

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121719\
 Data File : VL034493.D
 Acq On : 17 Dec 2019 13:16
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 12/19/2019 3:46:48 PM

Quant Time: Dec 18 04:32:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	941729	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1906503	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2116204	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1680623	9.44	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.02	85	1681089	9.867	ppbv 98
3) Chlorodifluoromethane	2.96	51	1109792	9.445	ppbv 98
4) Chloromethane	3.11	50	580224	8.372	ppbv 99
5) Vinyl Chloride	3.23	62	571985	8.809	ppbv 96
6) Bromomethane	3.45	94	325223	9.954	ppbv 94
7) Chloroethane	3.54	64	213165	9.044	ppbv 94
8) Dichlorotetrafluoroethane	3.16	85	1368507	8.945	ppbv 99
9) Propene	2.98	41	423282	8.114	ppbv 98
10) Heptane	8.15	43	1159205	8.611	ppbv 99
11) Trichlorofluoromethane	3.94	101	1605799	9.471	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1067626	9.482	ppbv 99
13) Ethanol	3.59	45	127901	8.802	ppbv 97
14) Bromoethene	3.72	108	423273	9.245	ppbv 99
15) Acetone	3.84	43	1135312	8.419	ppbv 100
16) 1,3-Butadiene	3.30	39	525553	8.947	ppbv 99
17) tert-Butyl alcohol	4.29	59	1167284	10.298	ppbv 100
18) 1,1-Dichloroethene	4.28	96	459506	9.329	ppbv 94
19) Isopropyl Alcohol	3.96	45	914681	10.582	ppbv 100
20) Methylene Chloride	4.34	84	407354	8.519	ppbv 95
21) Allyl Chloride	4.41	41	775805	9.601	ppbv 100
22) trans-1,2-Dichloroethene	4.89	96	464774	9.361	ppbv 98
23) Vinyl Acetate	5.08	43	1626053	9.231	ppbv 98
24) 1,1-Dichloroethane	5.01	63	1207549	8.924	ppbv 99
25) Ethyl Acetate	5.69	43	2005137	8.333	ppbv 100
26) Hexane	5.70	57	887504	8.583	ppbv 97
27) Carbon Disulfide	4.55	76	1197359	10.632	ppbv 99
28) Methyl tert-Butyl Ether	5.03	73	1533457	8.944	ppbv 100
29) Chloroform	5.77	83	1479216	8.834	ppbv 96
30) Cyclohexane	7.16	84	697908	8.928	ppbv 99
31) cis-1,2-Dichloroethene	5.56	61	934233	8.743	ppbv 96
32) 1,1,1-Trichloroethane	6.53	97	1508363	9.608	ppbv 100
34) 2-Butanone	5.25	43	1339560	8.536	ppbv 99
35) Carbon Tetrachloride	7.04	117	1624741	9.912	ppbv 99
36) Benzene	6.92	78	1640368	8.607	ppbv 97
37) 1,2-Dichloroethane	6.33	62	1269699	8.968	ppbv 100
38) Trichloroethene	7.87	130	671230	8.582	ppbv 96
39) 1,2-Dichloropropane	7.65	63	694438	9.458	ppbv 96
40) 1,4-Dioxane	7.86	88	268176	8.361	ppbv # 98
41) Tetrahydrofuran	6.06	42	751533	8.538	ppbv 99
42) Bromodichloromethane	7.83	83	1644122	9.285	ppbv 100
43) Methyl Methacrylate	8.05	69	723574	9.154	ppbv 96

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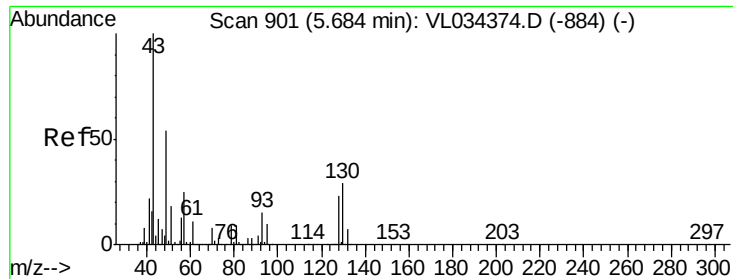
Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	3013861	8.653	ppbv	99
45) t-1,3-Dichloropropene	9.32	75	945006	9.322	ppbv	99
46) cis-1,3-Dichloropropene	8.74	75	1054326	9.259	ppbv	98
47) 1,1,2-Trichloroethane	9.52	97	720656	8.823	ppbv	97
48) Dibromochloromethane	10.35	129	1372576	9.788	ppbv	99
49) Bromoform	13.10	173	1254548	10.022	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	1993167	8.778	ppbv	100
51) 2-Hexanone	10.18	43	1665066	8.755	ppbv	98
52) Tetrachloroethene	11.27	164	639063	7.750	ppbv	96
53) Toluene	9.85	91	1930091	8.916	ppbv	99
54) 1,2-Dibromoethane	10.66	107	1145152	9.145	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.18	131	932580	9.009	ppbv	96
57) Chlorobenzene	12.20	112	1525486	7.974	ppbv	97
58) Ethyl Benzene	12.76	91	2709056	8.249	ppbv	99
59) m/p-Xylene	13.05	91	4581659m	16.140	ppbv	
60) o-Xylene	13.75	91	2304530	8.211	ppbv	100
61) Styrene	13.59	104	1630755	8.057	ppbv	100
62) Isopropylbenzene	14.73	105	3061011	8.246	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.74	83	1674773	7.938	ppbv	100
64) n-propylbenzene	15.62	120	797420	8.272	ppbv	97
65) tert-Butylbenzene	16.81	119	2791985	8.373	ppbv	100
66) Benzyl Chloride	17.06	91	1336631	10.420	ppbv	99
67) sec-Butylbenzene	17.36	105	3843508	8.240	ppbv	100
69) p-Isopropyltoluene	17.72	119	3196448	8.257	ppbv	100
70) n-Butylbenzene	18.62	91	3408591	8.184	ppbv	99
71) 2-Chlorotoluene	15.52	91	2413186	8.153	ppbv	100
72) 4-Ethyltoluene	15.90	105	2634435	8.123	ppbv	100
73) 1,3,5-Trimethylbenzene	16.06	105	2561127	8.068	ppbv	98
74) 1,2,4-Trimethylbenzene	16.83	105	2679638	7.946	ppbv #	90
75) 1,3-Dichlorobenzene	17.07	146	1484255	7.658	ppbv	100
76) 1,4-Dichlorobenzene	17.21	146	1490204	7.917	ppbv	100
77) 1,2-Dichlorobenzene	17.89	146	1477224	7.891	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	1240573	7.713	ppbv	99
79) Naphthalene	22.29	128	2249753	7.696	ppbv	99
80) Naphthalene, 2-methyl-	25.03	142	605990	4.591	ppbv	99
81) 1,2,4-Trichlorobenzene	22.02	180	1267727	7.059	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.00 min

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MSVOA_L

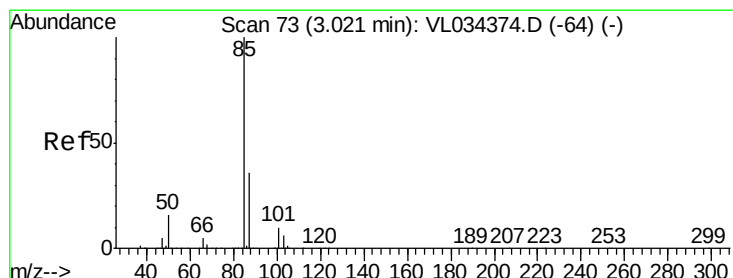
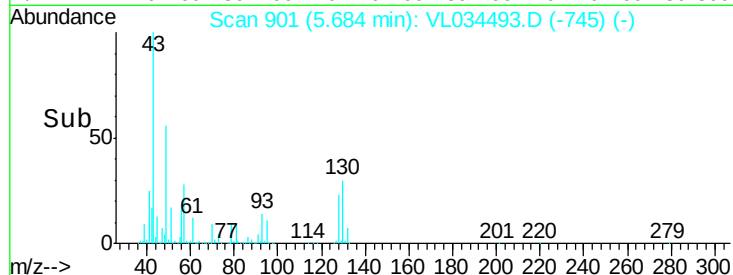
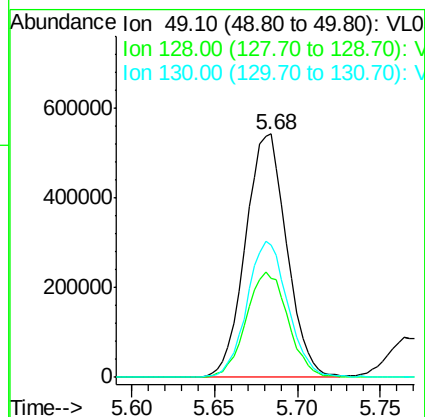
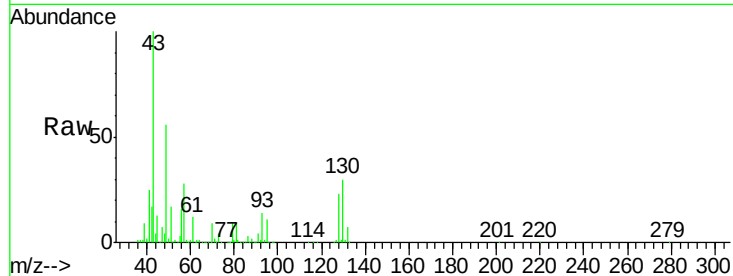
ClientSampleId :

VSTDCCC010

Tot Ion:	49	Resp:	941729
Ion	Ratio	Lower	Upper
49	100		
128	44.1	21.8	65.3
130	55.6	28.0	84.0

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#2

Dichlorodifluoromethane

Concen: 9.867 ppbv

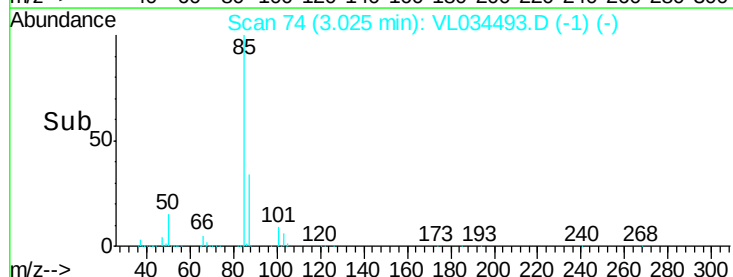
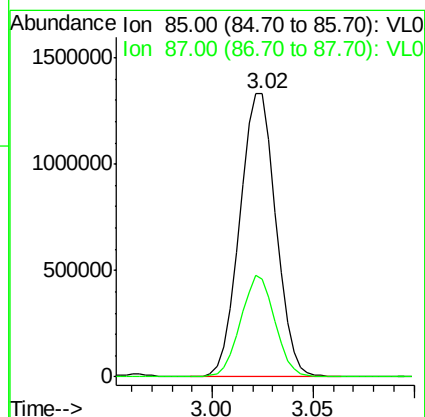
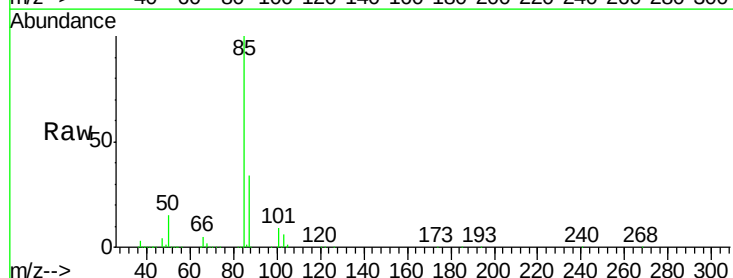
RT: 3.02 min Scan# 74

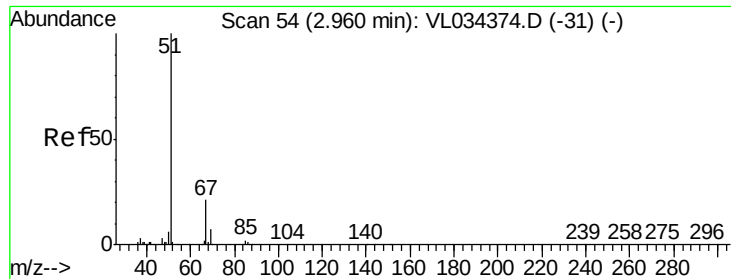
Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Tgt Ion:	85	Resp:	1681089
Ion	Ratio	Lower	Upper
85	100		
87	34.5	28.5	42.7





#3

Chlorodifluoromethane

Concen: 9.445 ppbv

RT: 2.96 min Scan# 54

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Tot Ion: 51 Resp: 1109792

Ion Ratio Lower Upper

51 100

67 21.1 16.2 24.2

Instrument :

MSVOA_L

ClientSampleId :

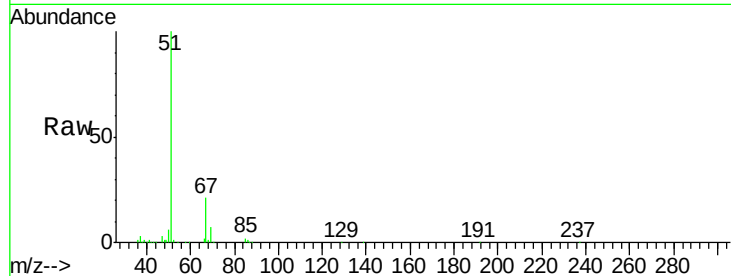
VSTDC010

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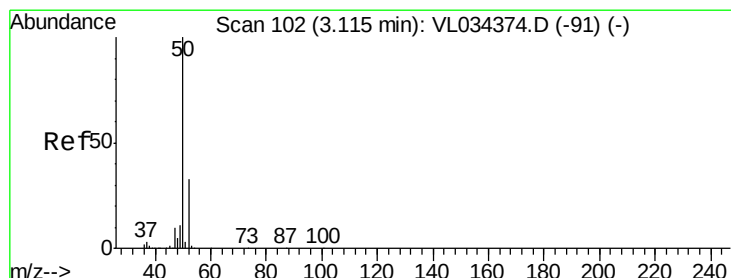
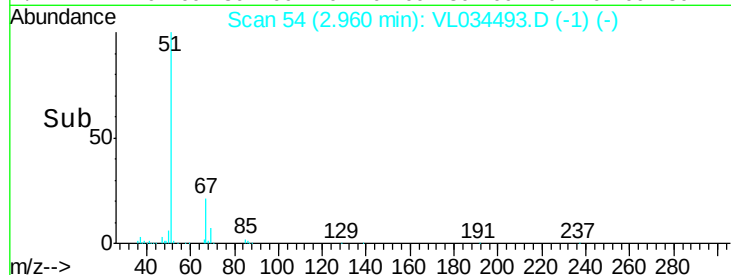
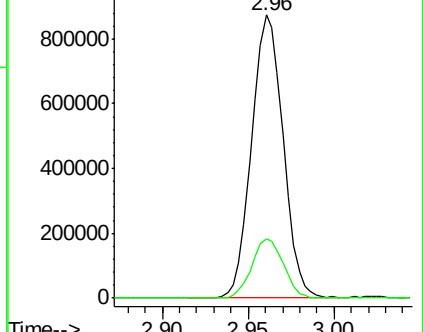
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.372 ppbv

RT: 3.11 min Scan# 102

Delta R.T. 0.00 min

Lab File: VL034493.D

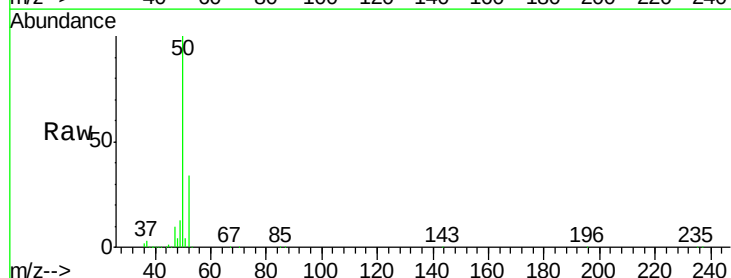
Acq: 17 Dec 2019 13:16

Tgt Ion: 50 Resp: 580224

Ion Ratio Lower Upper

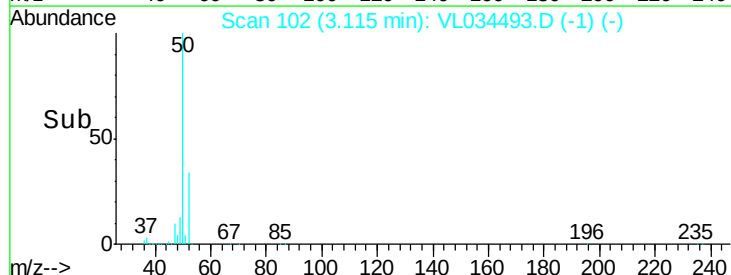
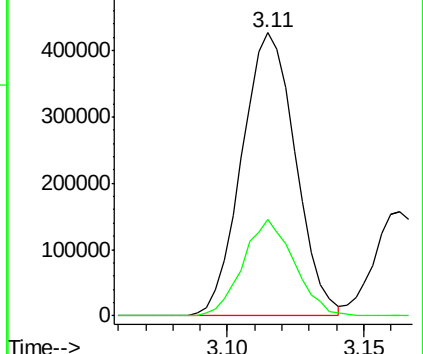
50 100

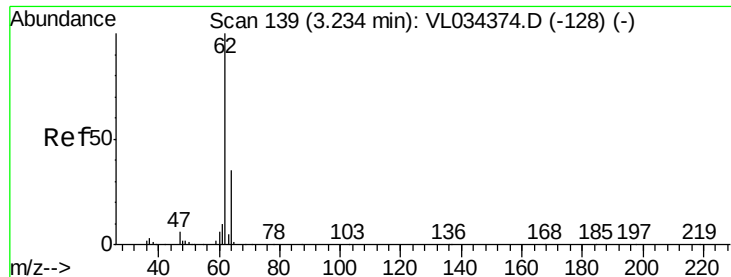
52 34.1 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.809 ppbv

RT: 3.23 min Scan# 139

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 571985

Ion Ratio Lower Upper

62 100

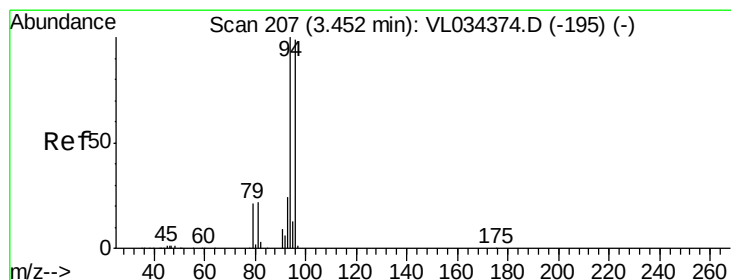
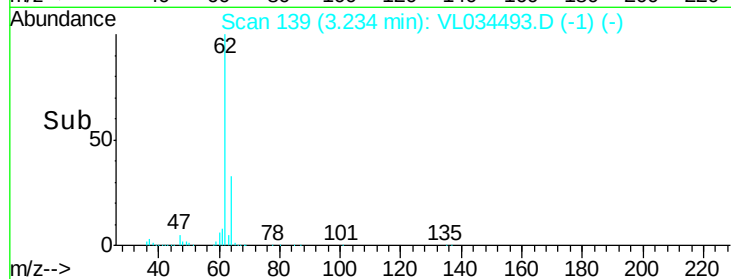
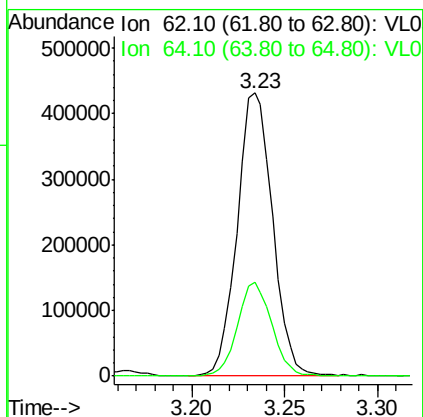
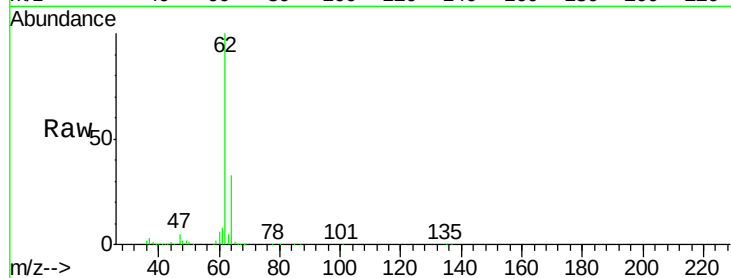
64 33.1 28.4 42.6

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#6

Bromomethane

Concen: 9.954 ppbv

RT: 3.45 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL034493.D

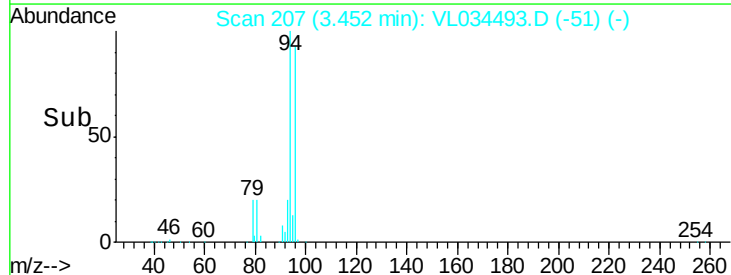
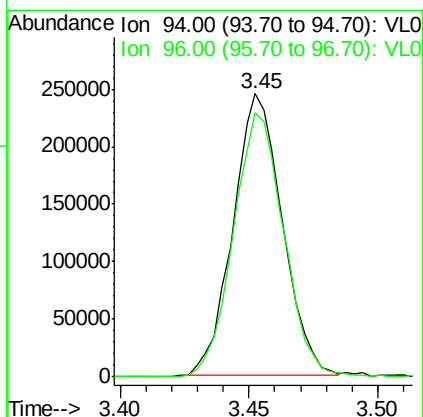
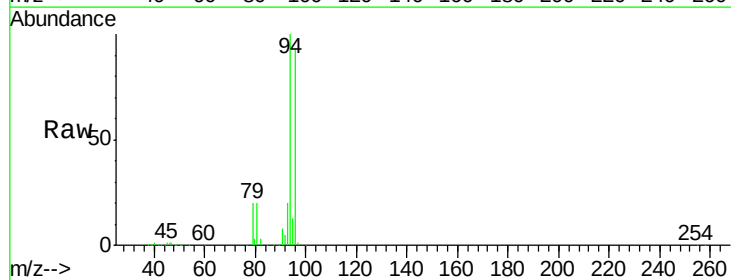
Acq: 17 Dec 2019 13:16

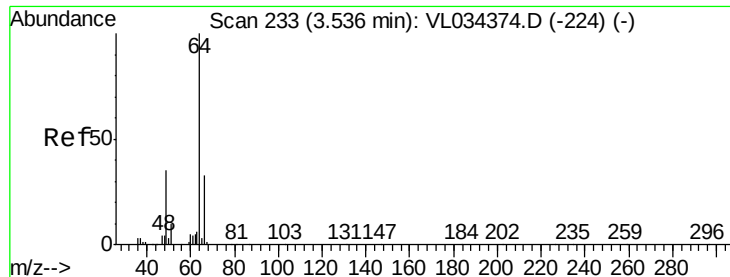
Tgt Ion: 94 Resp: 325223

Ion Ratio Lower Upper

94 100

96 93.0 79.5 119.3





#7

Chloroethane

Concen: 9.044 ppbv

RT: 3.54 min Scan# 234

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 213165

Ion Ratio Lower Upper

64 100

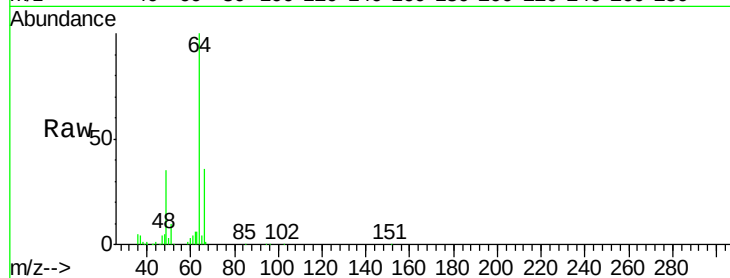
66 35.9 26.0 39.0

Manual Integrations

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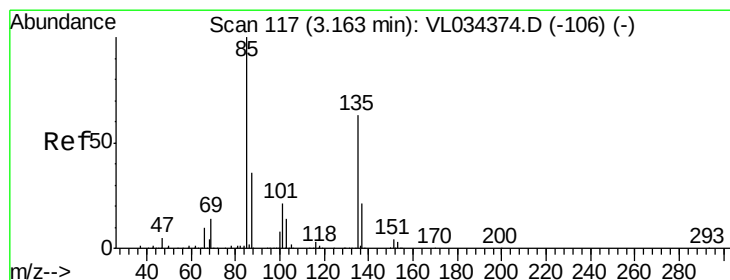
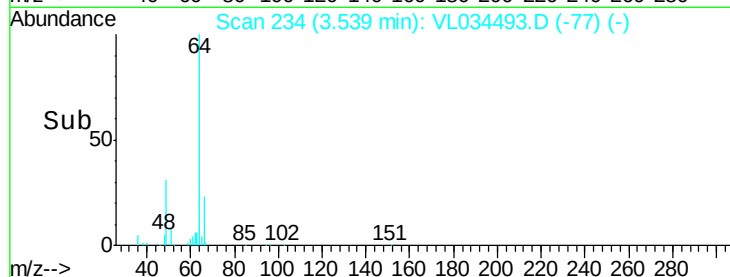
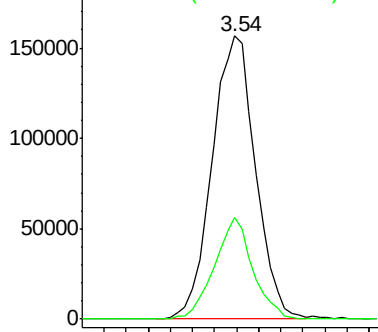
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 8.945 ppbv

RT: 3.16 min Scan# 117

Delta R.T. 0.00 min

Lab File: VL034493.D

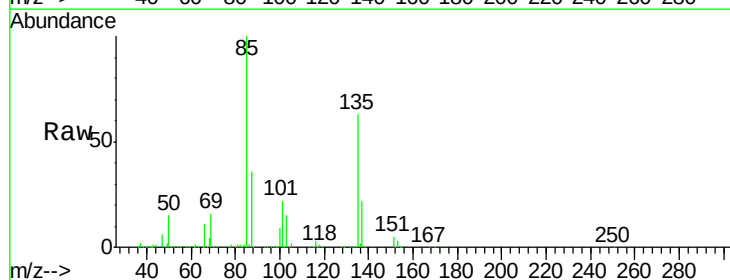
Acq: 17 Dec 2019 13:16

Tgt Ion: 85 Resp: 1368507

Ion Ratio Lower Upper

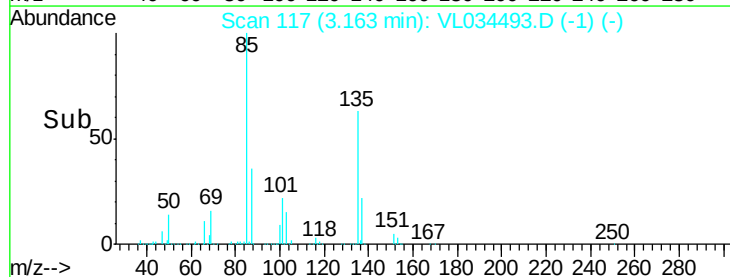
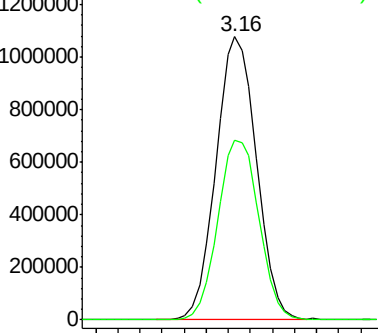
85 100

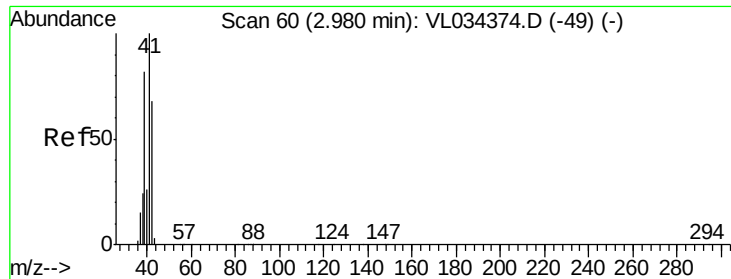
135 64.9 51.1 76.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 8.114 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

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ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 423282

Ion Ratio Lower Upper

41 100

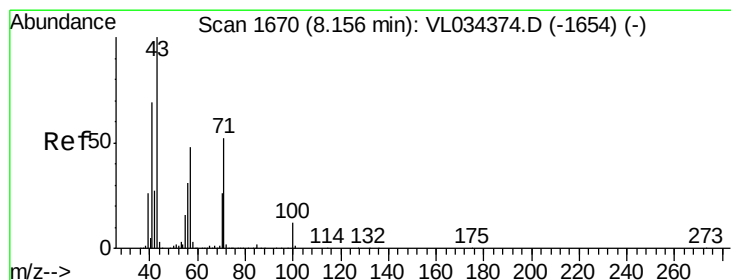
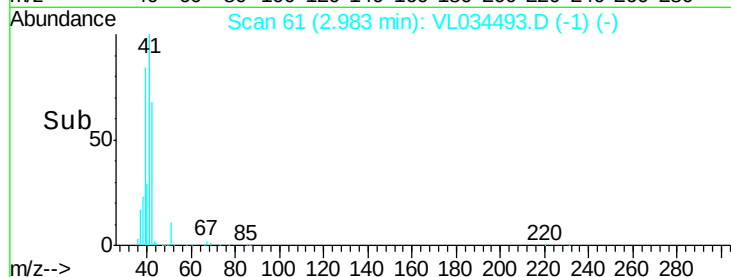
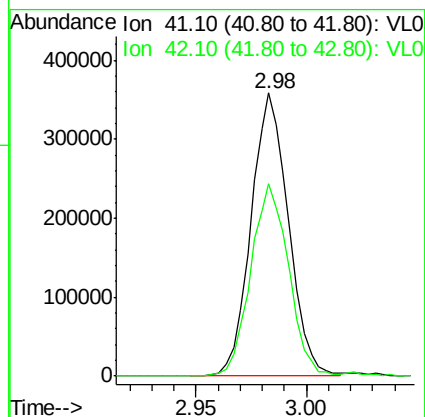
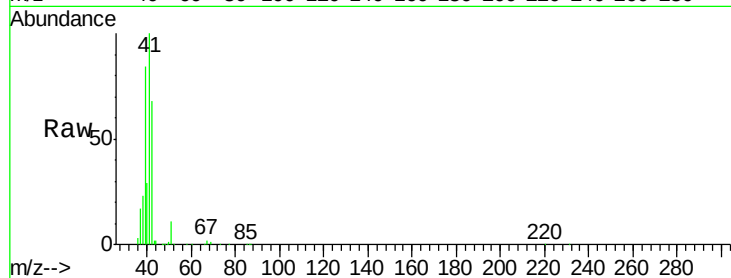
42 69.9 54.6 82.0

Manual Integrations

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#10

Heptane

Concen: 8.611 ppbv

RT: 8.15 min Scan# 1669

Delta R.T. -0.00 min

Lab File: VL034493.D

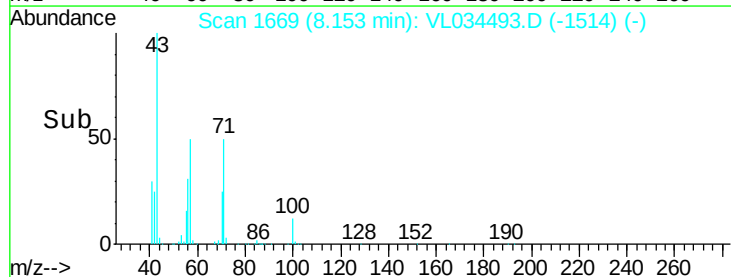
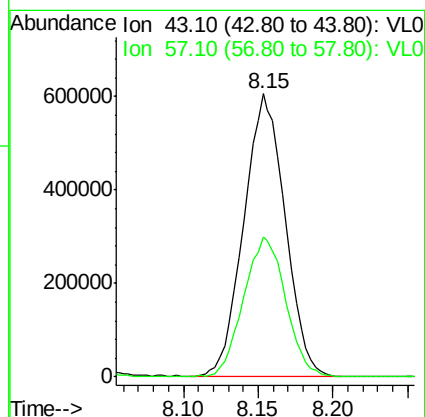
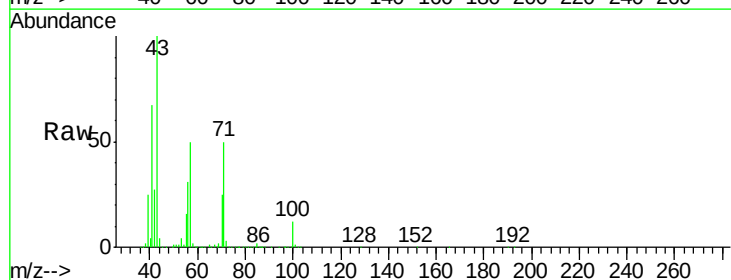
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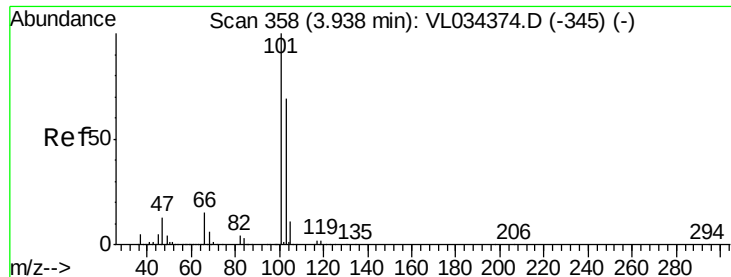
Tgt Ion: 43 Resp: 1159205

Ion Ratio Lower Upper

43 100

57 50.6 40.2 60.2





#11

Trichlorofluoromethane

Concen: 9.471 ppbv

RT: 3.94 min Scan# 358

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

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Tot Ion:101 Resp: 1605799

Ion Ratio Lower Upper

101 100

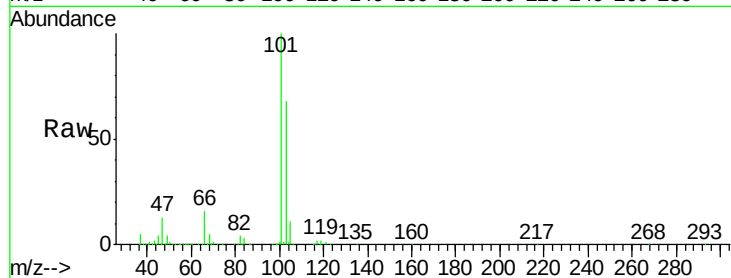
103 68.4 55.4 83.0

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1200000

1000000

800000

600000

400000

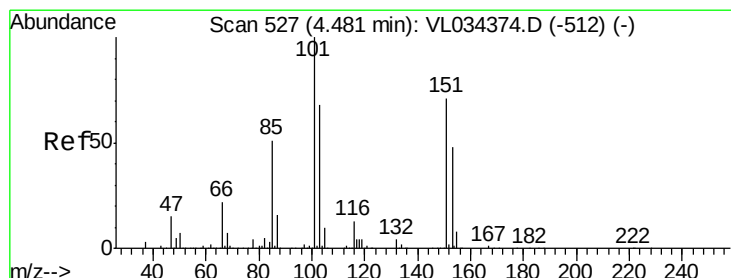
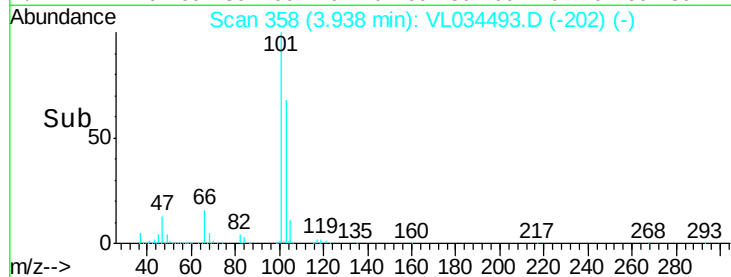
200000

0

Time-->

3.85 3.90 3.95 4.00

3.94



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.482 ppbv

RT: 4.48 min Scan# 527

Delta R.T. 0.00 min

Lab File: VL034493.D

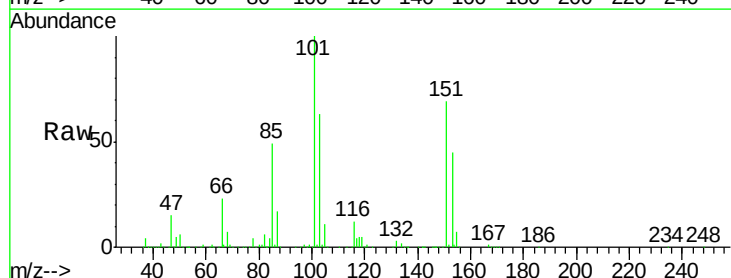
Acq: 17 Dec 2019 13:16

Tgt Ion:101 Resp: 1067626

Ion Ratio Lower Upper

101 100

151 71.0 57.4 86.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

600000

400000

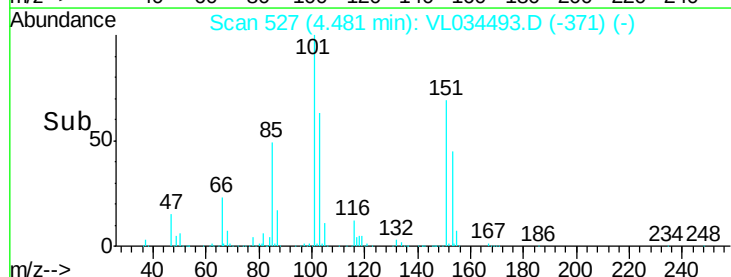
200000

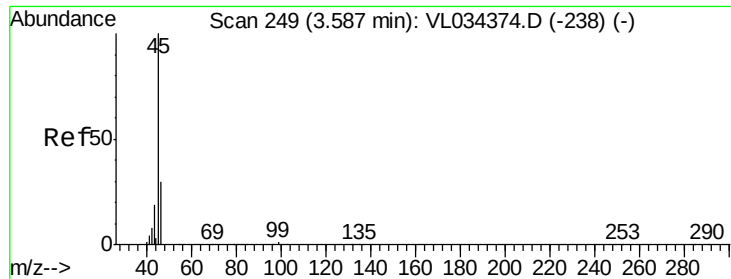
0

Time-->

4.40 4.45 4.50 4.55

4.48





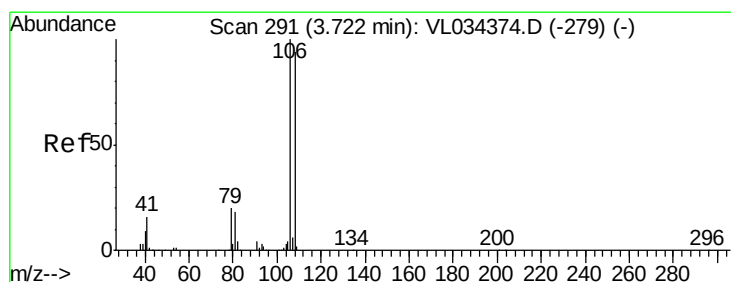
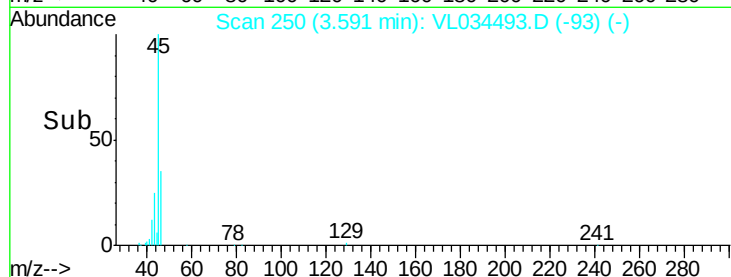
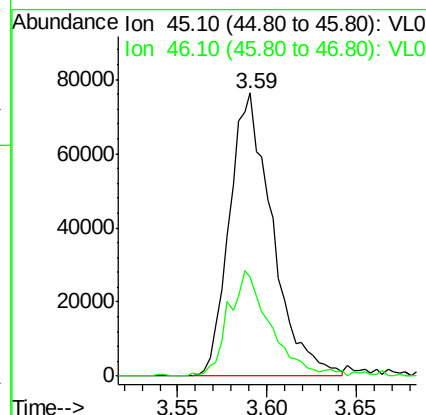
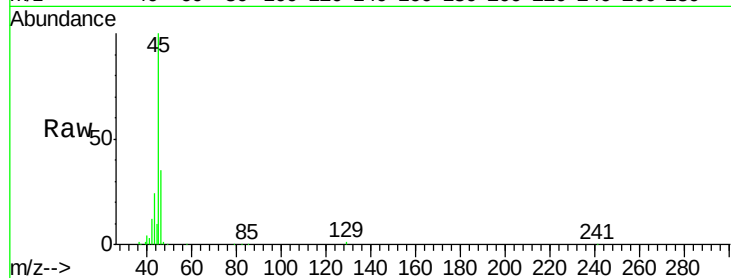
#13
Ethanol
Concen: 8.802 ppbv
RT: 3.59 min Scan# 250
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
45	100		
46	36.5	13.8	55.4

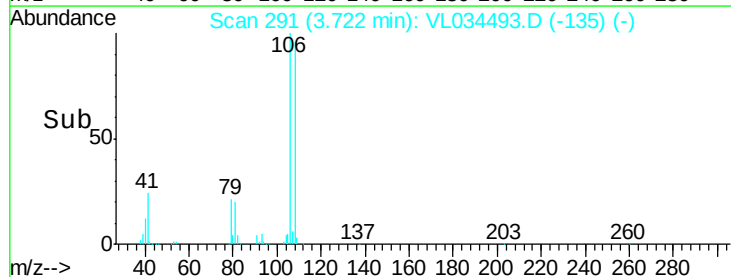
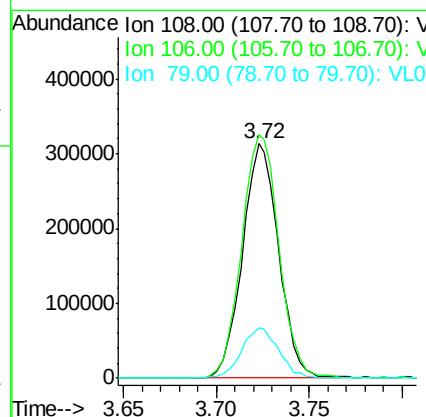
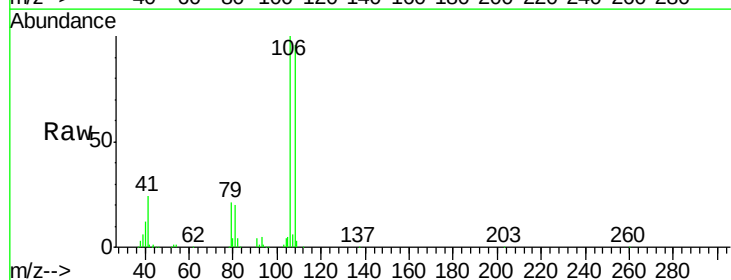
Manual Integrations
APPROVED

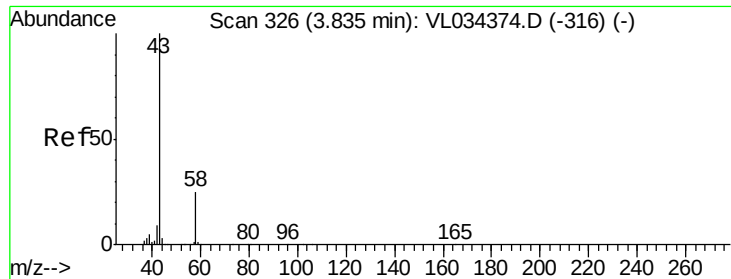
MMDadoda
12/19/2019 3:46:48 PM



#14
Bromoethene
Concen: 9.245 ppbv
RT: 3.72 min Scan# 291
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Tgt Ion	Ratio	Lower	Upper
108	100		
106	108.2	85.7	128.5
79	22.3	17.2	25.8





#15

Acetone

Concen: 8.419 ppbv

RT: 3.84 min Scan# 326

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1135312

Ion Ratio Lower Upper

43 100

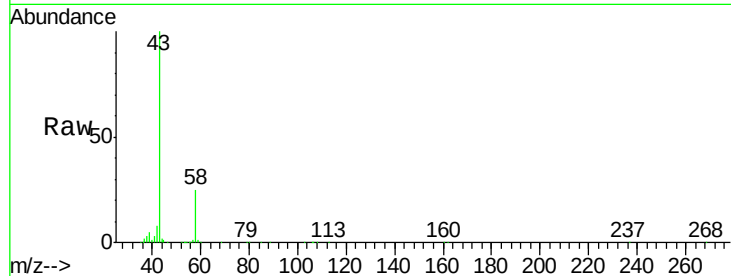
58 25.4 20.2 30.4

Manual Integrations

APPROVED

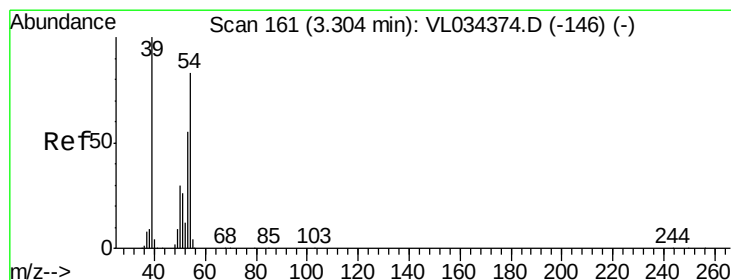
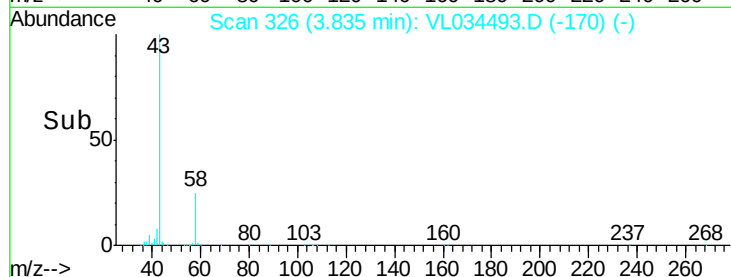
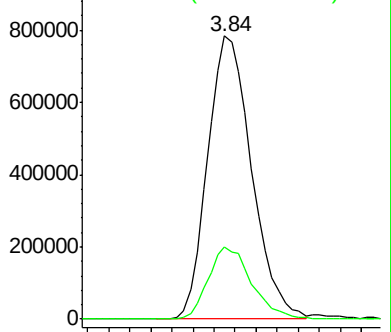
MMDadoda

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 8.947 ppbv

RT: 3.30 min Scan# 161

Delta R.T. 0.00 min

Lab File: VL034493.D

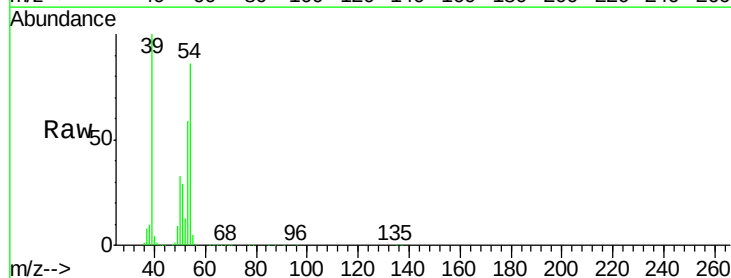
Acq: 17 Dec 2019 13:16

Tgt Ion: 39 Resp: 525553

Ion Ratio Lower Upper

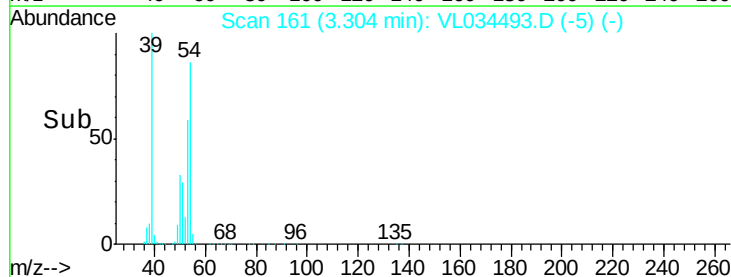
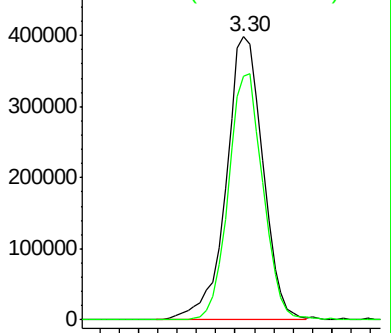
39 100

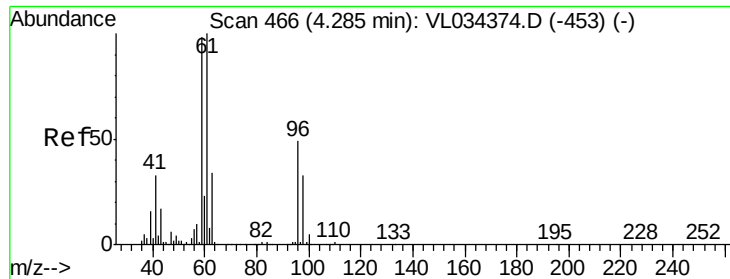
54 82.0 64.7 97.1



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





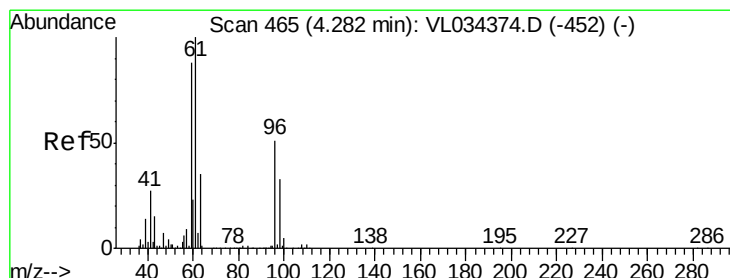
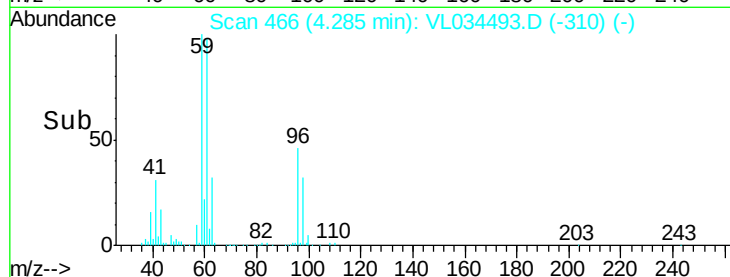
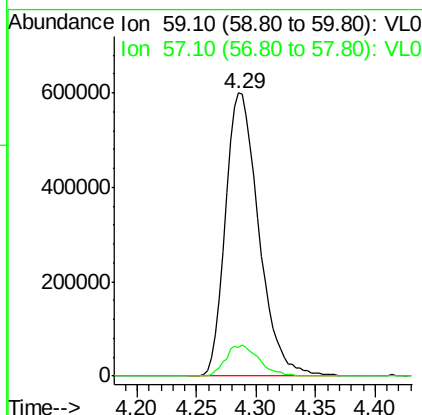
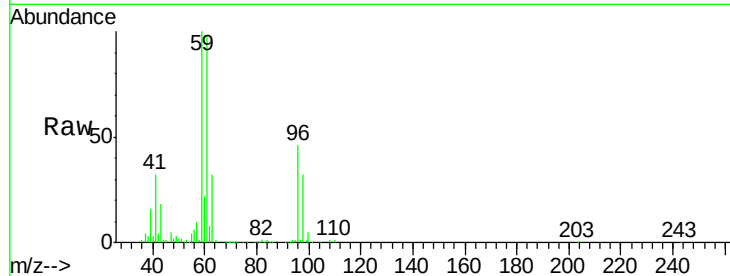
#17
 tert-Butyl alcohol
 Concen: 10.298 ppbv
 RT: 4.29 min Scan# 466
 Delta R.T. 0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 59 Resp: 1167284
 Ion Ratio Lower Upper
 59 100
 57 11.1 8.8 13.2

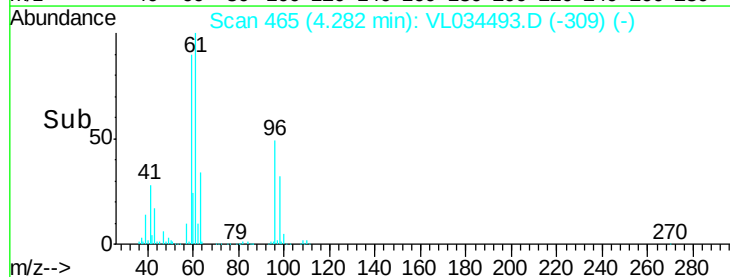
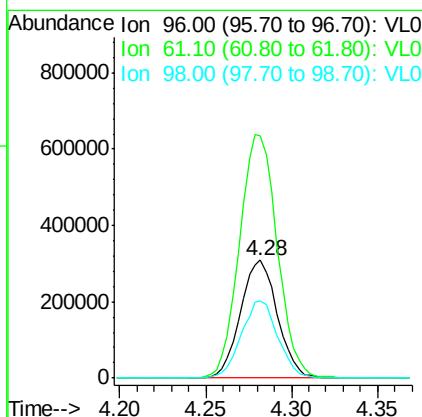
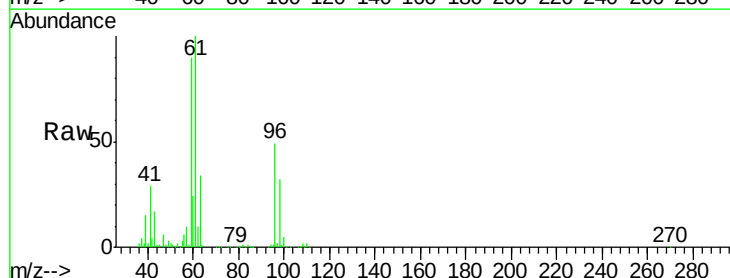
Manual Integrations
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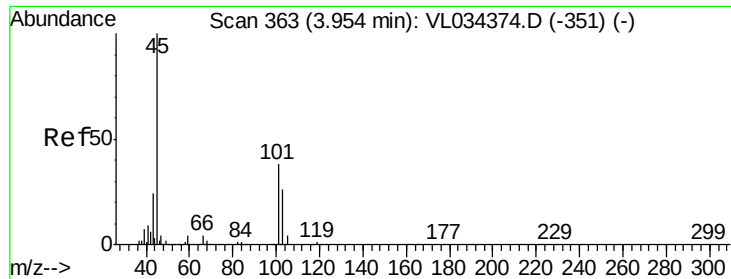
MMDadoda
 12/19/2019 3:46:48 PM



#18
 1,1-Dichloroethene
 Concen: 9.329 ppbv
 RT: 4.28 min Scan# 465
 Delta R.T. 0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Tgt Ion: 96 Resp: 459506
 Ion Ratio Lower Upper
 96 100
 61 205.1 155.6 233.4
 98 65.3 51.6 77.4





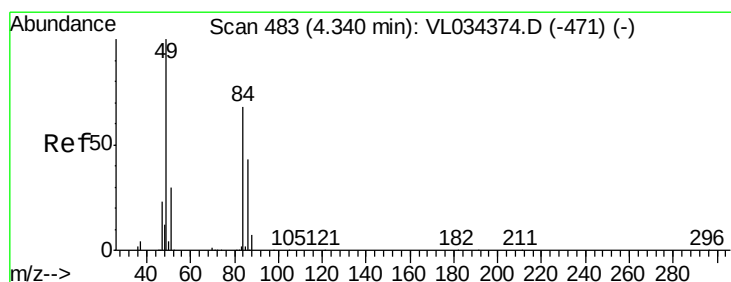
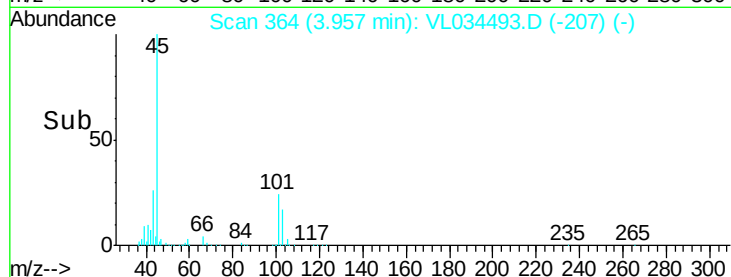
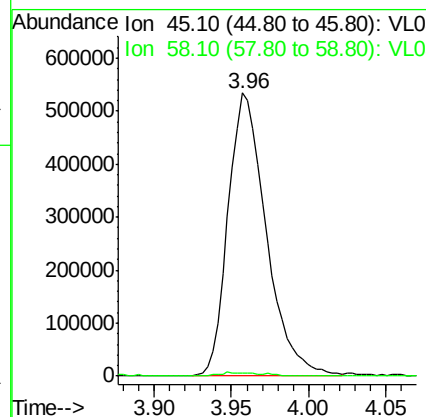
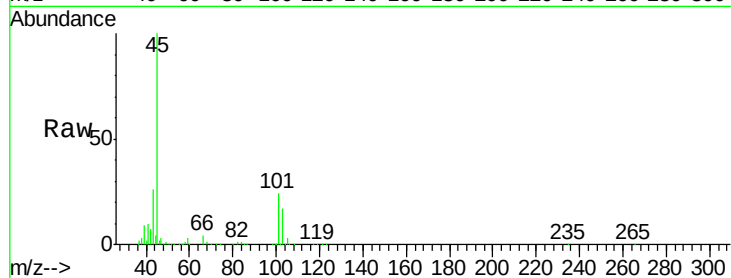
#19
Isopropyl Alcohol
Concen: 10.582 ppbv
RT: 3.96 min Scan# 364
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
45	100		
58	1.7	1.3	1.9

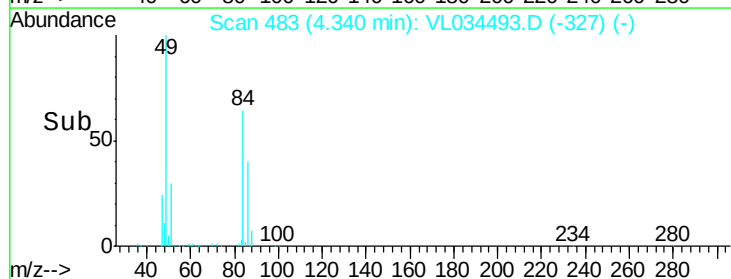
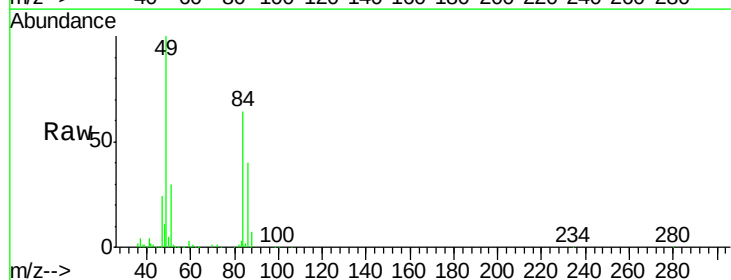
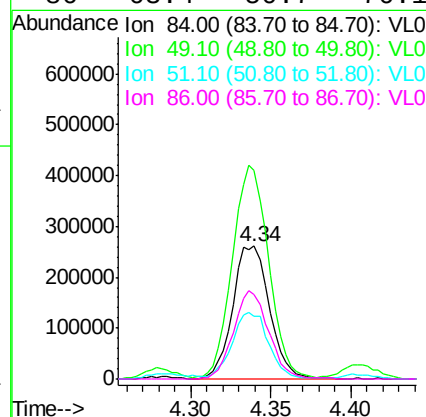
Manual Integrations
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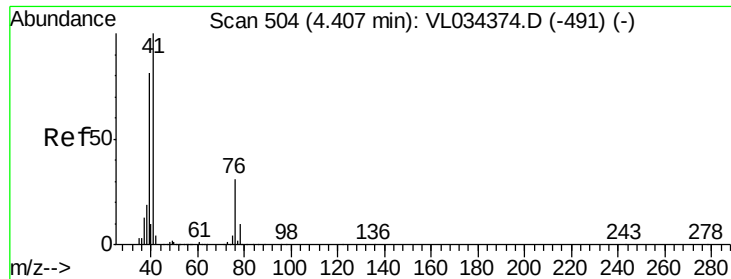
MMDadoda
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#20
Methylene Chloride
Concen: 8.519 ppbv
RT: 4.34 min Scan# 483
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Tgt Ion	Ratio	Lower	Upper
84	100		
49	156.1	116.8	175.2
51	45.4	35.6	53.4
86	63.4	50.7	76.1





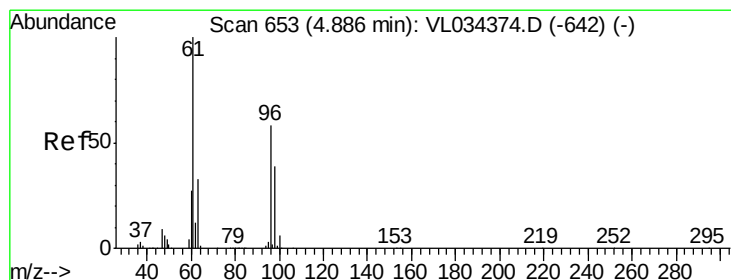
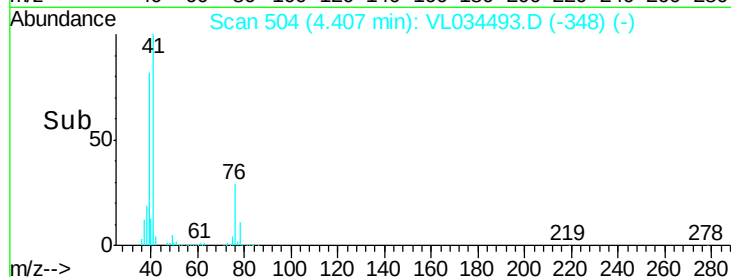
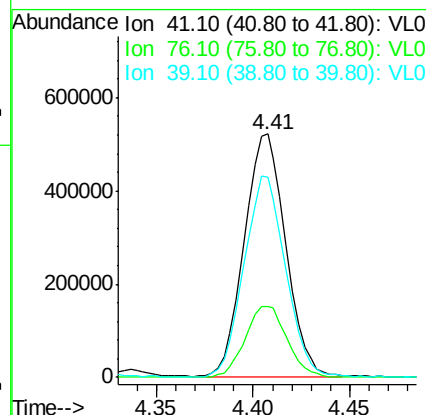
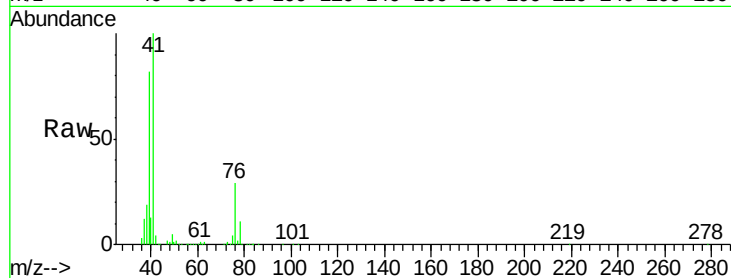
#21
Allvl Chloride
Concen: 9.601 ppbv
RT: 4.41 min Scan# 504
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.7	24.2	36.2
39	83.5	66.9	100.3

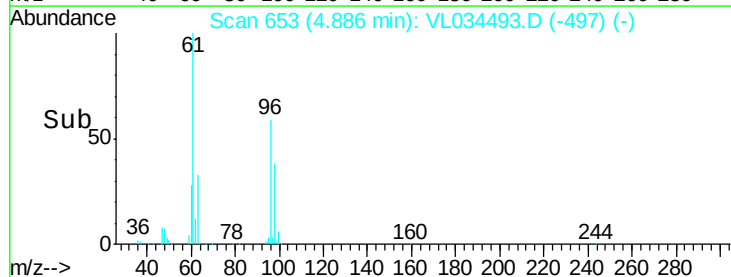
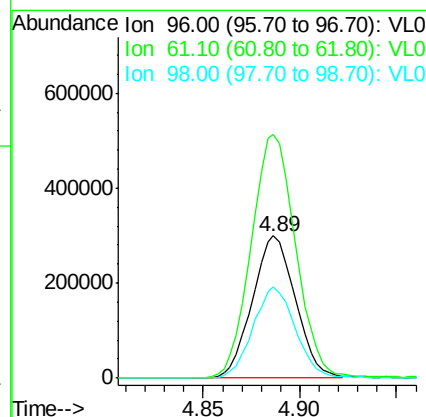
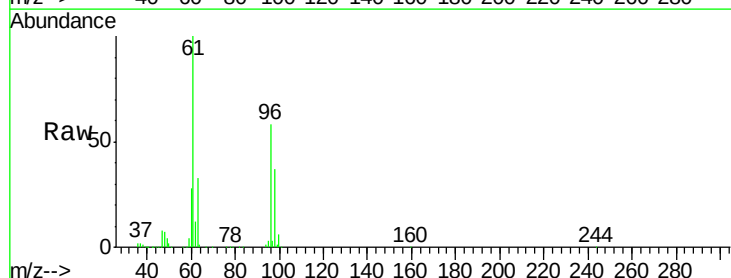
Manual Integrations
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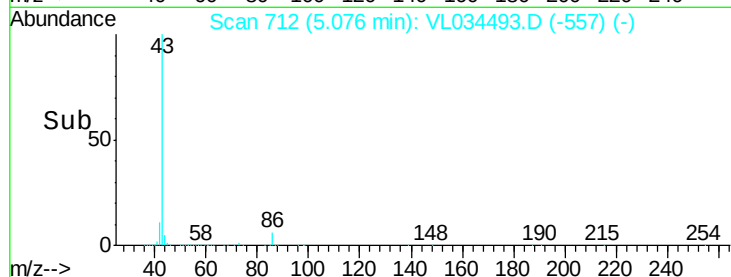
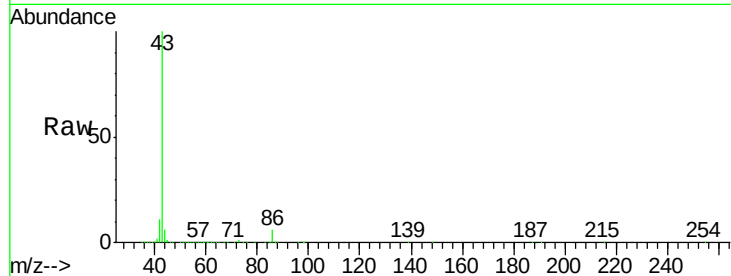
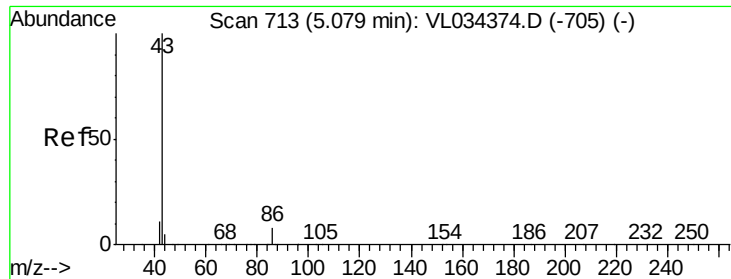
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 9.361 ppbv
RT: 4.89 min Scan# 653
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

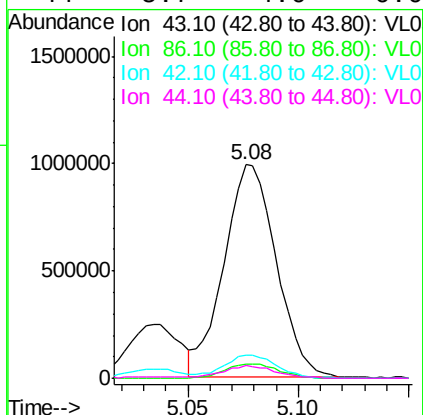
Tgt Ion	Ratio	Lower	Upper
96	100		
61	171.1	137.9	206.9
98	64.1	53.5	80.3





#23
 Vinyl Acetate
 Concen: 9.231 ppbv
 RT: 5.08 min Scan# 712
 Delta R.T. -0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

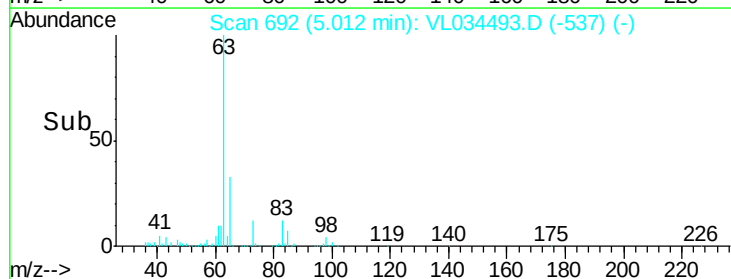
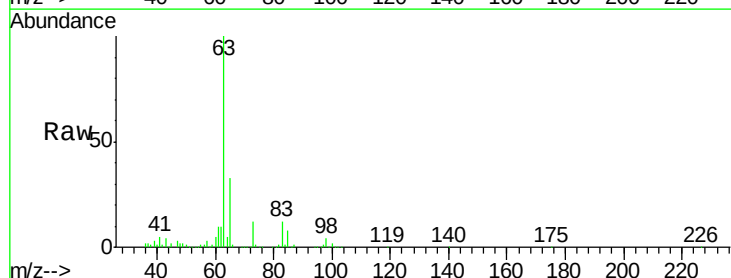
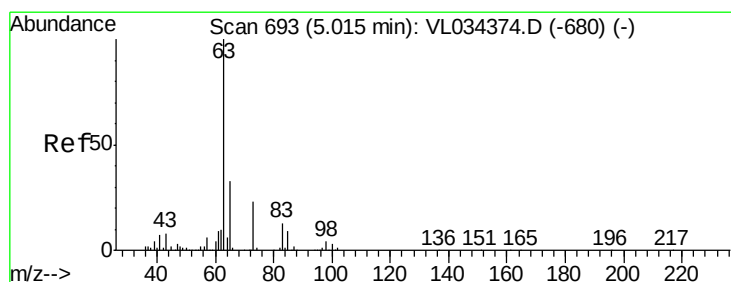
Tot Ion	43	Resp	1626053
Ion	Ratio	Lower	Upper
43	100		
86	6.4	5.8	8.6
42	10.7	8.9	13.3
44	5.7	4.0	6.0



Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

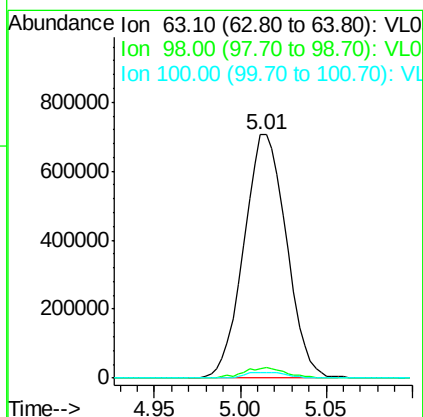
Manual Integrations
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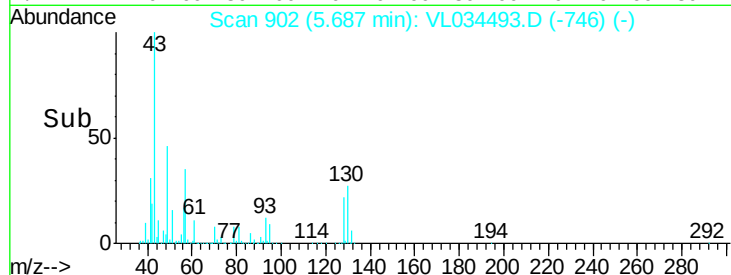
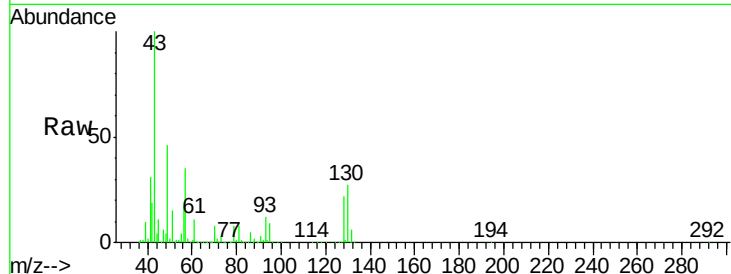
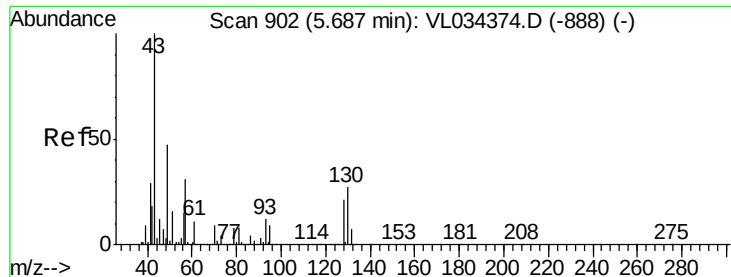
MMDadoda
 12/19/2019 3:46:48 PM



#24
 1,1-Dichloroethane
 Concen: 8.924 ppbv
 RT: 5.01 min Scan# 692
 Delta R.T. -0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

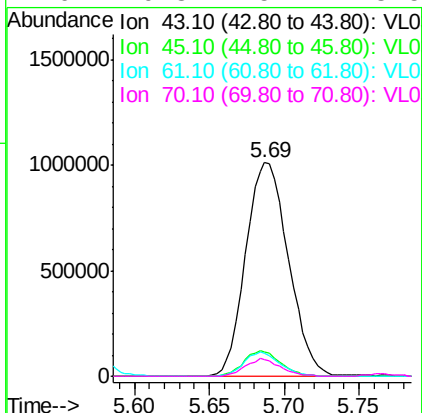
Tgt Ion	63	Resp	1207549
Ion	Ratio	Lower	Upper
63	100		
98	3.8	1.9	5.7
100	2.1	1.4	4.0





#25
Ethyl Acetate
Concen: 8.333 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

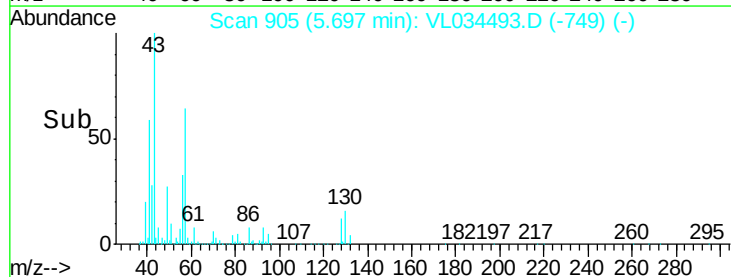
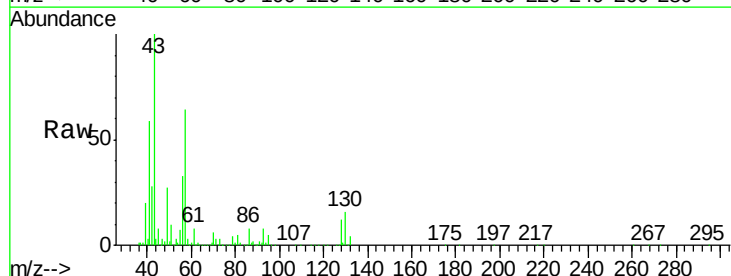
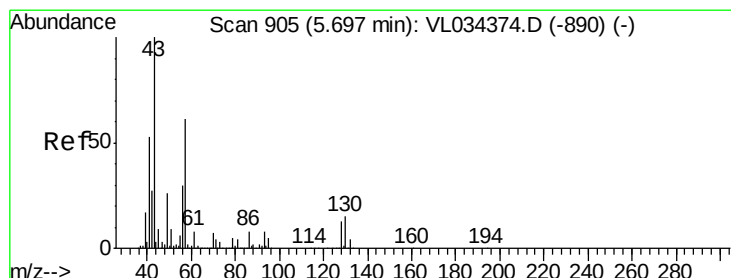
Tot Ion	43	Resp	2005137
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.2	12.4
61	9.6	7.5	11.3
70	6.8	5.7	8.5



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

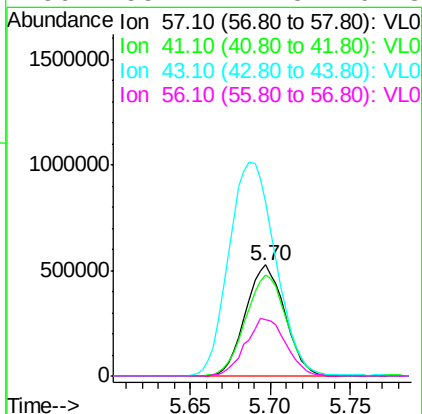
Manual Integrations
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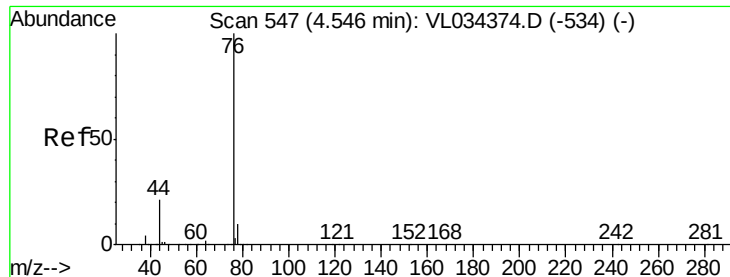
MMDadoda
12/19/2019 3:46:48 PM



#26
Hexane
Concen: 8.583 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Tgt Ion	57	Resp	887504
Ion	Ratio	Lower	Upper
57	100		
41	95.1	75.0	112.4
43	226.6	186.6	279.8
56	53.2	41.5	62.3





#27

Carbon Disulfide

Concen: 10.632 ppbv

RT: 4.55 min Scan# 547

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1197359

Ion Ratio Lower Upper

76 100

44 20.4 17.0 25.4

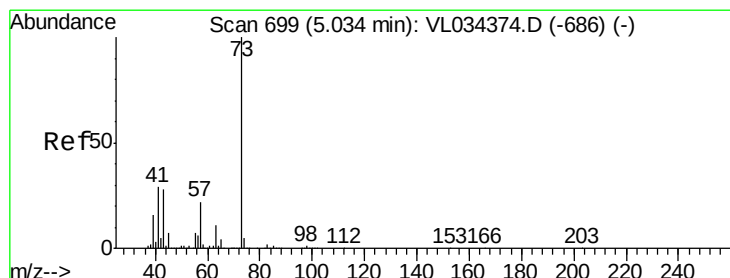
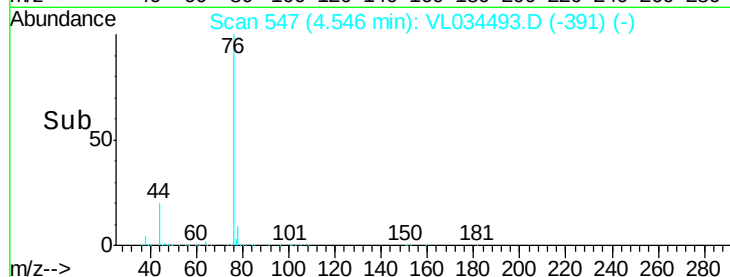
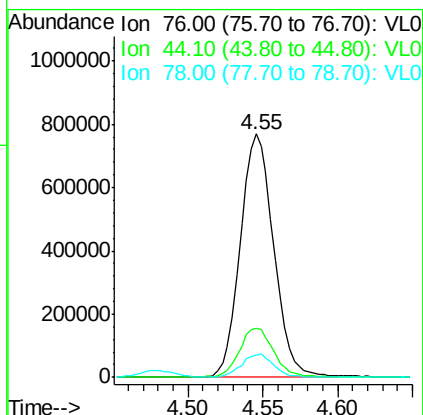
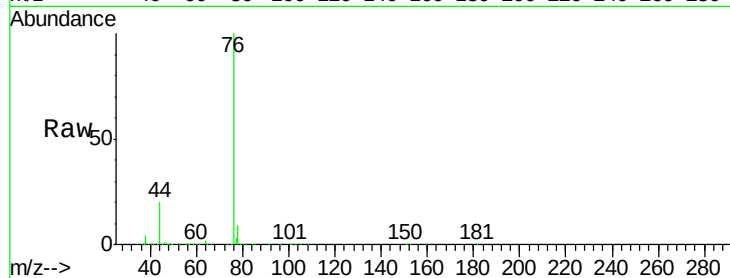
78 9.2 7.6 11.4

Manual Integrations

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12/19/2019 3:46:48 PM



#28

Methyl tert-Butyl Ether

Concen: 8.944 ppbv

RT: 5.03 min Scan# 699

Delta R.T. 0.00 min

Lab File: VL034493.D

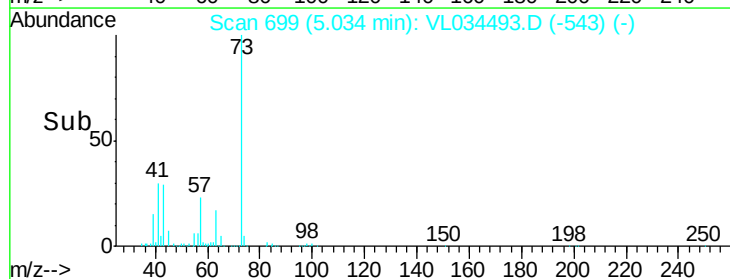
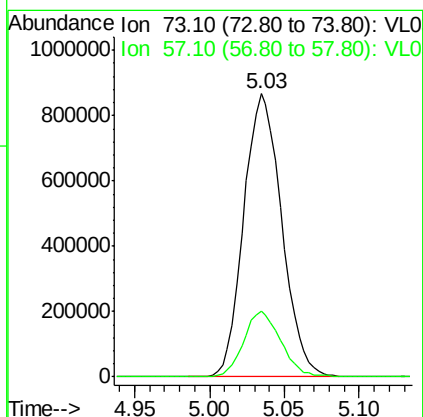
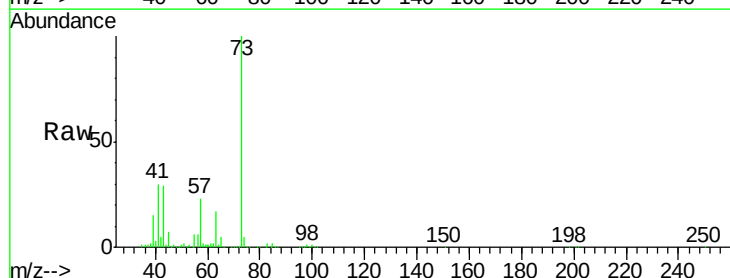
Acq: 17 Dec 2019 13:16

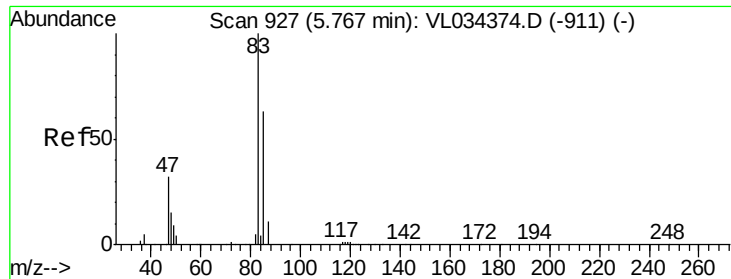
Tgt Ion: 73 Resp: 1533457

Ion Ratio Lower Upper

73 100

57 22.9 18.4 27.6





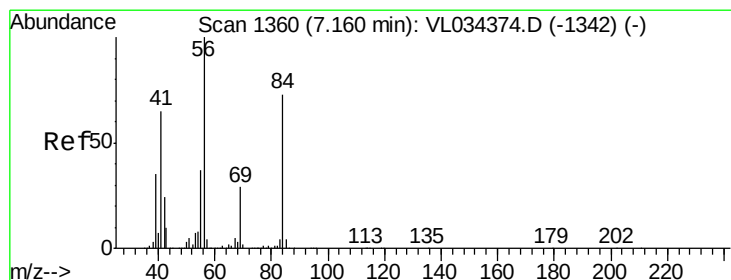
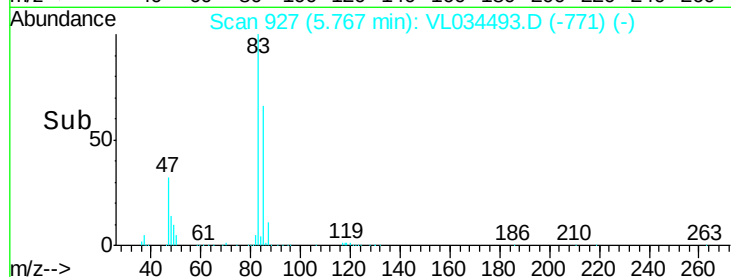
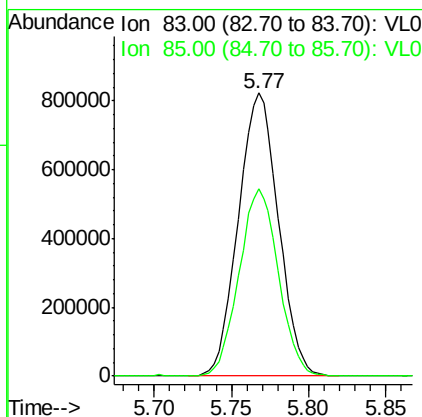
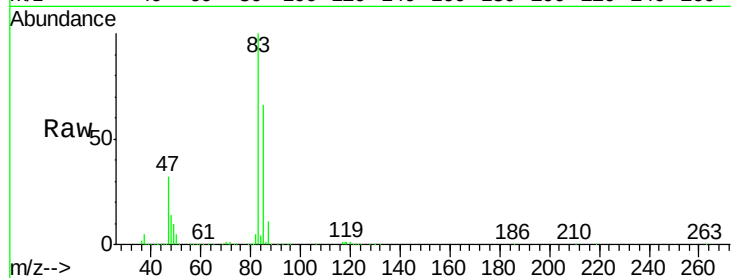
#29
Chloroform
Concen: 8.834 ppbv
RT: 5.77 min Scan# 927
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1479216
Ion Ratio Lower Upper
83 100
85 66.3 50.4 75.6

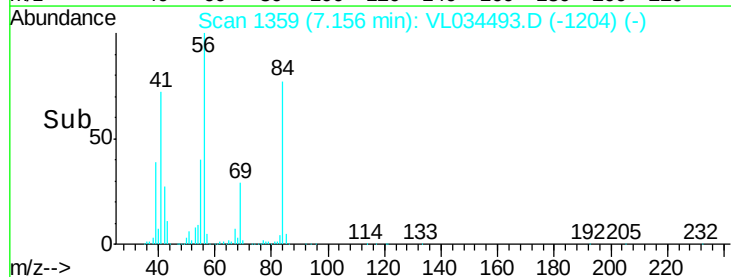
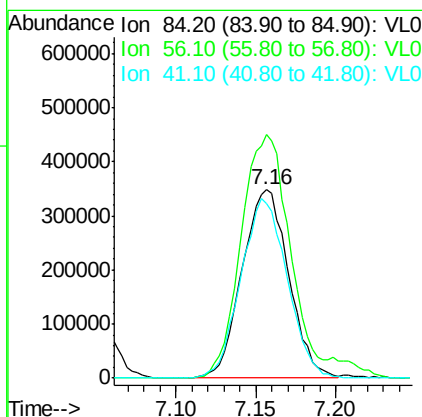
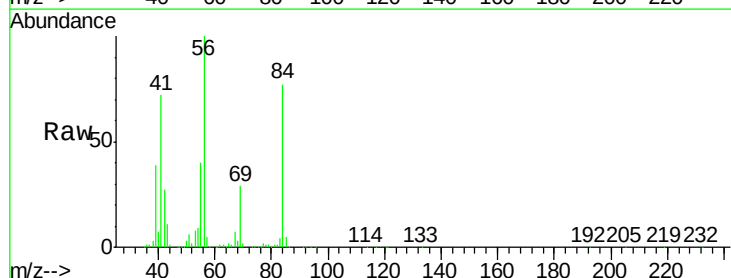
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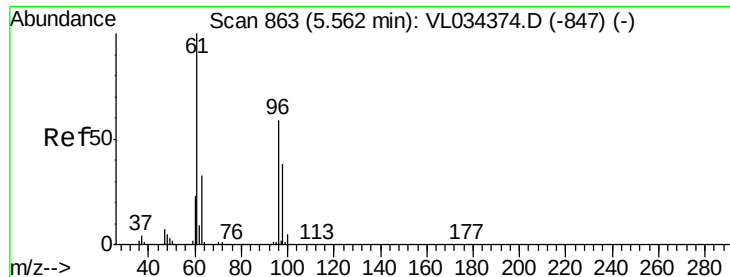
MMDadoda
12/19/2019 3:46:48 PM



#30
Cyclohexane
Concen: 8.928 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Tgt Ion: 84 Resp: 697908
Ion Ratio Lower Upper
84 100
56 141.6 112.6 169.0
41 94.3 73.4 110.2





#31

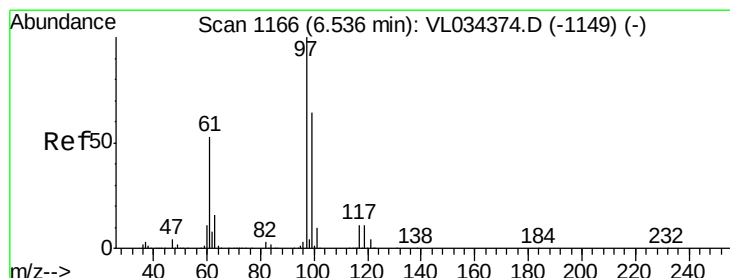
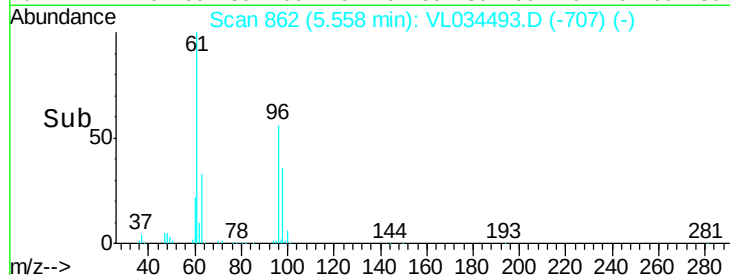
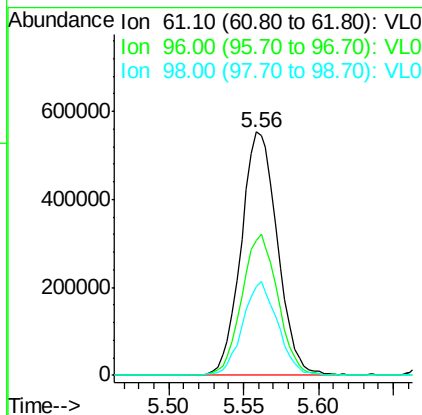
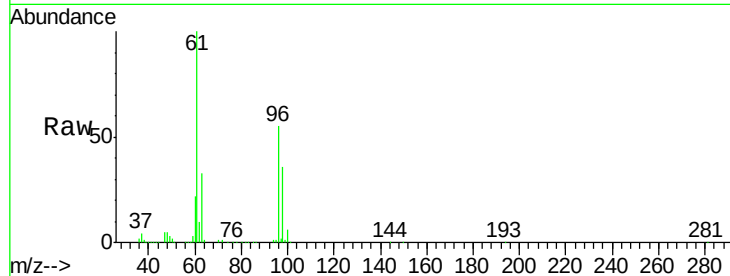
cis-1,2-Dichloroethene
Concen: 8.743 ppbv
RT: 5.56 min Scan# 862
Delta R.T. -0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	55.4	47.4	71.2
98	36.3	30.6	45.8

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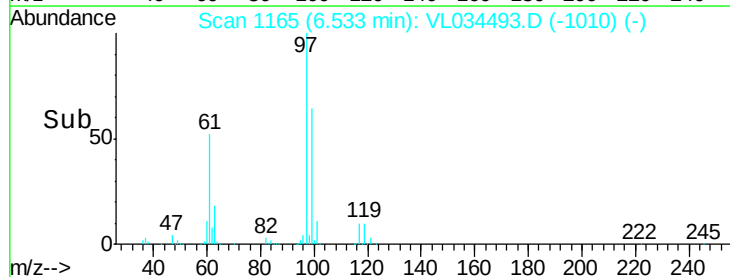
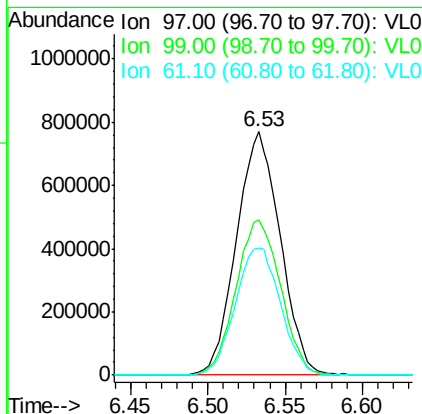
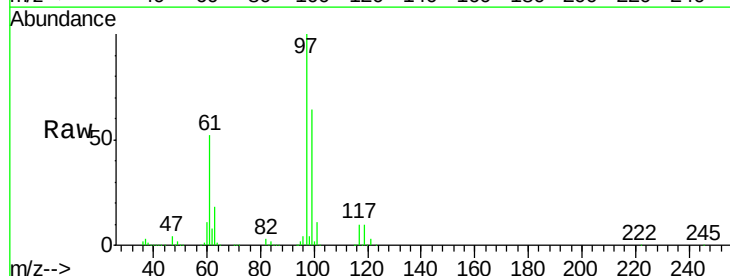
MMDadoda
12/19/2019 3:46:48 PM

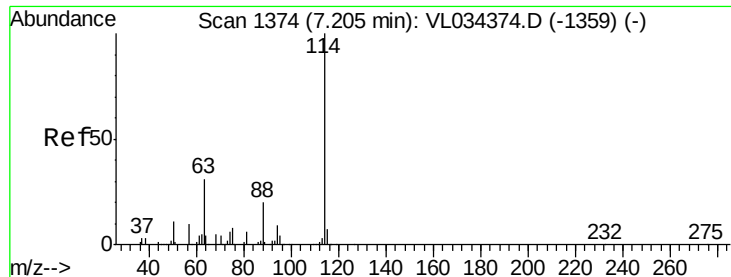


#32

1,1,1-Trichloroethane
Concen: 9.608 ppbv
RT: 6.53 min Scan# 1165
Delta R.T. -0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.5	52.3	78.5
61	54.5	43.7	65.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1374

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:114 Resp: 1906503

Ion Ratio Lower Upper

114 100

63 30.2 24.2 36.4

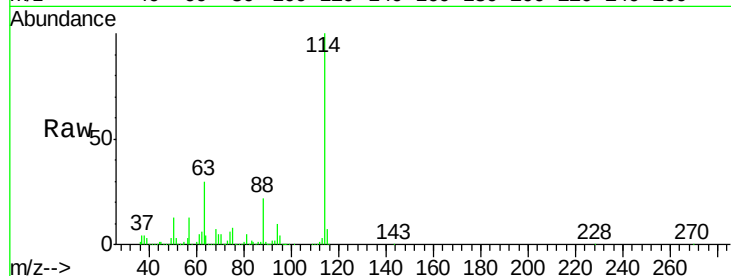
88 19.5 15.9 23.9

Manual Integrations

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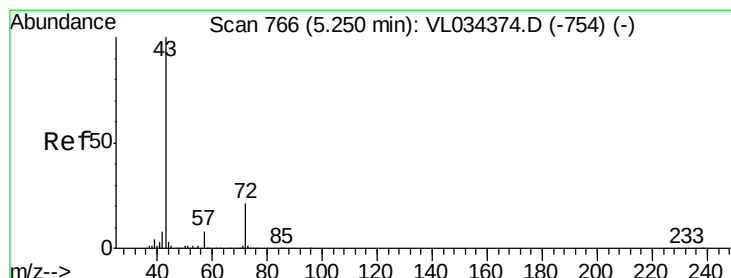
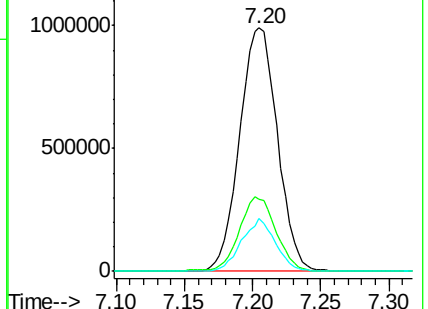
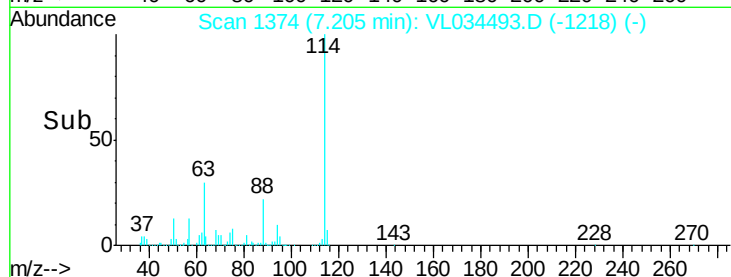
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Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 8.536 ppbv

RT: 5.25 min Scan# 766

Delta R.T. 0.00 min

Lab File: VL034493.D

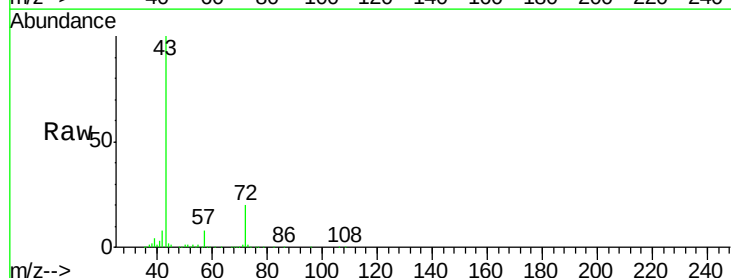
Acq: 17 Dec 2019 13:16

Tgt Ion: 43 Resp: 1339560

Ion Ratio Lower Upper

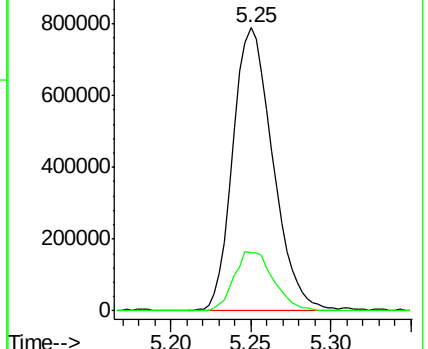
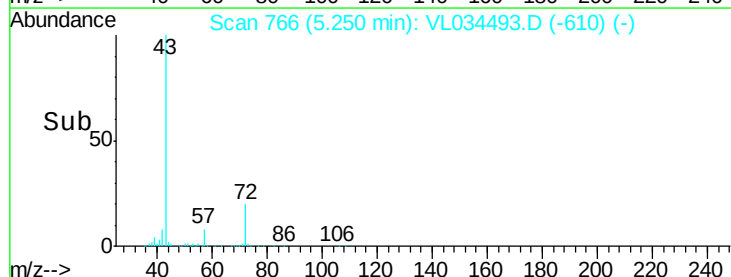
43 100

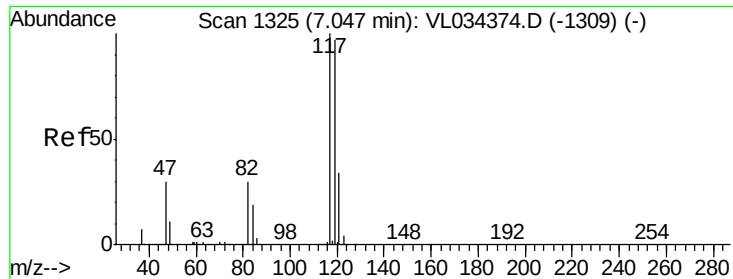
72 20.9 17.0 25.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.912 ppbv

RT: 7.04 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 1624741

Ion Ratio Lower Upper

117 100

119 96.7 77.3 115.9

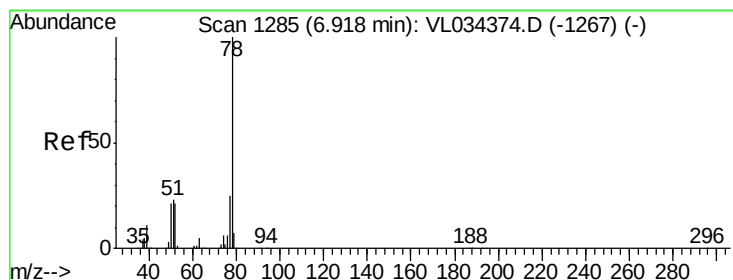
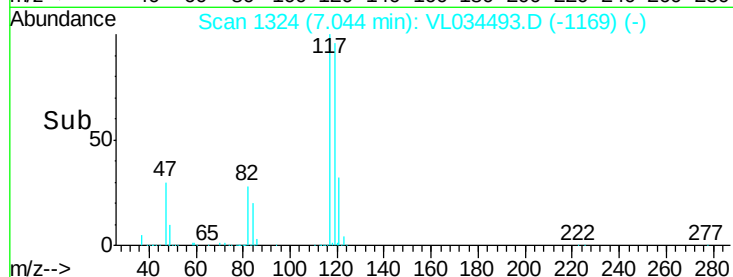
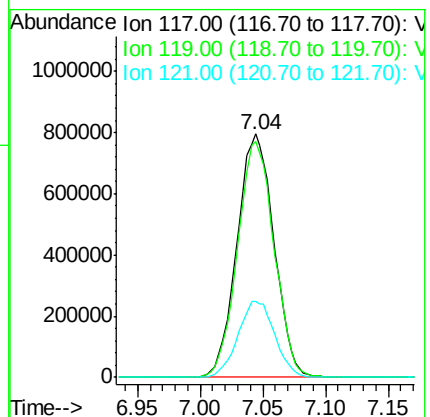
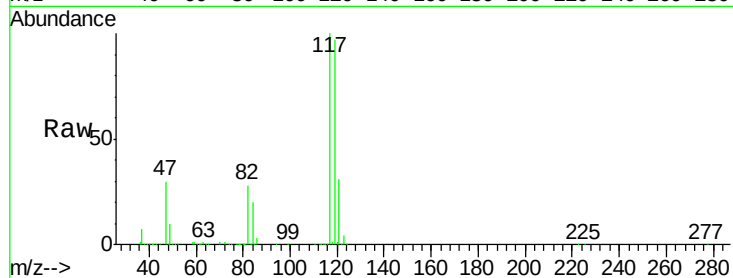
121 31.4 27.4 41.2

Manual Integrations

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#36

Benzene

Concen: 8.607 ppbv

RT: 6.92 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

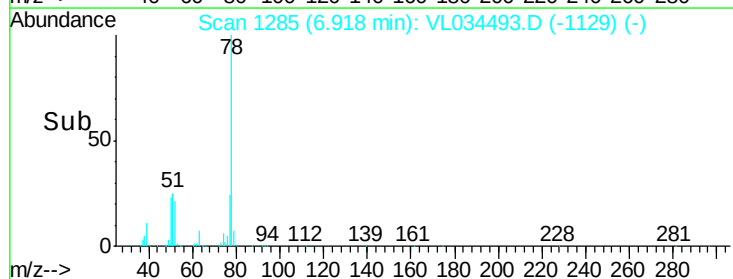
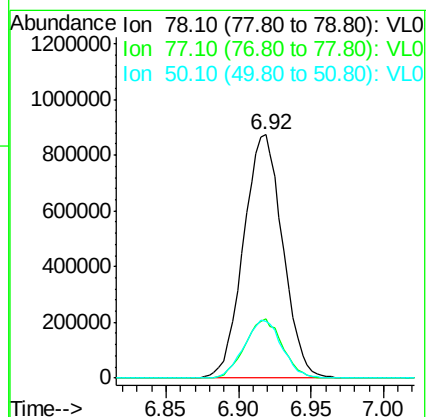
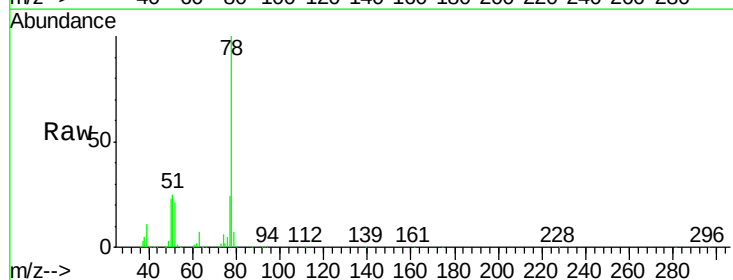
Tgt Ion: 78 Resp: 1640368

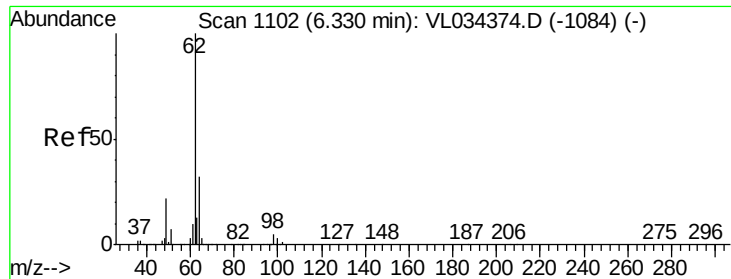
Ion Ratio Lower Upper

78 100

77 24.2 20.2 30.4

50 23.3 17.1 25.7





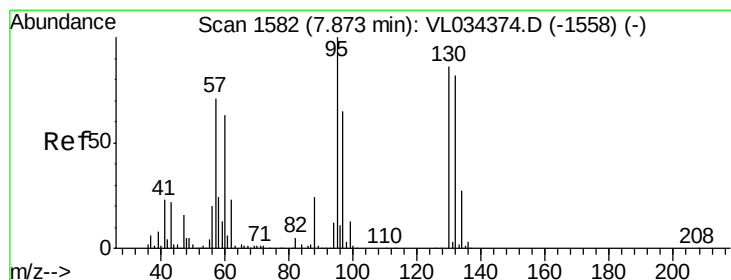
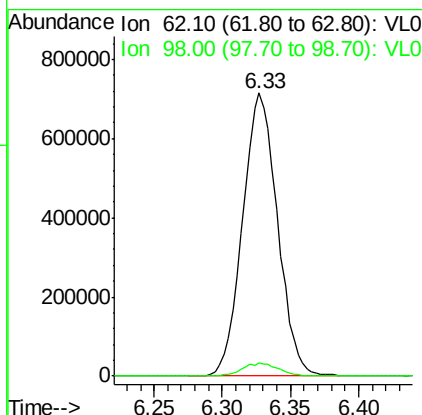
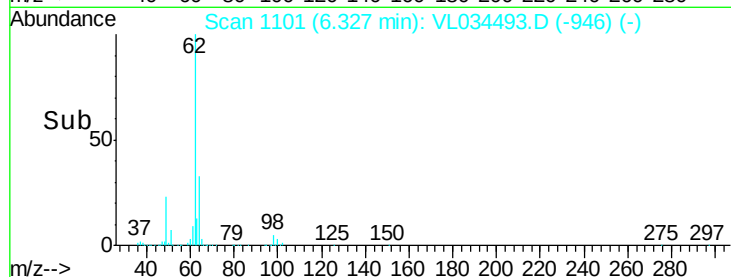
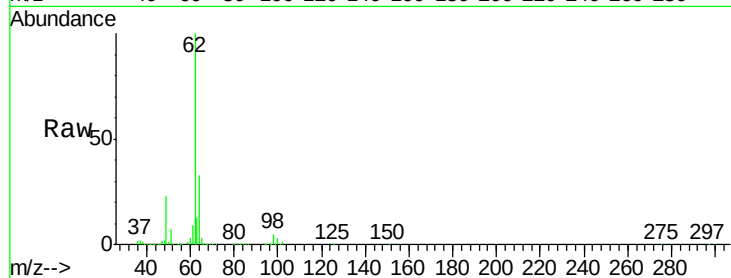
#37
 1,2-Dichloroethane
 Concen: 8.968 ppbv
 RT: 6.33 min Scan# 1101
 Delta R.T. -0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1269699
 Ion Ratio Lower Upper
 62 100
 98 4.8 3.8 5.8

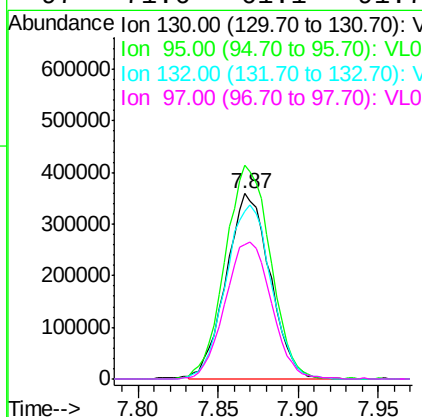
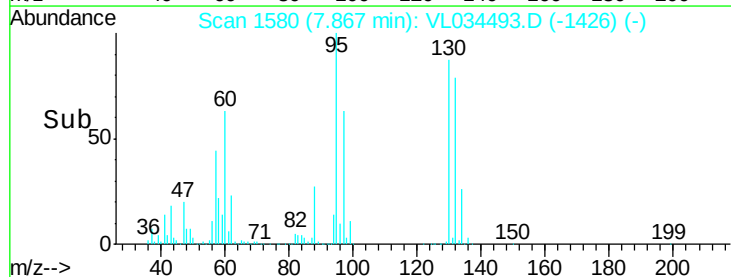
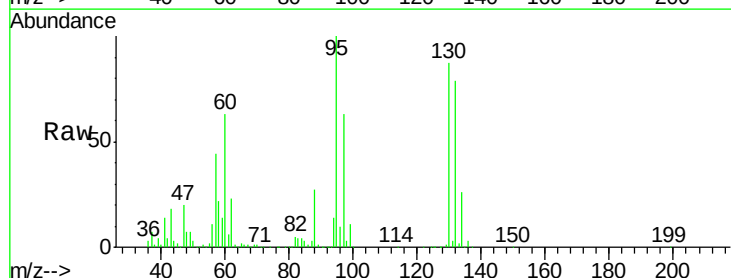
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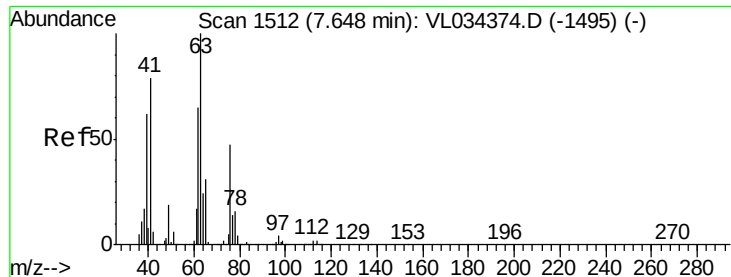
MMDadoda
 12/19/2019 3:46:48 PM



#38
 Trichloroethene
 Concen: 8.582 ppbv
 RT: 7.87 min Scan# 1580
 Delta R.T. -0.01 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Tgt Ion: 130 Resp: 671230
 Ion Ratio Lower Upper
 130 100
 95 115.2 93.4 140.0
 132 90.9 76.4 114.6
 97 71.6 61.1 91.7





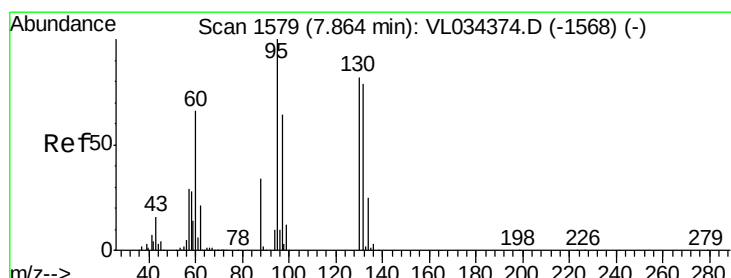
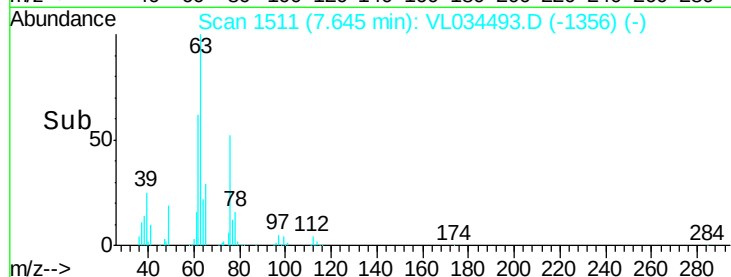
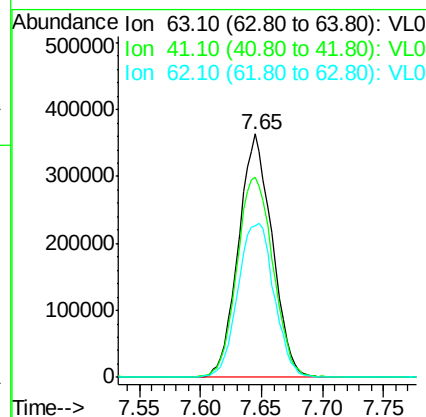
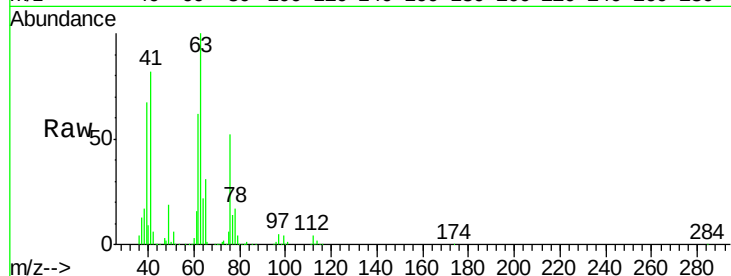
#39
 1,2-Dichloropropane
 Concen: 9.458 ppbv
 RT: 7.65 min Scan# 1511
 Delta R.T. -0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Resp	Lower	Upper
63	100	694438		
41	82.4	63.1	94.7	
62	62.1	52.3	78.5	

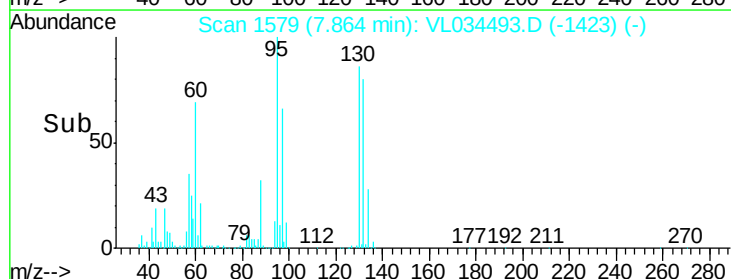
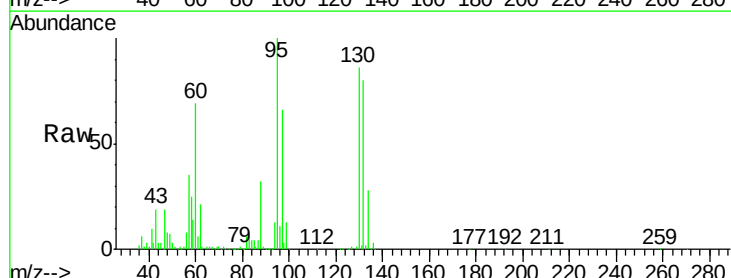
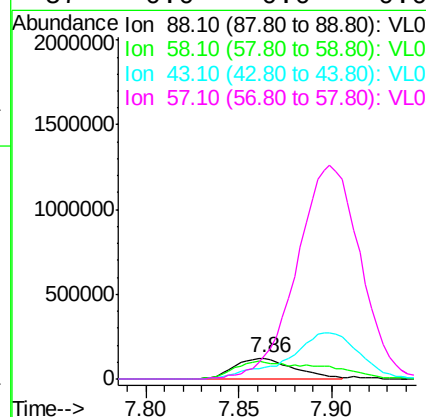
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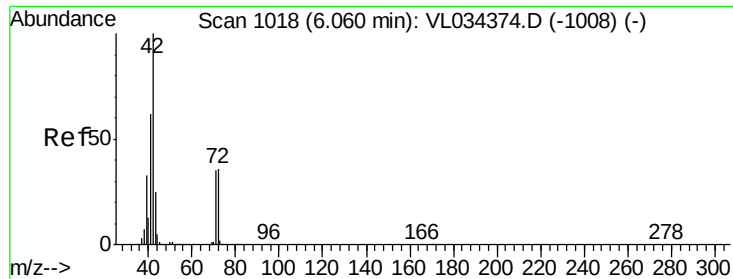
MMDadoda
 12/19/2019 3:46:48 PM



#40
 1,4-Dioxane
 Concen: 8.361 ppbv
 RT: 7.86 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	268176		
58	139.2	109.5	164.3	
43	0.0	0.0	0.0	
57	0.0	0.0	0.0	





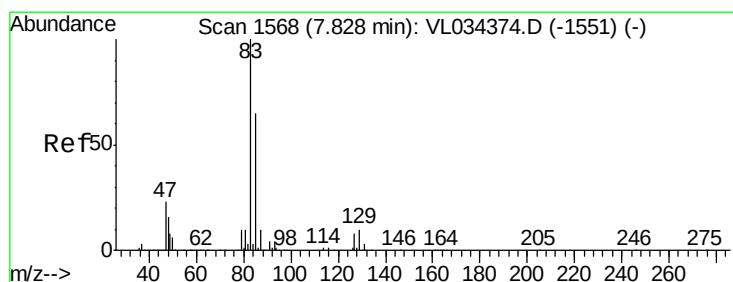
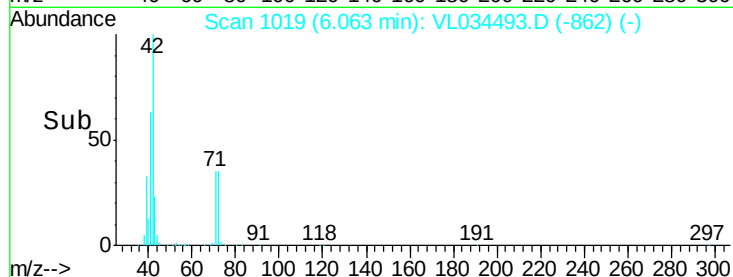
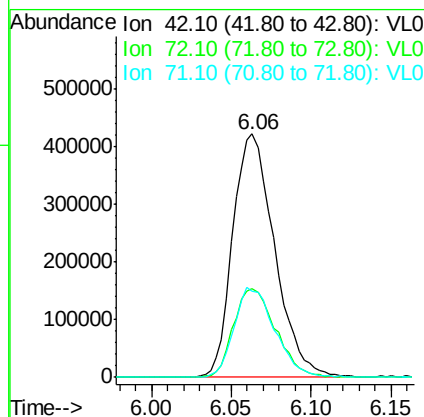
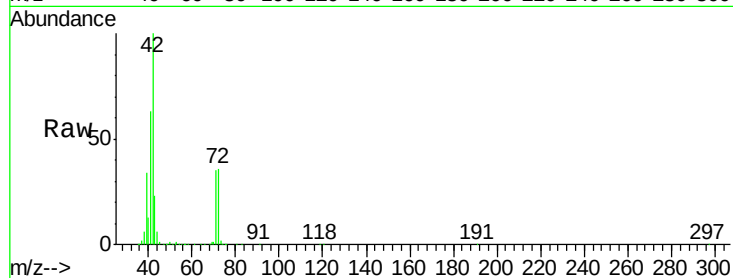
#41
Tetrahydrofuran
Concen: 8.538 ppbv
RT: 6.06 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.0	30.2	45.4
71	36.2	29.4	44.2

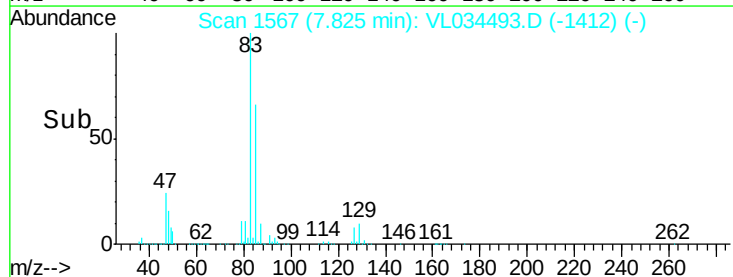
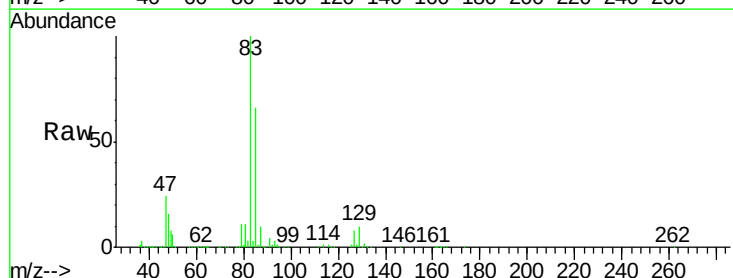
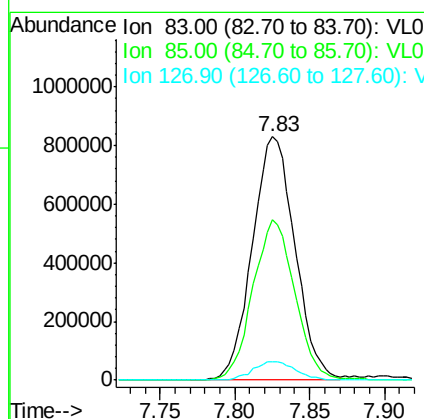
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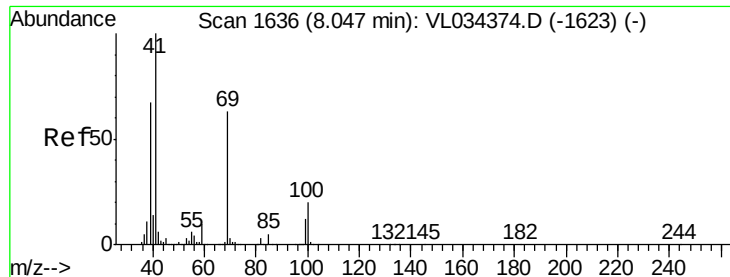
MMDadoda
12/19/2019 3:46:48 PM



#42
Bromodichloromethane
Concen: 9.285 ppbv
RT: 7.83 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.7	52.3	78.5
127	7.8	6.1	9.1





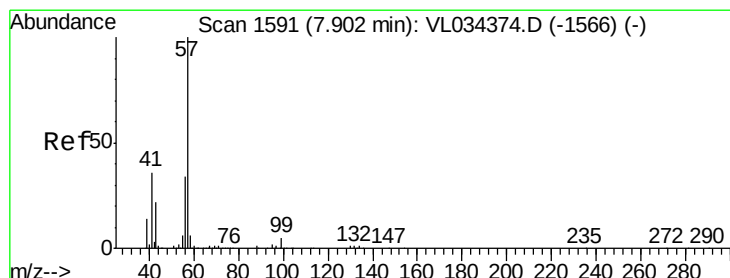
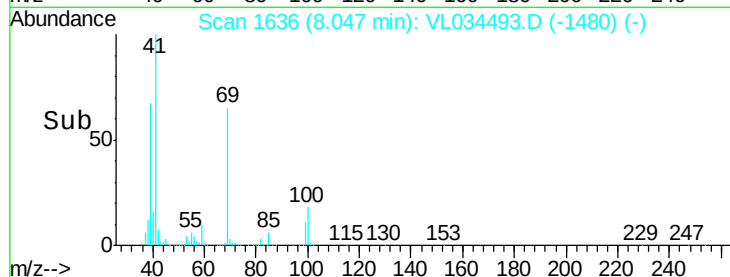
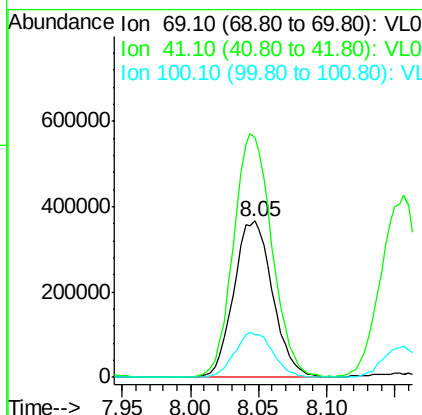
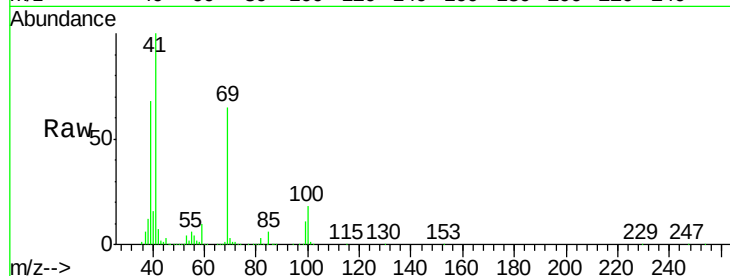
#43
Methyl Methacrylate
Concen: 9.154 ppbv
RT: 8.05 min Scan# 1636
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	153.7	127.4	191.2	
100	28.3	24.2	36.4	

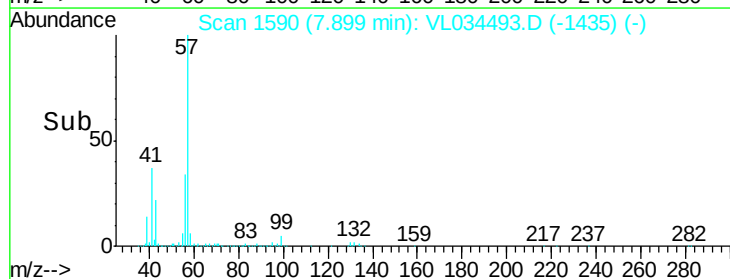
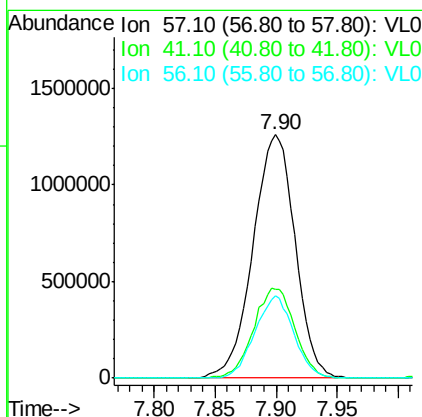
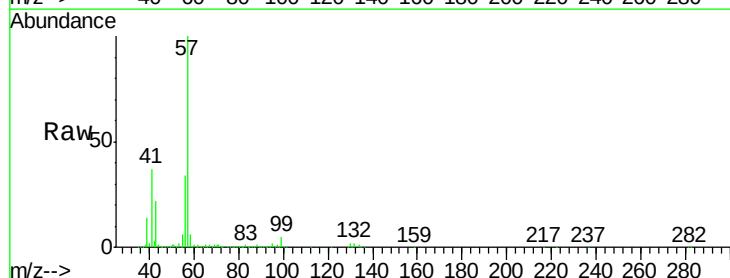
Manual Integrations
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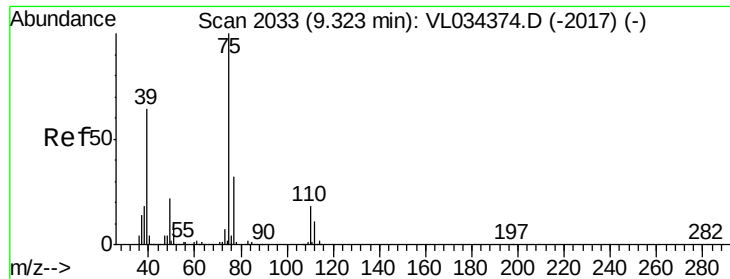
MMDadoda
12/19/2019 3:46:48 PM



#44
2,2,4-Trimethylpentane
Concen: 8.653 ppbv
RT: 7.90 min Scan# 1590
Delta R.T. -0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	36.2	28.6	42.8	
56	31.3	25.3	37.9	





#45

t-1,3-Dichloropropene

Concen: 9.322 ppbv

RT: 9.32 min Scan# 2032

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 945006

Ion Ratio Lower Upper

75 100

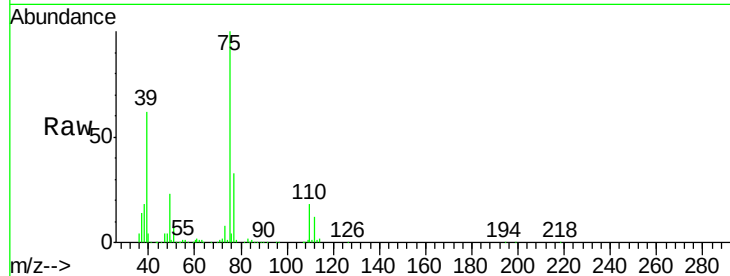
77 32.6 25.4 38.2

Manual Integrations

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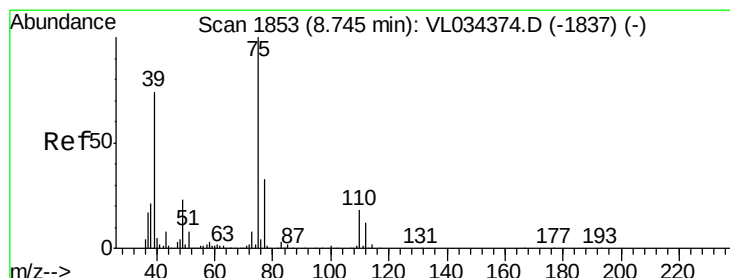
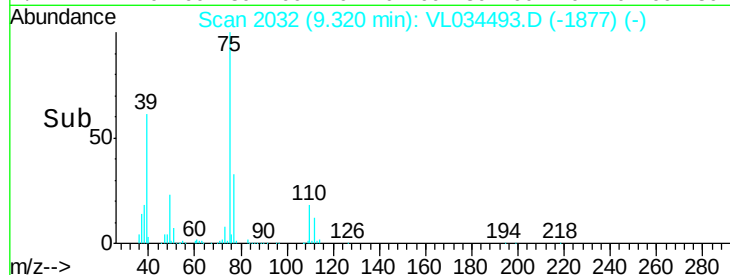
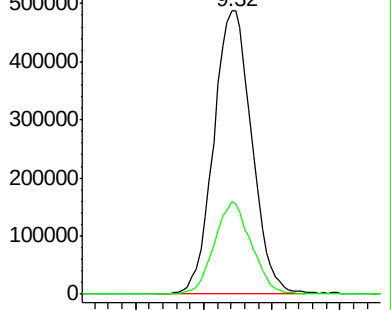
MMDadoda

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 9.259 ppbv

RT: 8.74 min Scan# 1852

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

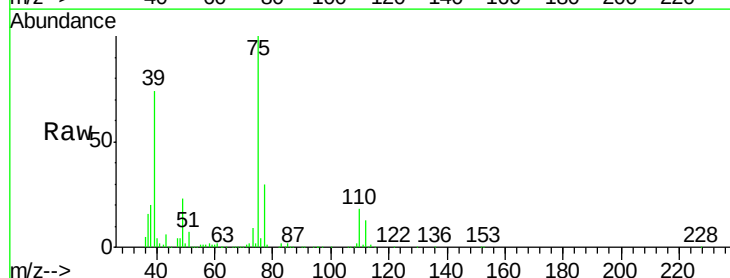
Tgt Ion: 75 Resp: 1054326

Ion Ratio Lower Upper

75 100

39 73.9 59.0 88.6

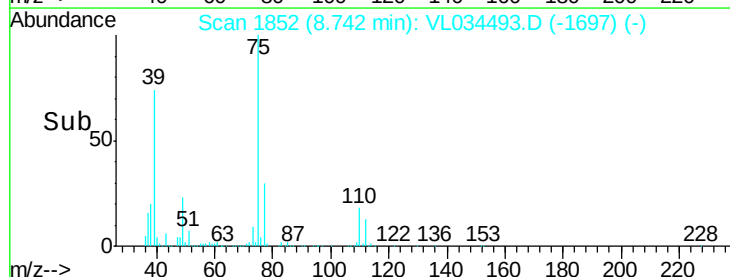
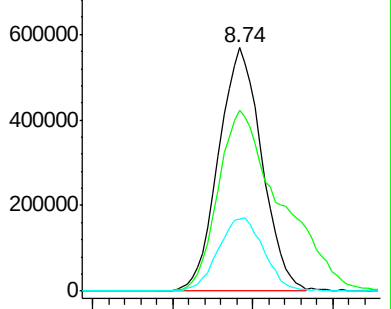
77 29.8 26.4 39.6

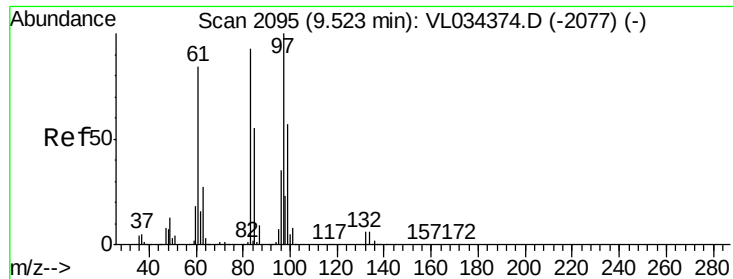


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





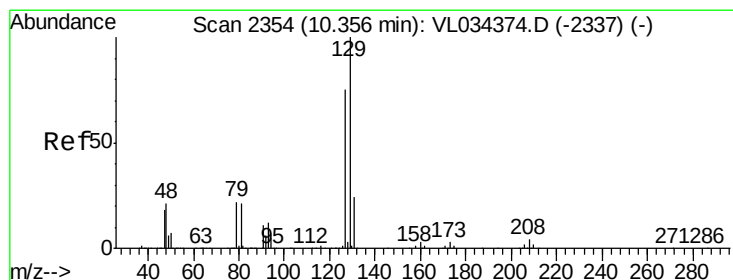
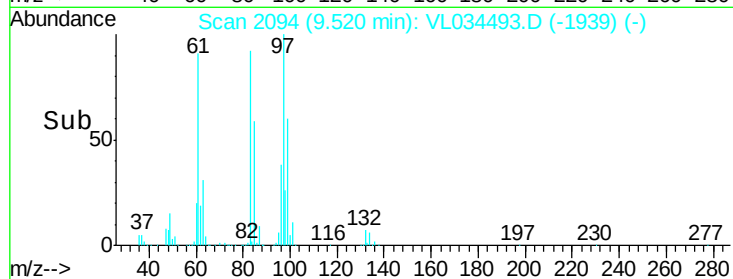
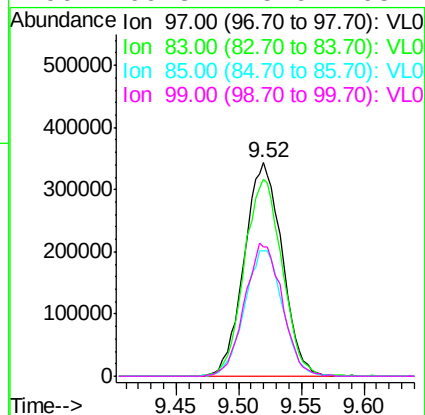
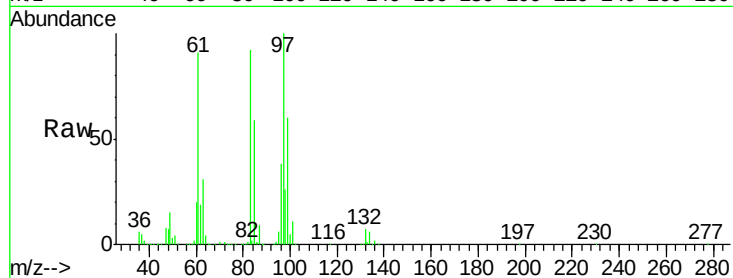
#47
 1,1,2-Trichloroethane
 Concen: 8.823 ppbv
 RT: 9.52 min Scan# 2094
 Delta R.T. -0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		720656		
83	92.2		74.6	112.0	
85	58.6		43.8	65.8	
99	60.3		45.6	68.4	

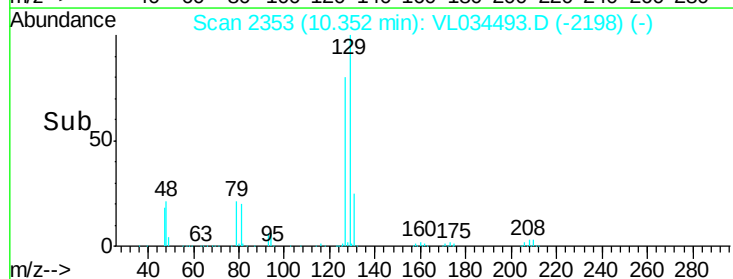
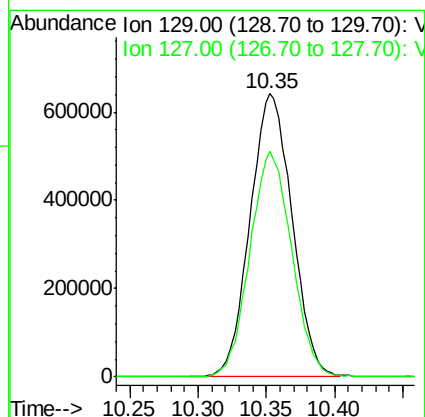
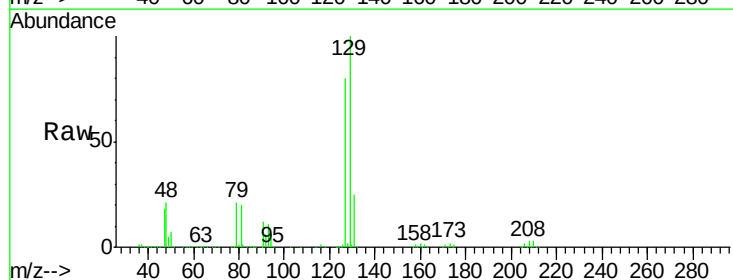
Manual Integrations
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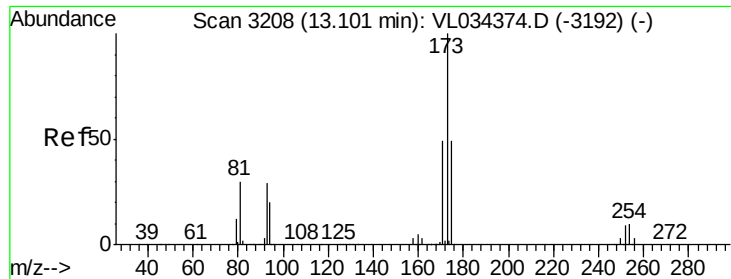
MMDadoda
 12/19/2019 3:46:48 PM



#48
 Dibromochloromethane
 Concen: 9.788 ppbv
 RT: 10.35 min Scan# 2353
 Delta R.T. -0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1372576		
127	79.2		39.1	117.5	





#49

Bromoform

Concen: 10.022 ppbv

RT: 13.10 min Scan# 3208

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1254548

Ion Ratio Lower Upper

173 100

175 48.9 39.3 58.9

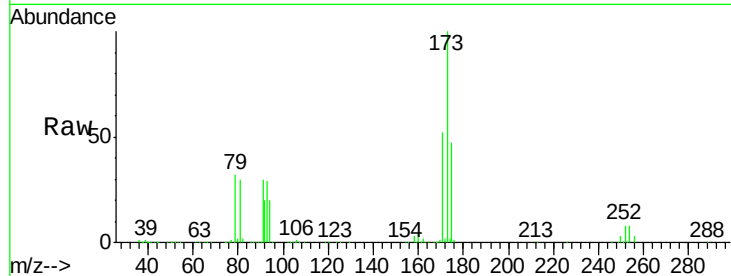
171 51.7 42.4 63.6

Manual Integrations

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MMDadoda

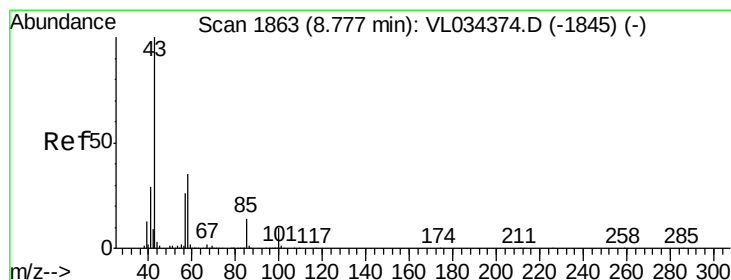
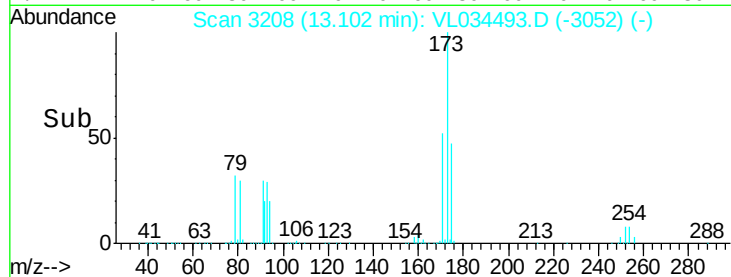
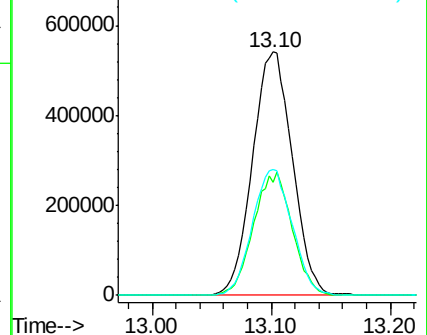
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 8.778 ppbv

RT: 8.77 min Scan# 1862

Delta R.T. -0.00 min

Lab File: VL034493.D

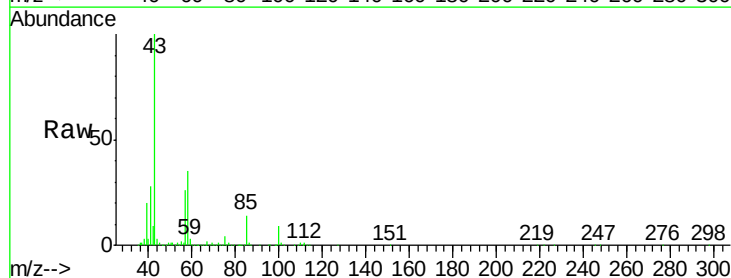
Acq: 17 Dec 2019 13:16

Tgt Ion: 43 Resp: 1993167

Ion Ratio Lower Upper

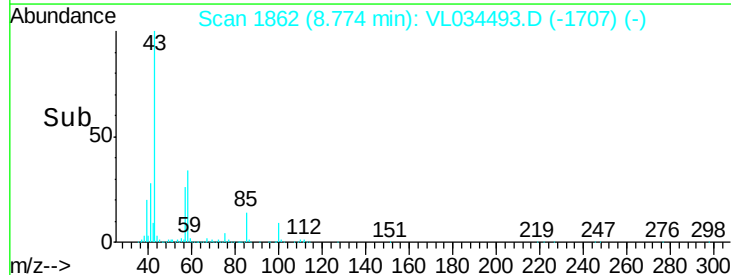
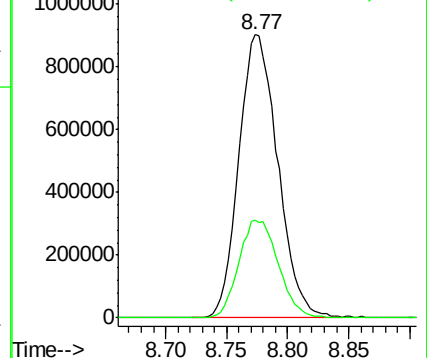
43 100

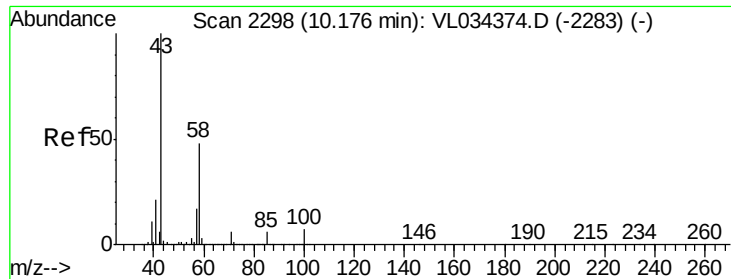
58 35.2 27.9 41.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





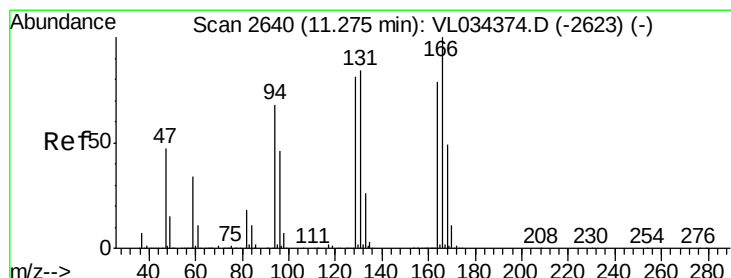
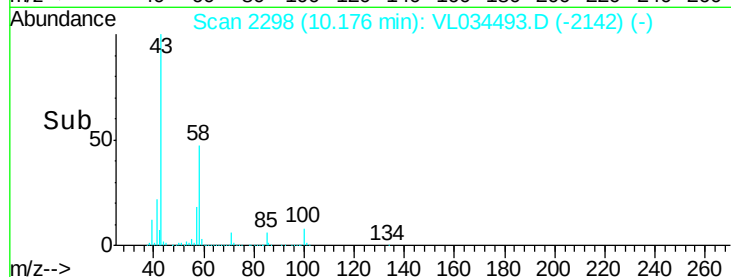
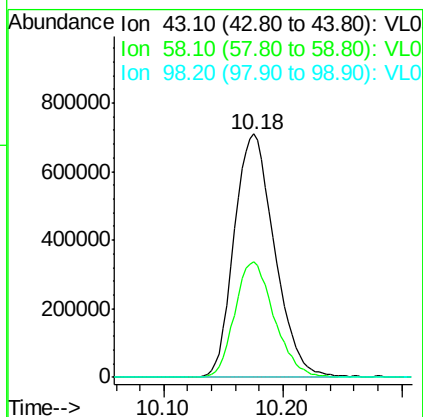
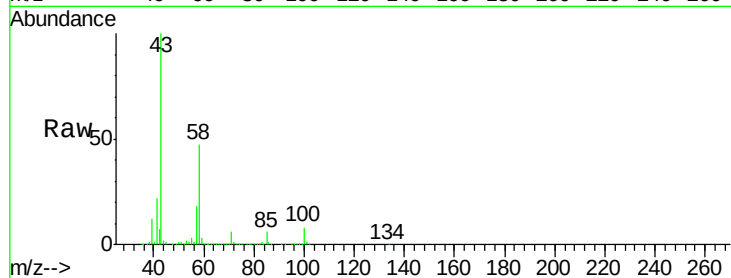
#51
2-Hexanone
Concen: 8.755 ppbv
RT: 10.18 min Scan# 2298
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1665066
Ion Ratio Lower Upper
43 100
58 46.6 38.2 57.4
98 0.2 0.2 0.2

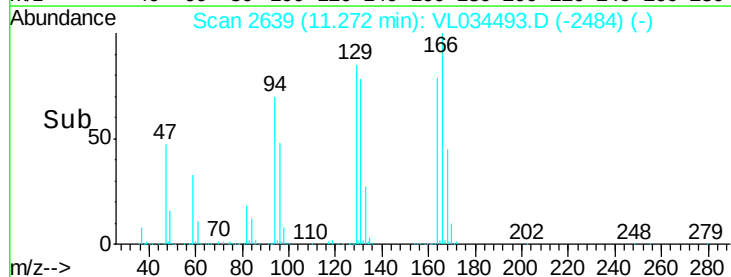
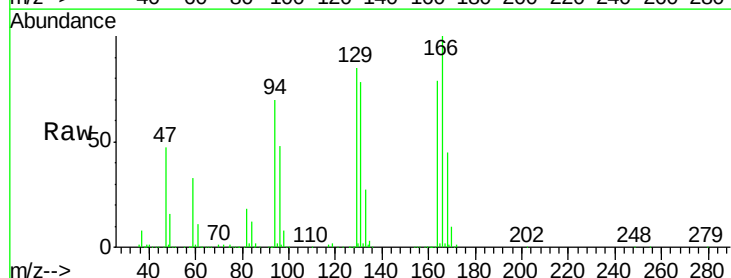
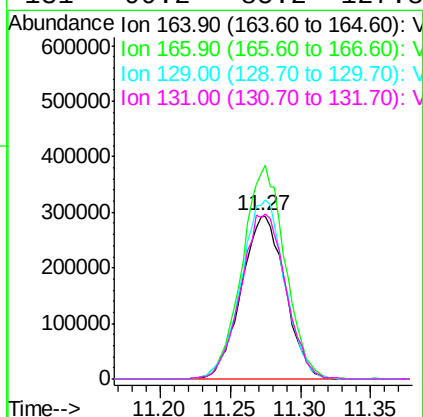
Manual Integrations
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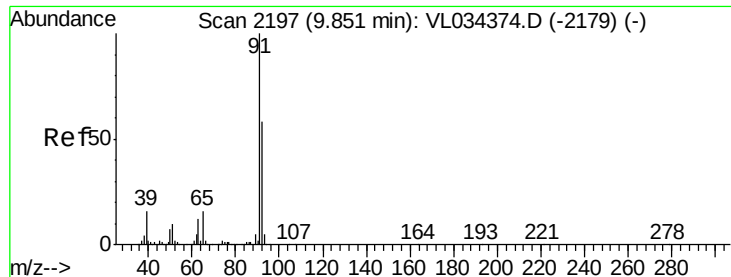
MMDadoda
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#52
Tetrachloroethene
Concen: 7.750 ppbv
RT: 11.27 min Scan# 2639
Delta R.T. -0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Tgt Ion: 164 Resp: 639063
Ion Ratio Lower Upper
164 100
166 126.5 101.7 152.5
129 107.1 82.6 123.8
131 99.2 85.2 127.8





#53

Toluene

Concen: 8.916 ppbv

RT: 9.85 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 1930091

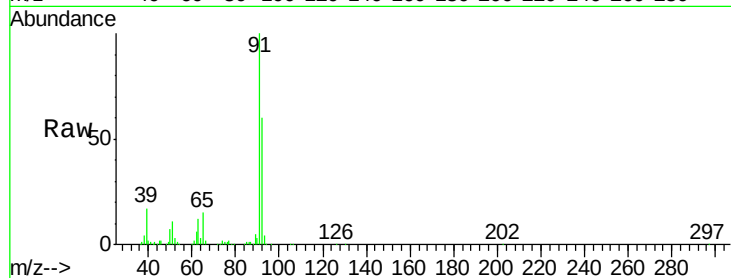
Ion Ratio Lower Upper

91 100

92 60.3 47.9 71.9

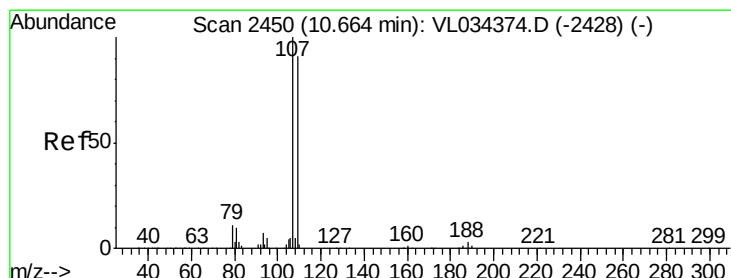
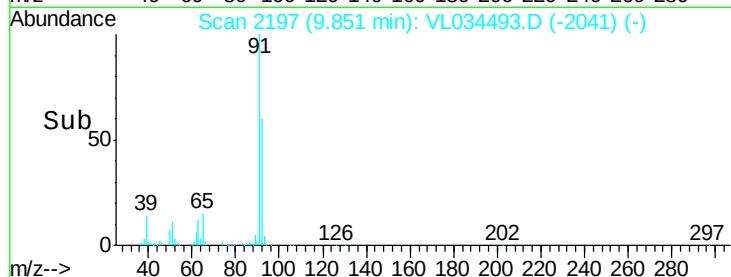
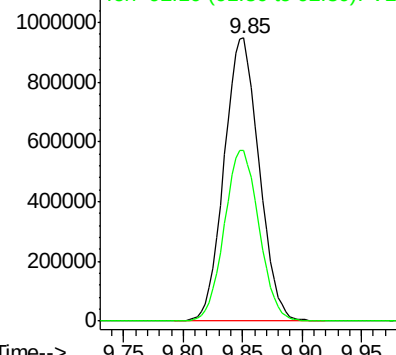
Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 9.145 ppbv

RT: 10.66 min Scan# 2450

Delta R.T. 0.00 min

Lab File: VL034493.D

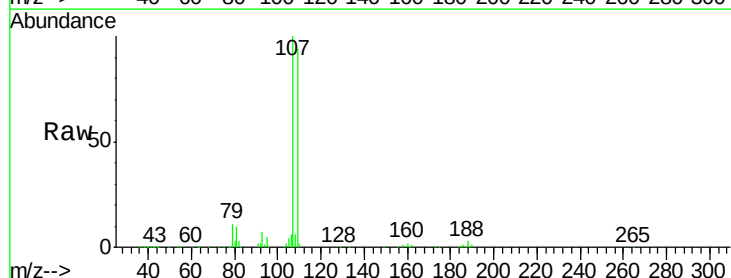
Acq: 17 Dec 2019 13:16

Tgt Ion: 107 Resp: 1145152

Ion Ratio Lower Upper

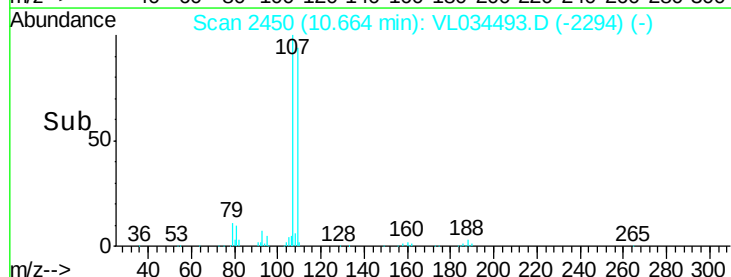
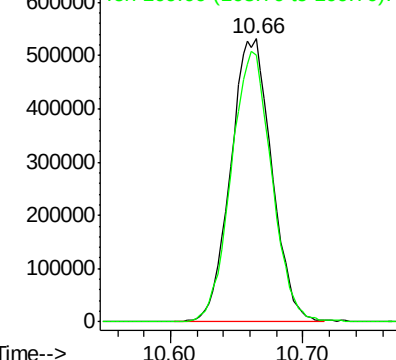
107 100

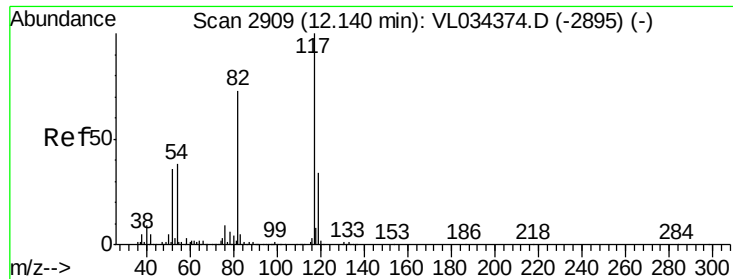
109 94.1 73.0 109.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.14 min Scan# 2909

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 2116204

Ion Ratio Lower Upper

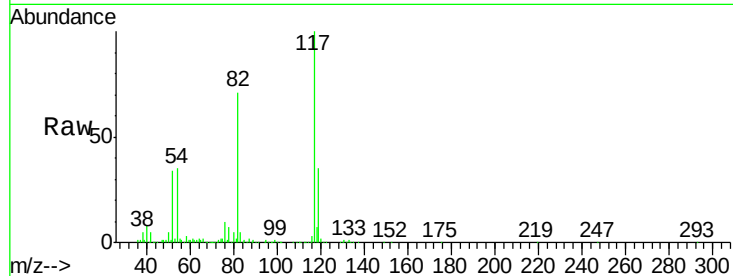
117 100

82 66.4 57.5 86.3

119 31.8 25.4 38.2

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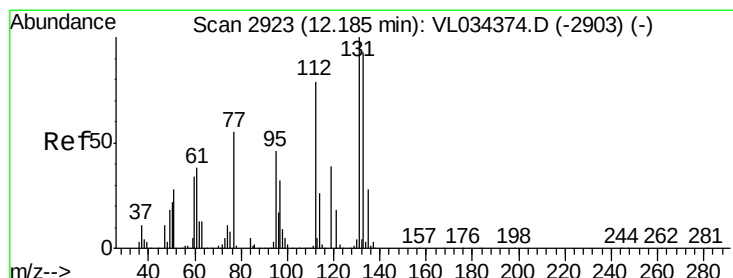
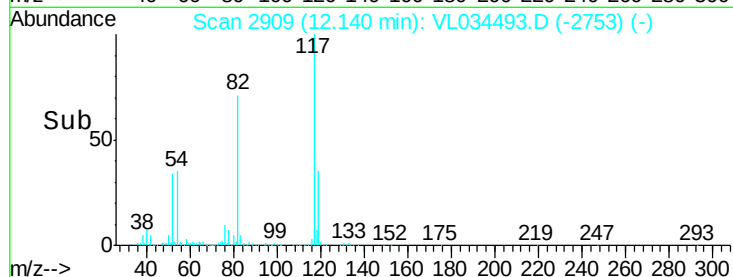
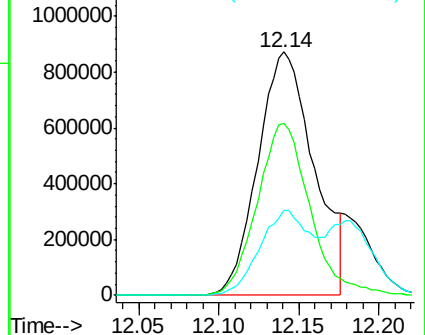
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.009 ppbv

RT: 12.18 min Scan# 2922

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

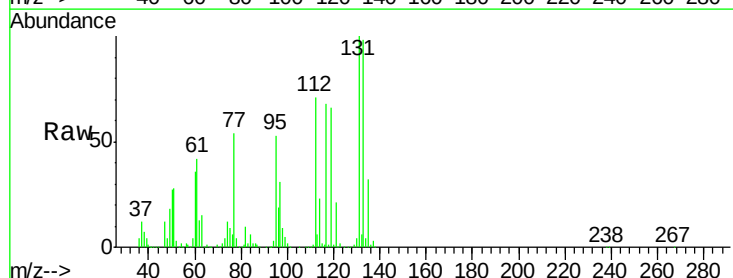
Tgt Ion:131 Resp: 932580

Ion Ratio Lower Upper

131 100

133 96.2 76.2 114.2

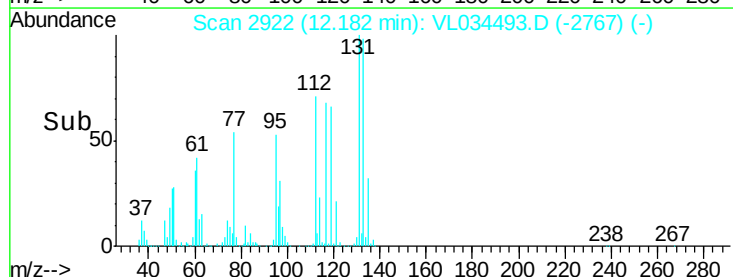
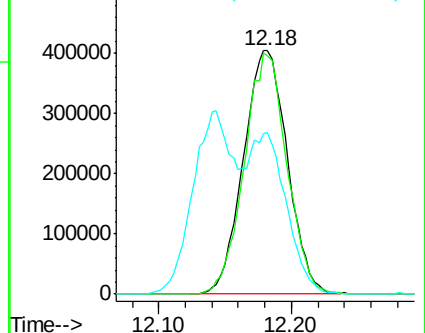
119 61.6 44.6 67.0

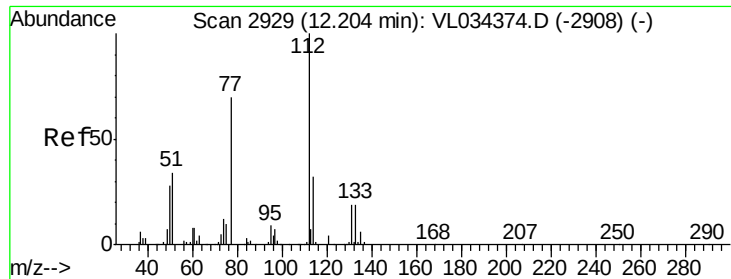


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 7.974 ppbv

RT: 12.20 min Scan# 2928

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 112 Resp: 1525486

Ion Ratio Lower Upper

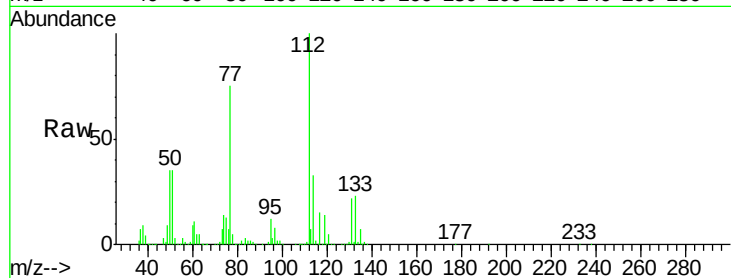
112 100

77 74.6 57.1 85.7

114 32.4 28.5 34.9

Manual Integrations
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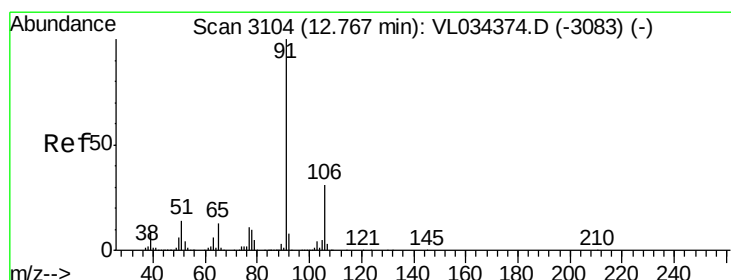
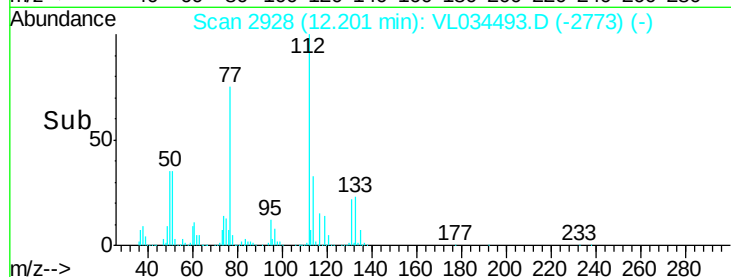
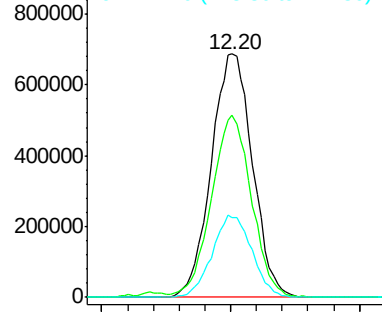
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12/19/2019 3:46:48 PM



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: 8.249 ppbv

RT: 12.76 min Scan# 3103

Delta R.T. -0.00 min

Lab File: VL034493.D

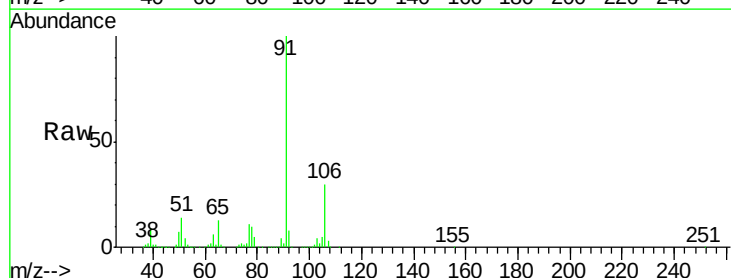
Acq: 17 Dec 2019 13:16

Tgt Ion: 91 Resp: 2709056

Ion Ratio Lower Upper

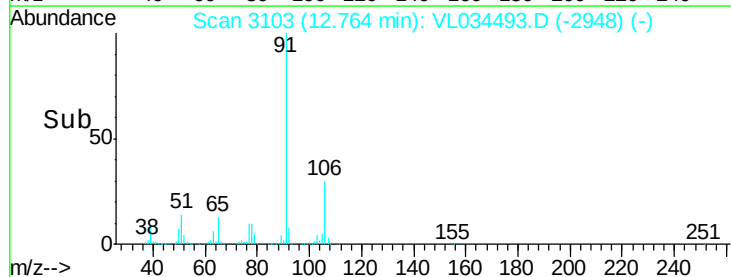
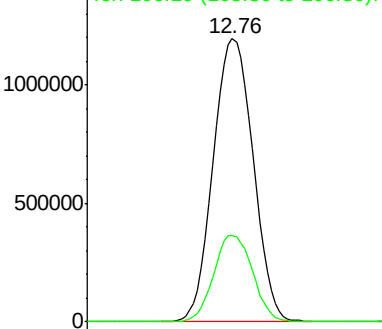
91 100

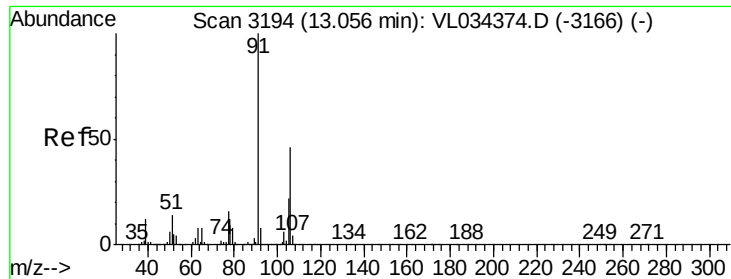
106 30.3 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





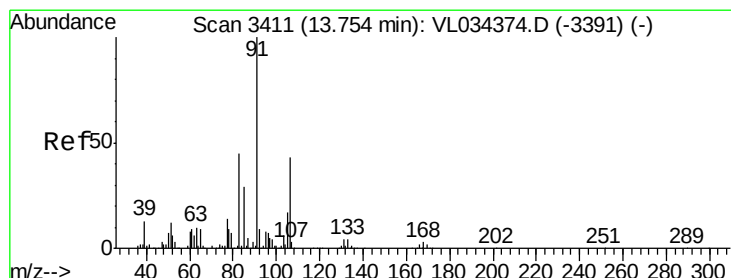
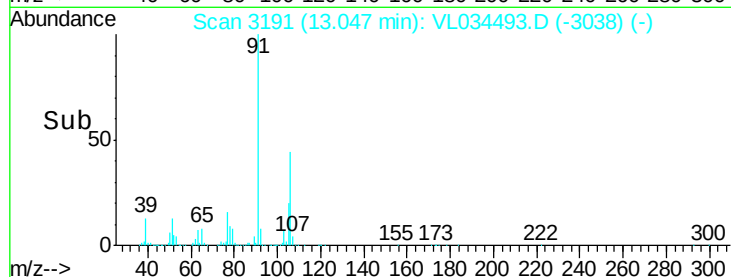
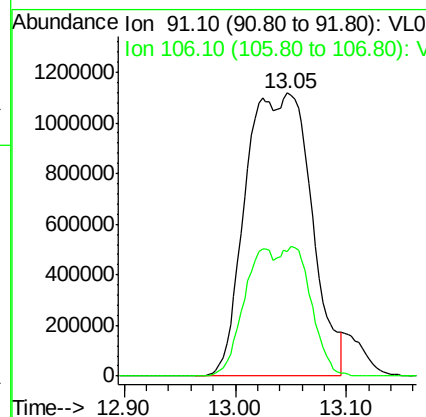
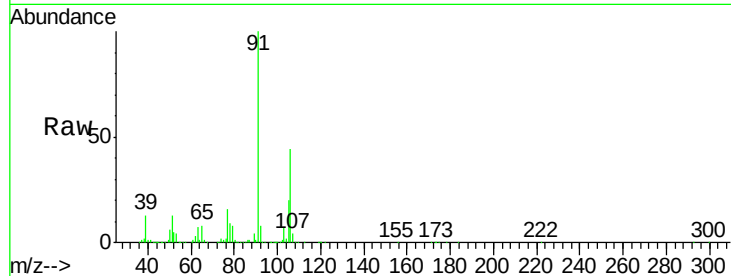
#59
m/p-Xylene
Concen: 16.140 ppbv m
RT: 13.05 min Scan# 3191
Delta R.T. -0.01 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 4581659
Ion Ratio Lower Upper
91 100
106 43.9 34.6 51.8

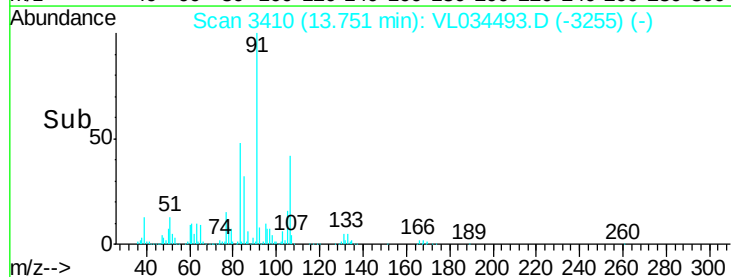
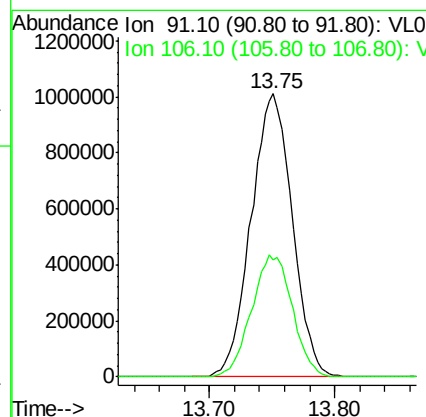
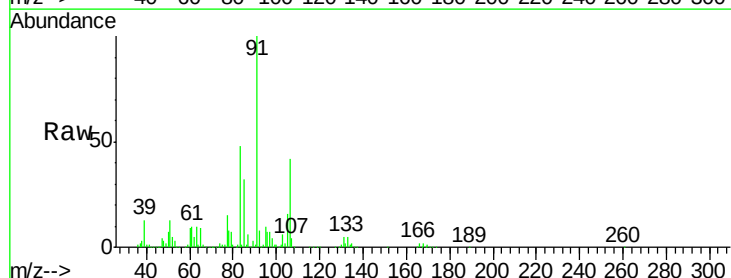
Manual Integrations
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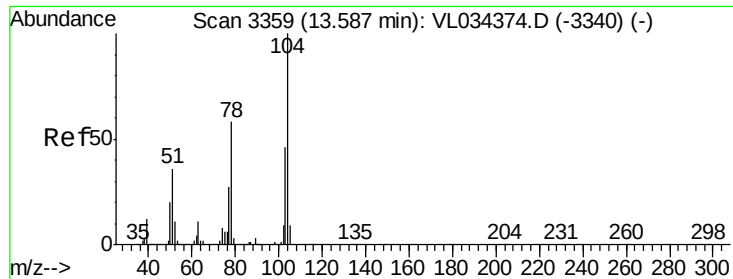
MMDadoda
12/19/2019 3:46:48 PM



#60
o-Xylene
Concen: 8.211 ppbv
RT: 13.75 min Scan# 3410
Delta R.T. -0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Tgt Ion: 91 Resp: 2304530
Ion Ratio Lower Upper
91 100
106 42.8 21.3 64.0





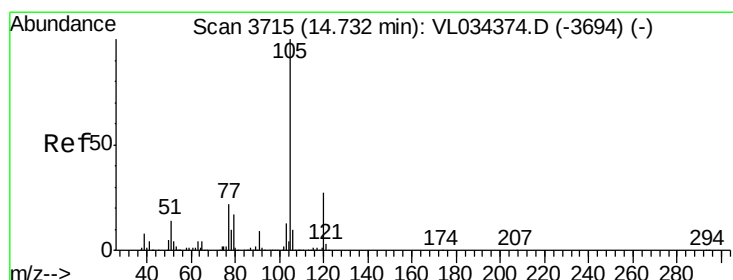
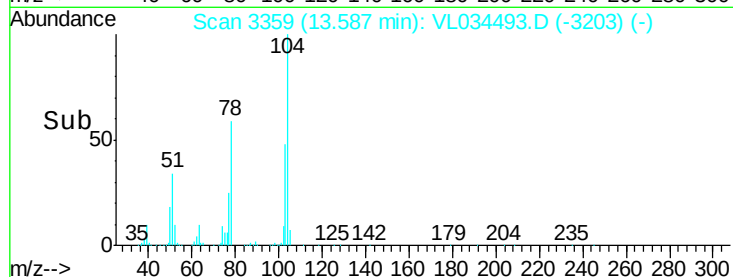
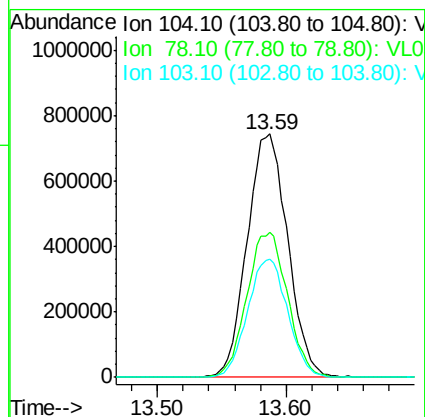
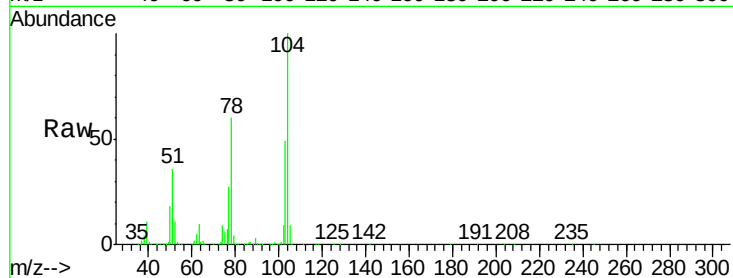
#61
Stvrene
Concen: 8.057 ppbv
RT: 13.59 min Scan# 3359
Delta R.T. 0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	60.0	47.6	71.4
103	48.3	38.6	57.8

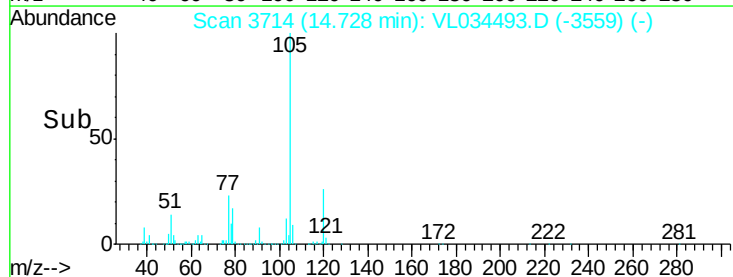
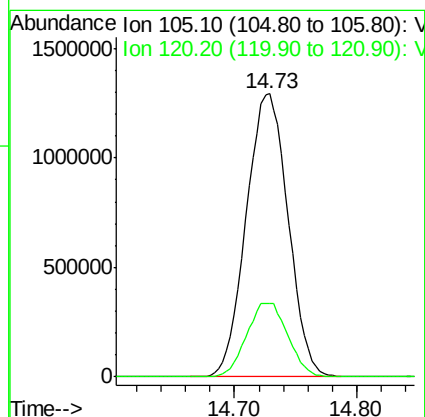
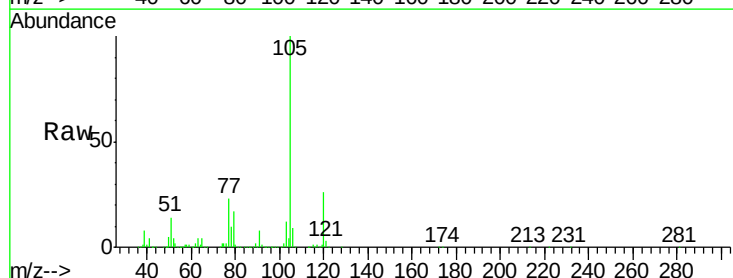
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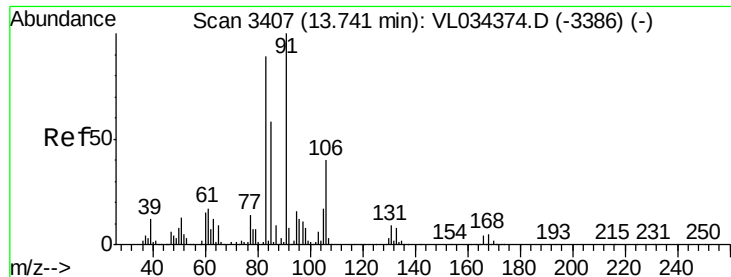
MMDadoda
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#62
Isopropylbenzene
Concen: 8.246 ppbv
RT: 14.73 min Scan# 3714
Delta R.T. -0.00 min
Lab File: VL034493.D
Acq: 17 Dec 2019 13:16

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.7	20.2	30.4





#63

1,1,2,2-Tetrachloroethane

Concen: 7.938 ppbv

RT: 13.74 min Scan# 3406

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 1674773

Ion Ratio Lower Upper

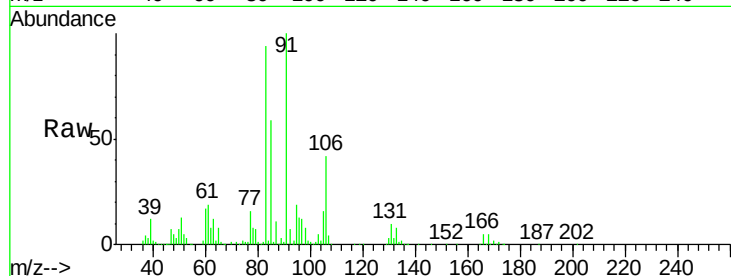
83 100

131 9.7 4.9 14.7

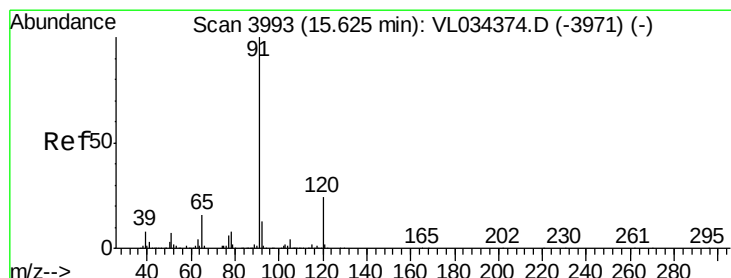
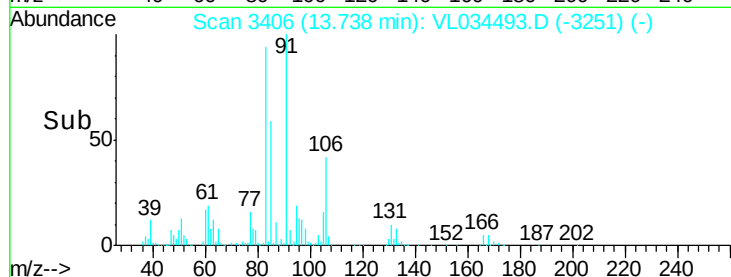
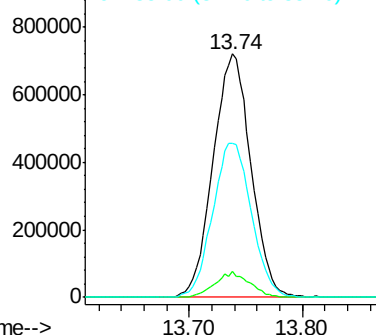
85 65.1 32.6 97.8

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



#64

n-propylbenzene

Concen: 8.272 ppbv

RT: 15.62 min Scan# 3992

Delta R.T. -0.00 min

Lab File: VL034493.D

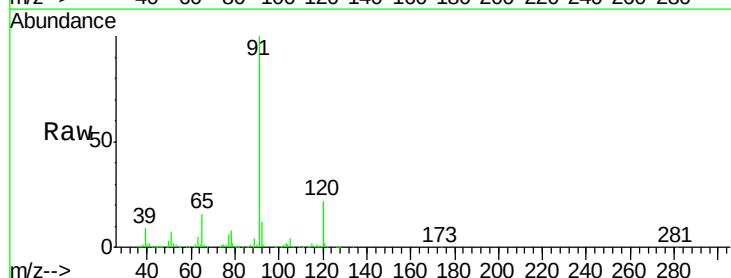
Acq: 17 Dec 2019 13:16

Tgt Ion:120 Resp: 797420

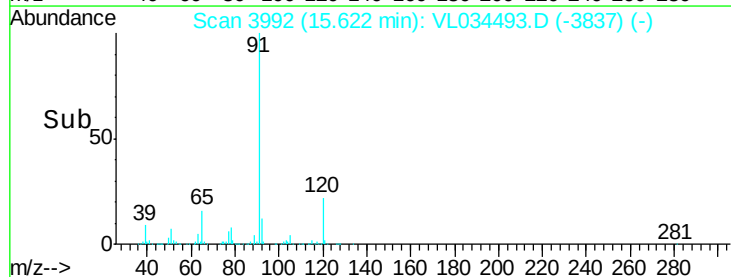
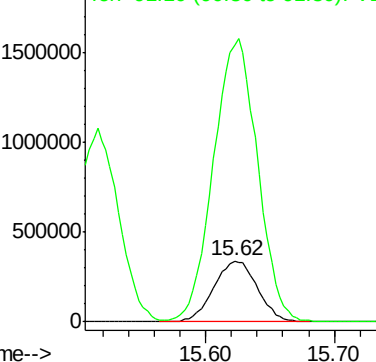
Ion Ratio Lower Upper

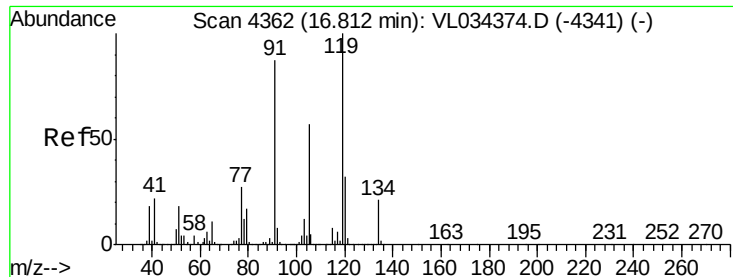
120 100

91 471.0 370.9 556.3



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





#65

tert-Butylbenzene

Concen: 8.373 ppbv

RT: 16.81 min Scan# 4361

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:119 Resp: 2791985

Ion Ratio Lower Upper

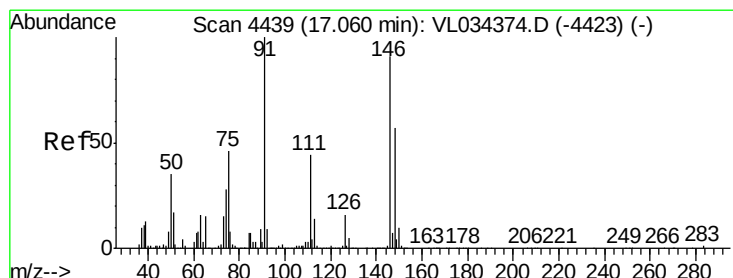
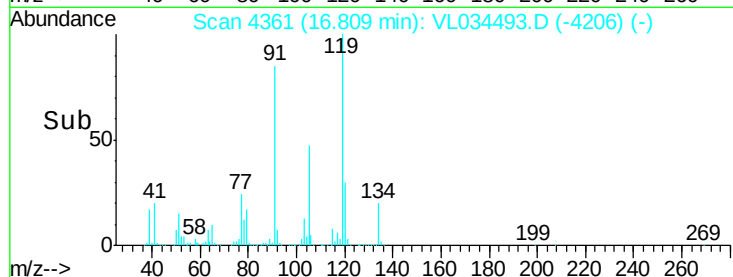
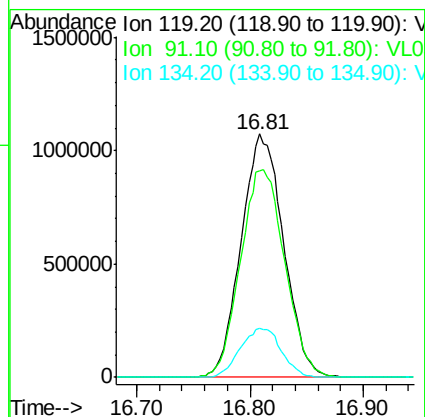
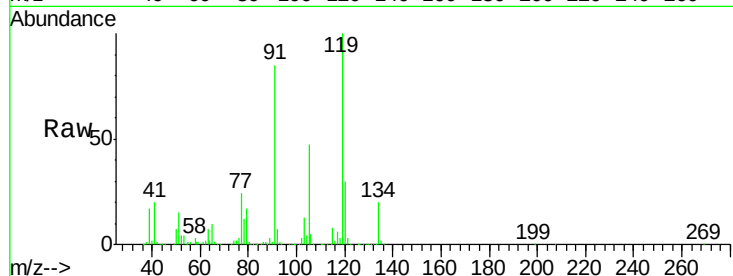
119 100

91 89.6 71.6 107.4

134 19.7 15.9 23.9

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#66

Benzyl Chloride

Concen: 10.420 ppbv

RT: 17.06 min Scan# 4438

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

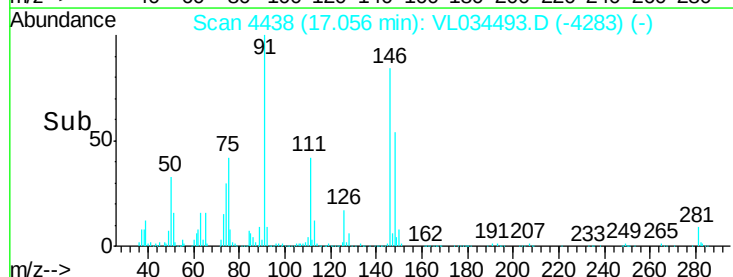
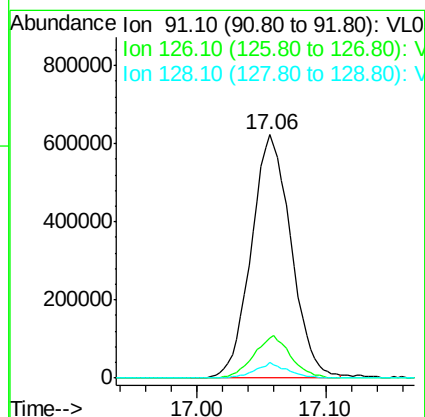
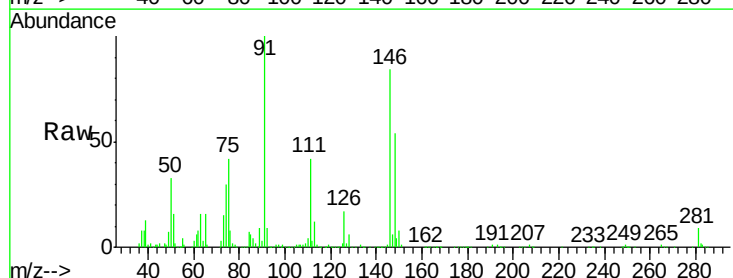
Tgt Ion: 91 Resp: 1336631

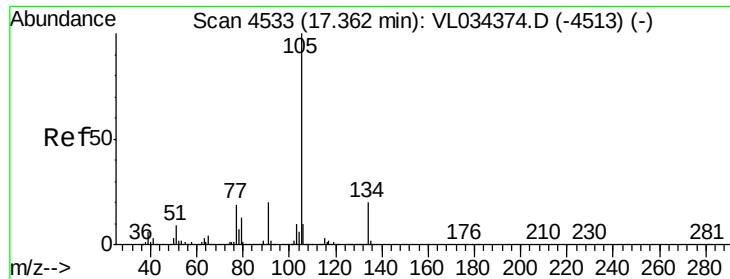
Ion Ratio Lower Upper

91 100

126 16.4 12.9 19.3

128 5.4 4.3 6.5





#67

sec-Butylbenzene

Concen: 8.240 ppbv

RT: 17.36 min Scan# 4533

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 3843508

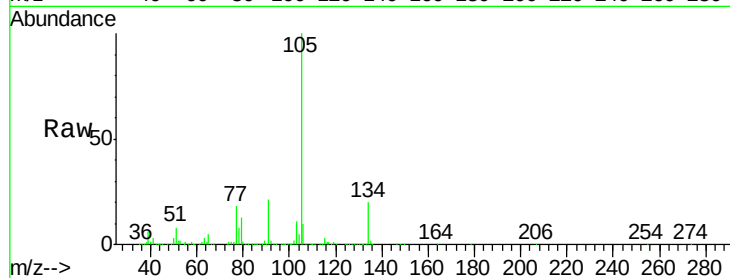
Ion Ratio Lower Upper

105 100

134 18.8 15.0 22.6

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

1500000

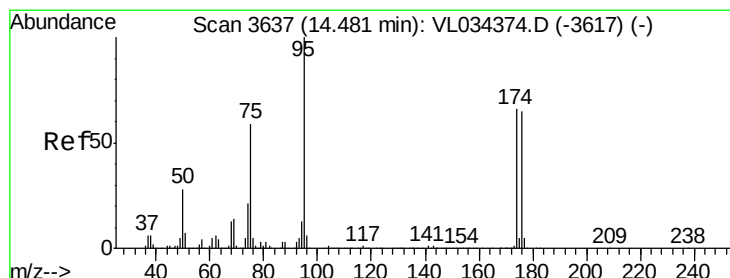
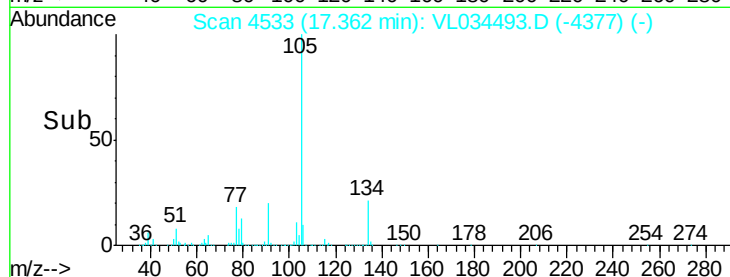
1000000

500000

0

17.30 17.40

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.440 ppbv

RT: 14.48 min Scan# 3636

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

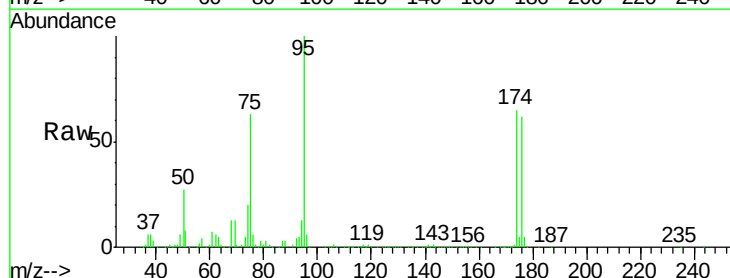
Tgt Ion: 95 Resp: 1680623

Ion Ratio Lower Upper

95 100

174 64.7 52.2 78.2

175 4.6 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

1000000

800000

600000

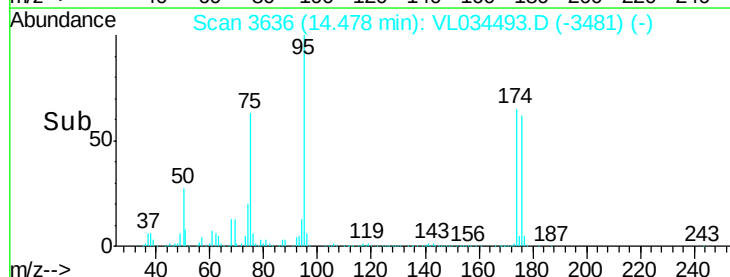
400000

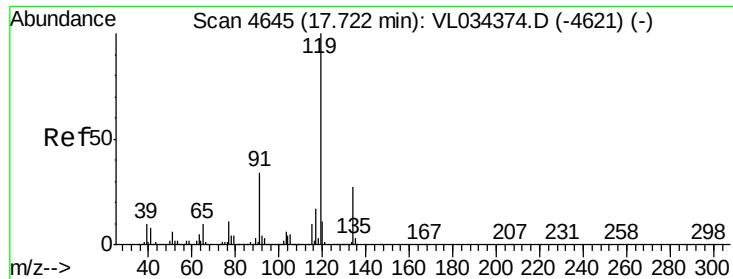
200000

0

14.40 14.50

Time-->





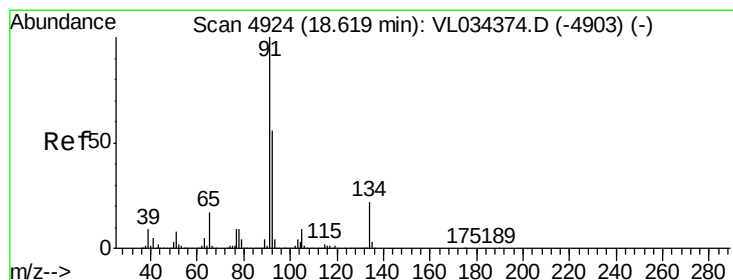
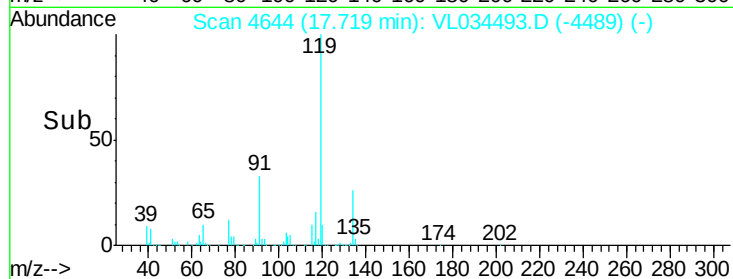
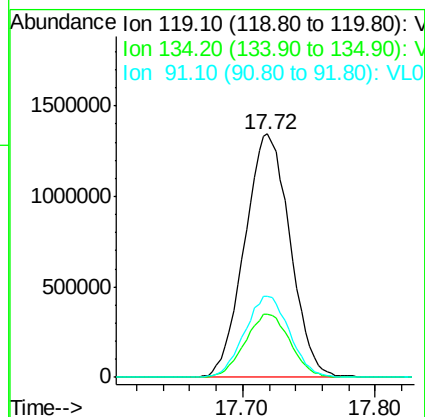
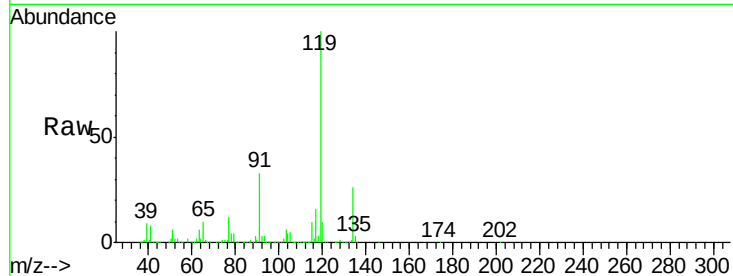
#69
 p-Isopropyltoluene
 Concen: 8.257 ppbv
 RT: 17.72 min Scan# 4644
 Delta R.T. -0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.0	20.6	31.0
91	33.2	26.3	39.5

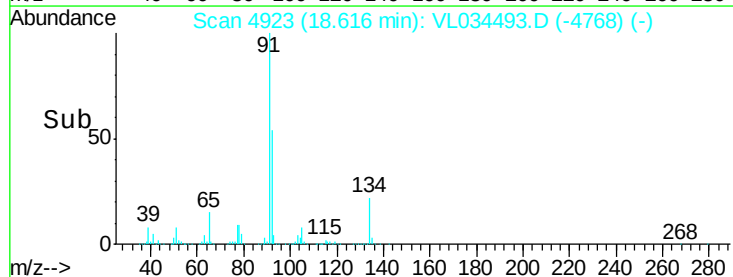
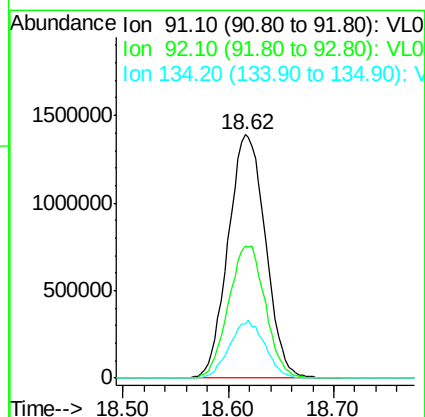
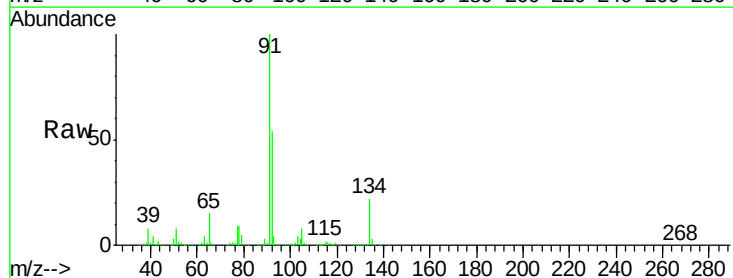
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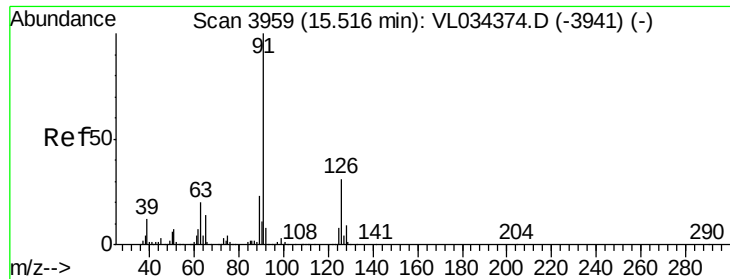
MMDadoda
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#70
 n-Butylbenzene
 Concen: 8.184 ppbv
 RT: 18.62 min Scan# 4923
 Delta R.T. -0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.6	43.8	65.6
134	22.5	17.9	26.9





#71

2-Chlorotoluene

Concen: 8.153 ppbv

RT: 15.52 min Scan# 3959

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2413186

Ion Ratio Lower Upper

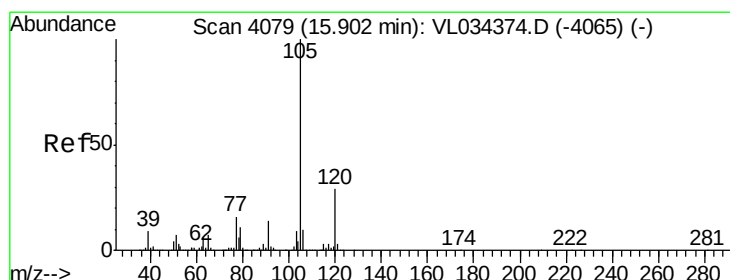
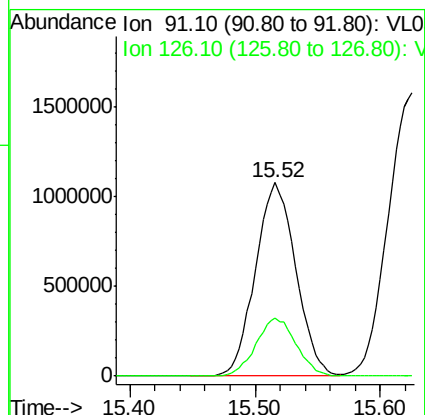
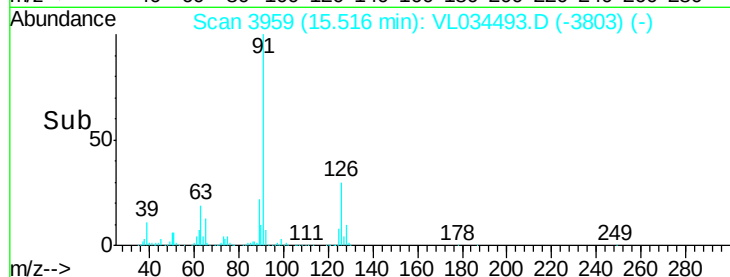
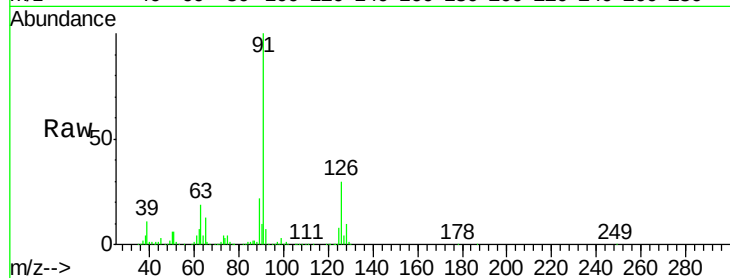
91 100

126 29.9 11.8 47.4

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#72

4-Ethyltoluene

Concen: 8.123 ppbv

RT: 15.90 min Scan# 4079

Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Tgt Ion: 105 Resp: 2634435

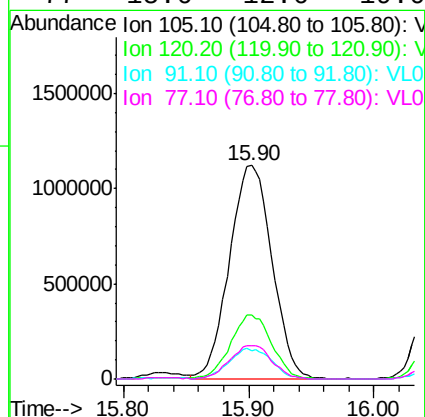
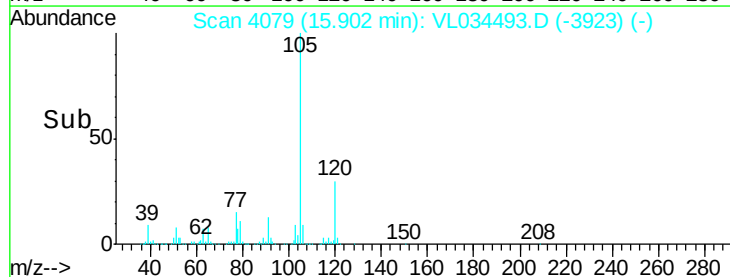
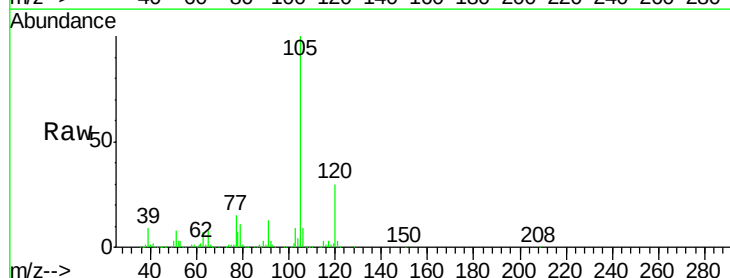
Ion Ratio Lower Upper

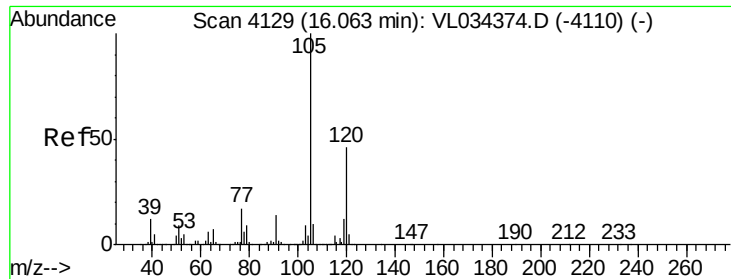
105 100

120 29.4 23.5 35.3

91 14.2 11.4 17.0

77 15.6 12.6 19.0





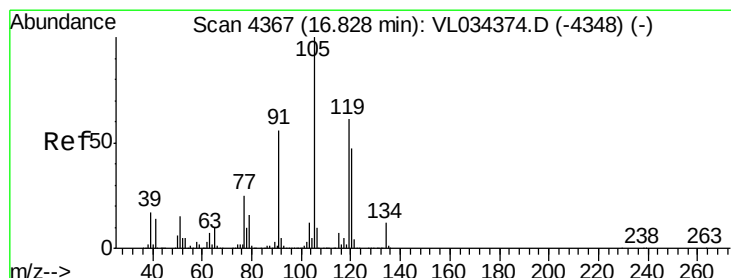
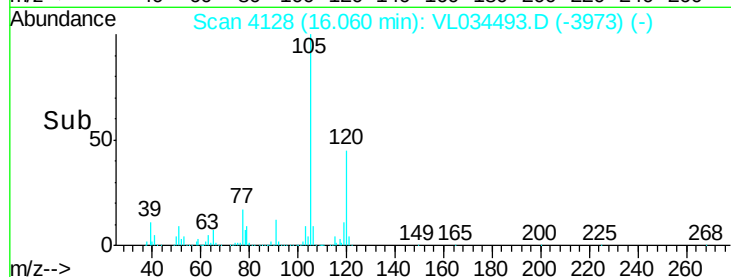
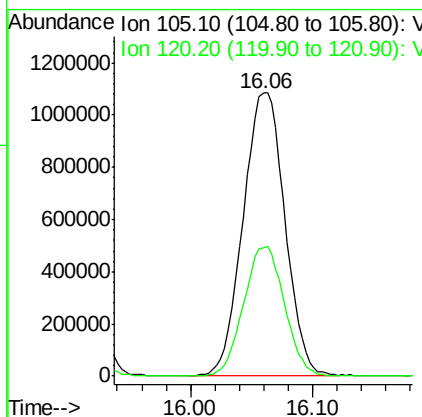
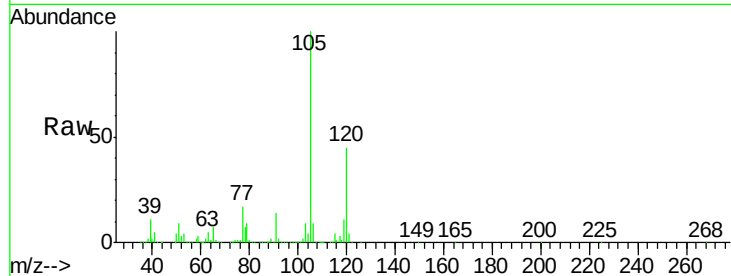
#73
 1,3,5-Trimethylbenzene
 Concen: 8.068 ppbv
 RT: 16.06 min Scan# 4128
 Delta R.T. -0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:105 Resp: 2561127
 Ion Ratio Lower Upper
 105 100
 120 45.3 37.1 55.7

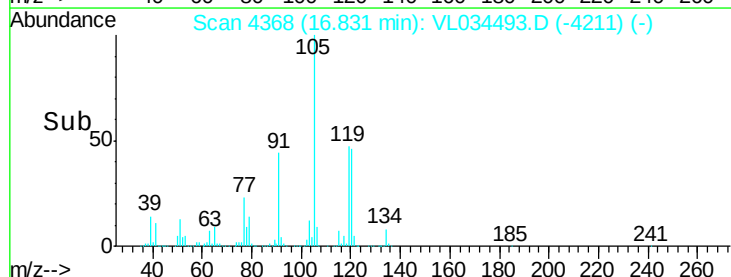
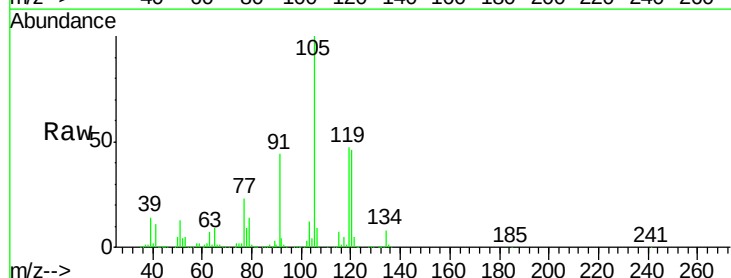
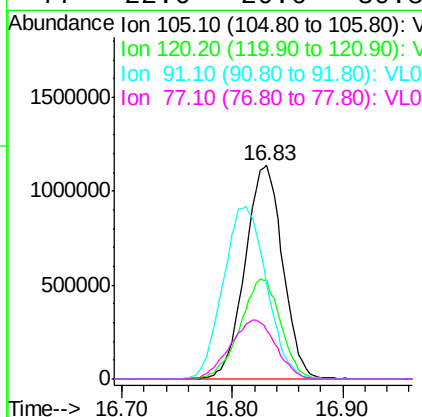
Manual Integrations
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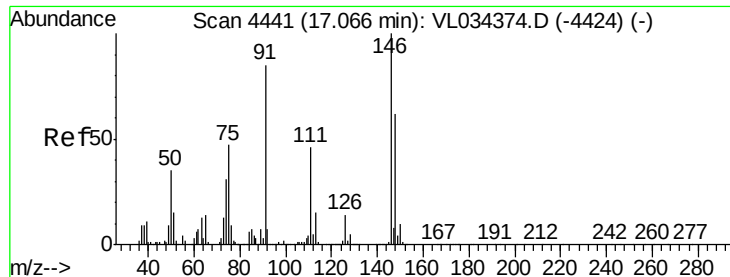
MMDadoda
 12/19/2019 3:46:48 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 7.946 ppbv
 RT: 16.83 min Scan# 4368
 Delta R.T. 0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Tgt Ion:105 Resp: 2679638
 Ion Ratio Lower Upper
 105 100
 120 46.2 37.4 56.0
 91 44.0 46.3 69.5#
 77 22.6 20.6 30.8





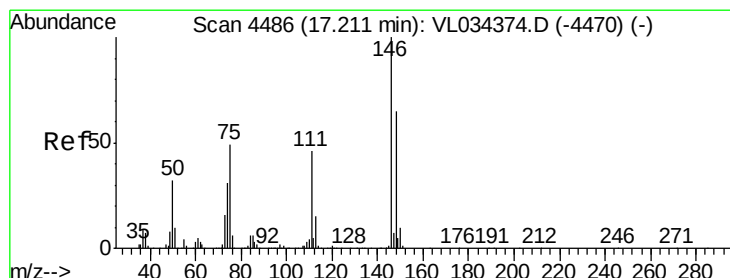
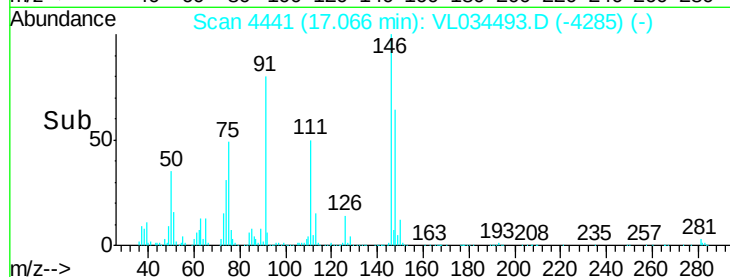
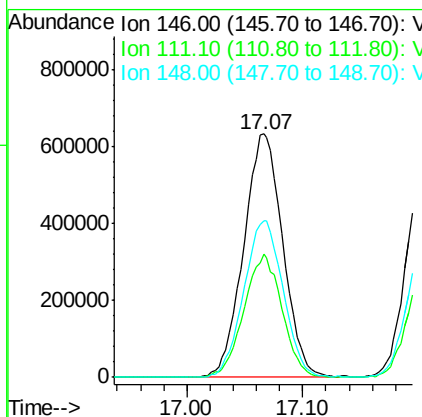
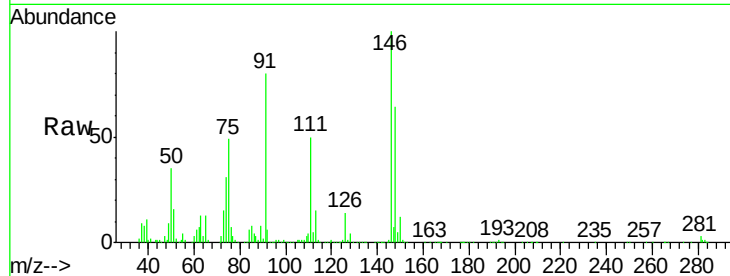
#75
 1,3-Dichlorobenzene
 Concen: 7.658 ppbv
 RT: 17.07 min Scan# 4441
 Delta R.T. 0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 1484255
 Ion Ratio Lower Upper
 146 100
 111 49.3 24.4 73.4
 148 64.7 32.4 97.0

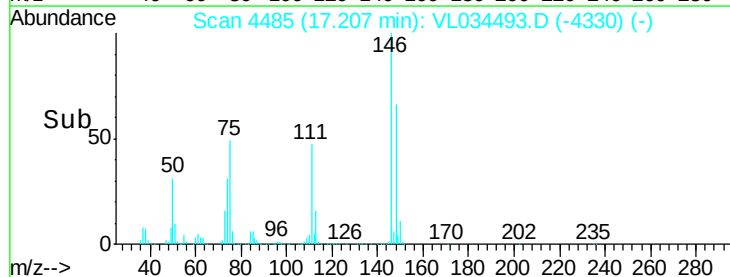
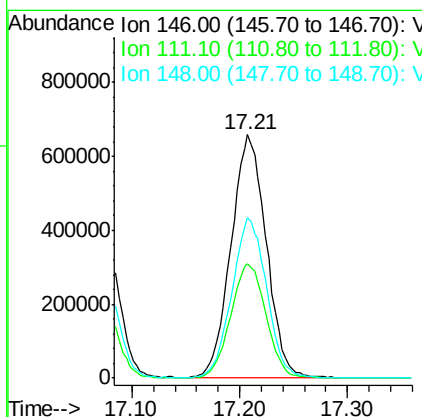
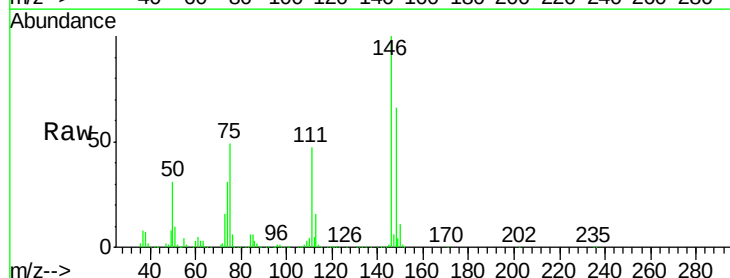
Manual Integrations
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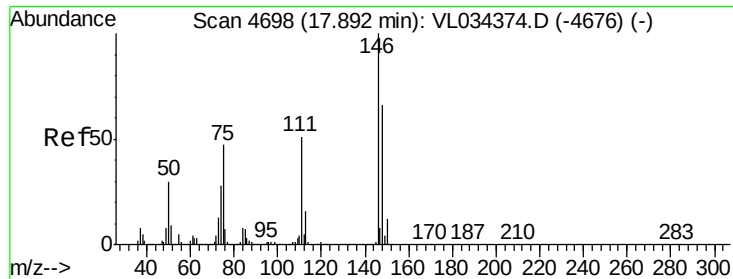
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 12/19/2019 3:46:48 PM



#76
 1,4-Dichlorobenzene
 Concen: 7.917 ppbv
 RT: 17.21 min Scan# 4485
 Delta R.T. -0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Tgt Ion:146 Resp: 1490204
 Ion Ratio Lower Upper
 146 100
 111 47.6 24.1 72.3
 148 65.6 32.9 98.6





#77

1,2-Dichlorobenzene

Concen: 7.891 ppbv

RT: 17.89 min Scan# 4697

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

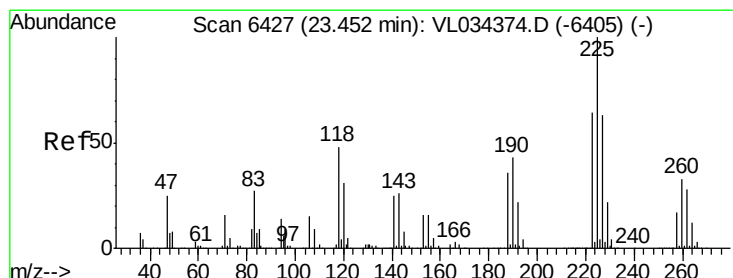
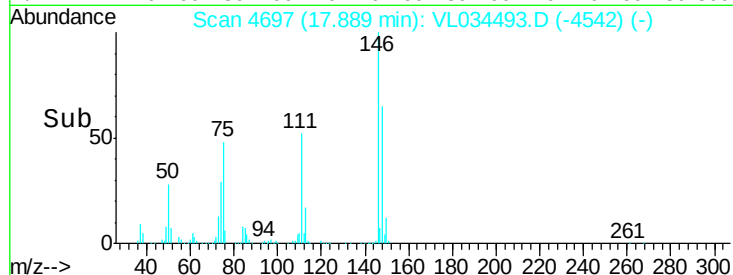
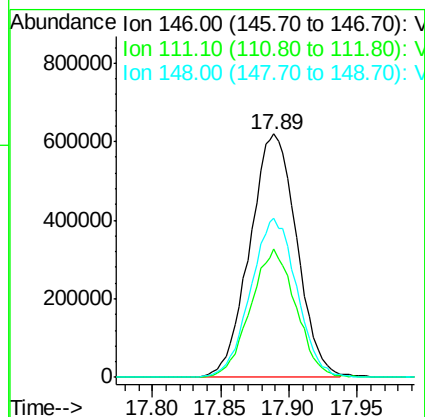
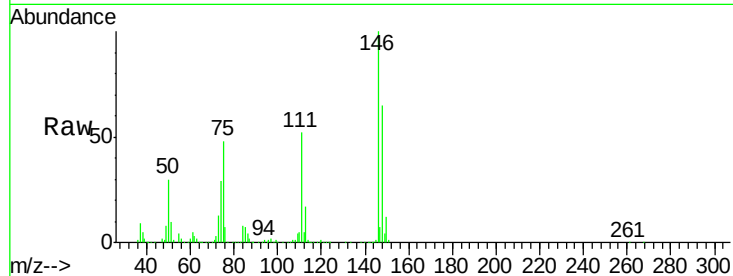
ClientSampleId :

VSTDCCC010

Tot Ion:	146	Resp:	1477224
Ion	Ratio	Lower	Upper
146	100		
111	50.9	25.0	75.0
148	64.6	32.7	98.1

Manual Integrations
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#78

Hexachloro-1,3-Butadiene

Concen: 7.713 ppbv

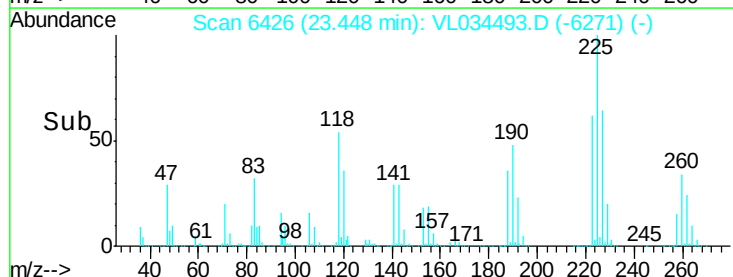
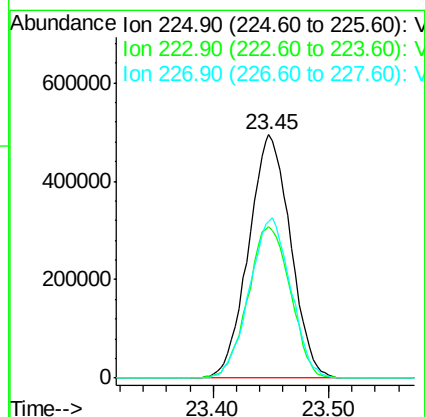
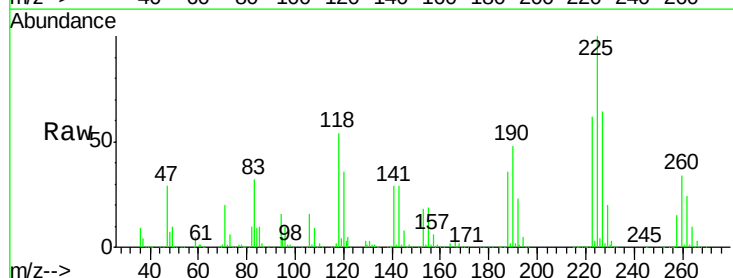
RT: 23.45 min Scan# 6426

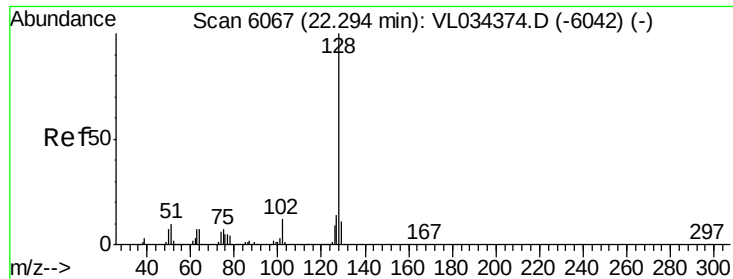
Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Tgt Ion:	225	Resp:	1240573
Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.2	75.2
227	64.9	51.5	77.3





#79

Naphthalene

Concen: 7.696 ppbv

RT: 22.29 min Scan# 6066

Delta R.T. -0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Instrument :

MSVOA_L

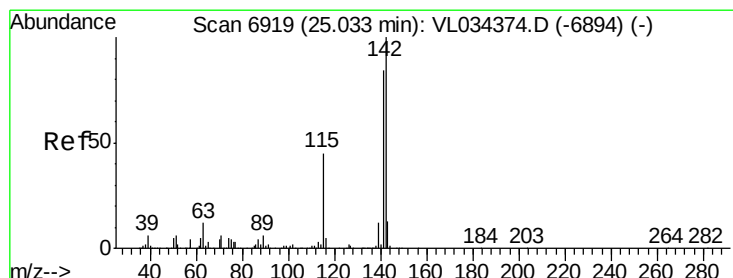
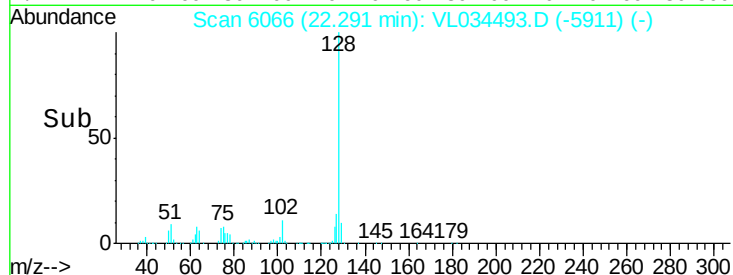
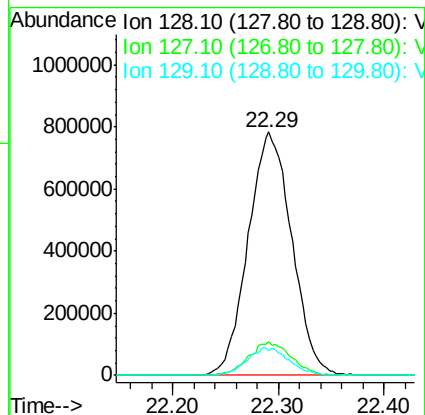
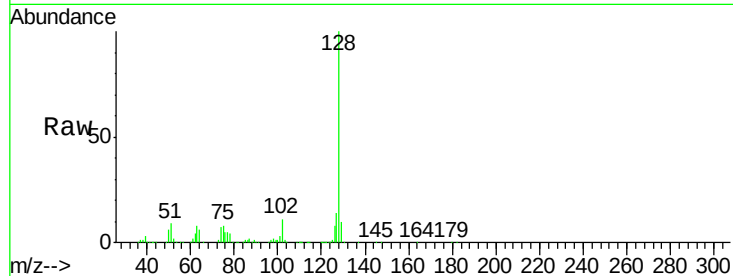
ClientSampleId :

VSTDCCC010

Tot Ion:	128	Resp:	2249753
Ion	Ratio	Lower	Upper
128	100		
127	13.6	11.0	16.6
129	10.3	8.9	13.3

Manual Integrations
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MMDadoda
12/19/2019 3:46:48 PM



#80

Naphthalene, 2-methyl-

Concen: 4.591 ppbv

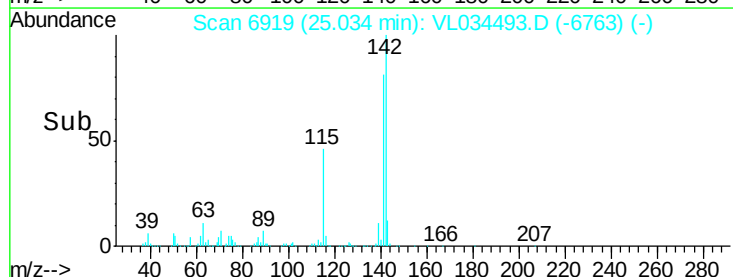
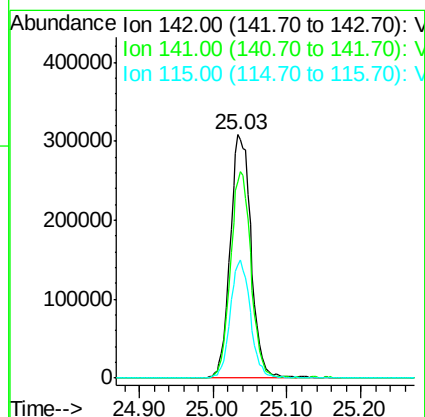
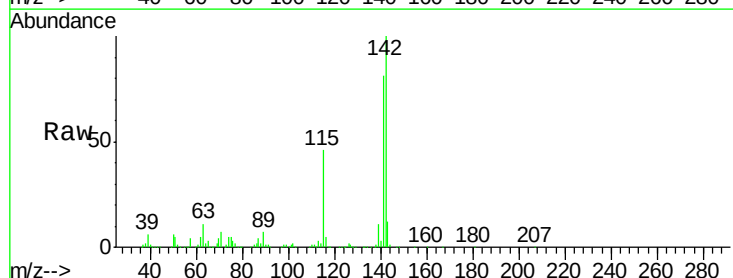
RT: 25.03 min Scan# 6919

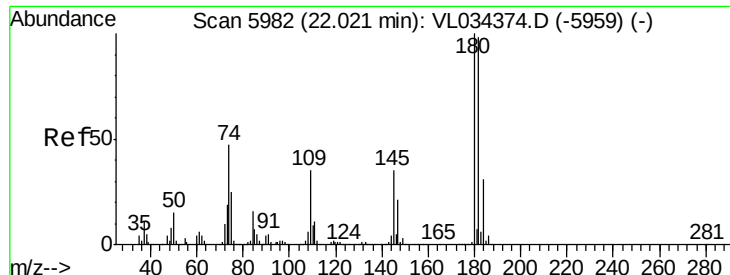
Delta R.T. 0.00 min

Lab File: VL034493.D

Acq: 17 Dec 2019 13:16

Tgt Ion:	142	Resp:	605990
Ion	Ratio	Lower	Upper
142	100		
141	83.3	67.1	100.7
115	46.6	36.6	54.8





#81
 1,2,4-Trichlorobenzene
 Concen: 7.059 ppbv
 RT: 22.02 min Scan# 5982
 Delta R.T. 0.00 min
 Lab File: VL034493.D
 Acq: 17 Dec 2019 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.9	76.8	115.2
184	31.3	24.9	37.3

Manual Integrations
 APPROVED

MMDadoda
 12/19/2019 3:46:48 PM

