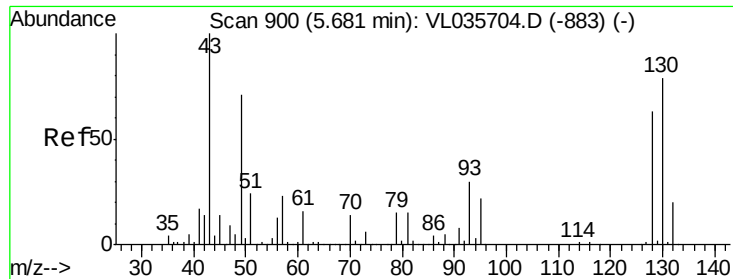
Manual Integrations
 APPROVED

MMDadoda
 10/14/2020 2:12:12 PM

Quant Time: Oct 13 12:25:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	4013480	10.360	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	1438287	13.268	ppbv	99
46) cis-1,3-Dichloropropene	8.72	75	1708853	12.788	ppbv	98
47) 1,1,2-Trichloroethane	9.50	97	1430196	10.204	ppbv	99
48) Dibromochloromethane	10.33	129	2363142	11.078	ppbv	100
49) Bromoform	13.07	173	2107161	11.642	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	2176429	10.873	ppbv	100
51) 2-Hexanone	10.16	43	1855590	11.506	ppbv #	99
52) Tetrachloroethene	11.25	164	1365186	10.515	ppbv	96
53) Toluene	9.83	91	3695462	11.608	ppbv	100
54) 1,2-Dibromoethane	10.64	107	2246936	10.706	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.15	131	1822582	10.463	ppbv	98
57) Chlorobenzene	12.17	112	3067091	9.775	ppbv	99
58) Ethyl Benzene	12.74	91	4819204	11.558	ppbv	99
59) m/p-Xylene	13.02	91	8183008m	22.473	ppbv	
60) o-Xylene	13.73	91	3952376	10.730	ppbv	100
61) Styrene	13.56	104	3175060	12.466	ppbv	99
62) Isopropylbenzene	14.70	105	5991213	10.487	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	2870762	9.504	ppbv	100
64) n-propylbenzene	15.60	120	1832329	10.958	ppbv	98
65) tert-Butylbenzene	16.78	119	5500295	10.589	ppbv	99
66) Benzyl Chloride	17.02	91	2245666	14.269	ppbv	99
67) sec-Butylbenzene	17.33	105	7453567	10.391	ppbv	99
69) p-Isopropyltoluene	17.69	119	6326222	10.840	ppbv	99
70) n-Butylbenzene	18.59	91	6367076	10.595	ppbv	99
71) 2-Chlorotoluene	15.48	91	4633742	11.119	ppbv	100
72) 4-Ethyltoluene	15.87	105	4935479	11.311	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	4551083	11.037	ppbv	97
74) 1,2,4-Trimethylbenzene	16.80	105	4750044	10.219	ppbv	96
75) 1,3-Dichlorobenzene	17.03	146	3159668	9.956	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	3205971	10.569	ppbv	100
77) 1,2-Dichlorobenzene	17.85	146	3098688	10.338	ppbv	100
78) Hexachloro-1,3-Butadiene	23.42	225	1716573	10.380	ppbv	100
79) Naphthalene	22.25	128	5095675	11.494	ppbv	99
80) Naphthalene,2-methyl-	25.00	142	1676509	16.032	ppbv	99
81) 1,2,4-Trichlorobenzene	21.98	180	2561852	11.150	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 49 Resp: 1064490

Ion Ratio Lower Upper

49 100

128 82.8 43.1 129.4

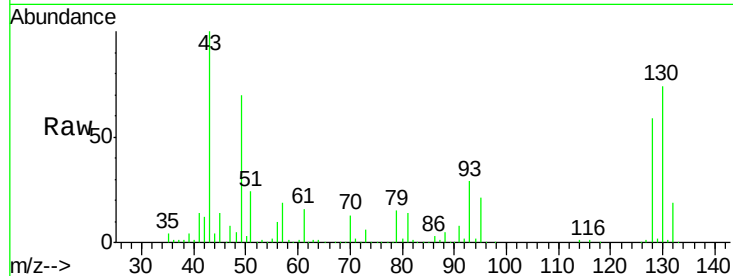
130 106.7 54.9 164.7

Manual Integrations

APPROVED

MMDadoda

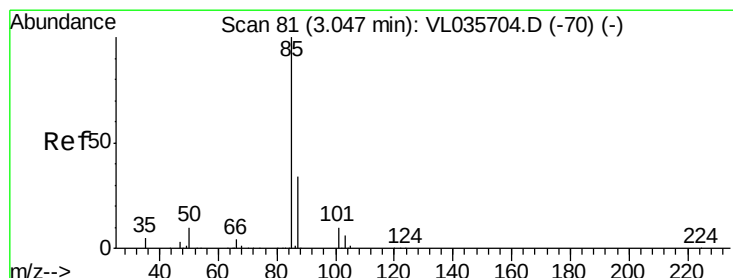
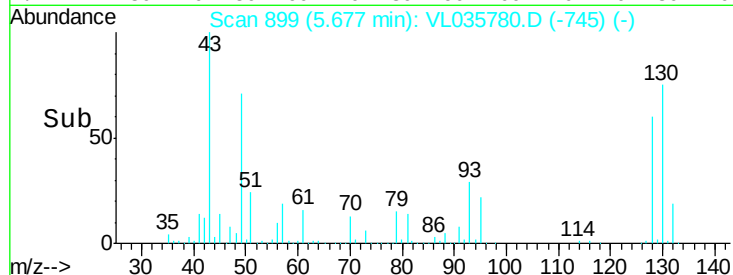
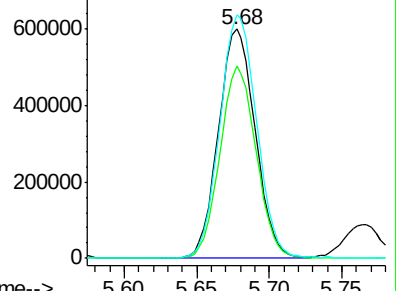
10/14/2020 2:12:12 PM



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: 8.389 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL035780.D

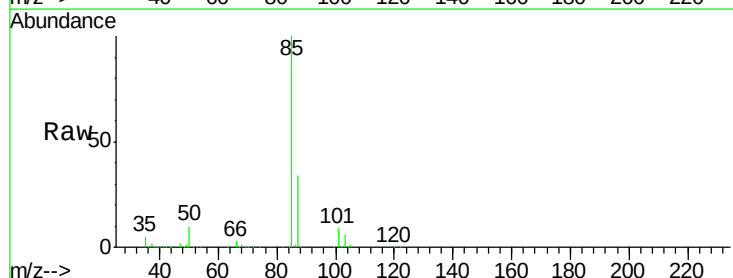
Acq: 13 Oct 2020 7:55

Tgt Ion: 85 Resp: 1465235

Ion Ratio Lower Upper

85 100

87 33.8 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Ion 89.00 (88.70 to 89.70): VL0

Ion 91.00 (90.70 to 91.70): VL0

Ion 93.00 (92.70 to 93.70): VL0

Ion 95.00 (94.70 to 95.70): VL0

Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 101.00 (100.70 to 101.70): VL0

Ion 103.00 (102.70 to 103.70): VL0

Ion 105.00 (104.70 to 105.70): VL0

Ion 107.00 (106.70 to 107.70): VL0

Ion 109.00 (108.70 to 109.70): VL0

Ion 111.00 (110.70 to 111.70): VL0

Ion 113.00 (112.70 to 113.70): VL0

Ion 115.00 (114.70 to 115.70): VL0

Ion 117.00 (116.70 to 117.70): VL0

Ion 119.00 (118.70 to 119.70): VL0

Ion 121.00 (120.70 to 121.70): VL0

Ion 123.00 (122.70 to 123.70): VL0

Ion 125.00 (124.70 to 125.70): VL0

Ion 127.00 (126.70 to 127.70): VL0

Ion 129.00 (128.70 to 129.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 133.00 (132.70 to 133.70): VL0

Ion 135.00 (134.70 to 135.70): VL0

Ion 137.00 (136.70 to 137.70): VL0

Ion 139.00 (138.70 to 139.70): VL0

Ion 141.00 (140.70 to 141.70): VL0

Ion 143.00 (142.70 to 143.70): VL0

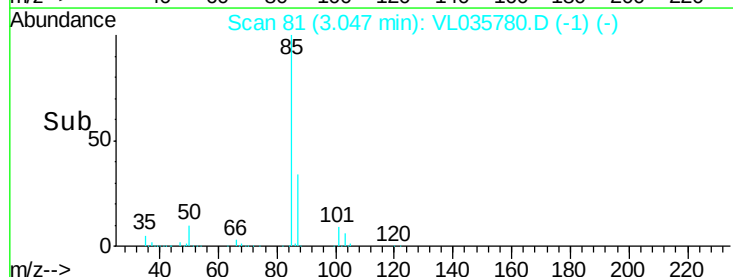
Ion 145.00 (144.70 to 145.70): VL0

Ion 147.00 (146.70 to 147.70): VL0

Ion 149.00 (148.70 to 149.70): VL0

Ion 151.00 (150.70 to 151.70): VL0

Ion 153.00 (152.70 to 153.70): VL0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Ion 89.00 (88.70 to 89.70): VL0

Ion 91.00 (90.70 to 91.70): VL0

Ion 93.00 (92.70 to 93.70): VL0

Ion 95.00 (94.70 to 95.70): VL0

Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 101.00 (100.70 to 101.70): VL0

Ion 103.00 (102.70 to 103.70): VL0

Ion 105.00 (104.70 to 105.70): VL0

Ion 107.00 (106.70 to 107.70): VL0

Ion 109.00 (108.70 to 109.70): VL0

Ion 111.00 (110.70 to 111.70): VL0

Ion 113.00 (112.70 to 113.70): VL0

Ion 115.00 (114.70 to 115.70): VL0

Ion 117.00 (116.70 to 117.70): VL0

Ion 119.00 (118.70 to 119.70): VL0

Ion 121.00 (120.70 to 121.70): VL0

Ion 123.00 (122.70 to 123.70): VL0

Ion 125.00 (124.70 to 125.70): VL0

Ion 127.00 (126.70 to 127.70): VL0

Ion 129.00 (128.70 to 129.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 133.00 (132.70 to 133.70): VL0

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Ion 137.00 (136.70 to 137.70): VL0

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Ion 143.00 (142.70 to 143.70): VL0

Ion 145.00 (144.70 to 145.70): VL0

Ion 147.00 (146.70 to 147.70): VL0

Ion 149.00 (148.70 to 149.70): VL0

Ion 151.00 (150.70 to 151.70): VL0

Ion 153.00 (152.70 to 153.70): VL0

Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Ion 89.00 (88.70 to 89.70): VL0

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Ion 133.00 (132.70 to 133.70): VL0

Ion 135.00 (134.70 to 135.70): VL0

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Ion 147.00 (146.70 to 147.70): VL0

Ion 149.00 (148.70 to 149.70): VL0

Ion 151.00 (150.70 to 151.70): VL0

Ion 153.00 (152.70 to 153.70): VL0

Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Ion 89.00 (88.70 to 89.70): VL0

Ion 91.00 (90.70 to 91.70): VL0

Ion 93.00 (92.70 to 93.70): VL0

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Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 101.00 (100.70 to 101.70): VL0

Ion 103.00 (102.70 to 103.70): VL0

Ion 105.00 (104.70 to 105.70): VL0

Ion 107.00 (106.70 to 107.70): VL0

Ion 109.00 (108.70 to 109.70): VL0

Ion 111.00 (110.70 to 111.70): VL0

Ion 113.00 (112.70 to 113.70): VL0

Ion 115.00 (114.70 to 115.70): VL0

Ion 117.00 (116.70 to 117.70): VL0

Ion 119.00 (118.70 to 119.70): VL0

Ion 121.00 (120.70 to 121.70): VL0

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Ion 127.00 (126.70 to 127.70): VL0

Ion 129.00 (128.70 to 129.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 133.00 (132.70 to 133.70): VL0

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Ion 147.00 (146.70 to 147.70): VL0

Ion 149.00 (148.70 to 149.70): VL0

Ion 151.00 (150.70 to 151.70): VL0

Ion 153.00 (152.70 to 153.70): VL0

Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Ion 89.00 (88.70 to 89.70): VL0

Ion 91.00 (90.70 to 91.70): VL0

Ion 93.00 (92.70 to 93.70): VL0

Ion 95.00 (94.70 to 95.70): VL0

Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 101.00 (100.70 to 101.70): VL0

Ion 103.00 (102.70 to 103.70): VL0

Ion 105.00 (104.70 to 105.70): VL0

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Ion 115.00 (114.70 to 115.70): VL0

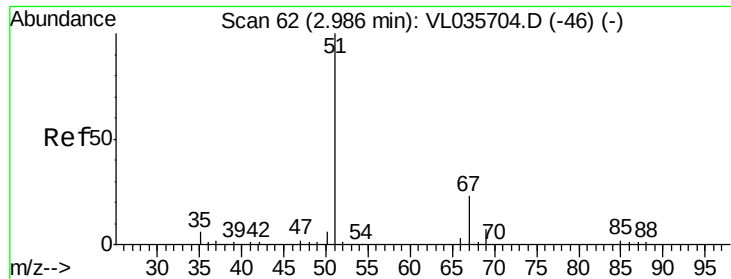
Ion 117.00 (116.70 to 117.70): VL0

Ion 119.00 (118.70 to 119.70): VL0

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Ion 123.00 (122.70 to 123.70): VL0

Ion 125.00 (12



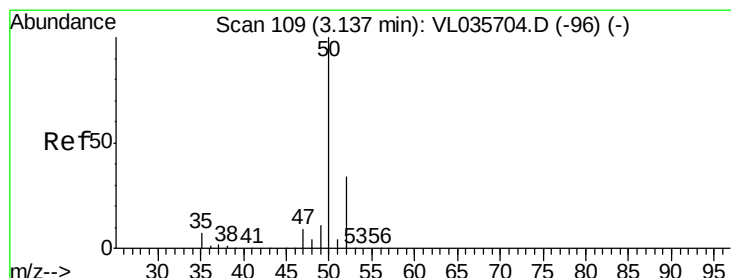
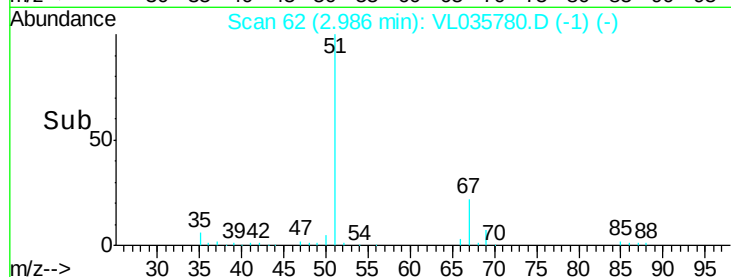
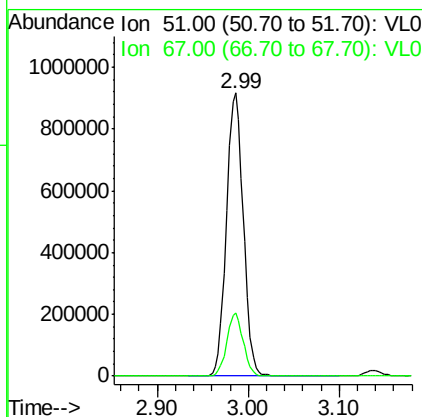
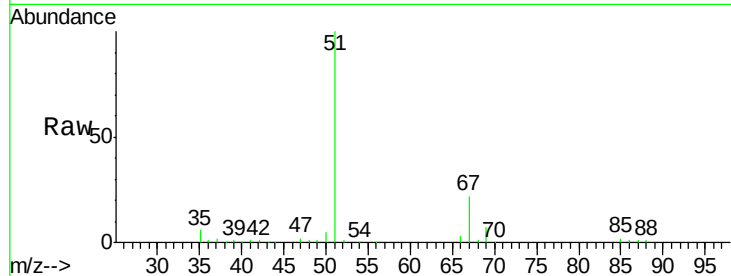
#3
Chlorodifluoromethane
Concen: 10.356 ppbv
RT: 2.99 min Scan# 62
Delta R.T. -0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 51 Resp: 1185991
Ion Ratio Lower Upper
51 100
67 21.8 17.8 26.8

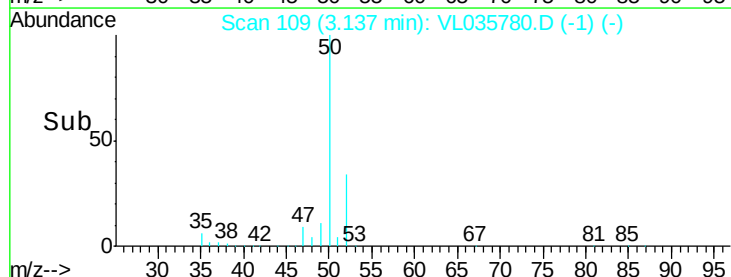
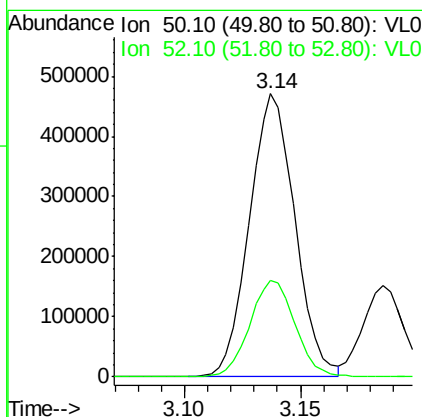
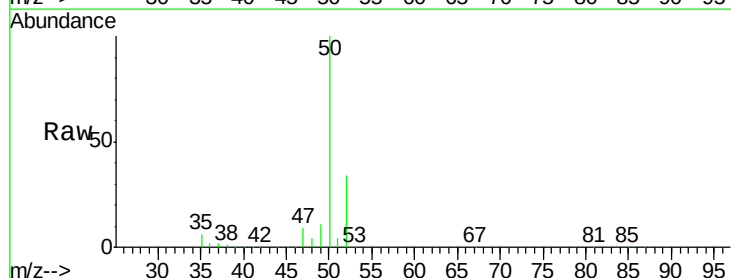
Manual Integrations
APPROVED

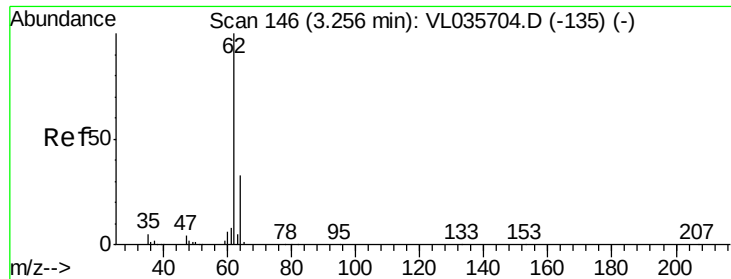
MMDadoda
10/14/2020 2:12:12 PM



#4
Chloromethane
Concen: 10.456 ppbv
RT: 3.14 min Scan# 109
Delta R.T. -0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Tgt Ion: 50 Resp: 643250
Ion Ratio Lower Upper
50 100
52 34.0 26.8 40.2





#5

Vinyl Chloride

Concen: 10.310 ppbv

RT: 3.26 min Scan# 146

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 62 Resp: 750233

Ion Ratio Lower Upper

62 100

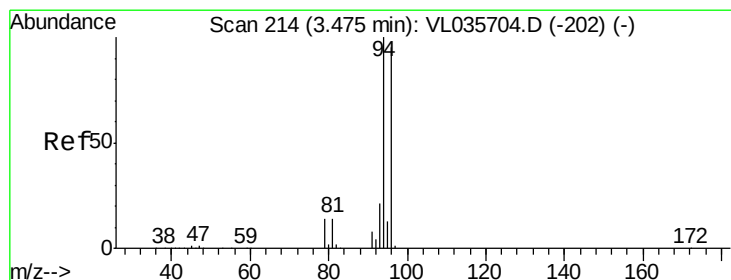
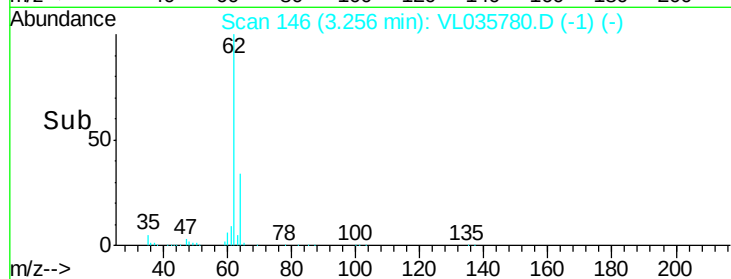
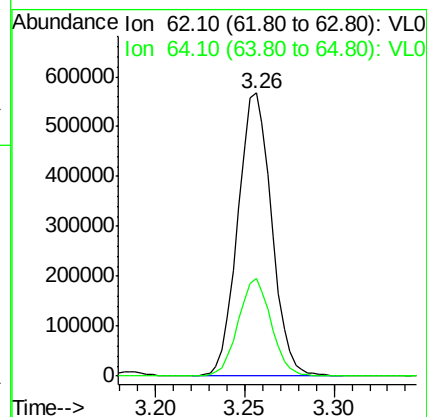
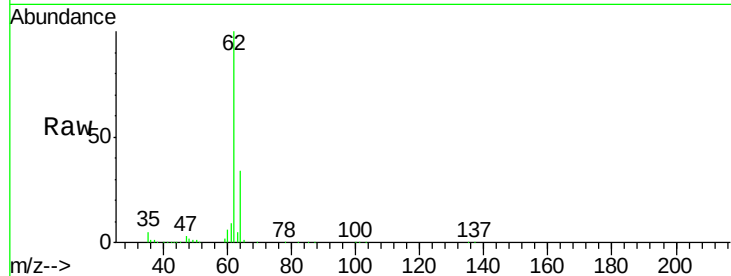
64 34.4 26.8 40.2

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#6

Bromomethane

Concen: 10.211 ppbv

RT: 3.47 min Scan# 213

Delta R.T. -0.00 min

Lab File: VL035780.D

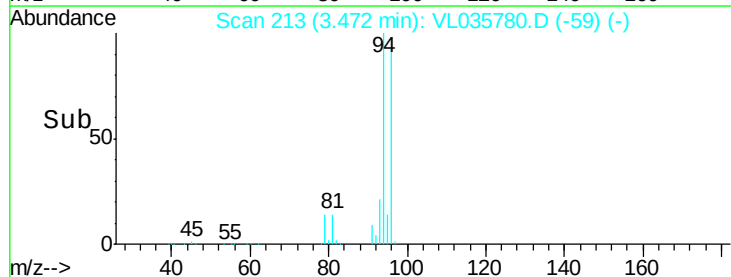
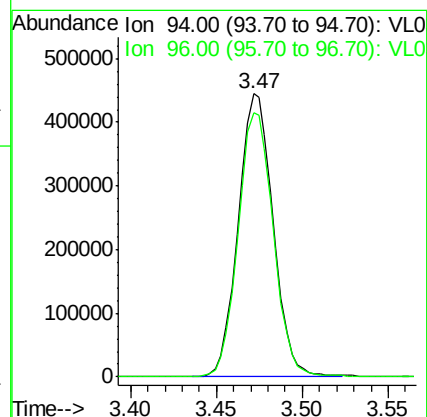
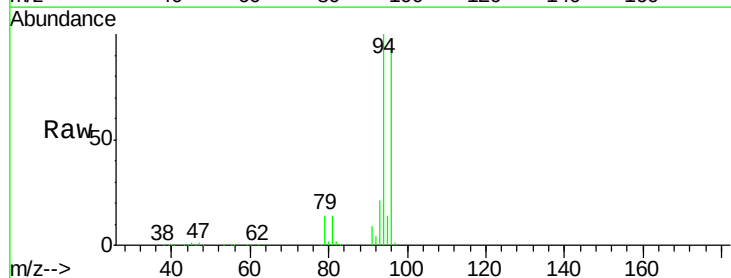
Acq: 13 Oct 2020 7:55

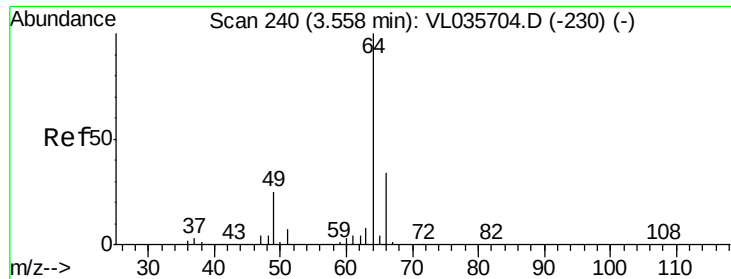
Tgt Ion: 94 Resp: 628061

Ion Ratio Lower Upper

94 100

96 93.3 76.3 114.5





#7

Chloroethane

Concen: 10.693 ppbv

RT: 3.56 min Scan# 240

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 64 Resp: 285355

Ion Ratio Lower Upper

64 100

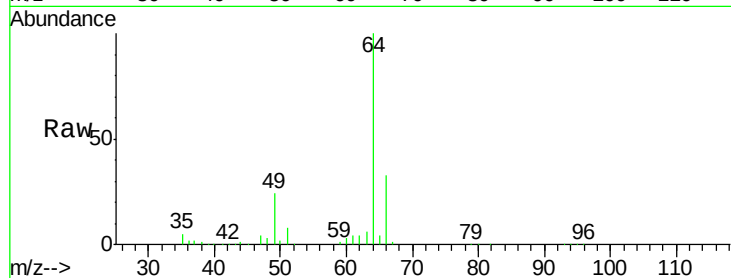
66 33.1 26.9 40.3

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

250000

200000

150000

100000

50000

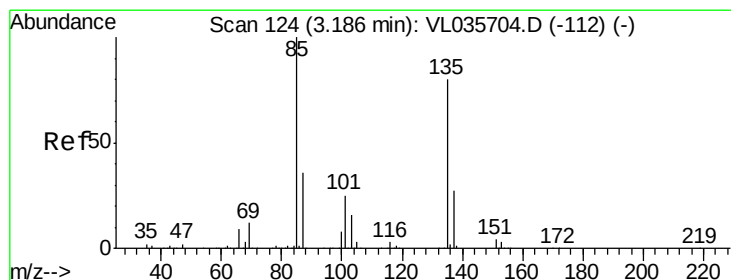
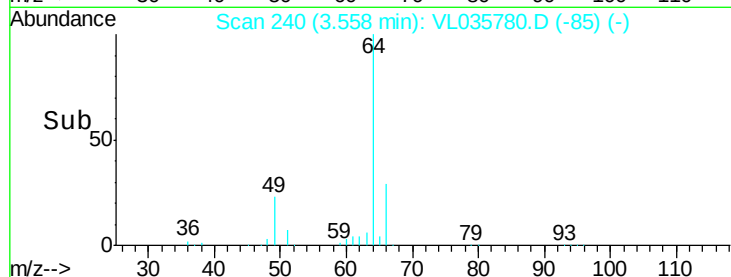
0

3.50

3.55

3.60

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.641 ppbv

RT: 3.19 min Scan# 124

Delta R.T. -0.00 min

Lab File: VL035780.D

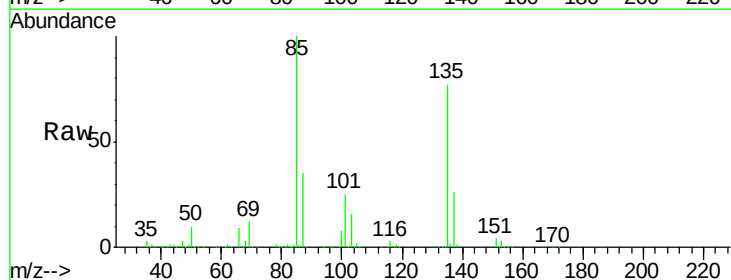
Acq: 13 Oct 2020 7:55

Tgt Ion: 85 Resp: 2042374

Ion Ratio Lower Upper

85 100

135 78.1 64.3 96.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1500000

1000000

500000

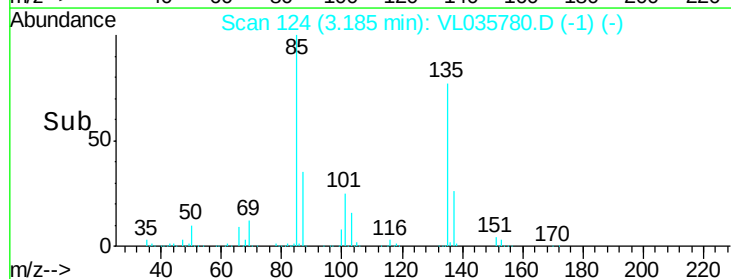
0

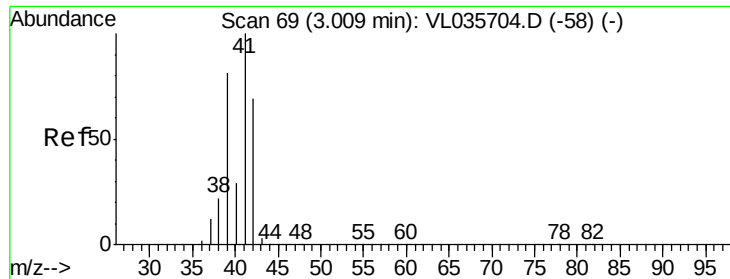
3.15

3.20

3.25

Time-->





#9

Propene

Concen: 11.126 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 41 Resp: 462632

Ion Ratio Lower Upper

41 100

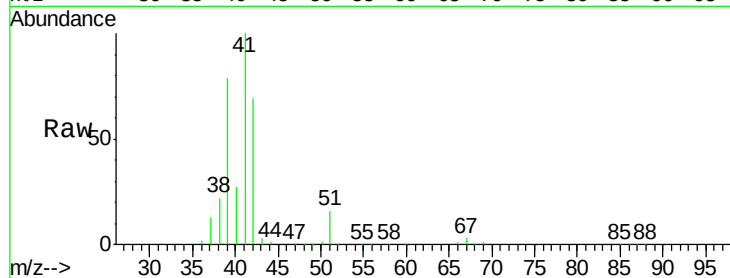
42 70.6 56.2 84.4

Manual Integrations

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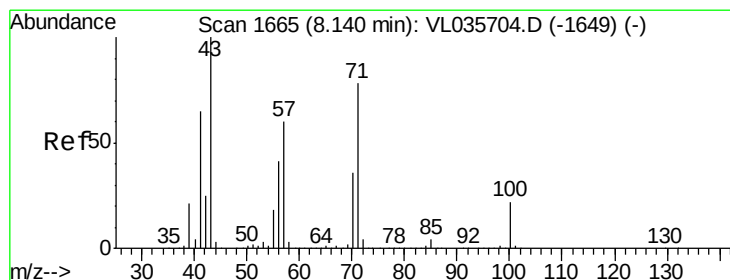
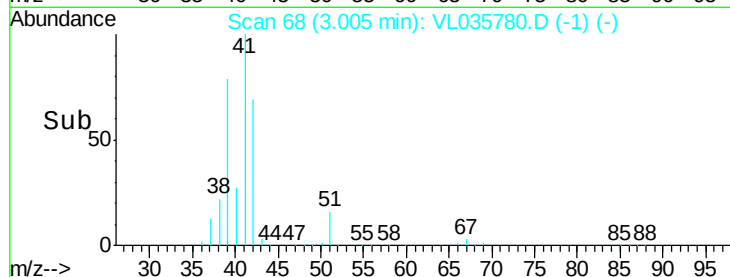
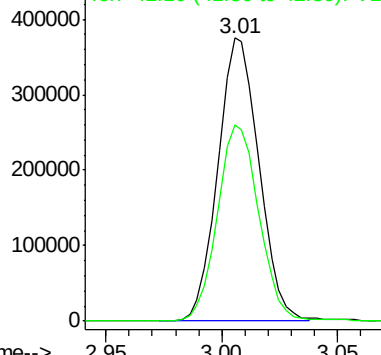
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 11.172 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. -0.00 min

Lab File: VL035780.D

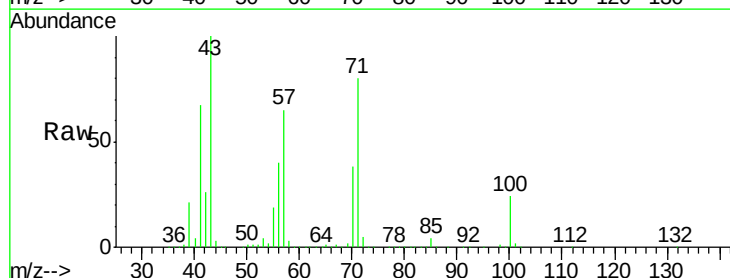
Acq: 13 Oct 2020 7:55

Tgt Ion: 43 Resp: 1295042

Ion Ratio Lower Upper

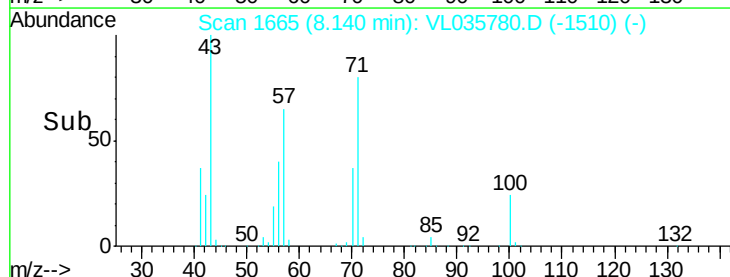
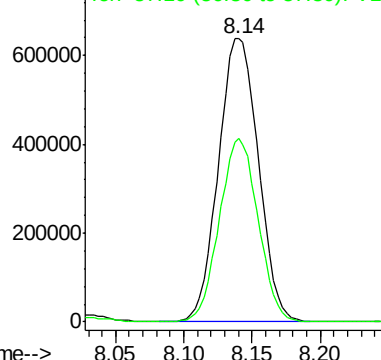
43 100

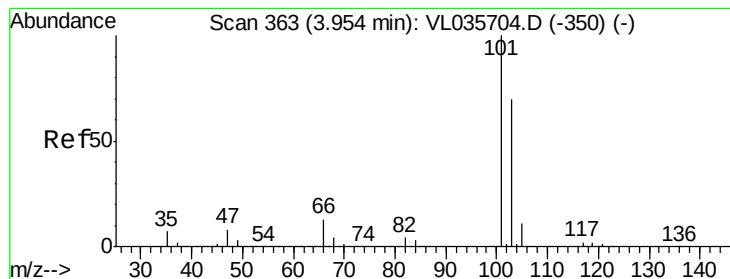
57 63.1 50.4 75.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 9.585 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion:101 Resp: 2388627

Ion Ratio Lower Upper

101 100

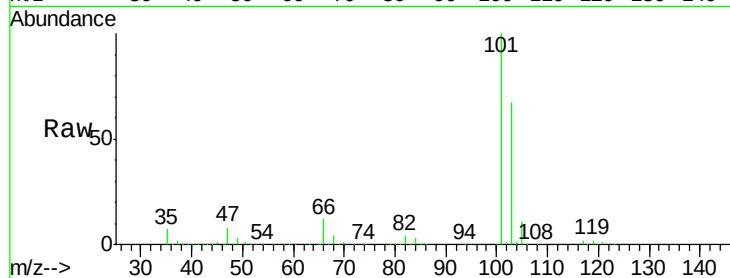
103 66.6 55.6 83.4

Manual Integrations

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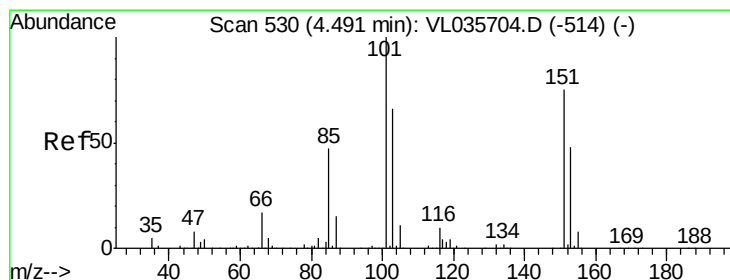
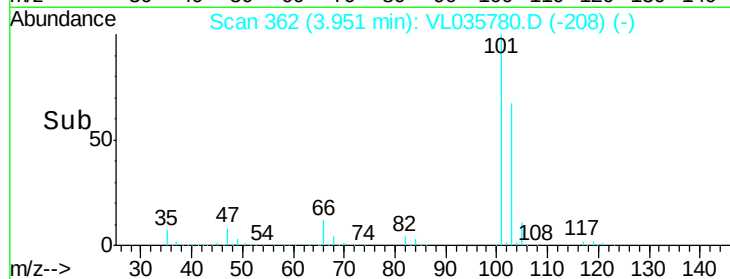
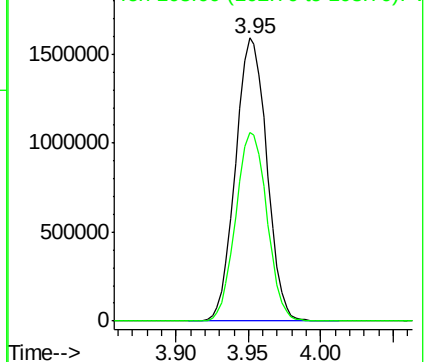
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.659 ppbv

RT: 4.49 min Scan# 530

Delta R.T. -0.00 min

Lab File: VL035780.D

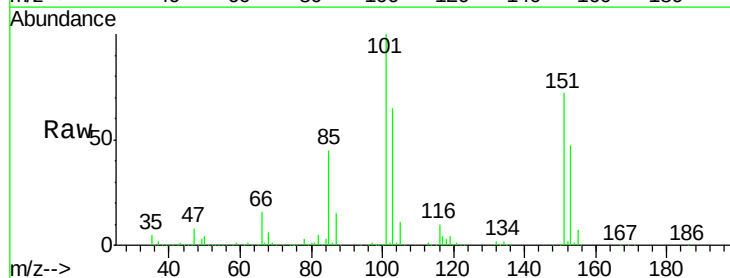
Acq: 13 Oct 2020 7:55

Tgt Ion:101 Resp: 1794410

Ion Ratio Lower Upper

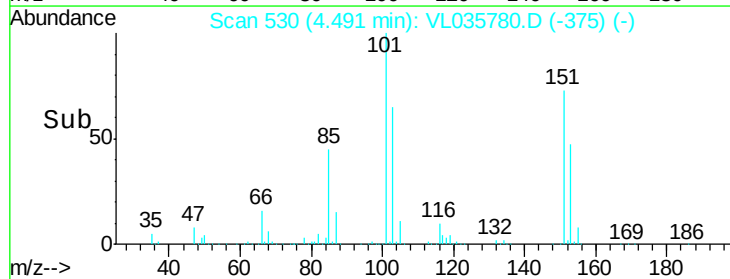
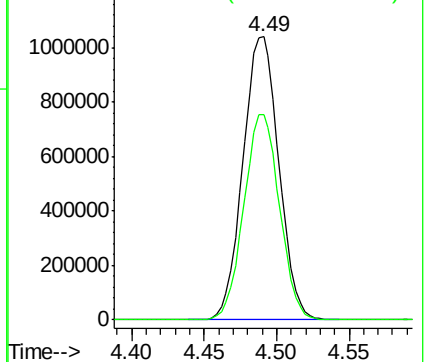
101 100

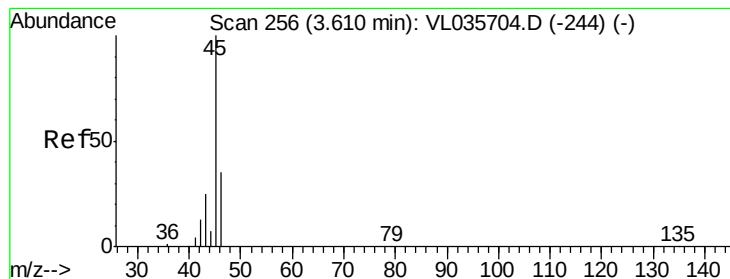
151 72.3 59.1 88.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 10.458 ppbv

RT: 3.61 min Scan# 256

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 45 Resp: 107232

Ion Ratio Lower Upper

45 100

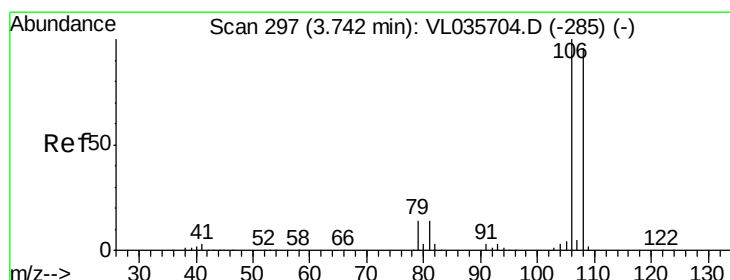
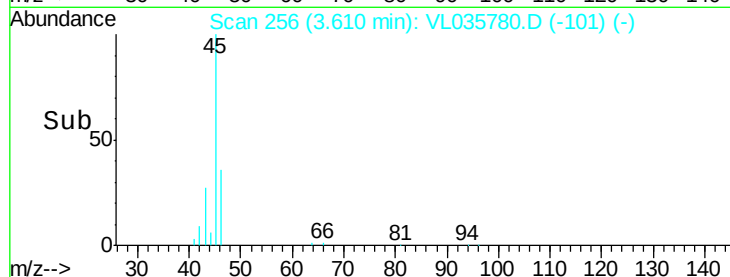
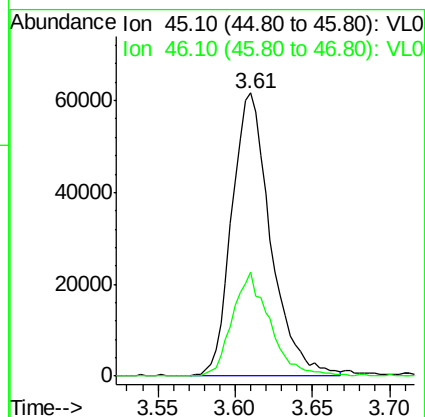
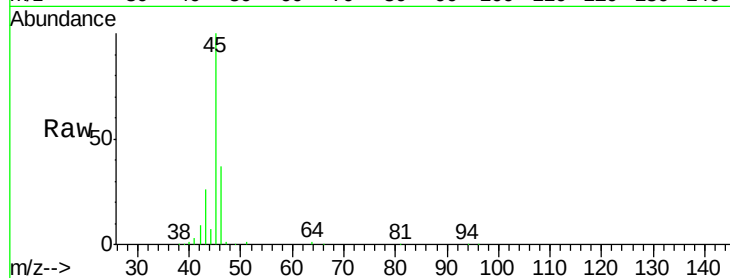
46 36.1 14.7 58.7

Manual Integrations

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#14

Bromoethene

Concen: 10.577 ppbv

RT: 3.74 min Scan# 296

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

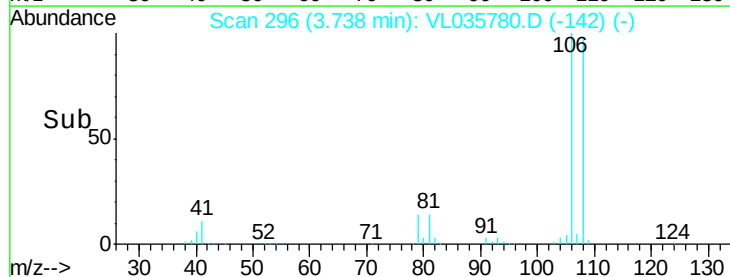
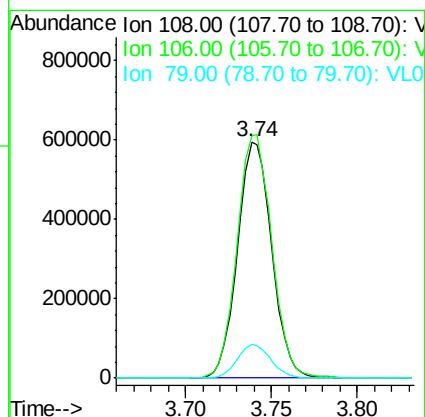
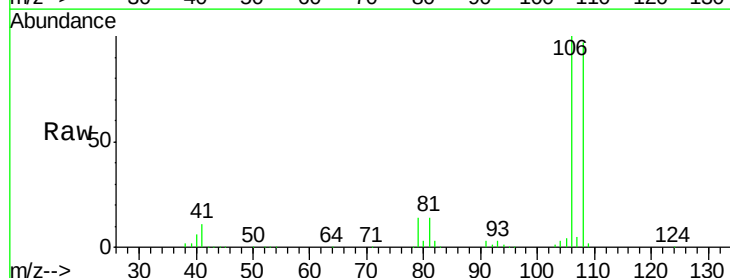
Tgt Ion: 108 Resp: 827682

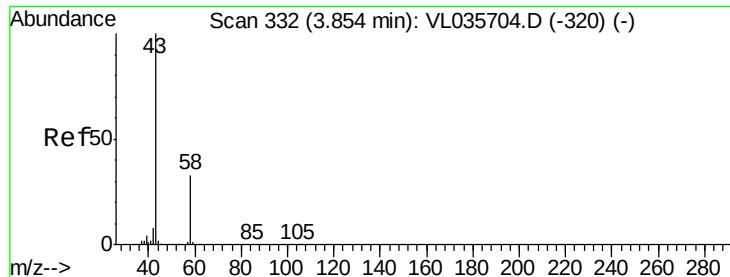
Ion Ratio Lower Upper

108 100

106 105.1 84.6 126.8

79 14.2 11.6 17.4





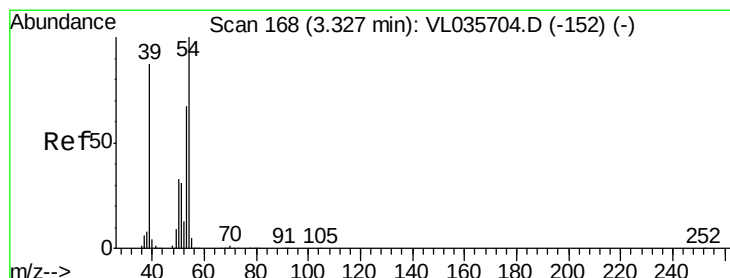
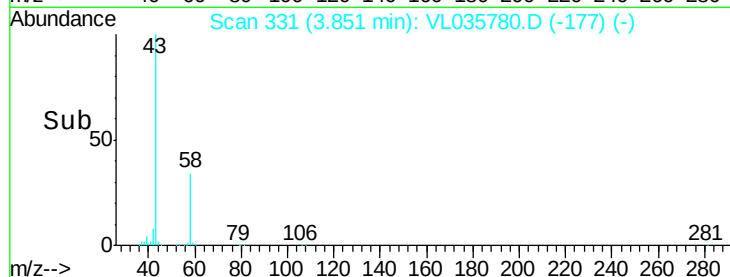
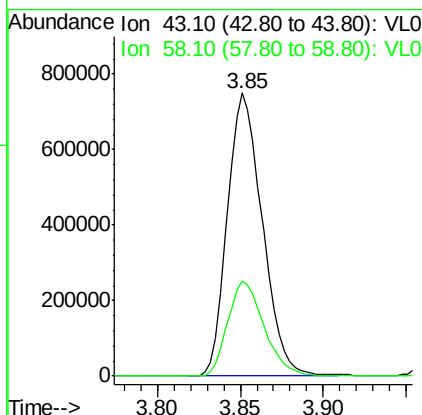
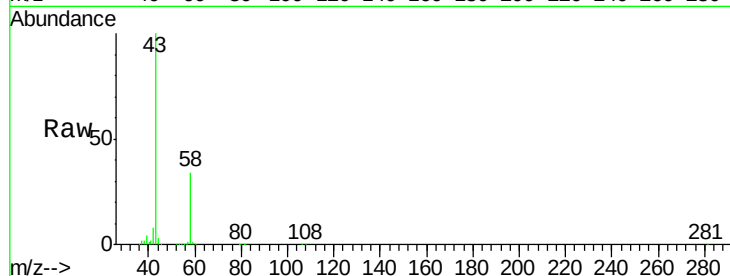
#15
Acetone
Concen: 9.605 ppbv
RT: 3.85 min Scan# 331
Delta R.T. -0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 43 Resp: 1100226
Ion Ratio Lower Upper
43 100
58 35.0 27.3 40.9

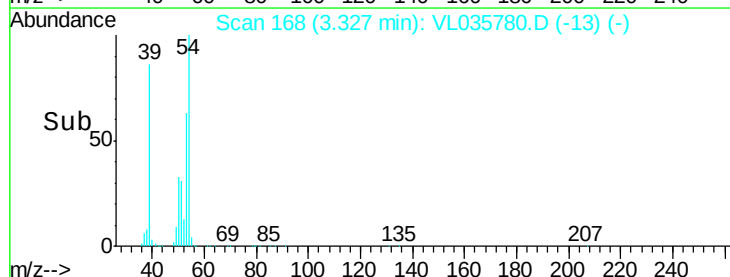
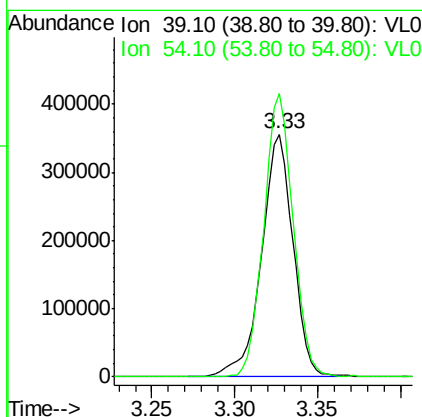
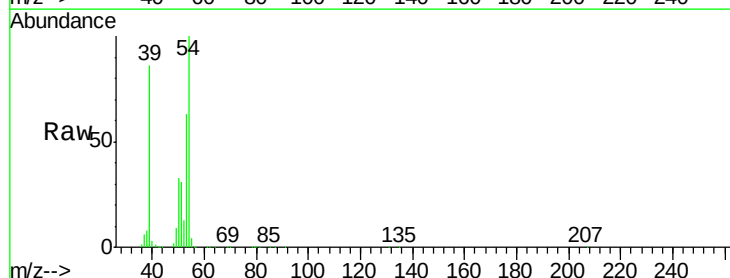
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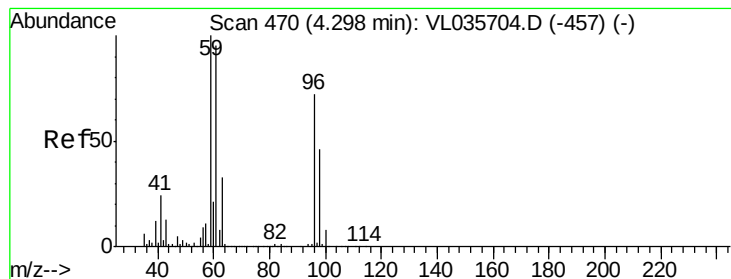
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#16
1,3-Butadiene
Concen: 11.199 ppbv
RT: 3.33 min Scan# 168
Delta R.T. -0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Tgt Ion: 39 Resp: 469296
Ion Ratio Lower Upper
39 100
54 109.9 87.4 131.0





#17

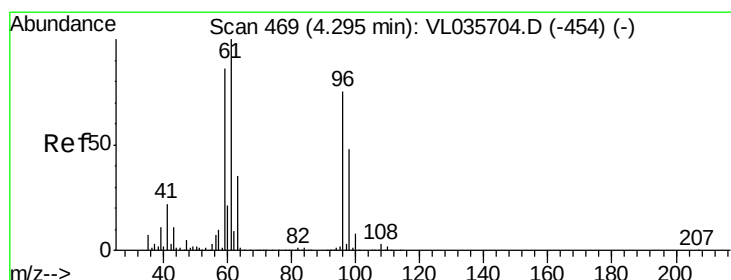
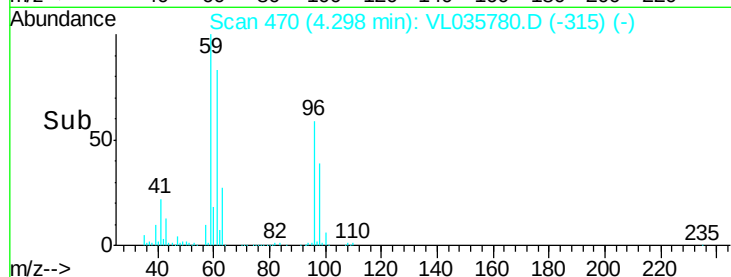
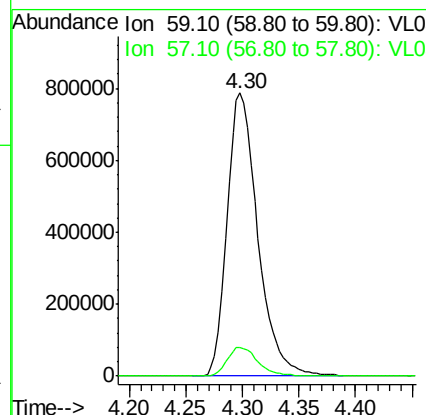
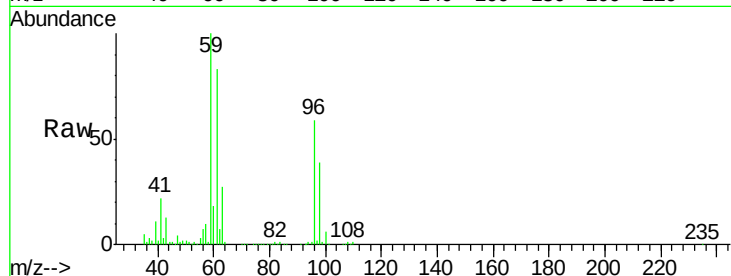
tert-Butyl alcohol
 Concen: 11.905 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. -0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 59 Resp: 1485386
 Ion Ratio Lower Upper
 59 100
 57 10.3 8.5 12.7

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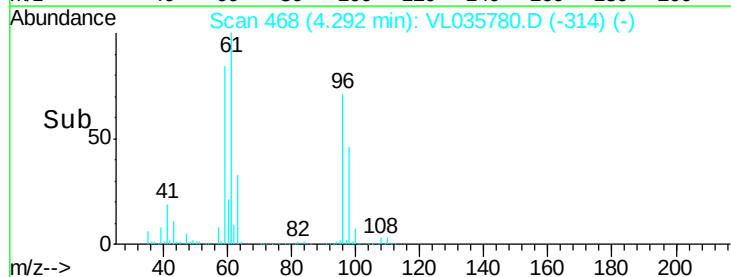
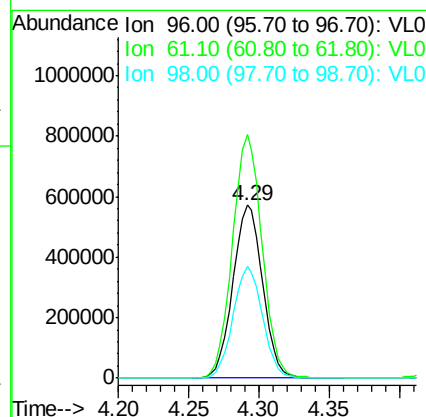
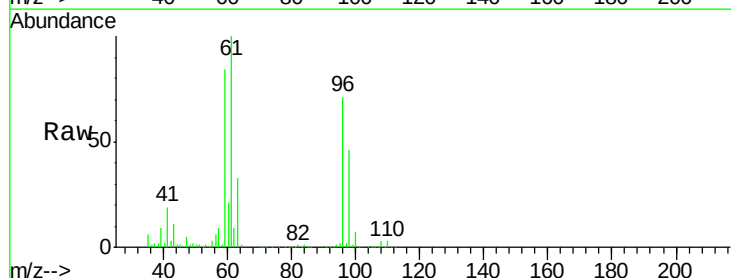
MMDadoda
 10/14/2020 2:12:12 PM

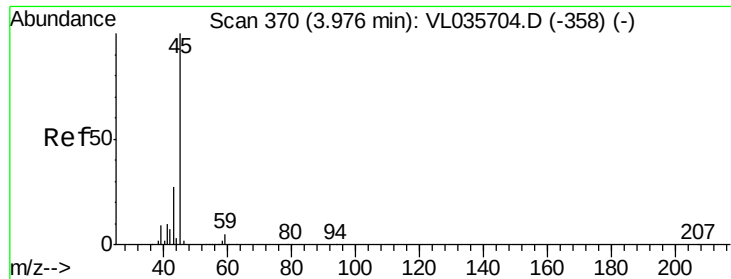


#18

1,1-Dichloroethene
 Concen: 10.386 ppbv
 RT: 4.29 min Scan# 468
 Delta R.T. -0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Tgt Ion: 96 Resp: 844818
 Ion Ratio Lower Upper
 96 100
 61 140.6 106.7 160.1
 98 64.2 50.8 76.2





#19

Isopropyl Alcohol

Concen: 11.520 ppbv

RT: 3.97 min Scan# 369

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

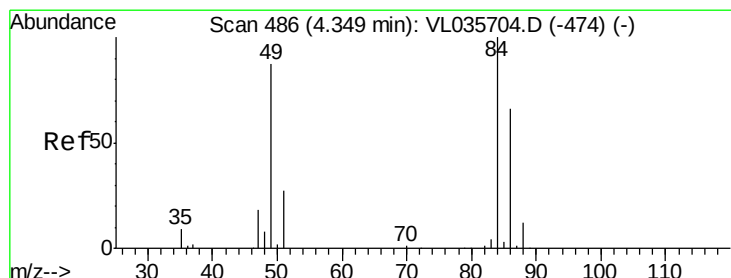
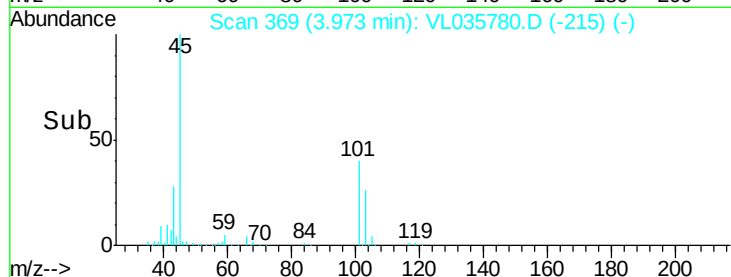
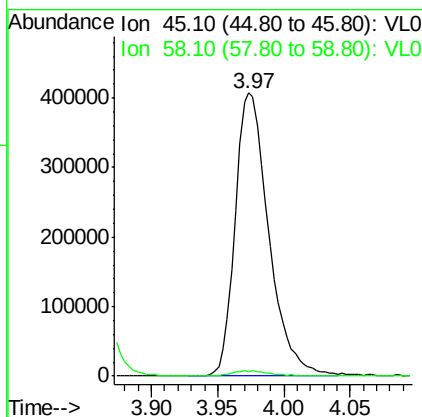
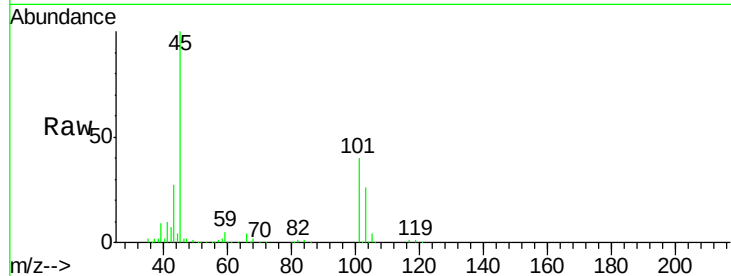
Tgt Ion: 45 Resp: 717791
Ion Ratio Lower Upper

45 100

58 2.6 2.8 4.2#

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#20

Methylene Chloride

Concen: 8.559 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

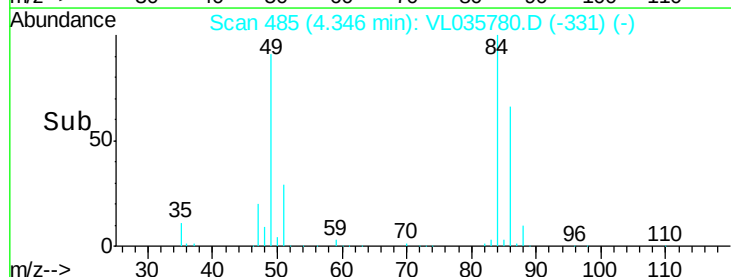
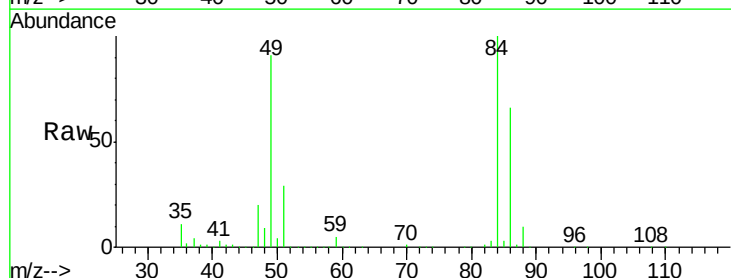
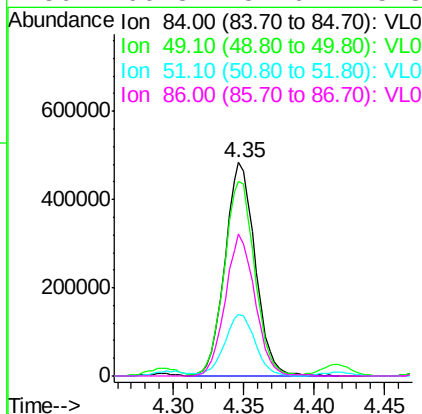
Tgt Ion: 84 Resp: 720145
Ion Ratio Lower Upper

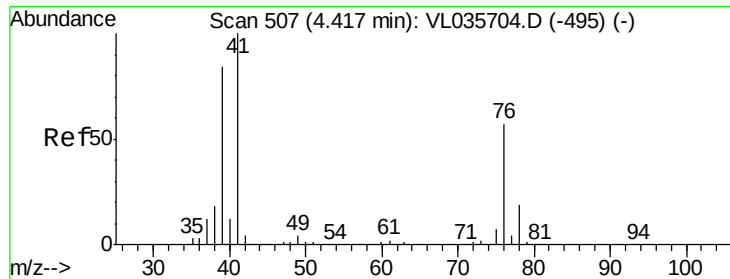
84 100

49 90.3 69.8 104.6

51 27.7 21.8 32.8

86 66.3 52.6 78.8





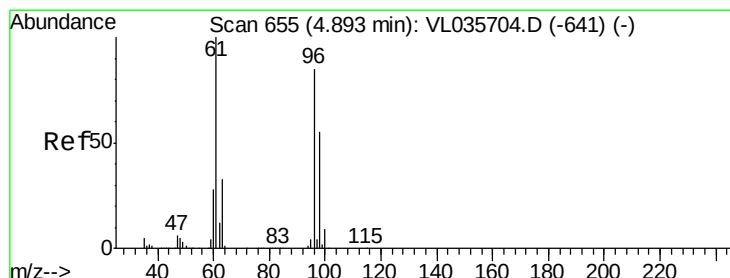
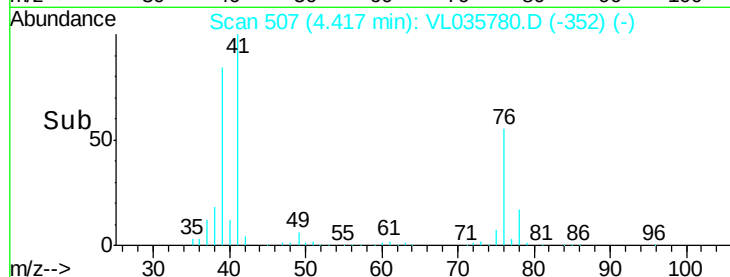
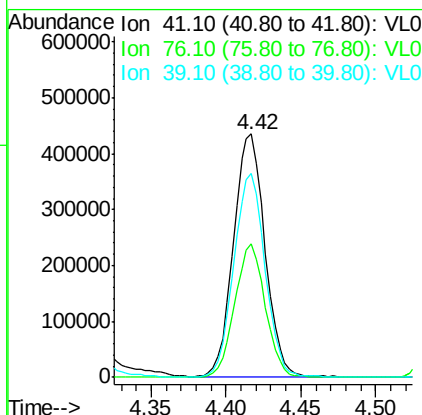
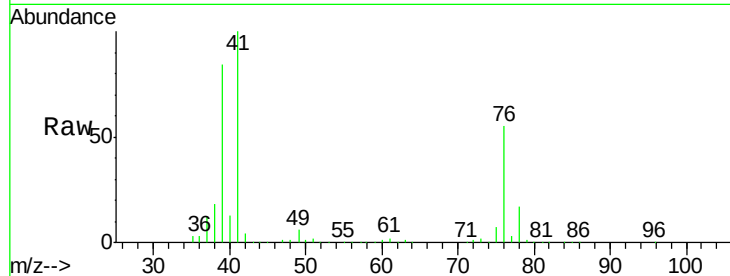
#21
 Allyl Chloride
 Concen: 11.410 ppbv
 RT: 4.42 min Scan# 507
 Delta R.T. -0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
41	100		
76	53.6	44.8	67.2
39	84.0	68.4	102.6

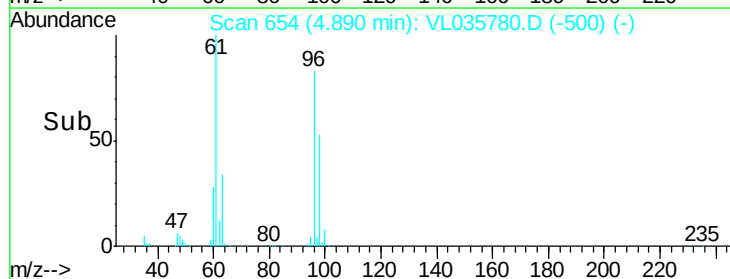
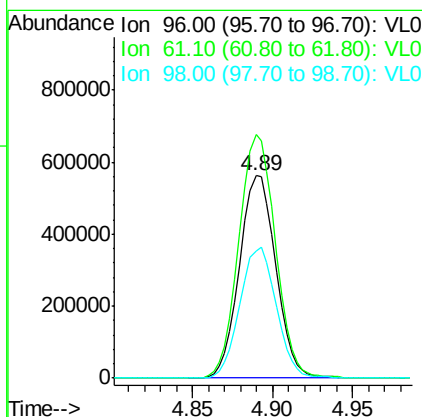
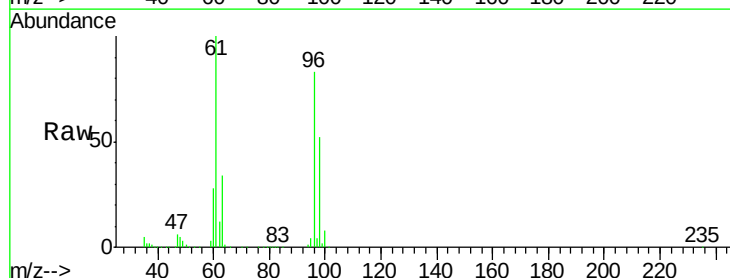
Manual Integrations
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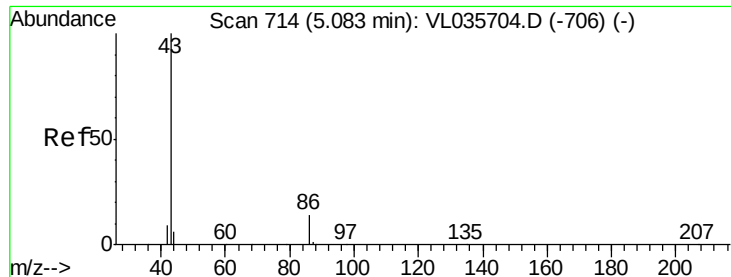
MMDadoda
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#22
 trans-1,2-Dichloroethene
 Concen: 10.137 ppbv
 RT: 4.89 min Scan# 654
 Delta R.T. -0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Tgt Ion	Ratio	Lower	Upper
96	100		
61	120.4	93.7	140.5
98	63.1	51.2	76.8





#23

Vinyl Acetate

Concen: 12.154 ppbv

RT: 5.08 min Scan# 714

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 1705092

Ion Ratio Lower Upper

43 100

86 12.1 9.7 14.5

42 9.8 7.9 11.9

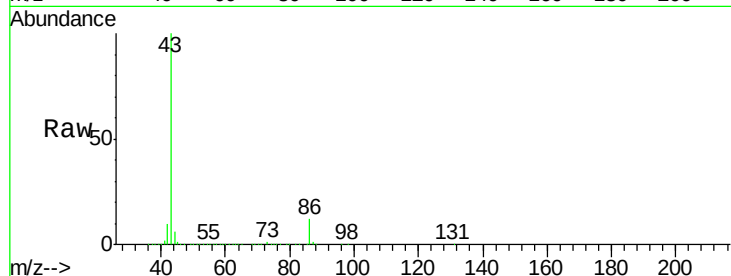
44 5.6 4.8 7.2

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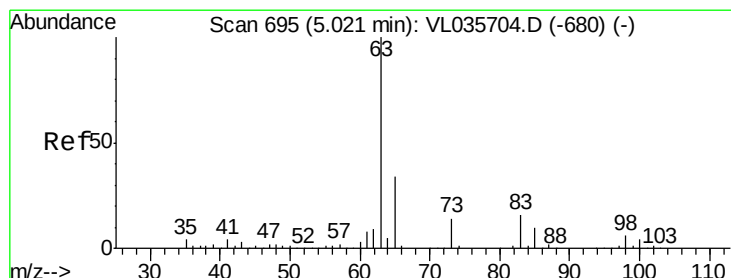
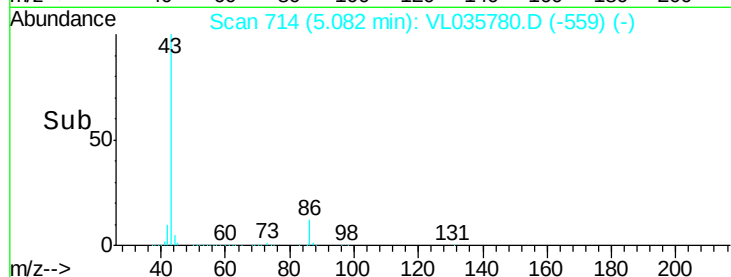
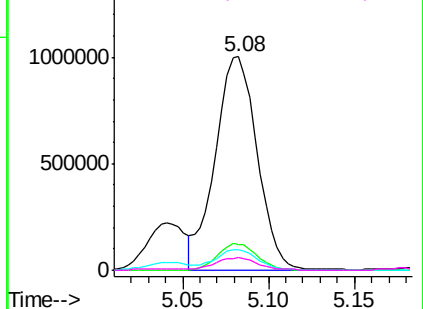


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.339 ppbv

RT: 5.02 min Scan# 694

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

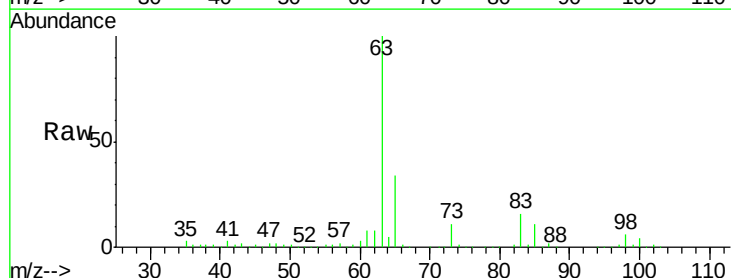
Tgt Ion: 63 Resp: 1579856

Ion Ratio Lower Upper

63 100

98 6.3 3.3 9.8

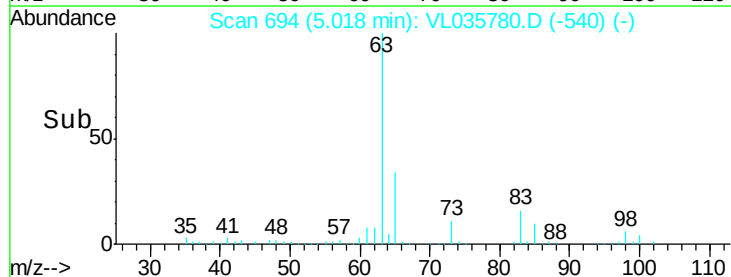
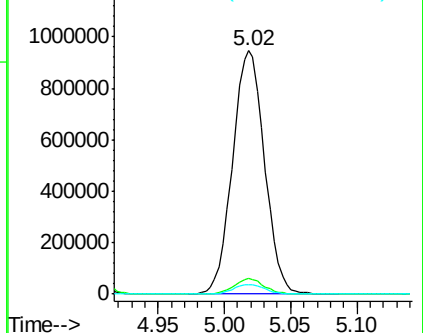
100 4.0 2.0 5.8

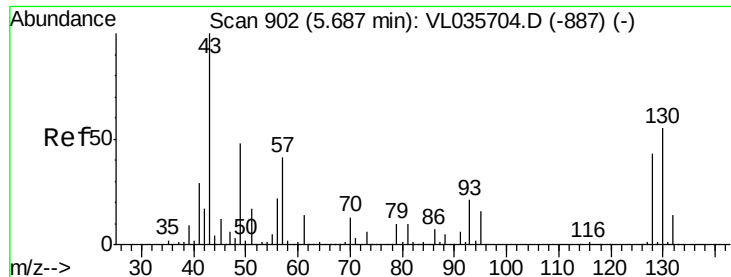


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 10.498 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 2163789

Ion Ratio Lower Upper

43 100

45 10.6 8.6 12.8

61 12.8 10.4 15.6

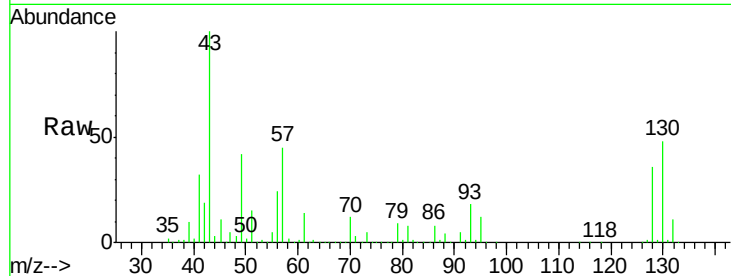
70 11.0 8.9 13.3

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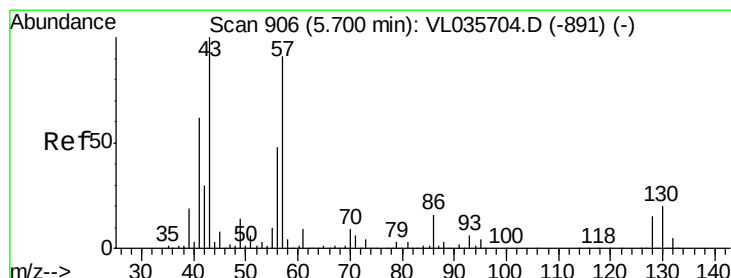
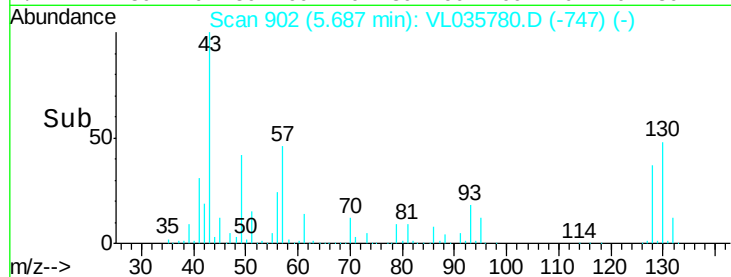
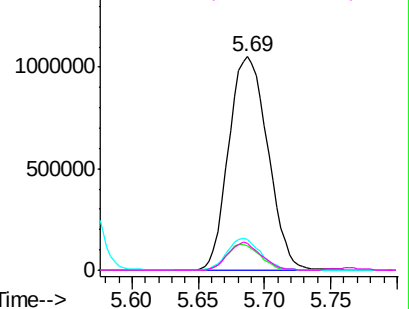


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 10.540 ppbv

RT: 5.70 min Scan# 905

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Tgt Ion: 57 Resp: 1190458

Ion Ratio Lower Upper

57 100

41 72.3 57.9 86.9

43 182.6 143.8 215.6

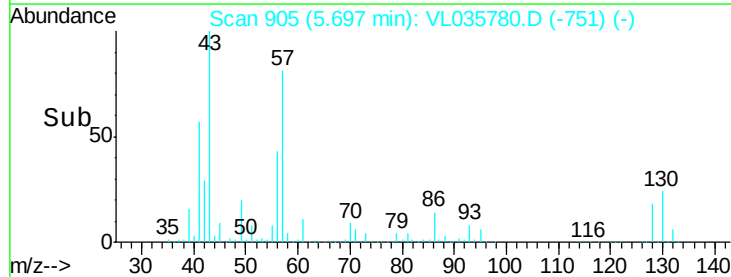
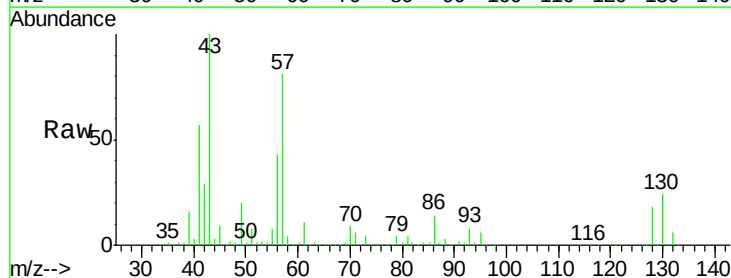
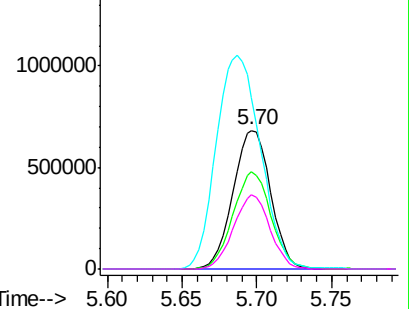
56 52.3 43.0 64.6

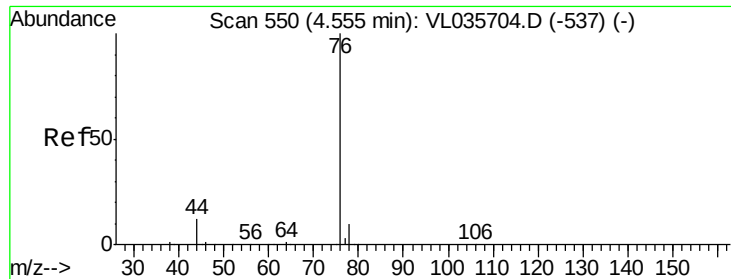
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.283 ppbv

RT: 4.56 min Scan# 550

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 76 Resp: 1899339

Ion Ratio Lower Upper

76 100

44 12.1 9.7 14.5

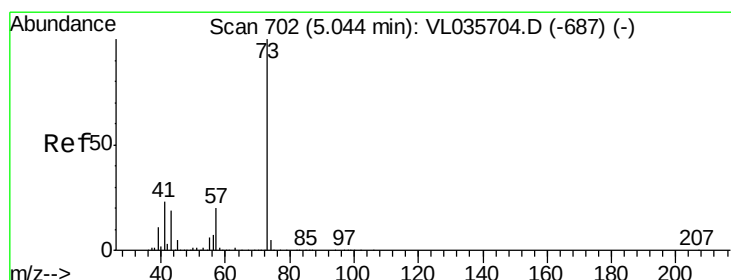
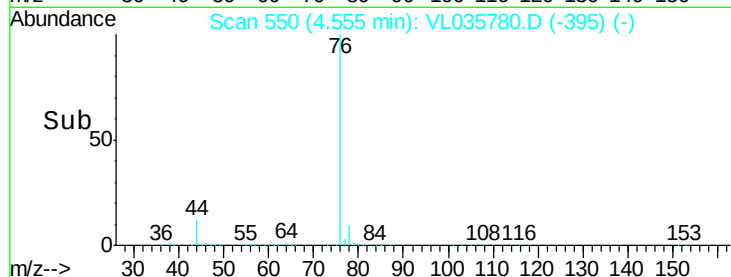
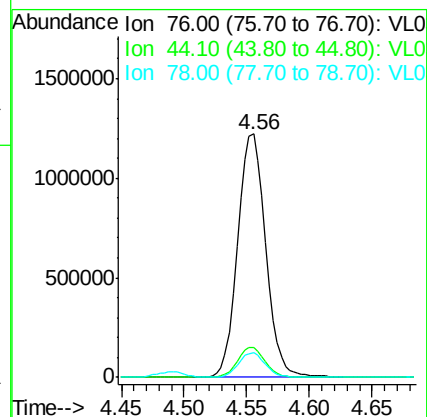
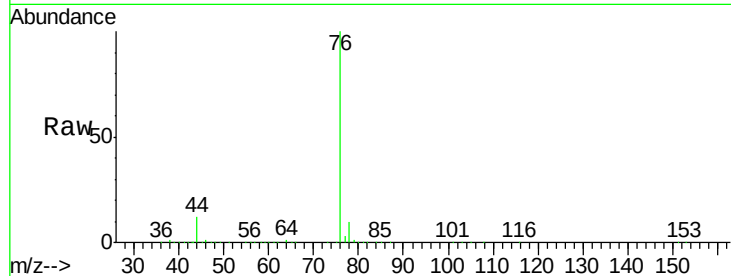
78 9.7 7.8 11.8

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#28

Methyl tert-Butyl Ether

Concen: 11.954 ppbv

RT: 5.04 min Scan# 701

Delta R.T. -0.00 min

Lab File: VL035780.D

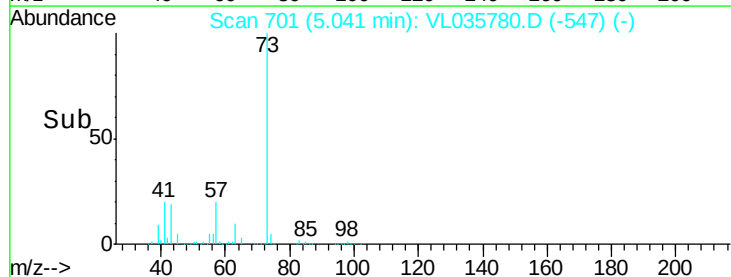
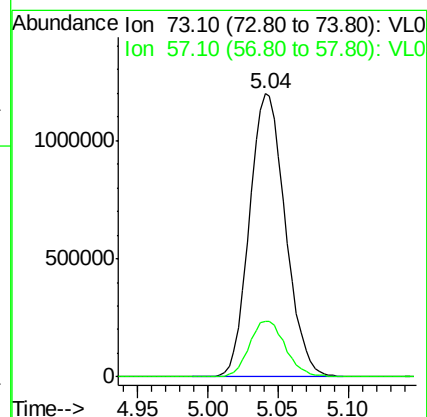
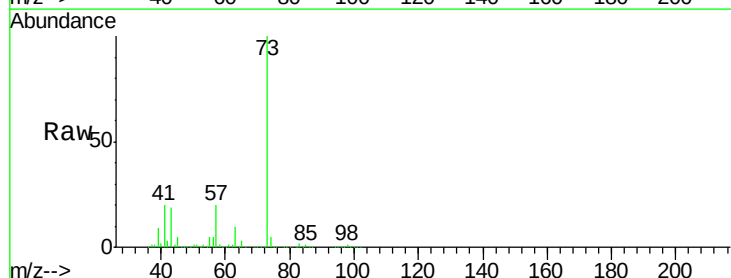
Acq: 13 Oct 2020 7:55

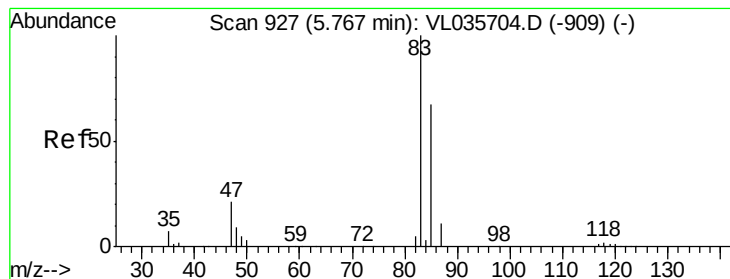
Tgt Ion: 73 Resp: 2140211

Ion Ratio Lower Upper

73 100

57 19.9 15.6 23.4





#29

Chloroform

Concen: 10.111 ppbv

RT: 5.76 min Scan# 926

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 83 Resp: 2319038

Ion Ratio Lower Upper

83 100

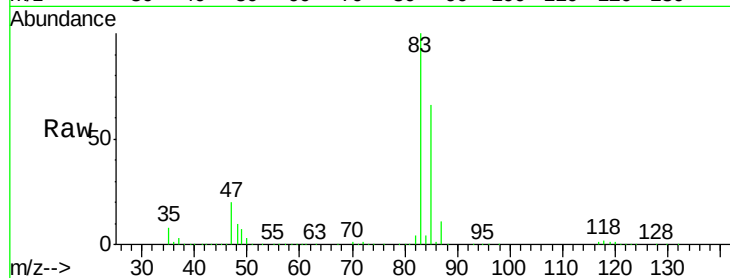
85 66.3 54.0 81.0

Manual Integrations

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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

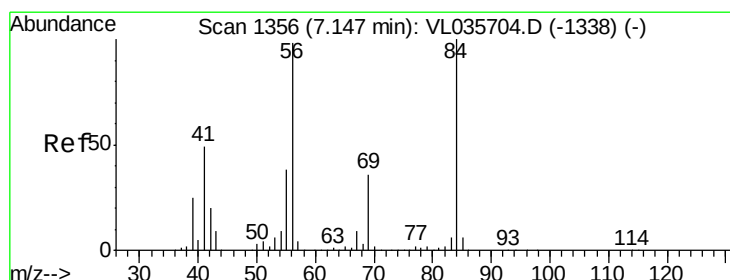
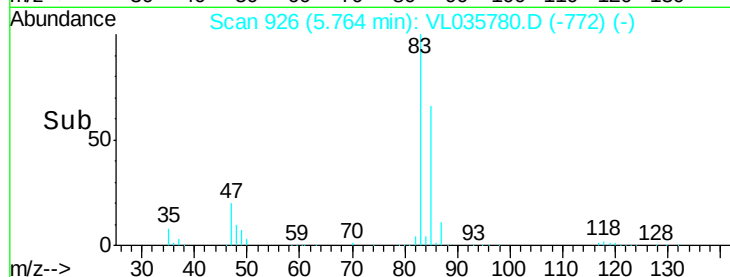
1500000

1000000

500000

0

Time-->



#30

Cyclohexane

Concen: 11.577 ppbv

RT: 7.14 min Scan# 1355

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

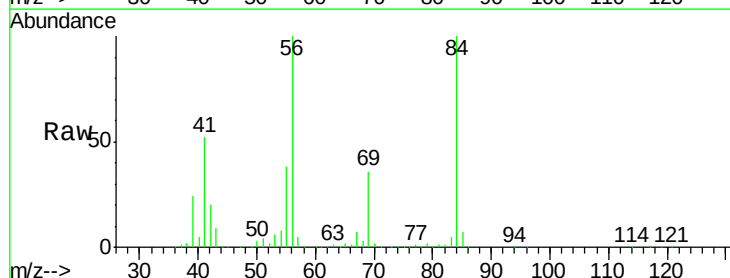
Tgt Ion: 84 Resp: 1290014

Ion Ratio Lower Upper

84 100

56 106.2 84.6 127.0

41 51.7 41.1 61.7



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

800000

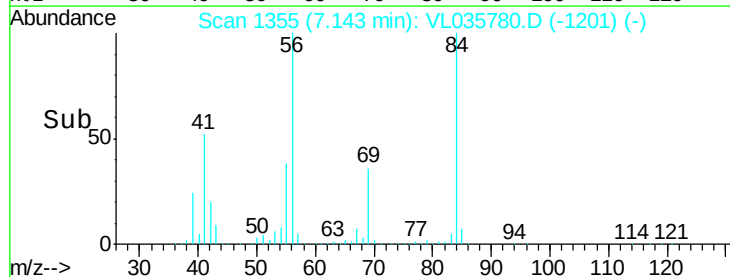
600000

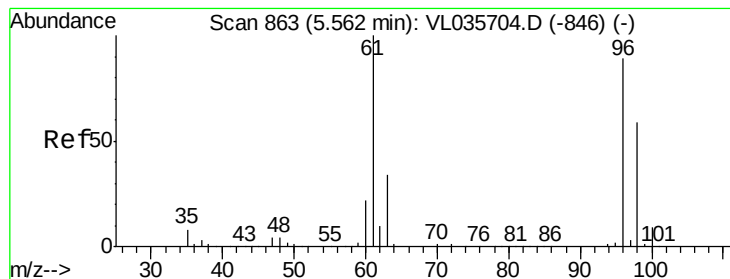
400000

200000

0

Time-->





#31

cis-1,2-Dichloroethene

Concen: 11.657 ppbv

RT: 5.56 min Scan# 862

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 61 Resp: 1270886

Ion Ratio Lower Upper

61 100

96 87.8 71.4 107.2

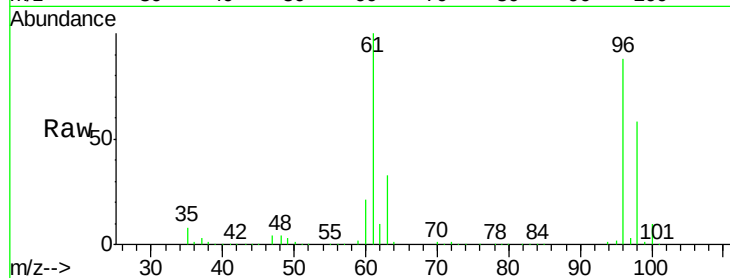
98 57.7 47.4 71.2

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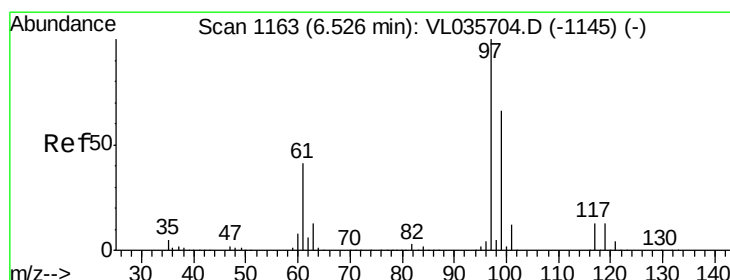
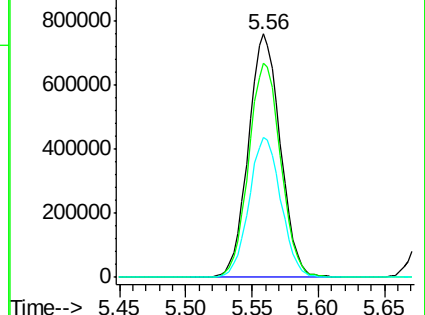
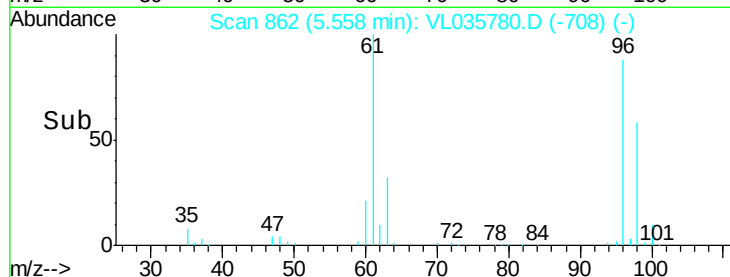
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Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 11.217 ppbv

RT: 6.53 min Scan# 1163

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

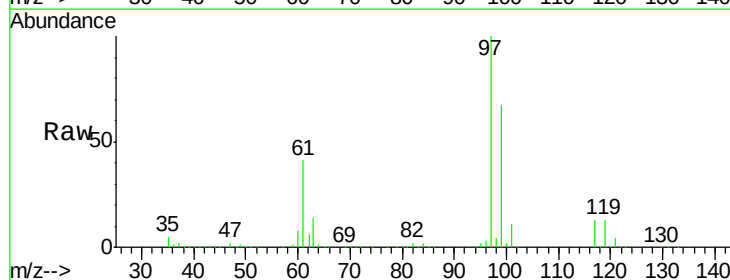
Tgt Ion: 97 Resp: 2267888

Ion Ratio Lower Upper

97 100

99 65.7 52.7 79.1

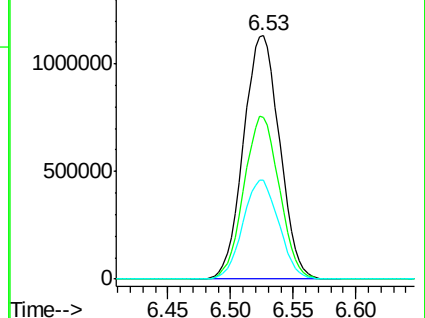
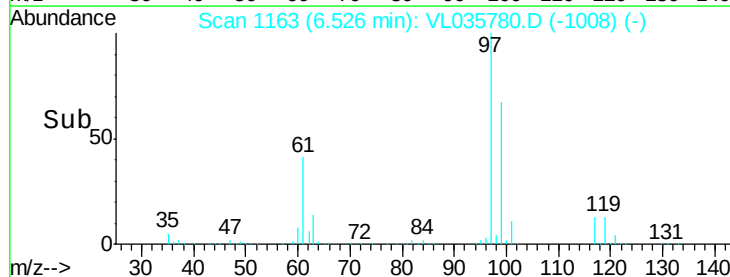
61 40.4 32.7 49.1

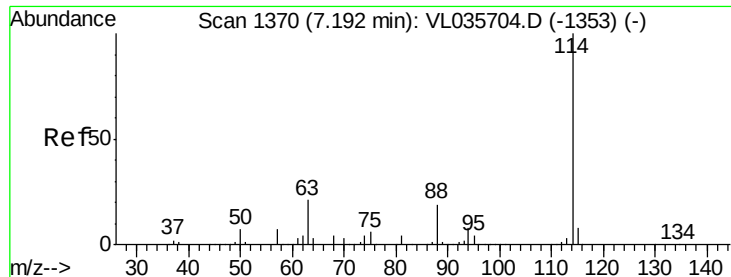


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





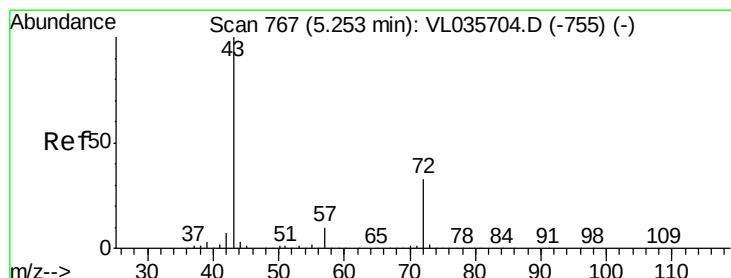
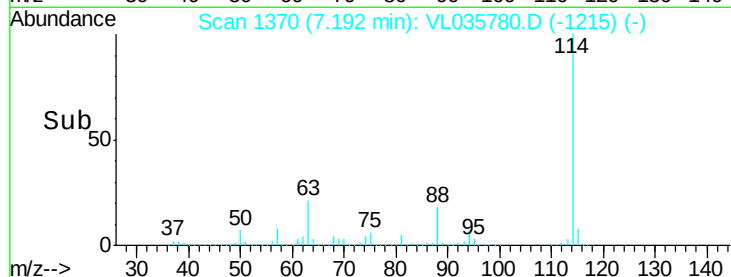
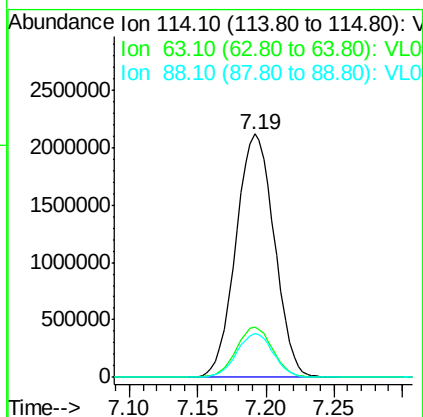
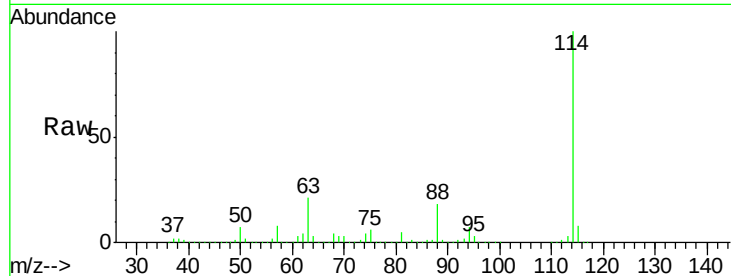
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 114 Resp: 4143253
 Ion Ratio Lower Upper
 114 100
 63 20.0 16.1 24.1
 88 17.3 14.1 21.1

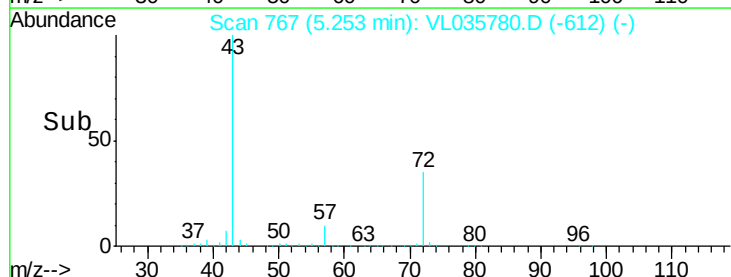
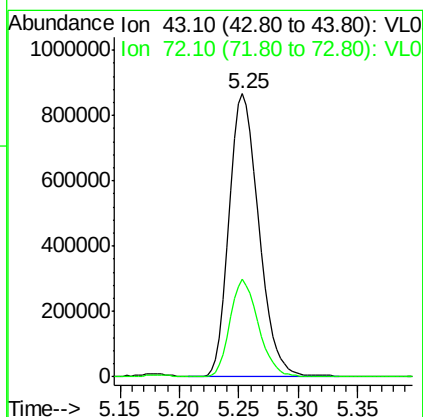
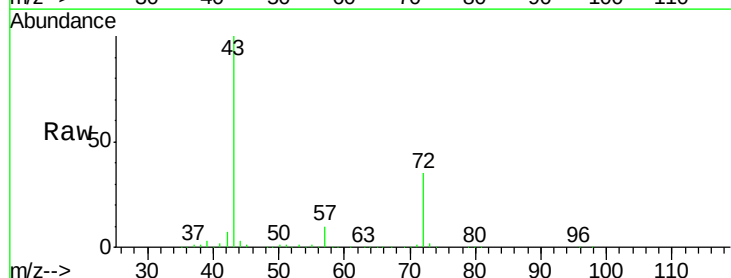
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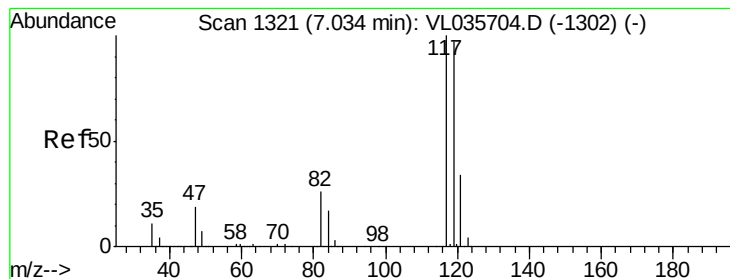
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#34
 2-Butanone
 Concen: 10.929 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. -0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Tgt Ion: 43 Resp: 1497725
 Ion Ratio Lower Upper
 43 100
 72 33.2 26.1 39.1





#35

Carbon Tetrachloride

Concen: 10.612 ppbv

RT: 7.03 min Scan# 1321

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 117 Resp: 2292340

Ion Ratio Lower Upper

117 100

119 97.2 77.7 116.5

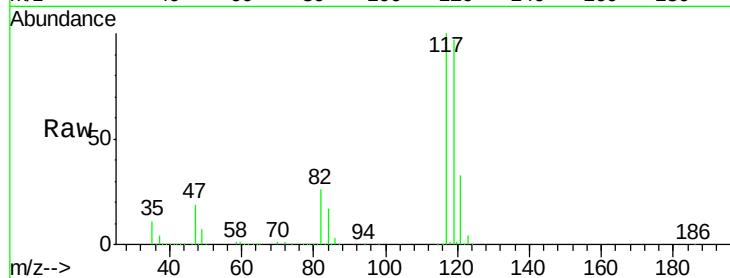
121 32.7 26.9 40.3

Manual Integrations

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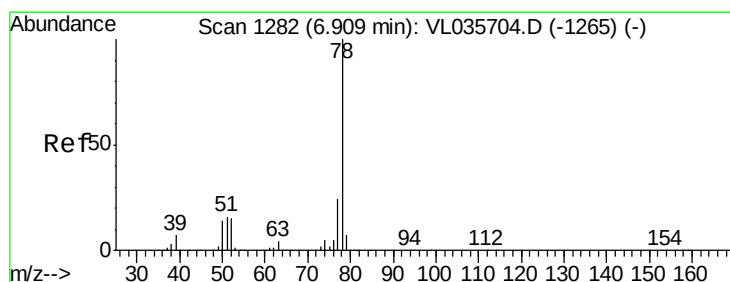
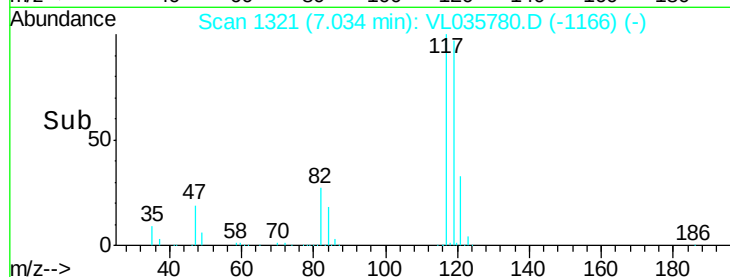
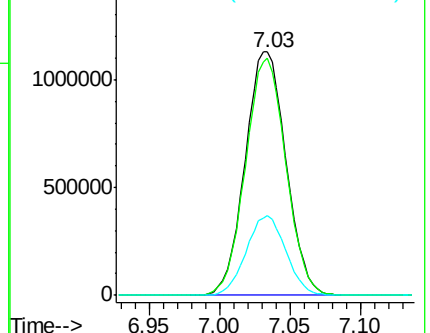
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 11.128 ppbv

RT: 6.91 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

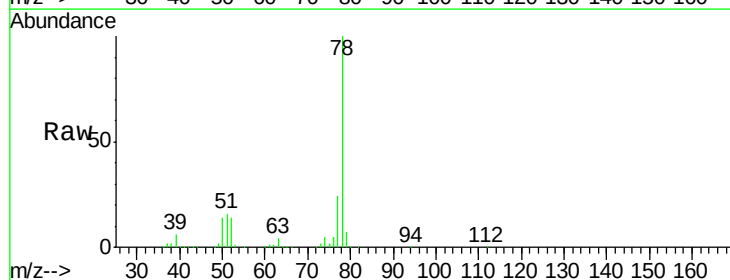
Tgt Ion: 78 Resp: 3004326

Ion Ratio Lower Upper

78 100

77 24.0 19.3 28.9

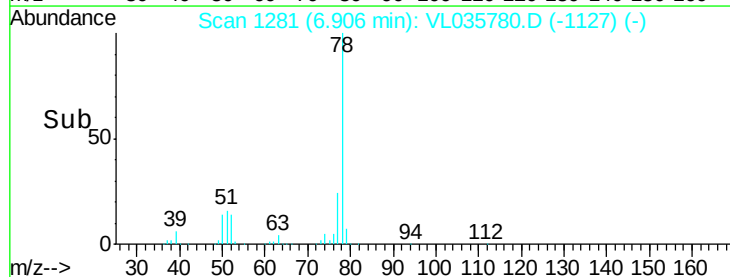
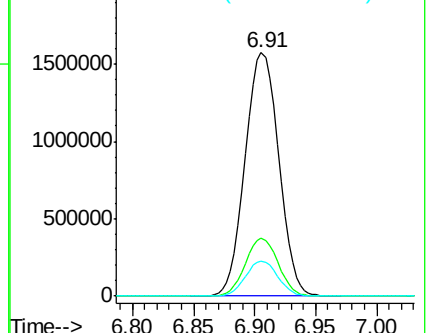
50 14.2 11.6 17.4

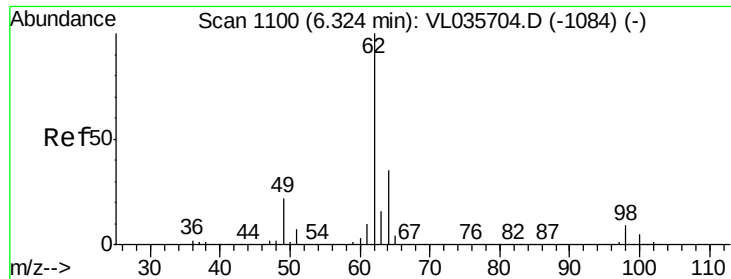


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





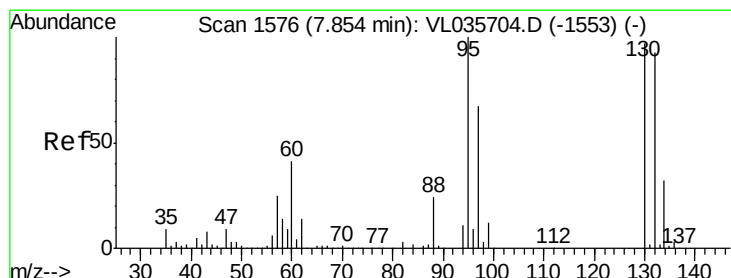
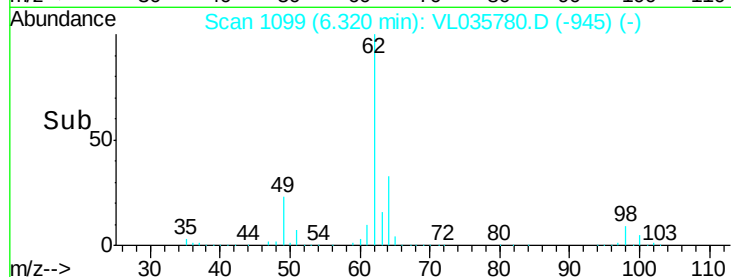
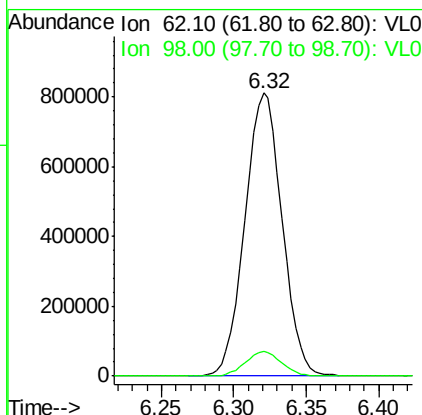
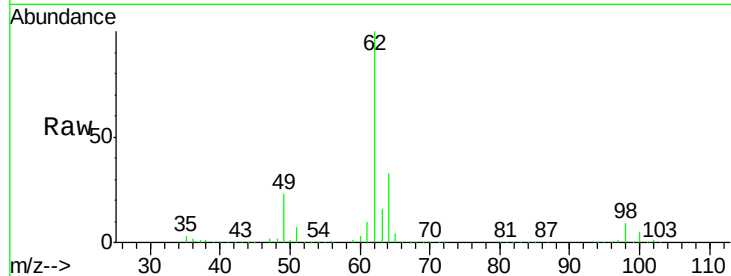
#37
 1,2-Dichloroethane
 Concen: 10.314 ppbv
 RT: 6.32 min Scan# 1099
 Delta R.T. -0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 62 Resp: 1451337
 Ion Ratio Lower Upper
 62 100
 98 8.5 6.9 10.3

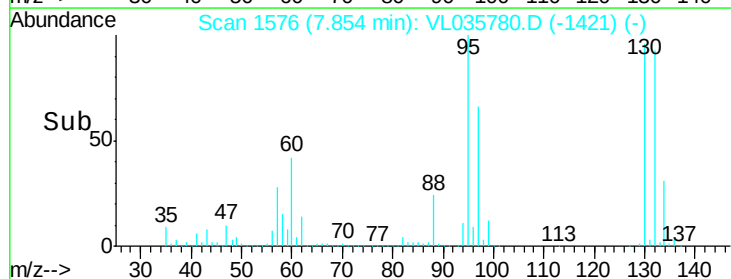
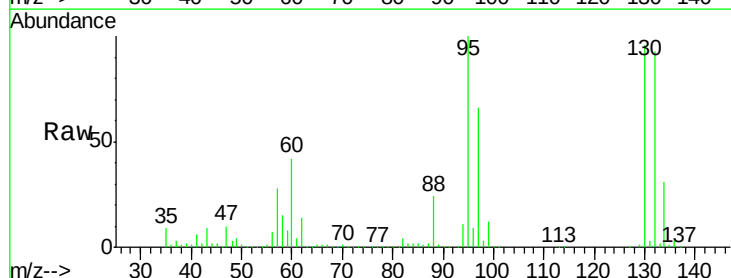
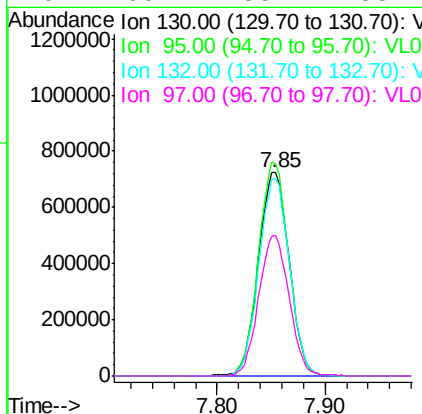
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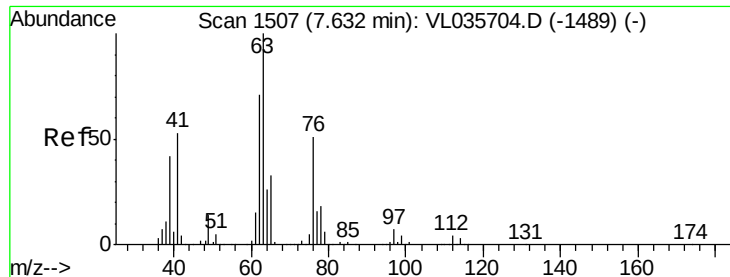
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#38
 Trichloroethene
 Concen: 10.679 ppbv
 RT: 7.85 min Scan# 1576
 Delta R.T. -0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Tgt Ion: 130 Resp: 1438270
 Ion Ratio Lower Upper
 130 100
 95 104.6 82.4 123.6
 132 96.8 76.8 115.2
 97 69.1 55.4 83.2





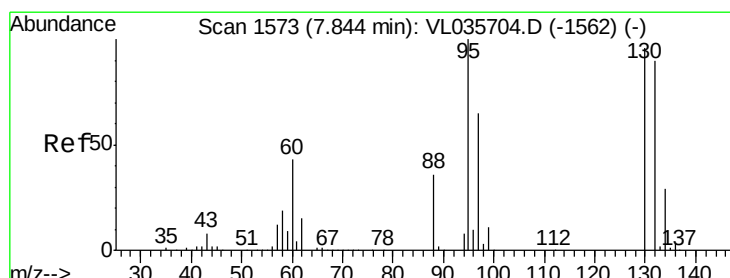
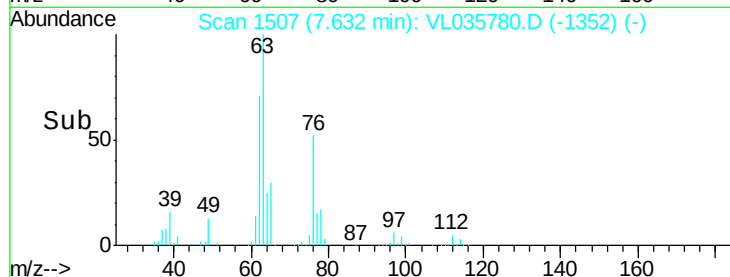
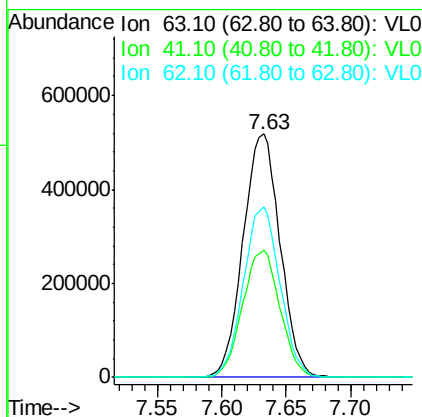
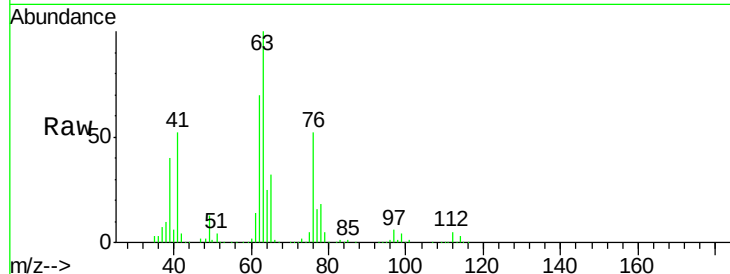
#39
 1,2-Dichloropropane
 Concen: 10.587 ppbv
 RT: 7.63 min Scan# 1507
 Delta R.T. -0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 63 Resp: 1035981
 Ion Ratio Lower Upper
 63 100
 41 52.2 42.6 63.8
 62 70.2 56.5 84.7

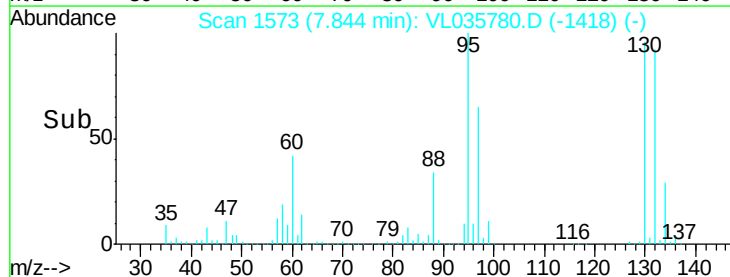
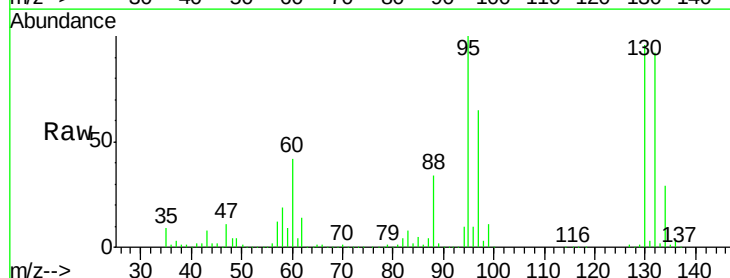
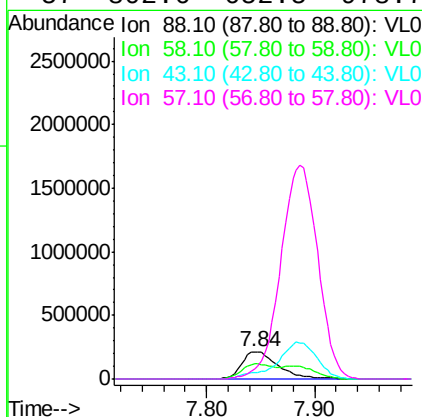
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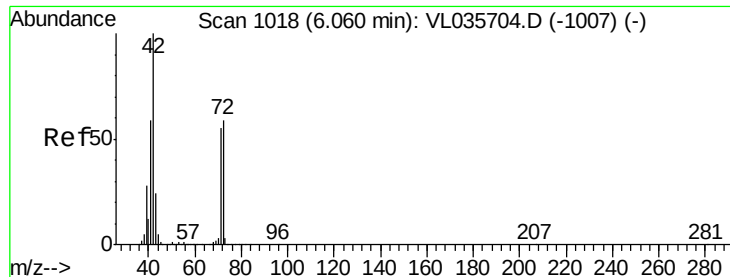
MMDadoda
 10/14/2020 2:12:12 PM



#40
 1,4-Dioxane
 Concen: 11.181 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Tgt Ion: 88 Resp: 500368
 Ion Ratio Lower Upper
 88 100
 58 94.4 76.2 114.4
 43 150.9 123.4 185.2
 57 802.6 652.5 978.7





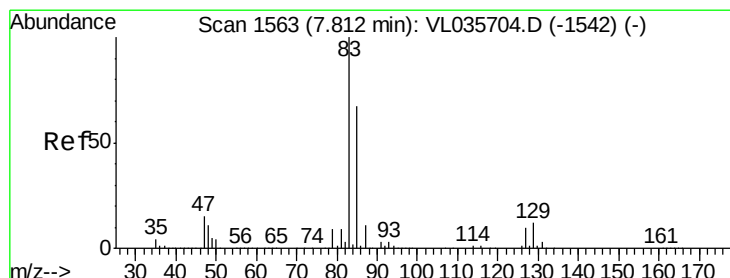
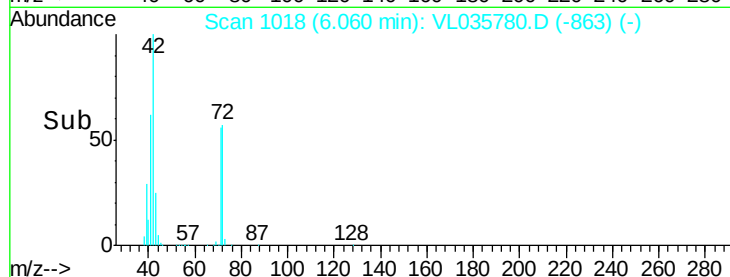
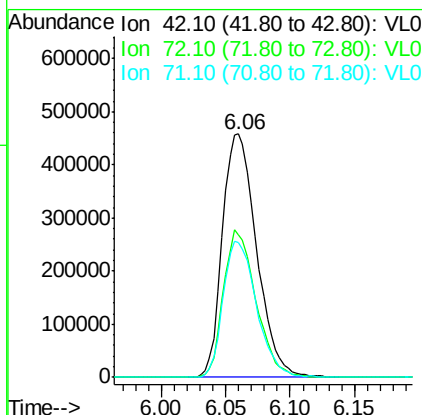
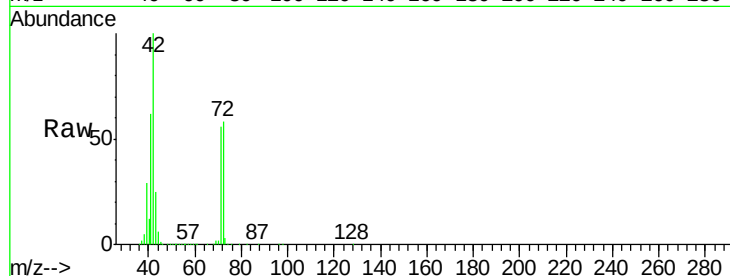
#41
Tetrahydrofuran
Concen: 12.187 ppbv
RT: 6.06 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
42	100		
72	57.9	46.2	69.4
71	55.0	44.2	66.4

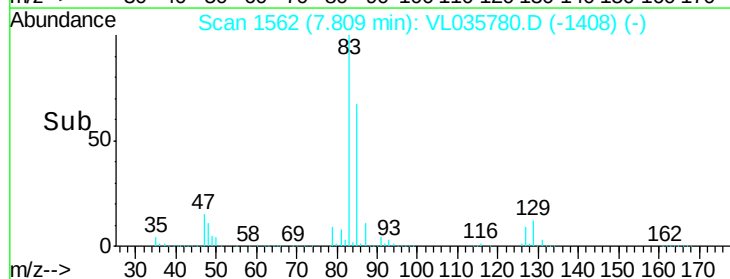
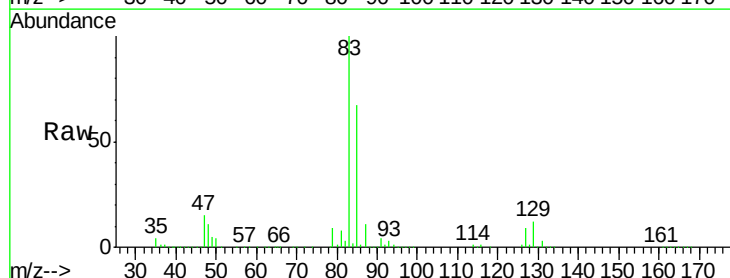
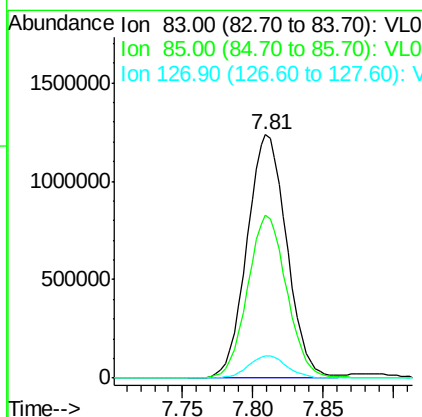
Manual Integrations
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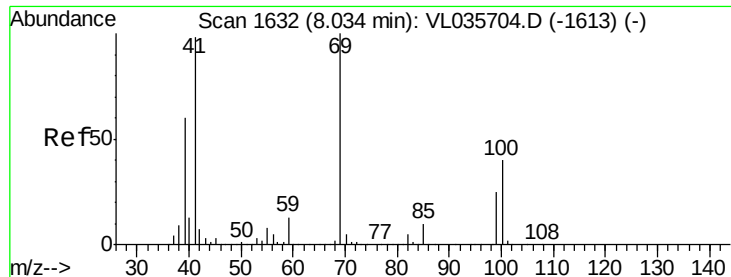
MMDadoda
10/14/2020 2:12:12 PM



#42
Bromodichloromethane
Concen: 10.766 ppbv
RT: 7.81 min Scan# 1562
Delta R.T. -0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.1	53.4	80.0
127	9.2	7.8	11.6





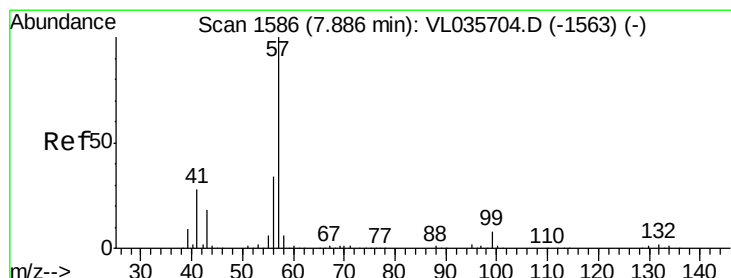
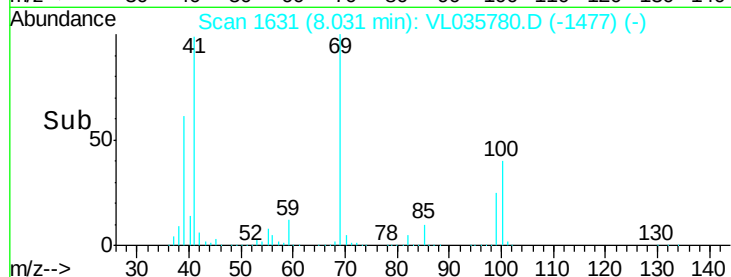
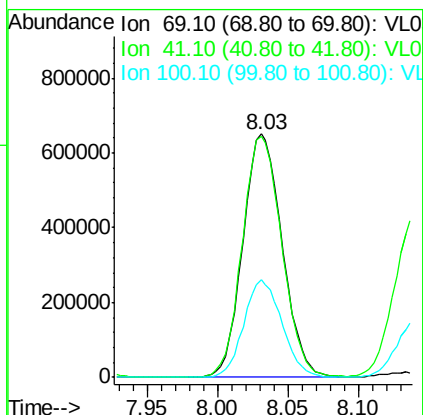
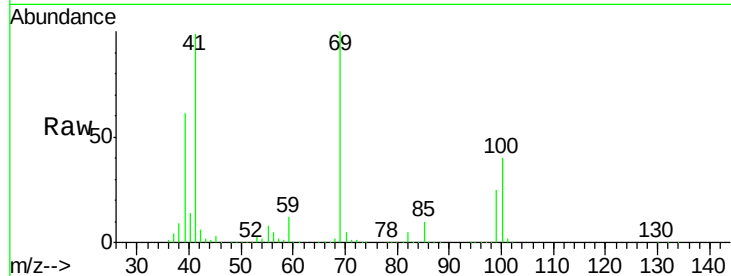
#43
Methyl Methacrylate
Concen: 11.801 ppbv
RT: 8.03 min Scan# 1631
Delta R.T. -0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 69 Resp: 1267153
Ion Ratio Lower Upper
69 100
41 99.9 79.8 119.6
100 39.0 30.6 46.0

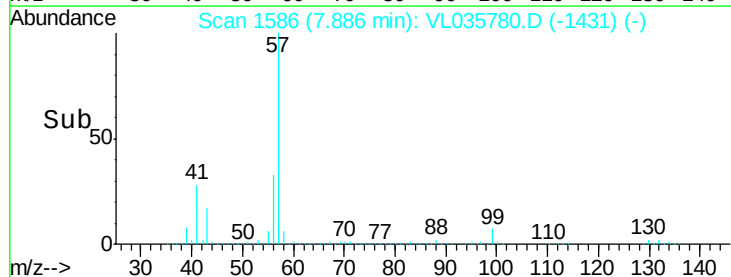
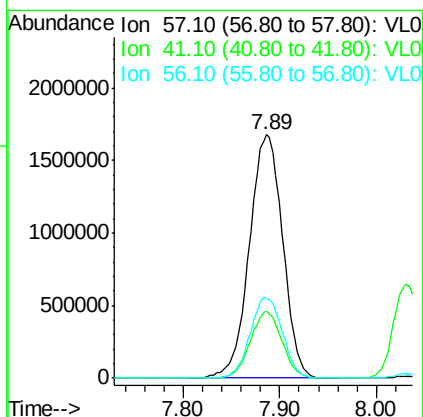
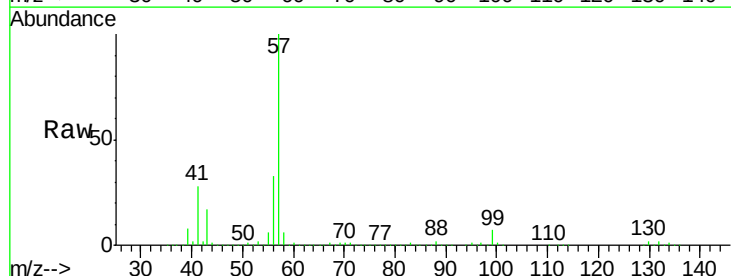
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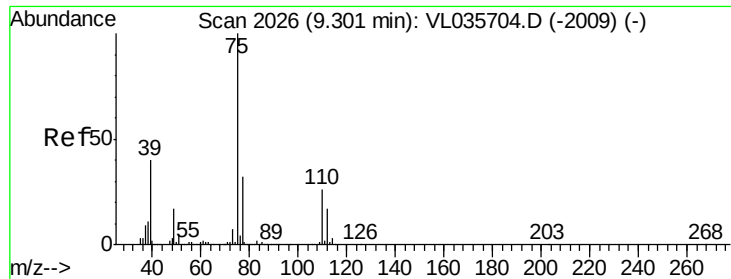
MMDadoda
10/14/2020 2:12:12 PM



#44
2,2,4-Trimethylpentane
Concen: 10.360 ppbv
RT: 7.89 min Scan# 1586
Delta R.T. -0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Tgt Ion: 57 Resp: 4013480
Ion Ratio Lower Upper
57 100
41 26.0 21.2 31.8
56 32.0 25.8 38.8





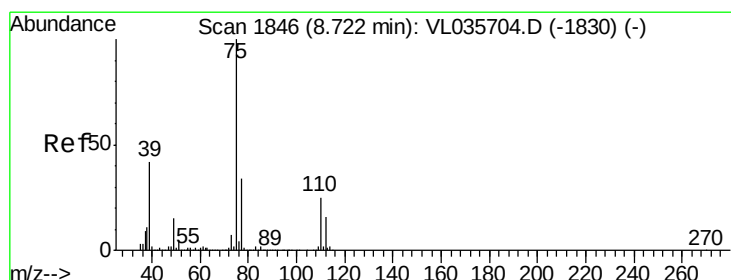
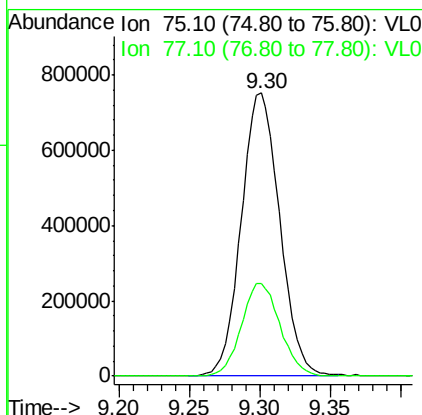
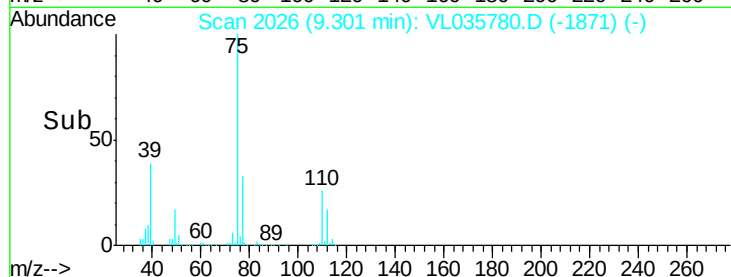
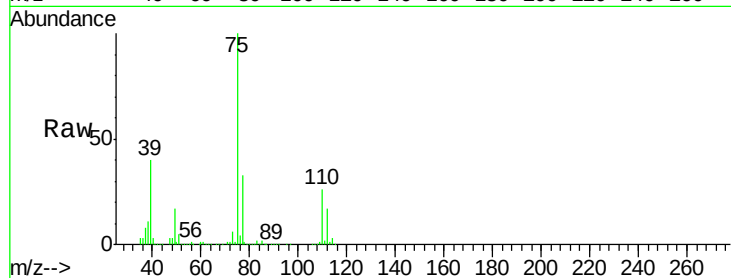
#45
 t-1,3-Dichloropropene
 Concen: 13.268 ppbv
 RT: 9.30 min Scan# 2026
 Delta R.T. -0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 75 Resp: 1438287
 Ion Ratio Lower Upper
 75 100
 77 32.7 25.9 38.9

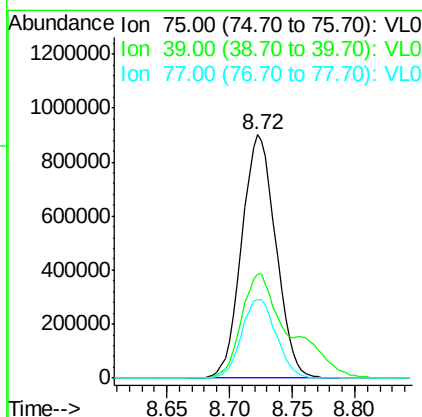
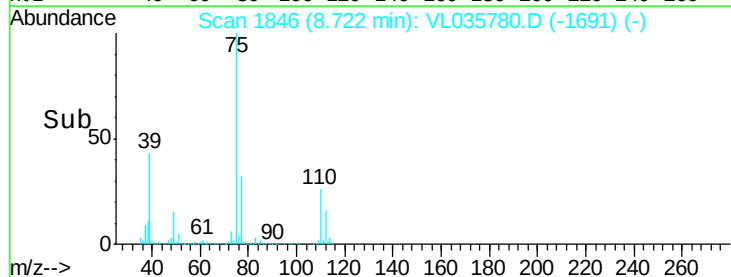
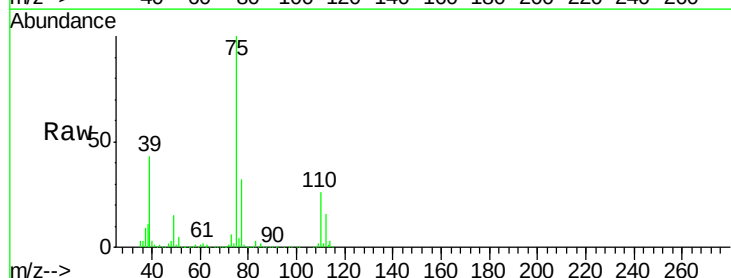
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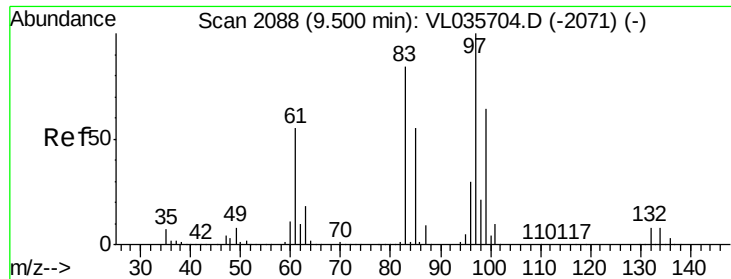
MMDadoda
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#46
 cis-1,3-Dichloropropene
 Concen: 12.788 ppbv
 RT: 8.72 min Scan# 1846
 Delta R.T. -0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Tgt Ion: 75 Resp: 1708853
 Ion Ratio Lower Upper
 75 100
 39 42.7 33.9 50.9
 77 32.4 27.4 41.0





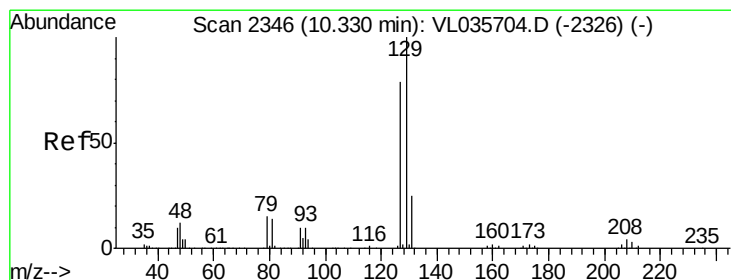
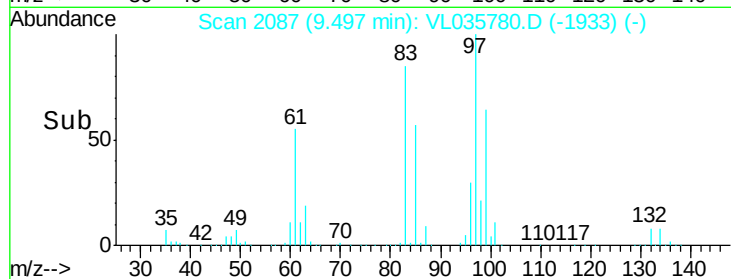
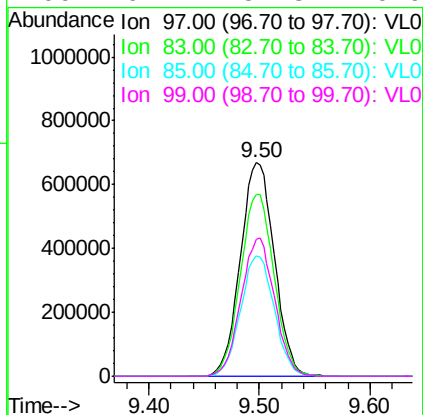
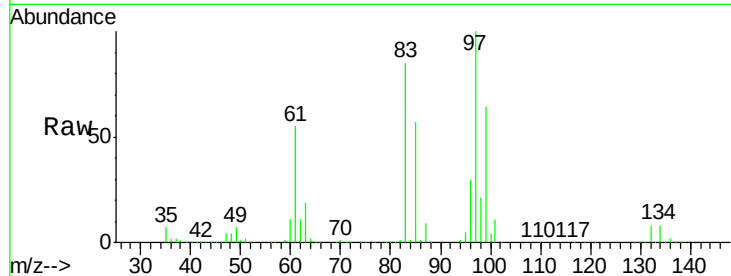
#47
 1,1,2-Trichloroethane
 Concen: 10.204 ppbv
 RT: 9.50 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion	Resp	Lower	Upper
97	1430196		
97	100		
83	84.9	67.1	100.7
85	56.5	43.9	65.9
99	64.2	51.3	76.9

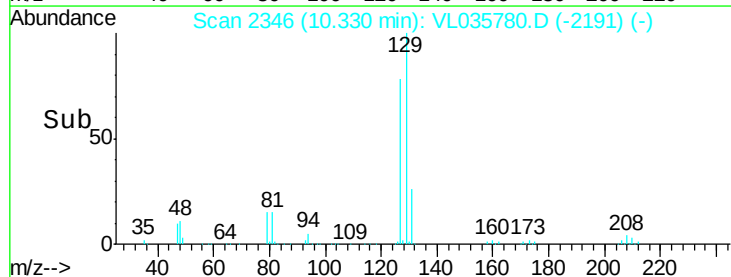
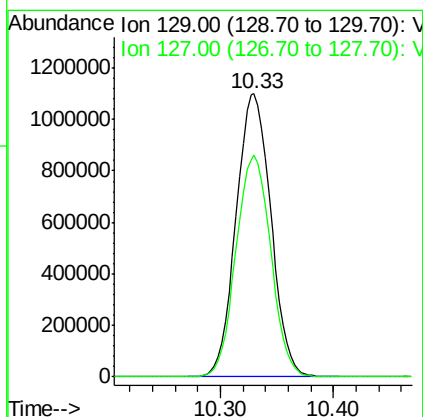
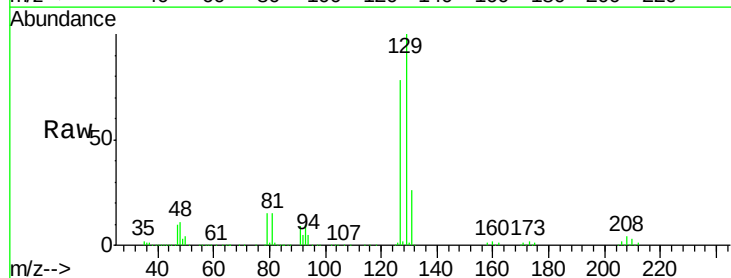
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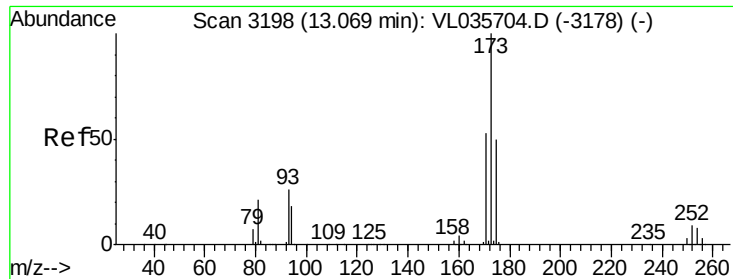
MMDadoda
 10/14/2020 2:12:12 PM



#48
 Dibromochloromethane
 Concen: 11.078 ppbv
 RT: 10.33 min Scan# 2346
 Delta R.T. -0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Tgt Ion	Resp	Lower	Upper
129	2363142		
129	100		
127	78.3	39.4	118.1





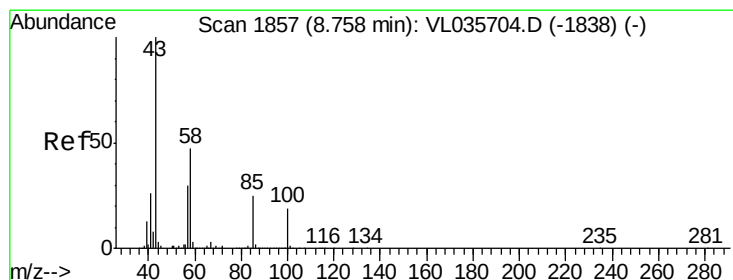
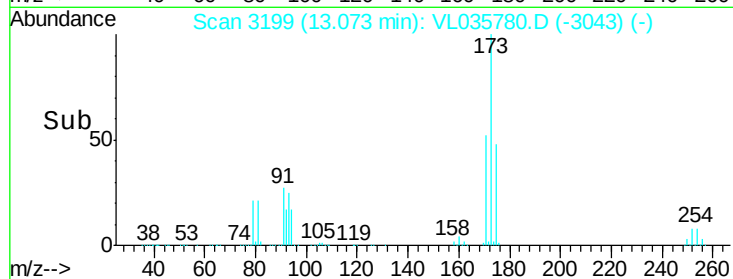
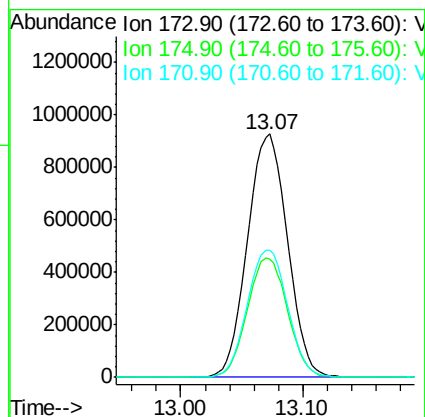
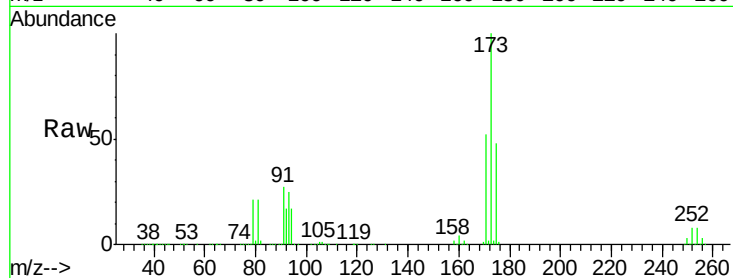
#49
Bromoform
Concen: 11.642 ppbv
RT: 13.07 min Scan# 3199
Delta R.T. 0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion:173 Resp: 2107161
Ion Ratio Lower Upper
173 100
175 49.4 39.8 59.6
171 52.9 42.8 64.2

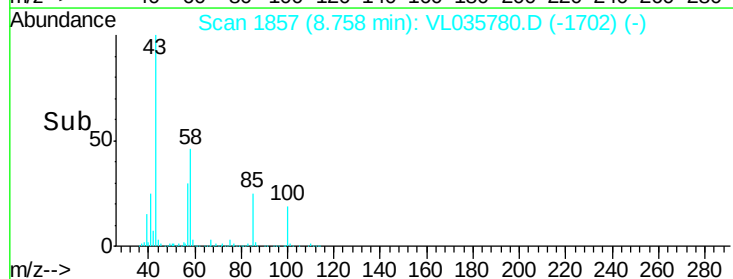
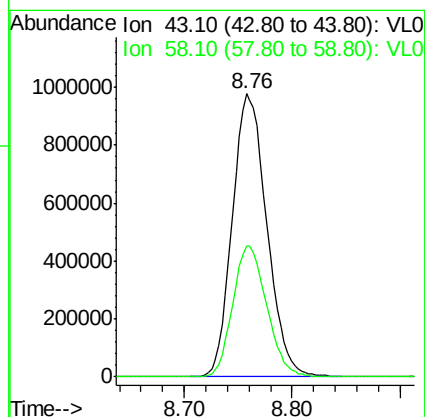
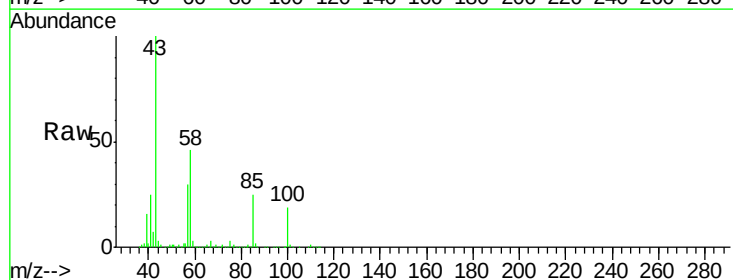
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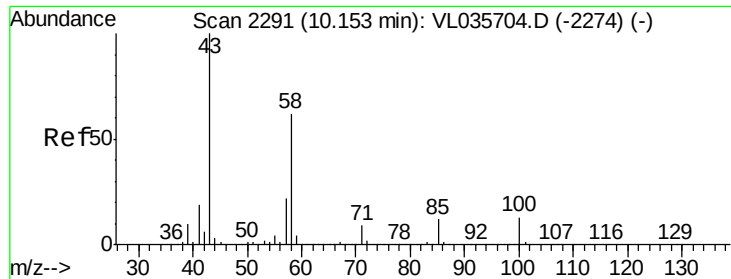
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 10.873 ppbv
RT: 8.76 min Scan# 1857
Delta R.T. -0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Tgt Ion: 43 Resp: 2176429
Ion Ratio Lower Upper
43 100
58 45.8 36.6 54.8





#51

2-Hexanone

Concen: 11.506 ppbv

RT: 10.16 min Scan# 2292

Delta R.T. 0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 1855590

Ion Ratio Lower Upper

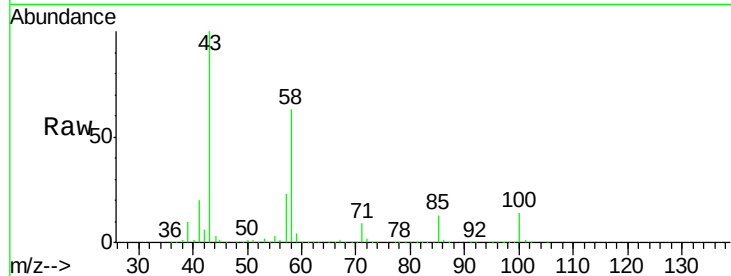
43 100

58 61.5 48.7 73.1

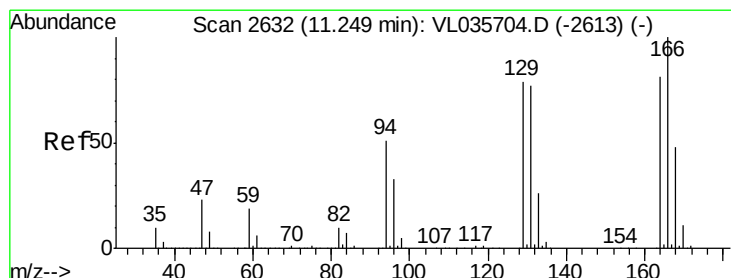
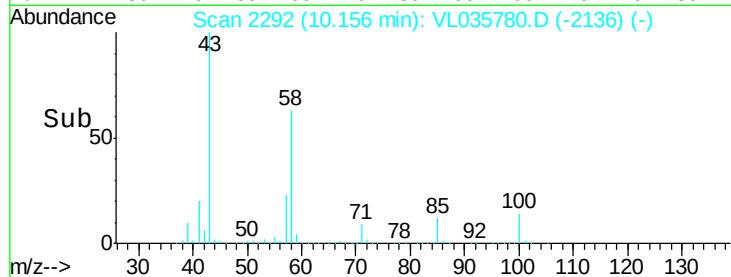
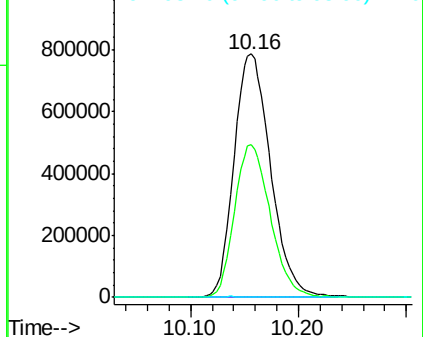
98 0.6 0.7 1.1#

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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: 10.515 ppbv

RT: 11.25 min Scan# 2632

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Tgt Ion: 164 Resp: 1365186

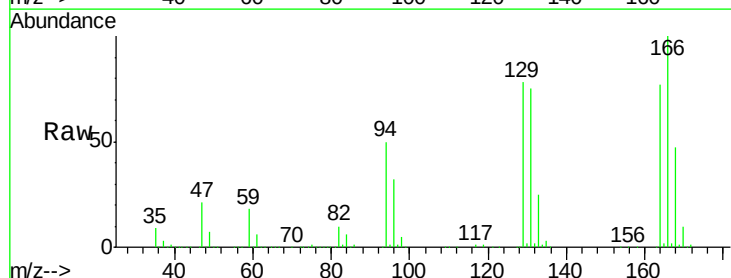
Ion Ratio Lower Upper

164 100

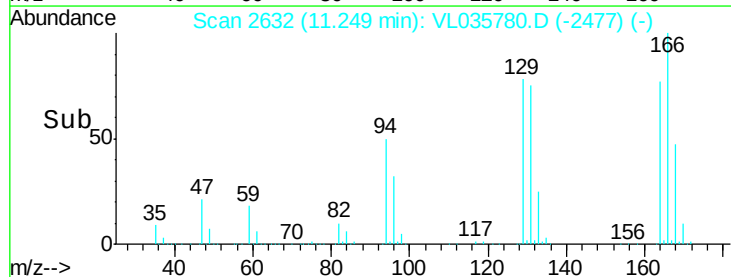
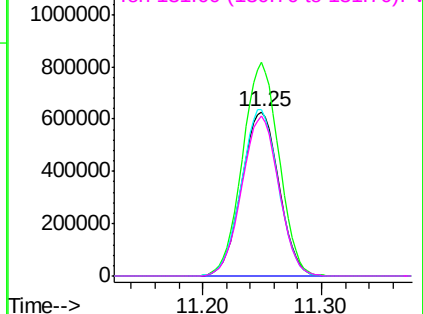
166 130.3 98.7 148.1

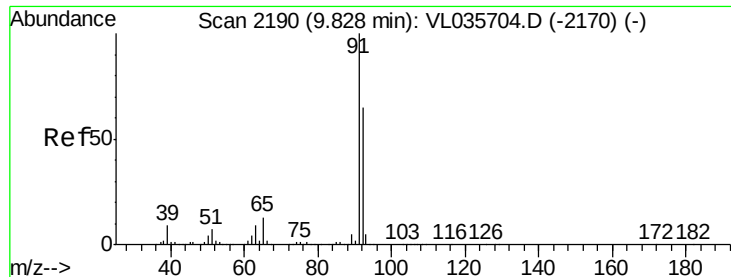
129 101.2 78.4 117.6

131 97.7 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: 11.608 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 91 Resp: 3695462

Ion Ratio Lower Upper

91 100

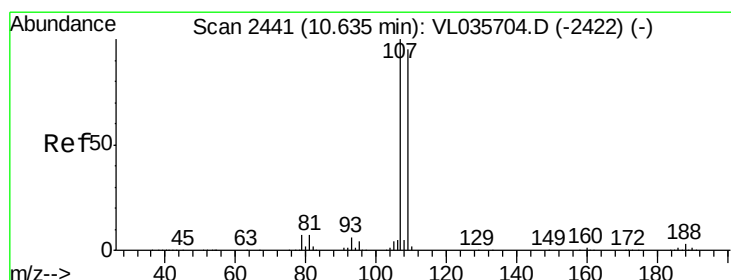
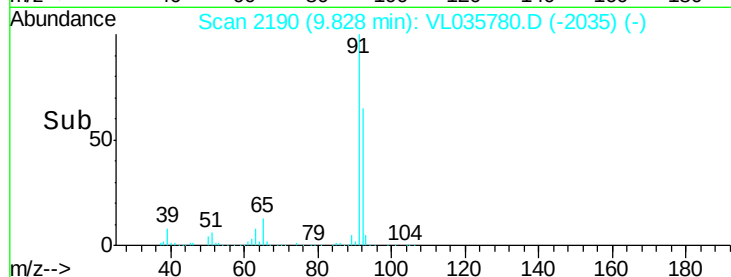
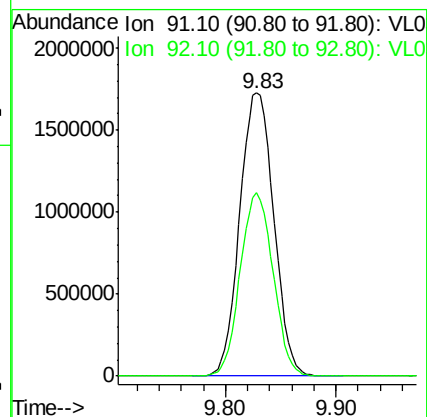
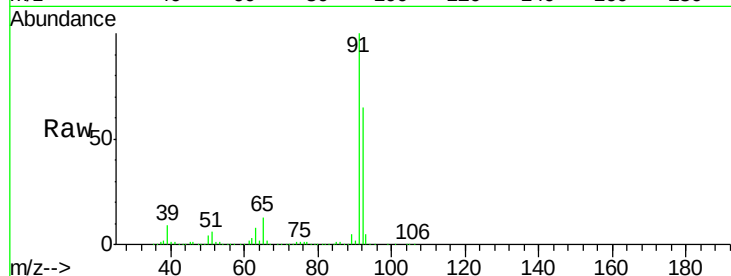
92 62.5 50.0 75.0

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 10.706 ppbv

RT: 10.64 min Scan# 2441

Delta R.T. -0.00 min

Lab File: VL035780.D

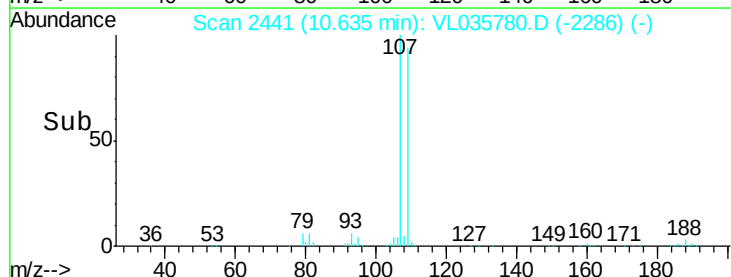
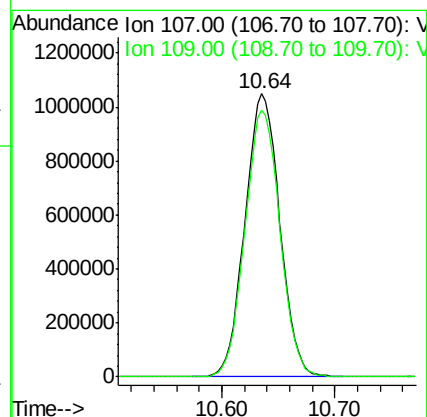
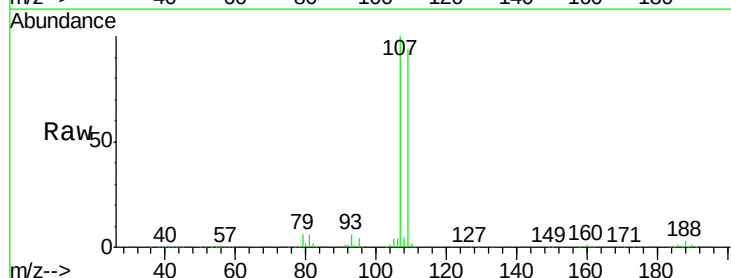
Acq: 13 Oct 2020 7:55

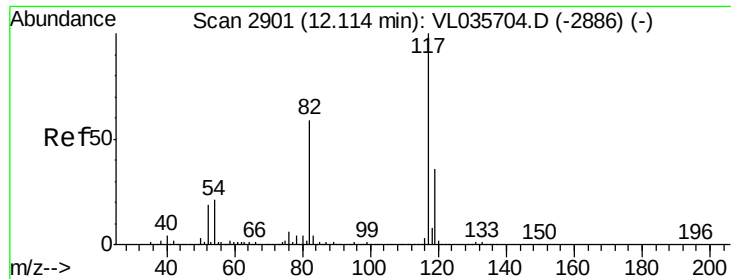
Tgt Ion: 107 Resp: 2246936

Ion Ratio Lower Upper

107 100

109 94.0 76.0 114.0





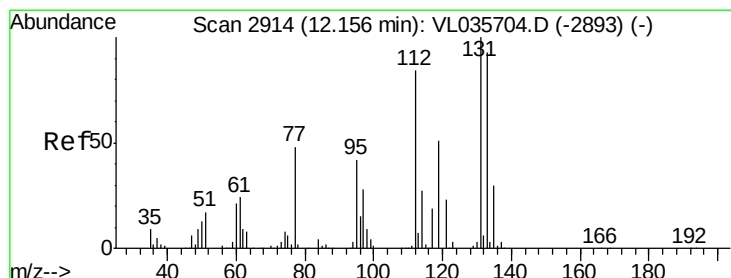
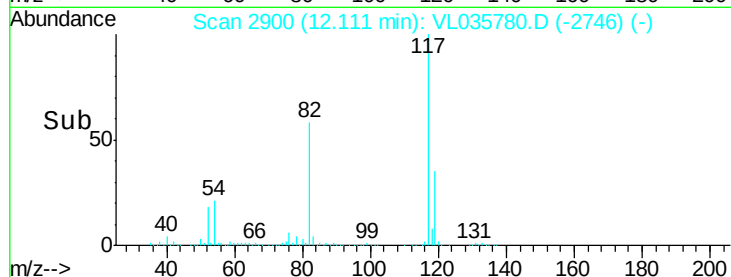
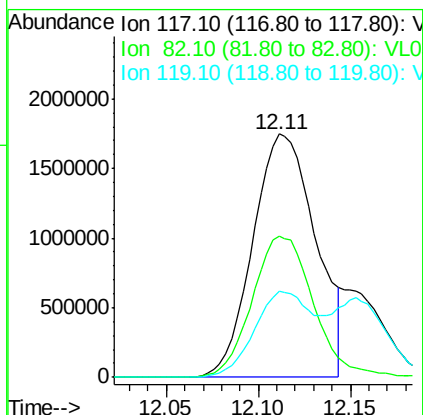
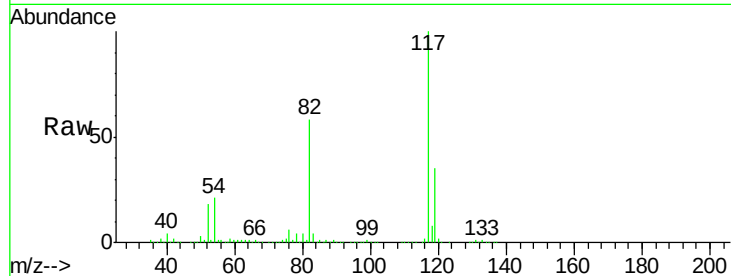
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.11 min Scan# 2900
Delta R.T. -0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion:117 Resp: 4154248
Ion Ratio Lower Upper
117 100
82 56.7 46.1 69.1
119 32.5 28.0 42.0

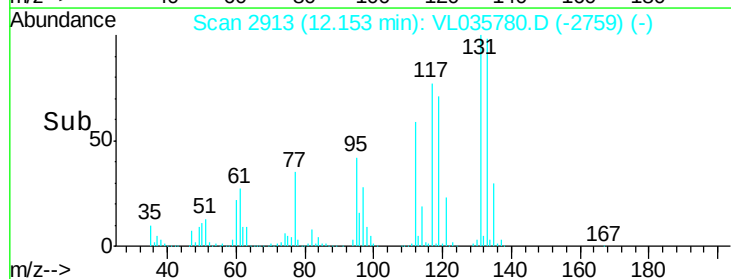
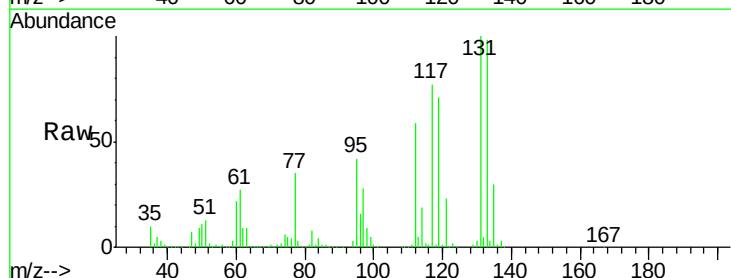
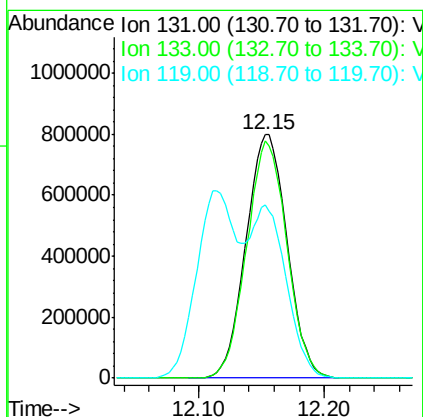
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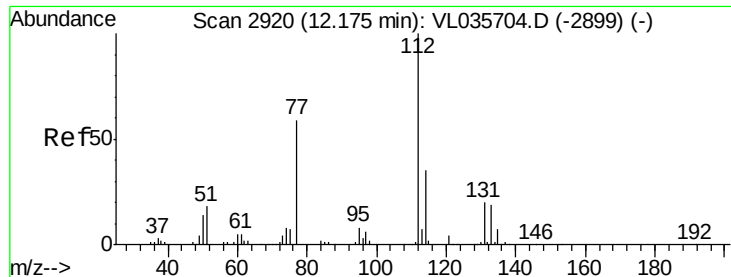
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 10.463 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Tgt Ion:131 Resp: 1822582
Ion Ratio Lower Upper
131 100
133 95.6 76.2 114.4
119 61.0 52.4 78.6





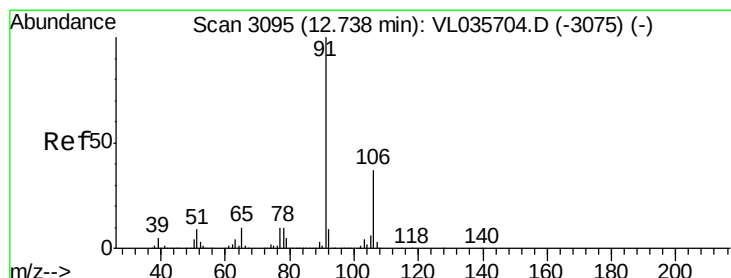
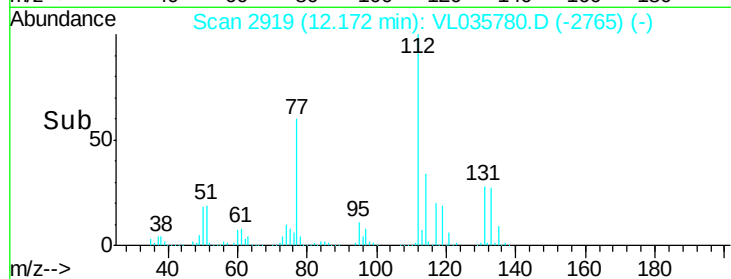
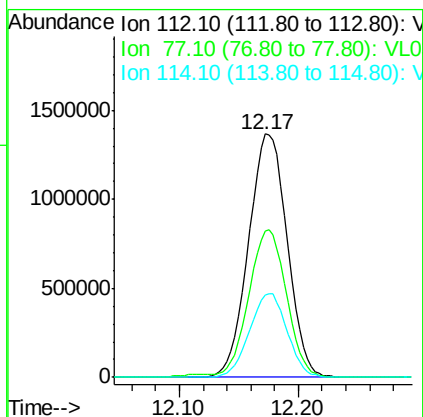
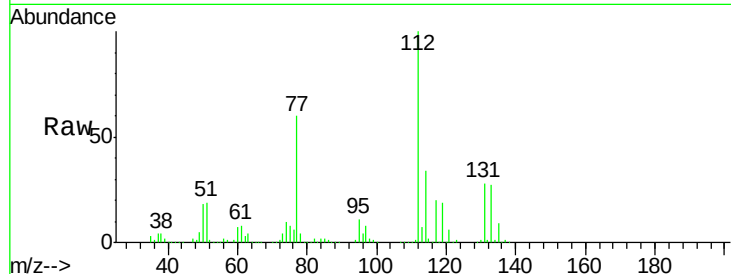
#57
Chlorobenzene
Concen: 9.775 ppbv
RT: 12.17 min Scan# 2919
Delta R.T. -0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 112 Resp: 3067091
Ion Ratio Lower Upper
112 100
77 59.8 48.2 72.2
114 33.9 31.9 39.1

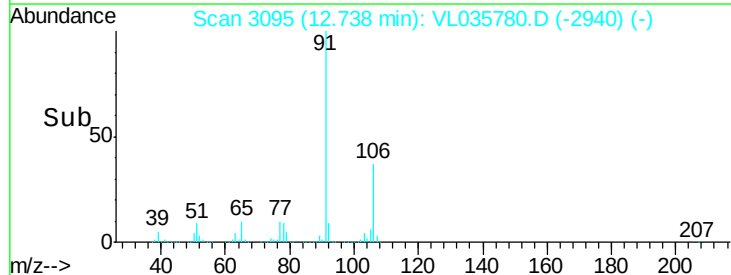
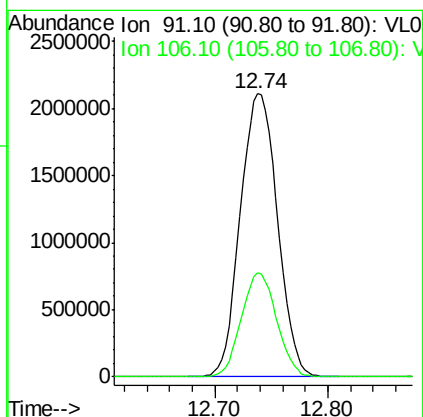
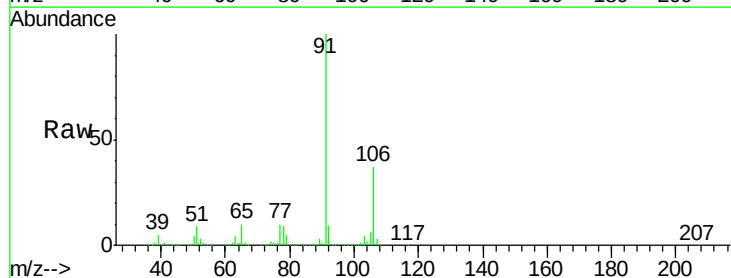
Manual Integrations
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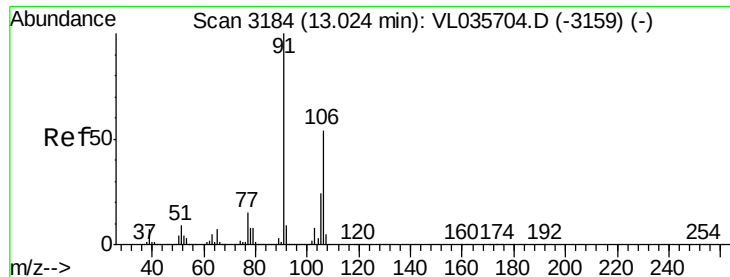
MMDadoda
10/14/2020 2:12:12 PM



#58
Ethyl Benzene
Concen: 11.558 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. -0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Tgt Ion: 91 Resp: 4819204
Ion Ratio Lower Upper
91 100
106 36.6 29.7 44.5





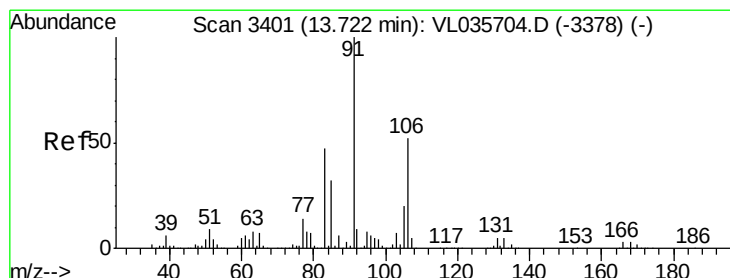
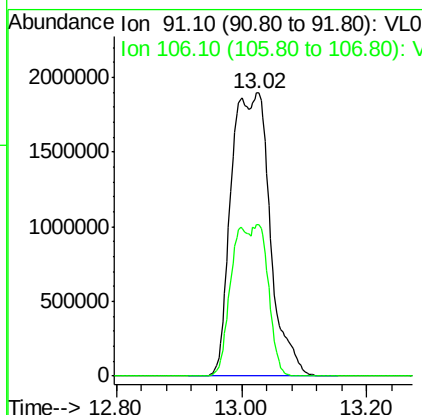
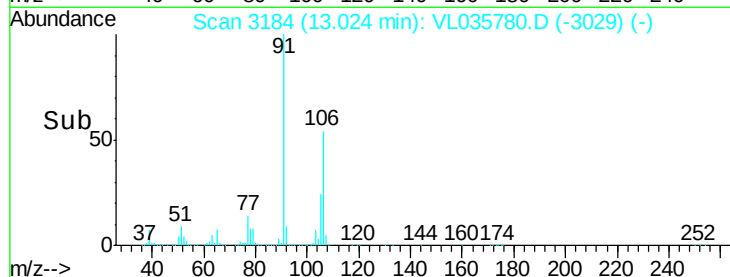
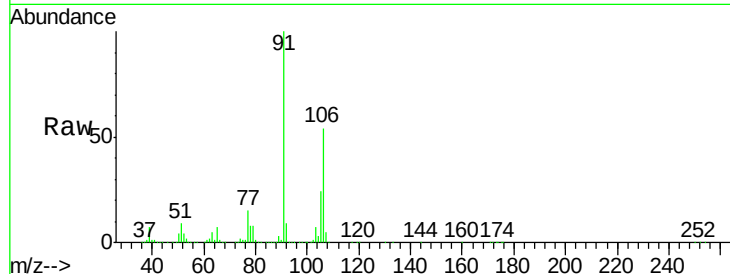
#59
m/p-Xylene
Concen: 22.473 ppbv m
RT: 13.02 min Scan# 3184
Delta R.T. -0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 91 Resp: 8183008
Ion Ratio Lower Upper
91 100
106 49.7 41.4 62.0

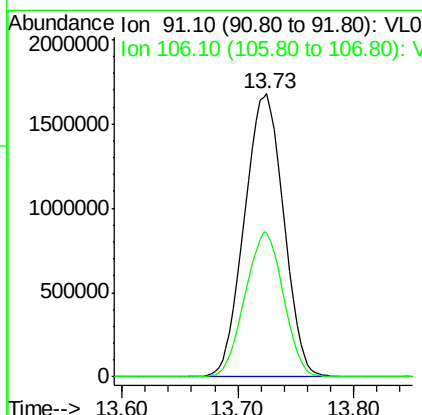
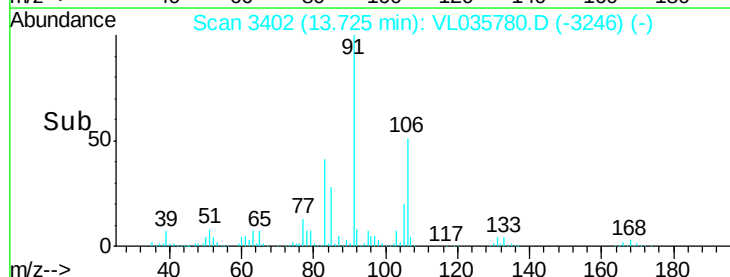
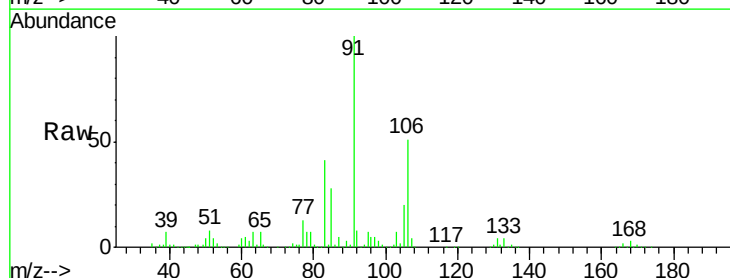
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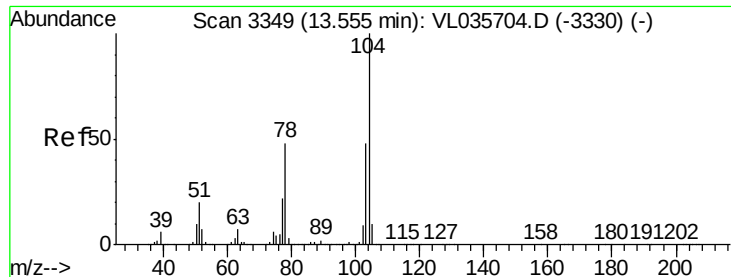
MMDadoda
10/14/2020 2:12:12 PM



#60
o-Xylene
Concen: 10.730 ppbv
RT: 13.73 min Scan# 3402
Delta R.T. 0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Tgt Ion: 91 Resp: 3952376
Ion Ratio Lower Upper
91 100
106 50.0 25.0 75.0





#61

Styrene

Concen: 12.466 ppbv

RT: 13.56 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion:104 Resp: 3175060

Ion Ratio Lower Upper

104 100

78 45.5 37.2 55.8

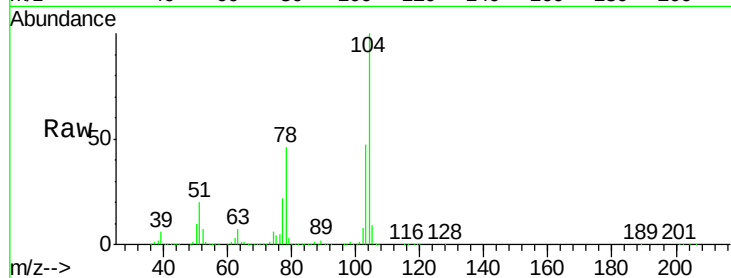
103 47.3 38.2 57.2

Manual Integrations

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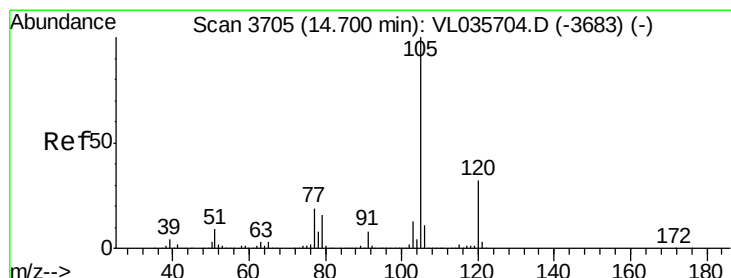
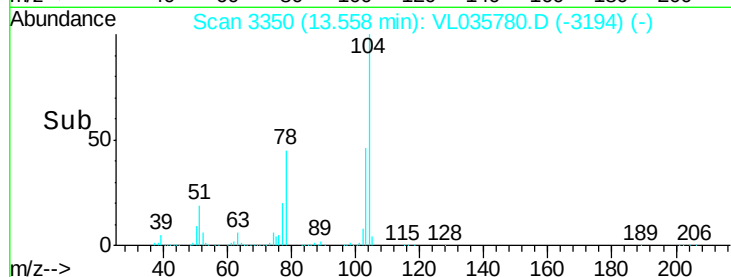
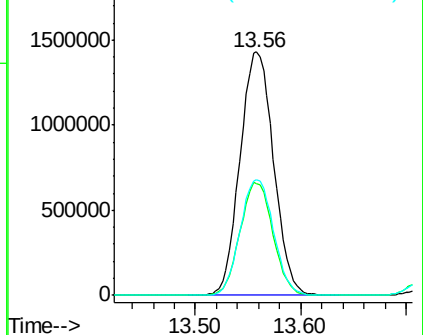
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 10.487 ppbv

RT: 14.70 min Scan# 3705

Delta R.T. -0.00 min

Lab File: VL035780.D

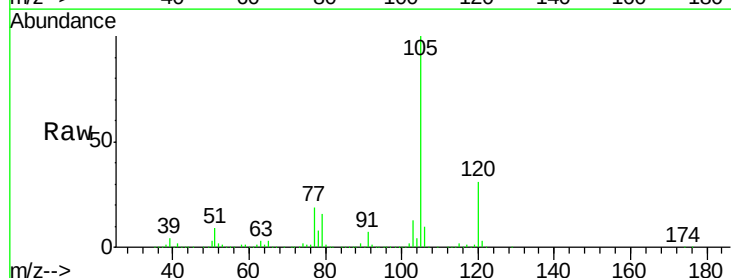
Acq: 13 Oct 2020 7:55

Tgt Ion:105 Resp: 5991213

Ion Ratio Lower Upper

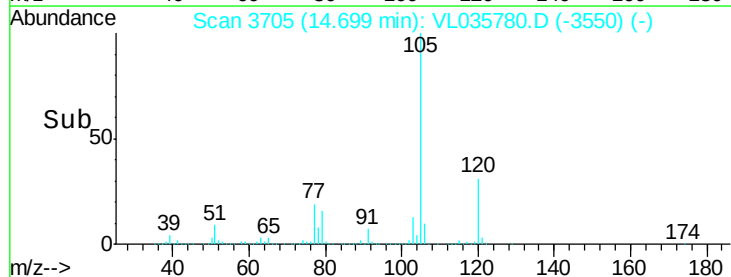
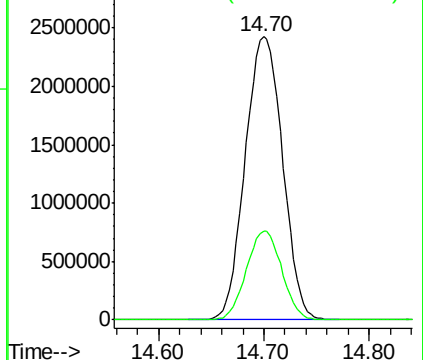
105 100

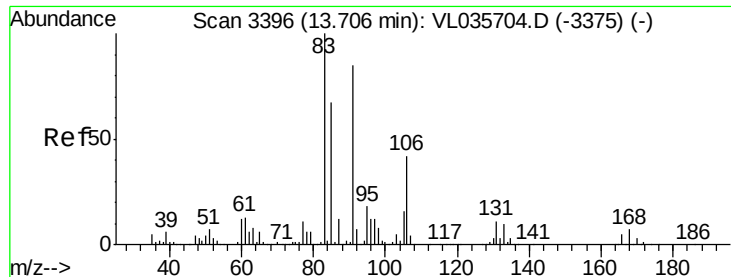
120 29.7 24.1 36.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





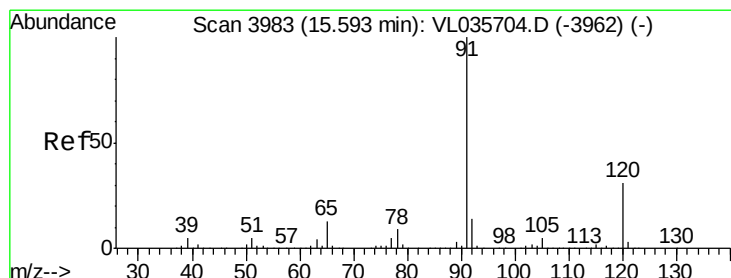
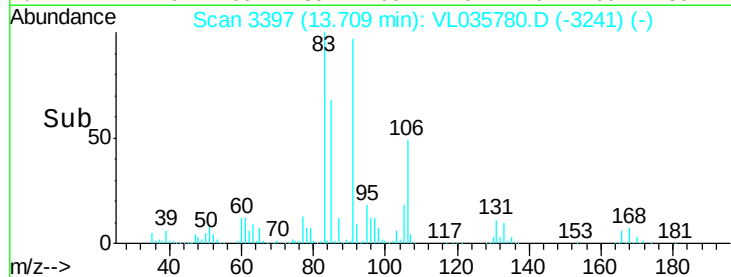
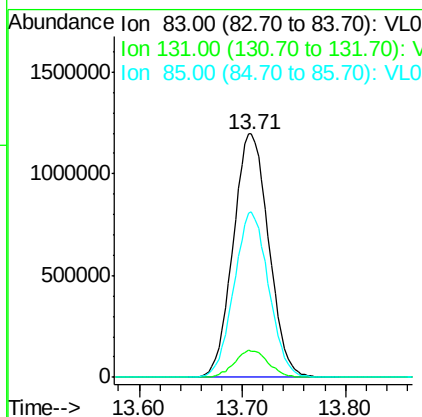
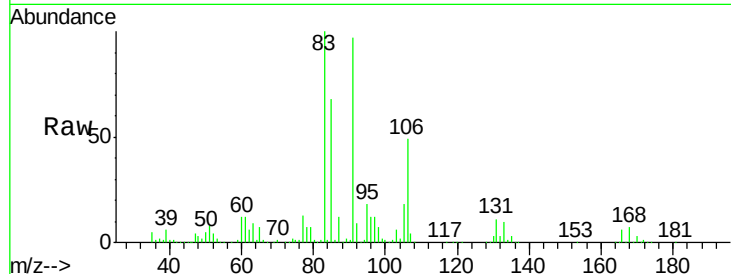
#63
1,1,2,2-Tetrachloroethane
Concen: 9.504 ppbv
RT: 13.71 min Scan# 3397
Delta R.T. 0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 83 Resp: 2870762
Ion Ratio Lower Upper
83 100
131 10.6 5.3 16.1
85 66.5 33.4 100.2

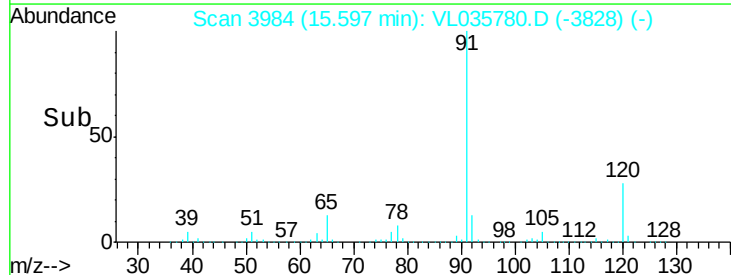
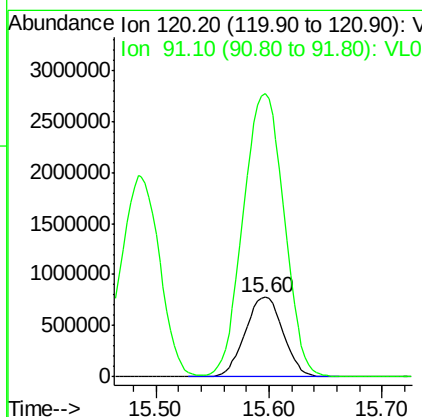
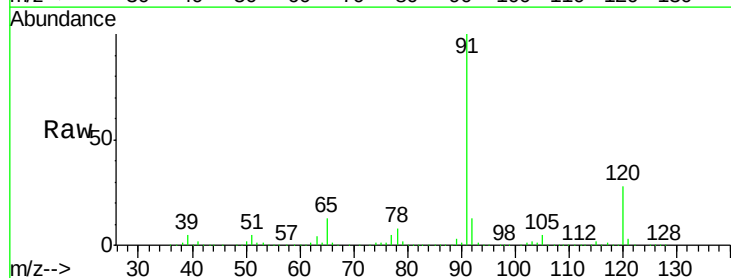
Manual Integrations
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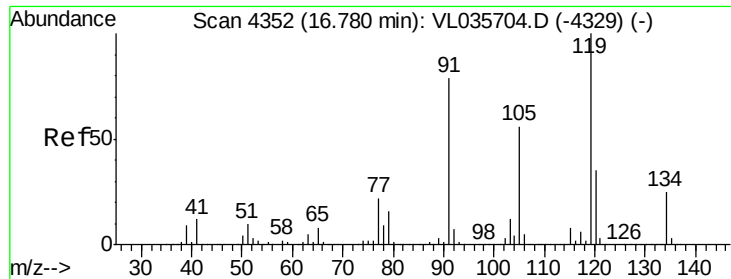
MMDadoda
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#64
n-propylbenzene
Concen: 10.958 ppbv
RT: 15.60 min Scan# 3984
Delta R.T. 0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Tgt Ion: 120 Resp: 1832329
Ion Ratio Lower Upper
120 100
91 381.1 300.4 450.6





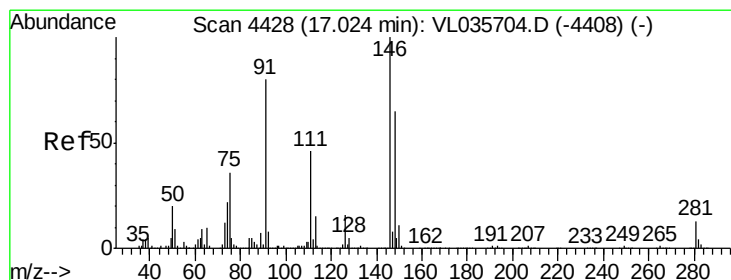
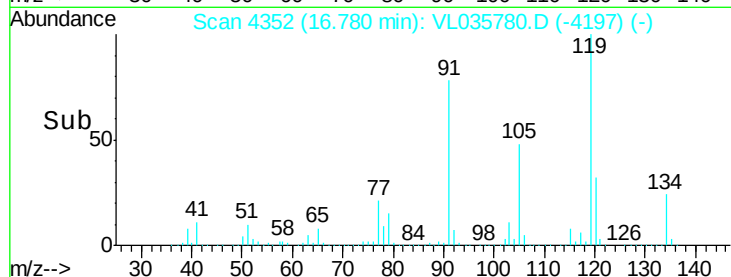
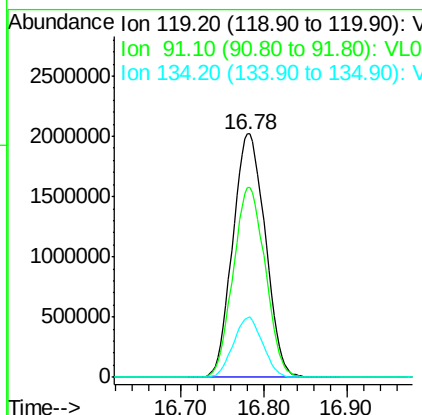
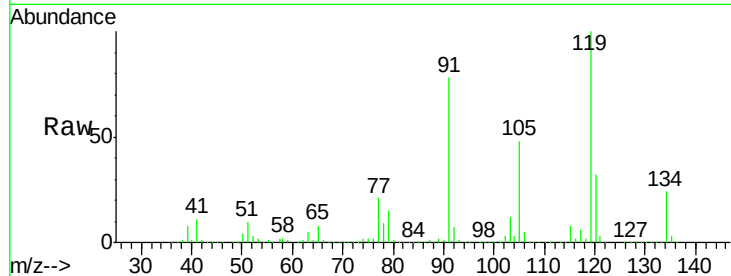
#65
 tert-Butylbenzene
 Concen: 10.589 ppbv
 RT: 16.78 min Scan# 4352
 Delta R.T. -0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 119 Resp: 5500295
 Ion Ratio Lower Upper
 119 100
 91 77.0 62.4 93.6
 134 22.4 18.2 27.2

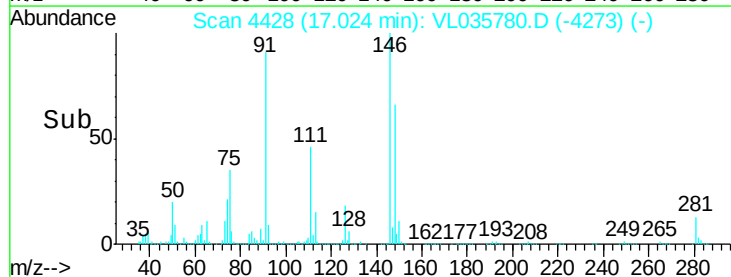
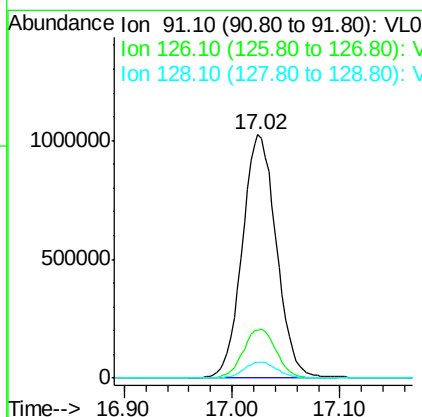
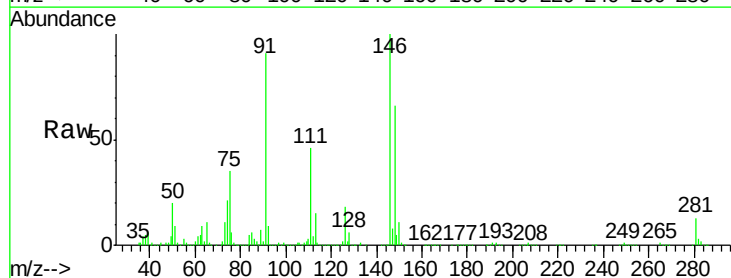
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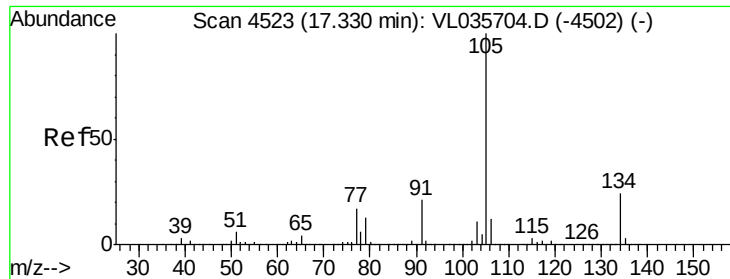
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#66
 Benzyl Chloride
 Concen: 14.269 ppbv
 RT: 17.02 min Scan# 4428
 Delta R.T. -0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Tgt Ion: 91 Resp: 2245666
 Ion Ratio Lower Upper
 91 100
 126 19.8 15.3 22.9
 128 6.4 5.0 7.4





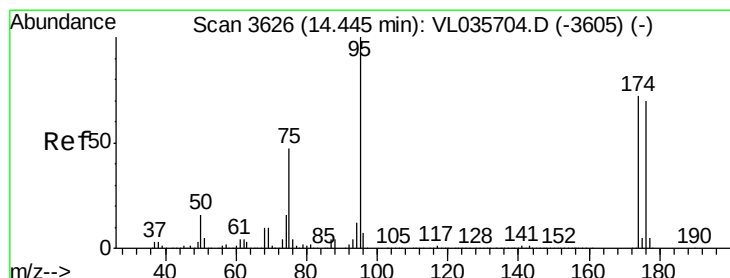
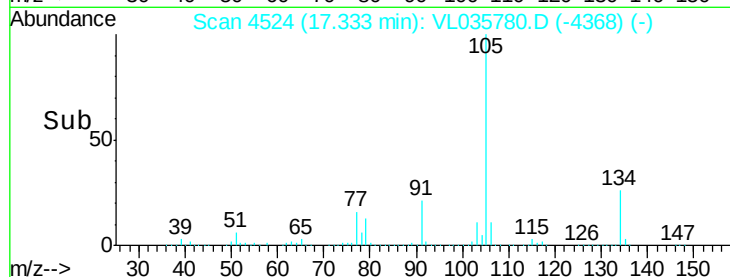
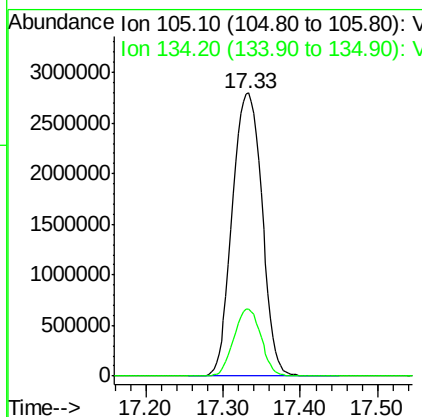
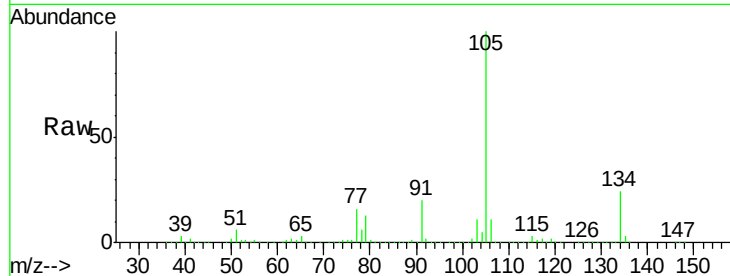
#67
 sec-Butylbenzene
 Concen: 10.391 ppbv
 RT: 17.33 min Scan# 4524
 Delta R.T. 0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 105 Resp: 7453567
 Ion Ratio Lower Upper
 105 100
 134 21.7 17.6 26.4

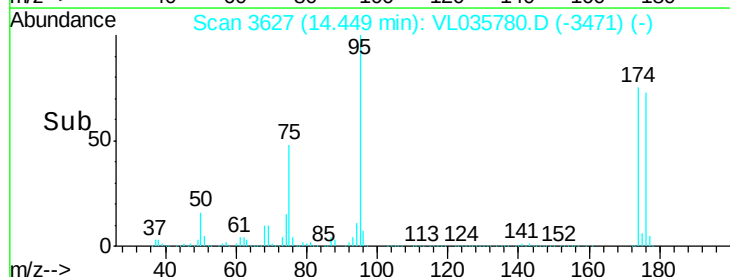
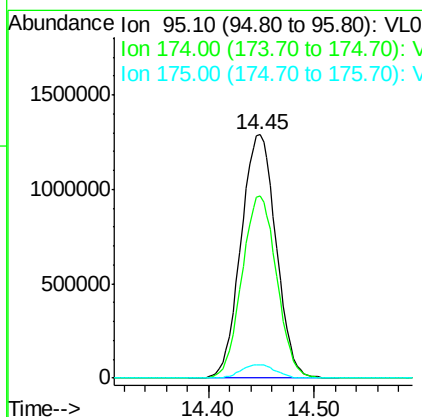
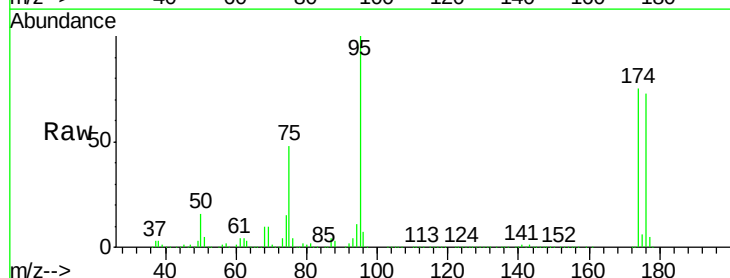
Manual Integrations
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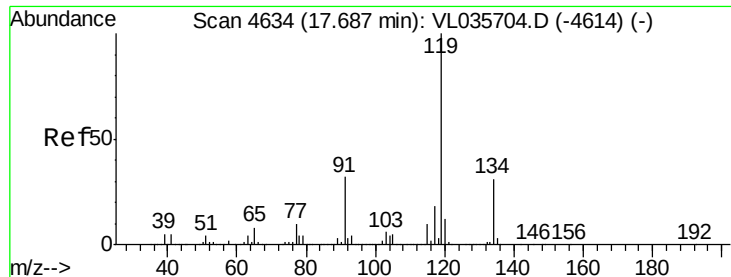
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 10/14/2020 2:12:12 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.579 ppbv
 RT: 14.45 min Scan# 3627
 Delta R.T. 0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Tgt Ion: 95 Resp: 2981876
 Ion Ratio Lower Upper
 95 100
 174 74.5 59.6 89.4
 175 5.4 4.2 6.4





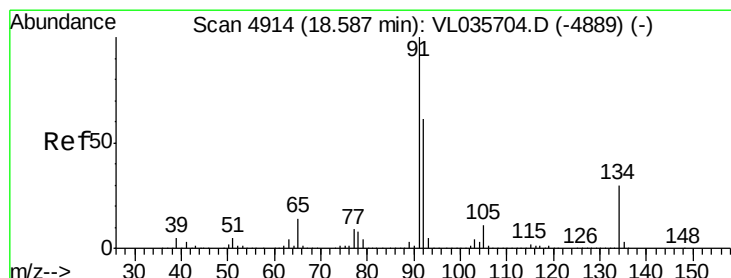
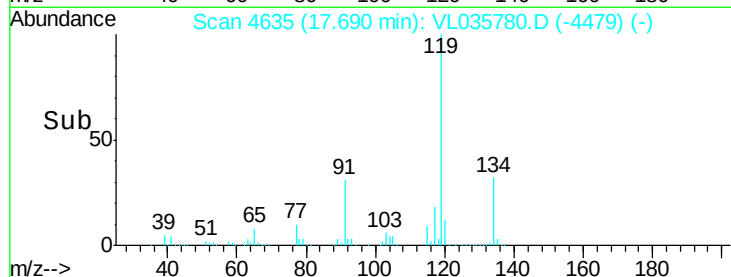
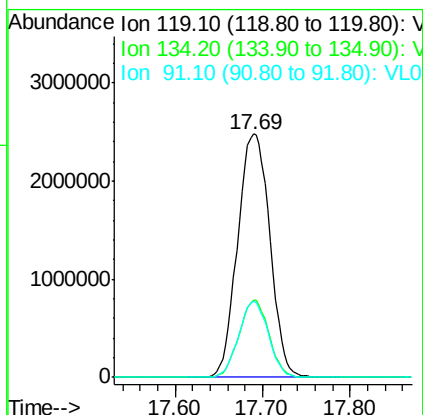
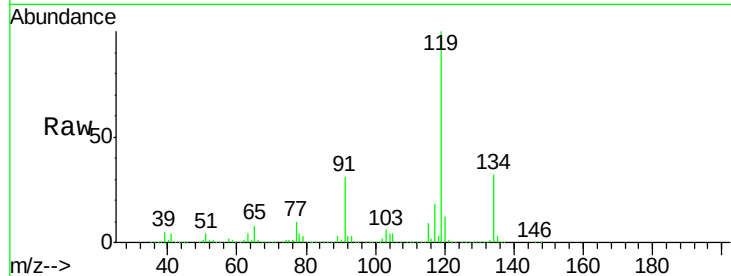
#69
p-Isopropyltoluene
Concen: 10.840 ppbv
RT: 17.69 min Scan# 4635
Delta R.T. 0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 119 Resp: 6326222
Ion Ratio Lower Upper
119 100
134 29.4 23.9 35.9
91 28.9 23.8 35.6

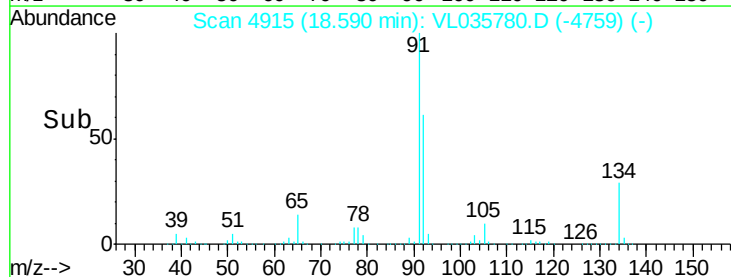
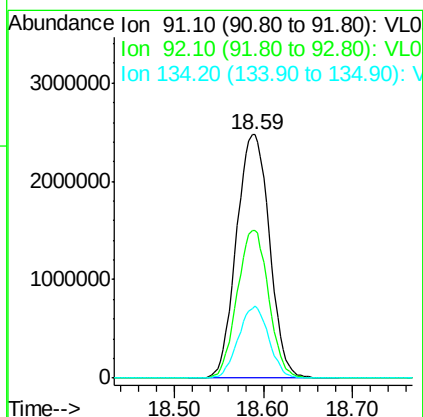
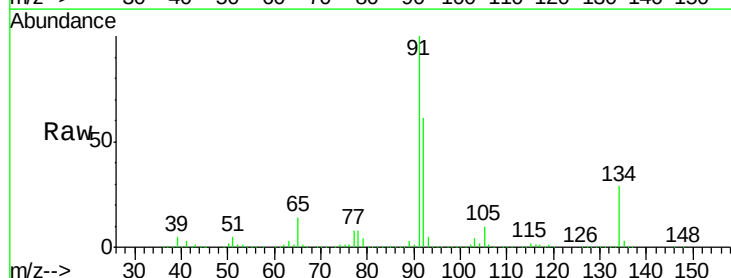
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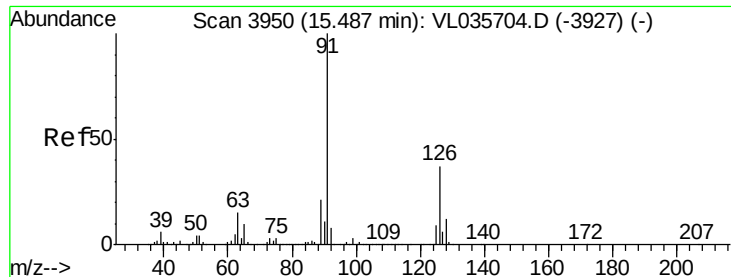
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#70
n-Butylbenzene
Concen: 10.595 ppbv
RT: 18.59 min Scan# 4915
Delta R.T. 0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Tgt Ion: 91 Resp: 6367076
Ion Ratio Lower Upper
91 100
92 57.9 47.0 70.4
134 27.2 21.9 32.9





#71

2-Chlorotoluene

Concen: 11.119 ppbv

RT: 15.48 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 91 Resp: 4633742

Ion Ratio Lower Upper

91 100

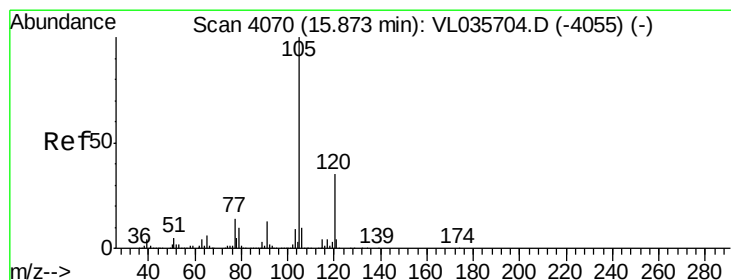
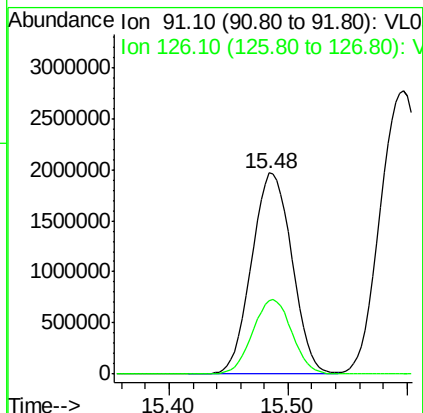
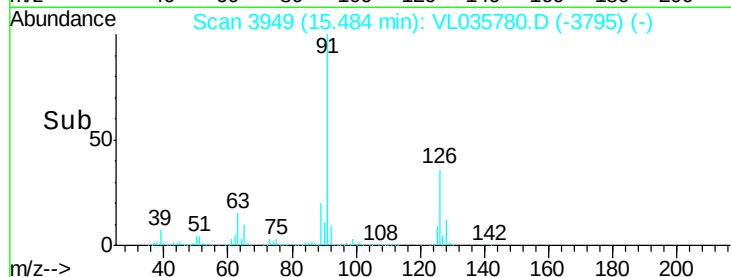
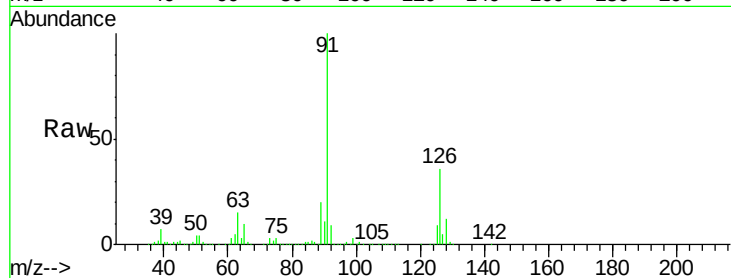
126 36.0 14.4 57.4

Manual Integrations

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#72

4-Ethyltoluene

Concen: 11.311 ppbv

RT: 15.87 min Scan# 4070

Delta R.T. -0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Tgt Ion: 105 Resp: 4935479

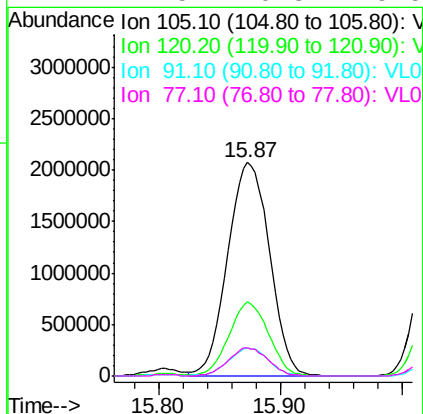
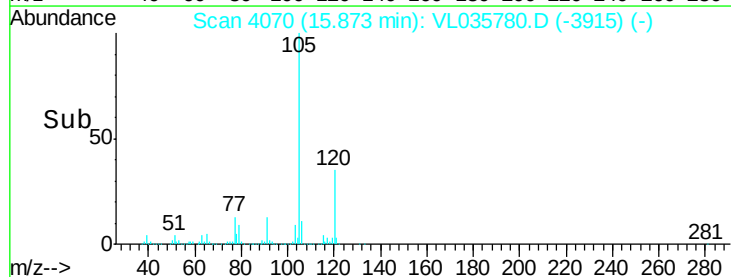
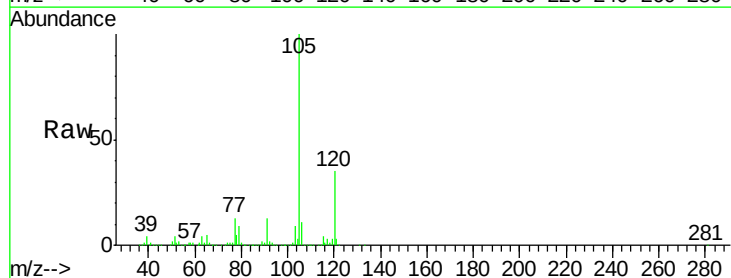
Ion Ratio Lower Upper

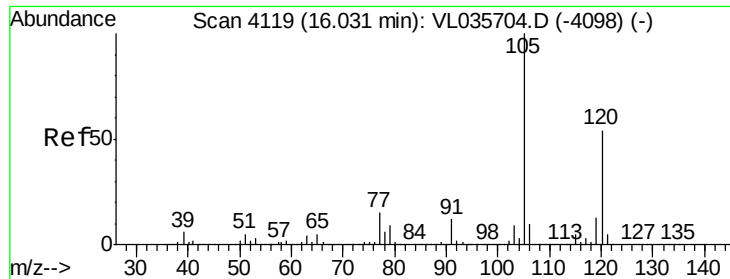
105 100

120 32.9 26.5 39.7

91 12.4 10.2 15.2

77 12.5 10.3 15.5





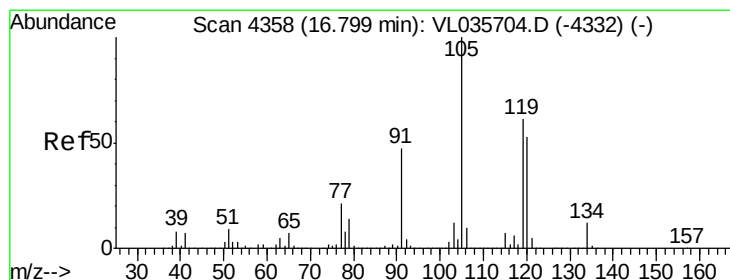
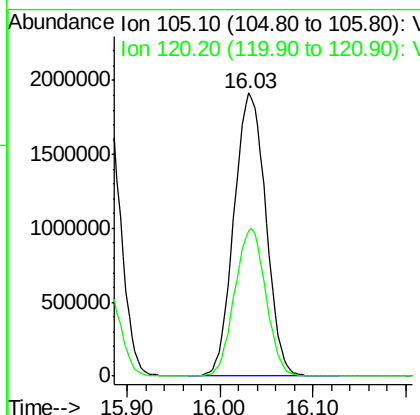
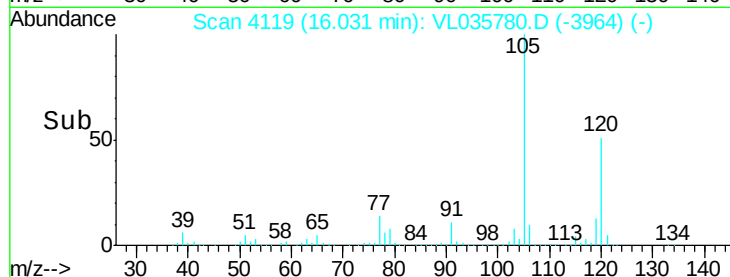
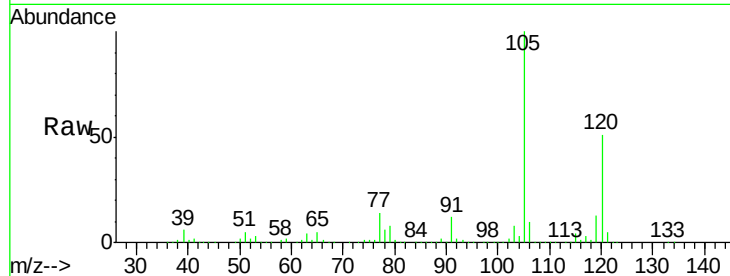
#73
 1,3,5-Trimethylbenzene
 Concen: 11.037 ppbv
 RT: 16.03 min Scan# 4119
 Delta R.T. -0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:105 Resp: 4551083
 Ion Ratio Lower Upper
 105 100
 120 51.4 43.0 64.4

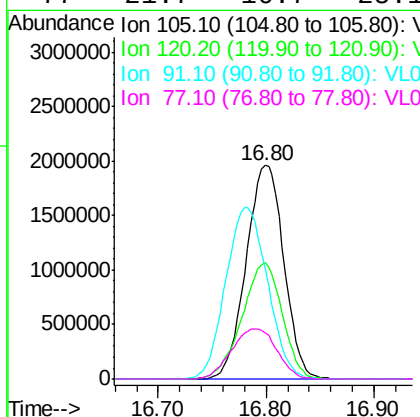
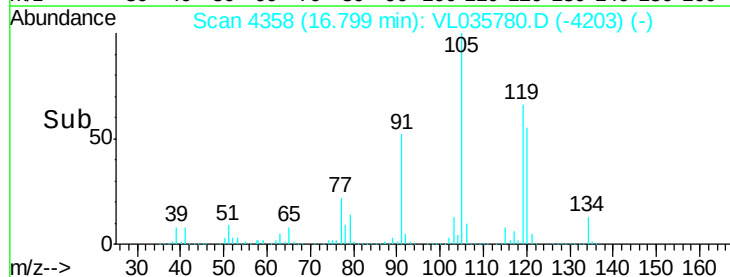
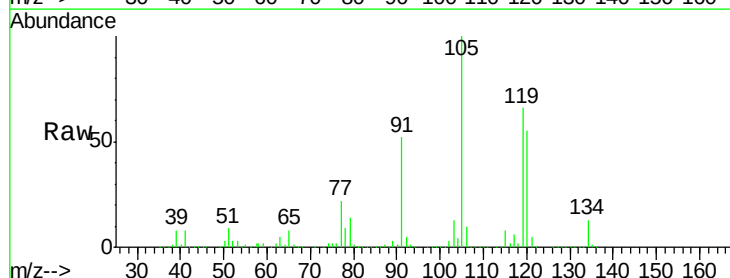
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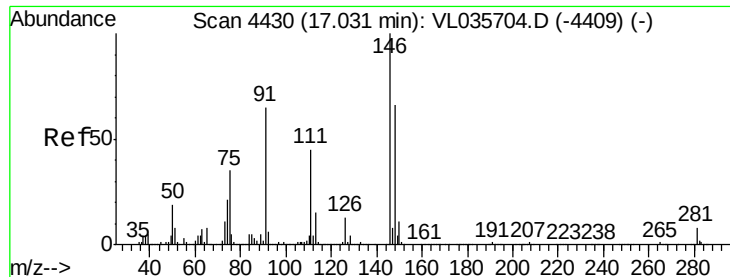
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#74
 1,2,4-Trimethylbenzene
 Concen: 10.219 ppbv
 RT: 16.80 min Scan# 4358
 Delta R.T. -0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Tgt Ion:105 Resp: 4750044
 Ion Ratio Lower Upper
 105 100
 120 54.4 42.5 63.7
 91 51.5 37.7 56.5
 77 21.7 16.7 25.1





#75

1,3-Dichlorobenzene

Concen: 9.956 ppbv

RT: 17.03 min Scan# 4431

Delta R.T. 0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion:146 Resp: 3159668

Ion Ratio Lower Upper

146 100

111 44.1 22.4 67.0

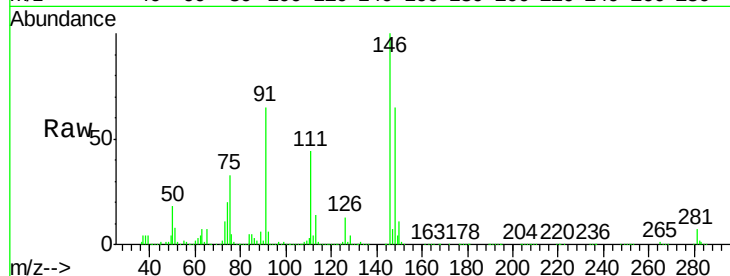
148 65.5 33.0 99.0

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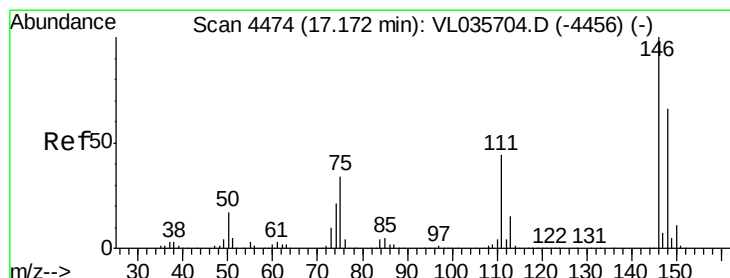
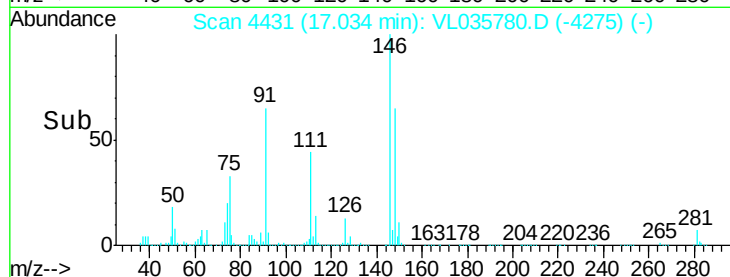
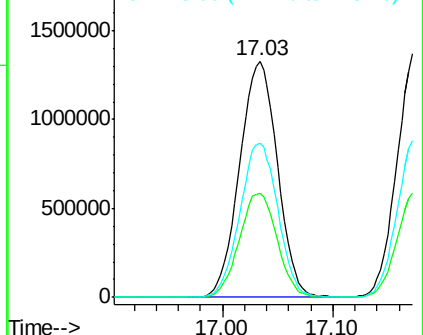
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 10.569 ppbv

RT: 17.18 min Scan# 4475

Delta R.T. 0.00 min

Lab File: VL035780.D

Acq: 13 Oct 2020 7:55

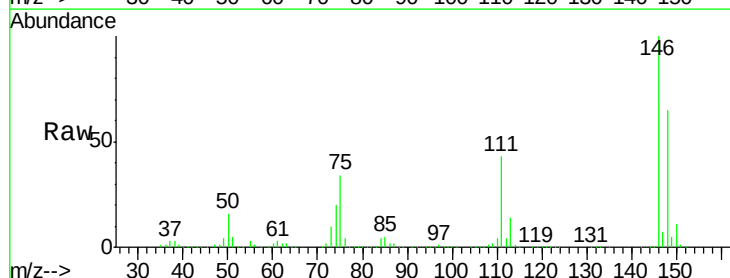
Tgt Ion:146 Resp: 3205971

Ion Ratio Lower Upper

146 100

111 42.5 21.4 64.3

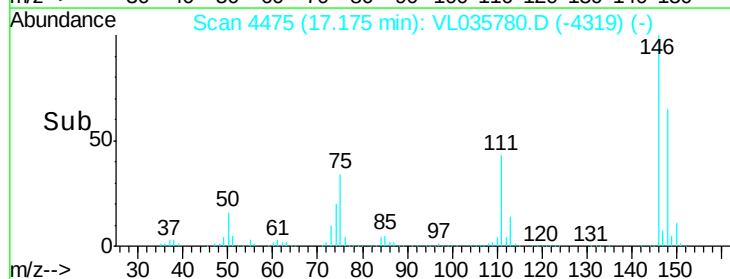
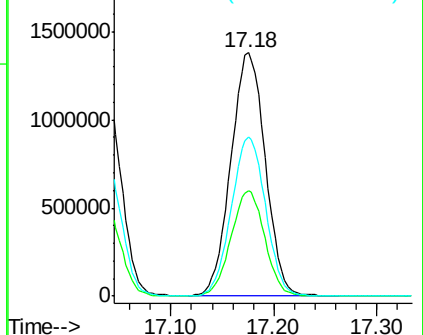
148 65.3 32.6 98.0

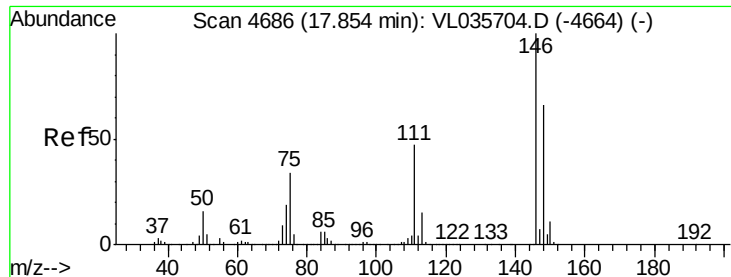


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





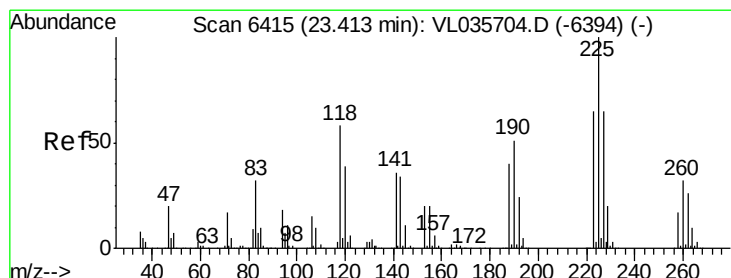
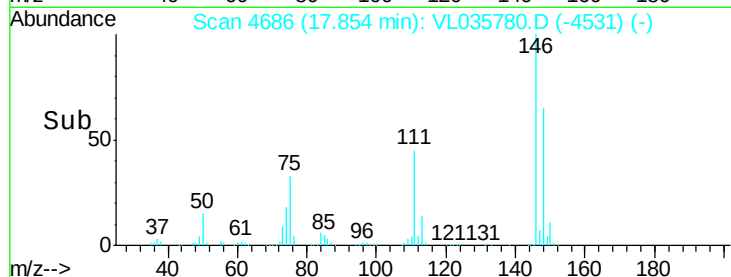
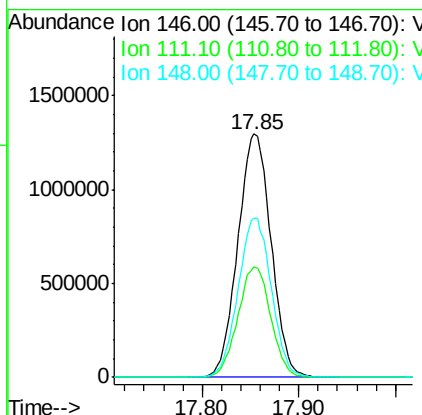
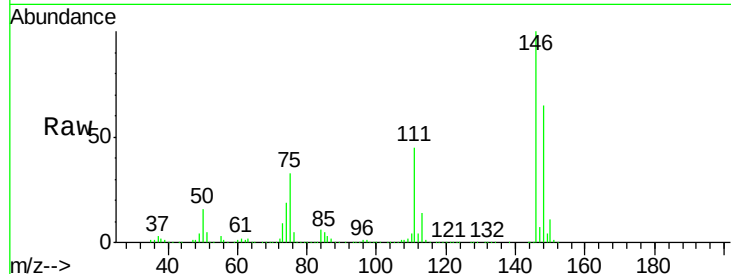
#77
 1,2-Dichlorobenzene
 Concen: 10.338 ppbv
 RT: 17.85 min Scan# 4686
 Delta R.T. -0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:146 Resp: 3098688
 Ion Ratio Lower Upper
 146 100
 111 45.1 22.9 68.5
 148 65.3 32.6 98.0

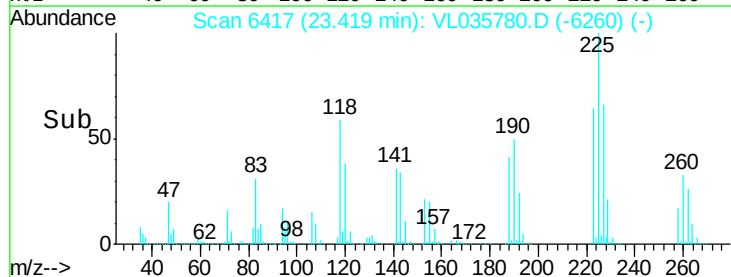
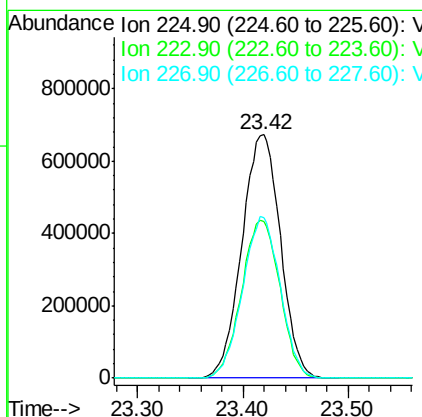
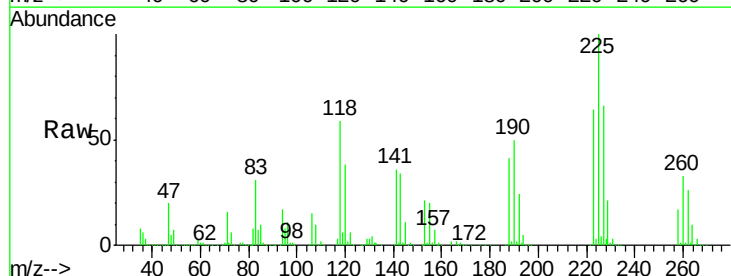
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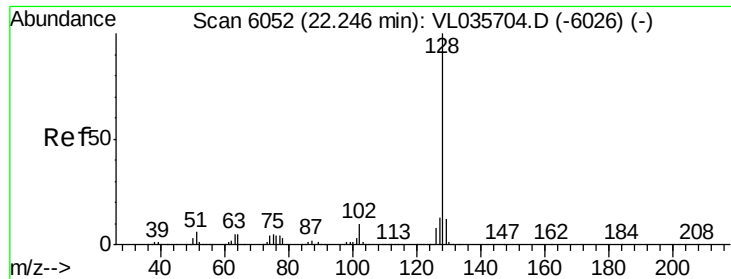
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#78
 Hexachloro-1,3-Butadiene
 Concen: 10.380 ppbv
 RT: 23.42 min Scan# 6417
 Delta R.T. 0.01 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Tgt Ion:225 Resp: 1716573
 Ion Ratio Lower Upper
 225 100
 223 64.4 51.3 76.9
 227 64.6 51.6 77.4





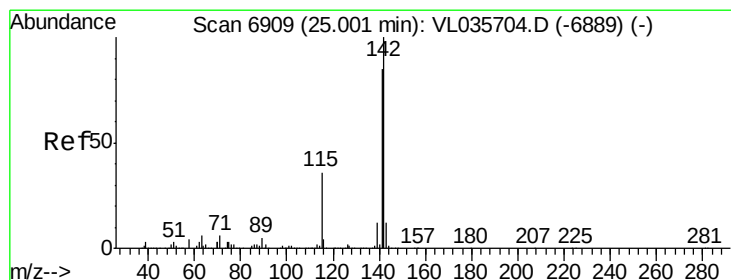
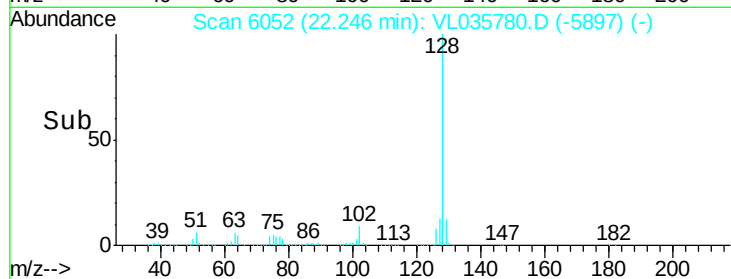
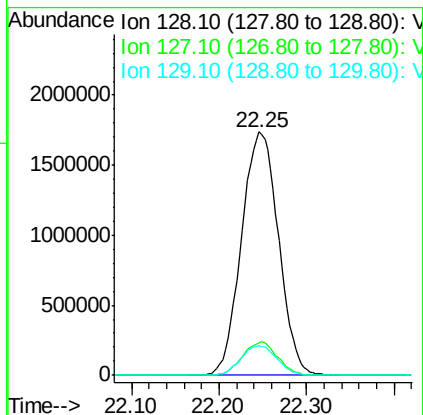
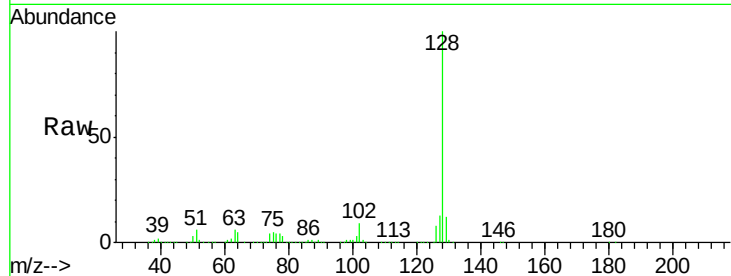
#79
Naphthalene
Concen: 11.494 ppbv
RT: 22.25 min Scan# 6052
Delta R.T. -0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.6	15.8
129	12.2	9.4	14.0

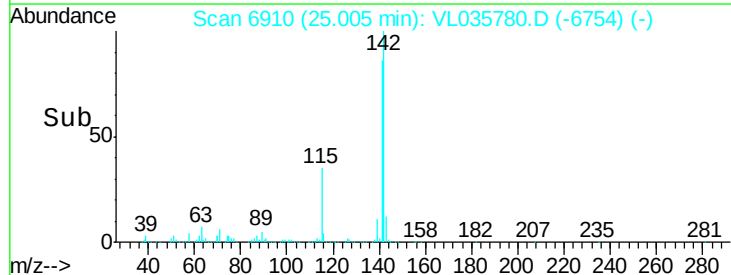
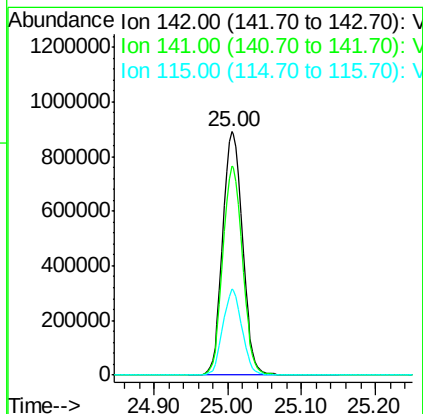
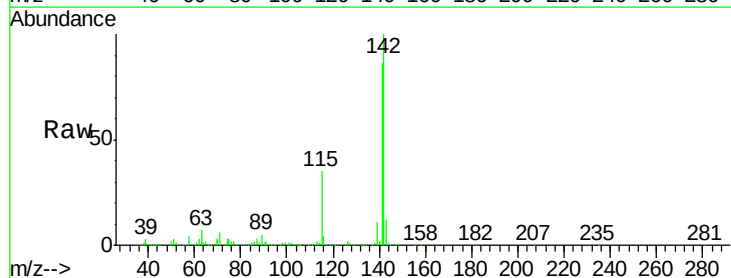
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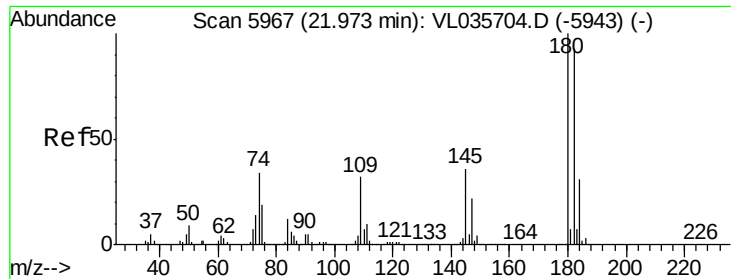
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#80
Naphthalene, 2-methyl-
Concen: 16.032 ppbv
RT: 25.00 min Scan# 6910
Delta R.T. 0.00 min
Lab File: VL035780.D
Acq: 13 Oct 2020 7:55

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.0	68.2	102.4
115	34.0	27.8	41.6





#81
 1,2,4-Trichlorobenzene
 Concen: 11.150 ppbv
 RT: 21.98 min Scan# 5968
 Delta R.T. 0.00 min
 Lab File: VL035780.D
 Acq: 13 Oct 2020 7:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.2	114.2
184	31.1	24.6	37.0

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