

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090320\
 Data File : VL035551.D
 Acq On : 4 Sep 2020 9:37
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 9/8/2020 5:13:16 PM

Quant Time: Sep 04 11:58:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 2020
 QLast Update : Thu Aug 27 06:46:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	995434	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	4236495	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	4602242m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	3192807	9.77	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.70%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	1472690	8.537	ppbv	99
3) Chlorodifluoromethane	2.99	51	1145530	10.405	ppbv	99
4) Chloromethane	3.14	50	631655	10.709	ppbv	100
5) Vinyl Chloride	3.26	62	741335	10.195	ppbv	99
6) Bromomethane	3.47	94	653659	10.702	ppbv	99
7) Chloroethane	3.56	64	280019	10.892	ppbv	98
8) Dichlorotetrafluoroethane	3.19	85	2116235	10.129	ppbv	97
9) Propene	3.01	41	446178	10.512	ppbv	100
10) Heptane	8.14	43	1260167	11.054	ppbv	100
11) Trichlorofluoromethane	3.95	101	2594262	10.312	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1978768	10.421	ppbv	98
13) Ethanol	3.61	45	110642	10.514	ppbv	97
14) Bromoethene	3.74	108	892937	10.926	ppbv	99
15) Acetone	3.85	43	1169722	10.654	ppbv	99
16) 1,3-Butadiene	3.33	39	453979	11.108	ppbv	99
17) tert-Butyl alcohol	4.30	59	1465322	10.965	ppbv	100
18) 1,1-Dichloroethene	4.29	96	913698	10.928	ppbv	99
19) Isopropyl Alcohol	3.97	45	740339	11.304	ppbv #	98
20) Methylene Chloride	4.35	84	735241	8.992	ppbv	99
21) Allyl Chloride	4.42	41	601793	11.700	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	964183	10.832	ppbv	98
23) Vinyl Acetate	5.09	43	1656616	11.756	ppbv	99
24) 1,1-Dichloroethane	5.02	63	1552708	10.707	ppbv	100
25) Ethyl Acetate	5.69	43	2058663	10.614	ppbv	100
26) Hexane	5.70	57	1171554	10.661	ppbv	100
27) Carbon Disulfide	4.56	76	1918362	12.165	ppbv	100
28) Methyl tert-Butyl Ether	5.04	73	2090236	10.913	ppbv	100
29) Chloroform	5.77	83	2377007	10.616	ppbv	100
30) Cyclohexane	7.15	84	1328758	11.287	ppbv	99
31) cis-1,2-Dichloroethene	5.56	61	1263064	11.203	ppbv	99
32) 1,1,1-Trichloroethane	6.53	97	2353615	10.836	ppbv	99
34) 2-Butanone	5.26	43	1442446	11.473	ppbv	100
35) Carbon Tetrachloride	7.04	117	2487711	11.684	ppbv	99
36) Benzene	6.91	78	3061237	11.163	ppbv	100
37) 1,2-Dichloroethane	6.32	62	1453052	11.114	ppbv	100
38) Trichloroethene	7.86	130	1610915	10.113	ppbv	96
39) 1,2-Dichloropropane	7.63	63	1029421	11.112	ppbv	99
40) 1,4-Dioxane	7.85	88	550159	11.888	ppbv	94
41) Tetrahydrofuran	6.06	42	801167	12.017	ppbv	99
42) Bromodichloromethane	7.81	83	2500731	11.828	ppbv	99
43) Methyl Methacrylate	8.04	69	1294922	12.212	ppbv	99

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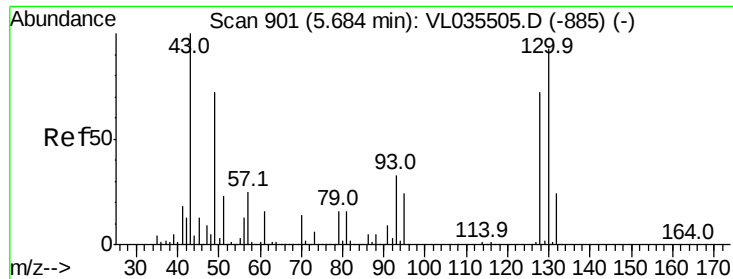
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3967557	10.996	ppbv	100
45) t-1,3-Dichloropropene	9.30	75	1433698	13.346	ppbv	99
46) cis-1,3-Dichloropropene	8.73	75	1703461	12.772	ppbv	98
47) 1,1,2-Trichloroethane	9.50	97	1517097	11.098	ppbv	99
48) Dibromochloromethane	10.33	129	2629461	12.222	ppbv	100
49) Bromoform	13.07	173	2437182	12.500	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	2132133	11.711	ppbv	100
51) 2-Hexanone	10.16	43	1855336	12.423	ppbv	100
52) Tetrachloroethene	11.25	164	1642225	10.251	ppbv	98
53) Toluene	9.83	91	3931259	11.400	ppbv	100
54) 1,2-Dibromoethane	10.64	107	2420037	11.204	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.16	131	2057768	10.989	ppbv	98
57) Chlorobenzene	12.18	112	3409120	10.065	ppbv	99
58) Ethyl Benzene	12.74	91	5163322	10.880	ppbv	100
59) m/p-Xylene	13.03	91	8759981m	22.090	ppbv	
60) o-Xylene	13.73	91	4282054	10.721	ppbv	99
61) Styrene	13.56	104	3509338	11.488	ppbv	99
62) Isopropylbenzene	14.70	105	6525977	10.172	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.71	83	3043374	9.828	ppbv	100
64) n-propylbenzene	15.60	120	2101361	10.733	ppbv	96
65) tert-Butylbenzene	16.78	119	6216554	10.423	ppbv	99
66) Benzyl Chloride	17.03	91	2141555	14.448	ppbv	98
67) sec-Butylbenzene	17.33	105	8087504	10.178	ppbv	99
69) p-Isopropyltoluene	17.69	119	7150358	10.259	ppbv	99
70) n-Butylbenzene	18.59	91	7023295	10.461	ppbv	99
71) 2-Chlorotoluene	15.49	91	5035263	10.777	ppbv	98
72) 4-Ethyltoluene	15.88	105	5486990	10.806	ppbv	100
73) 1,3,5-Trimethylbenzene	16.03	105	5065159	10.785	ppbv	99
74) 1,2,4-Trimethylbenzene	16.80	105	5329821	10.334	ppbv	98
75) 1,3-Dichlorobenzene	17.03	146	3816078	9.989	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	3866311	10.262	ppbv	99
77) 1,2-Dichlorobenzene	17.85	146	3720559	10.052	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	2299397	9.731	ppbv	100
79) Naphthalene	22.25	128	6423882	11.225	ppbv	100
80) Naphthalene, 2-methyl-	25.01	142	2657506	13.605	ppbv	100
81) 1,2,4-Trichlorobenzene	21.98	180	3566724	10.408	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.00 min

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MSVOA_L

ClientSampleId :

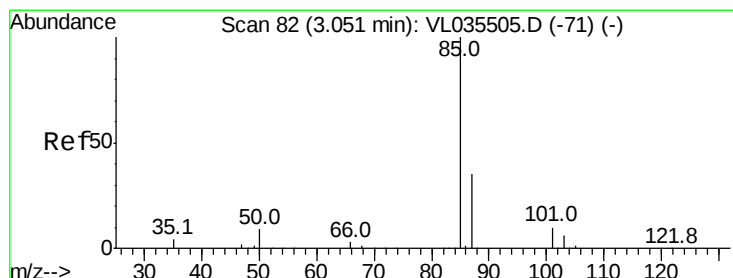
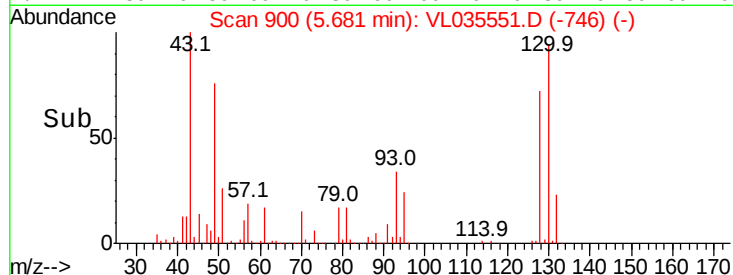
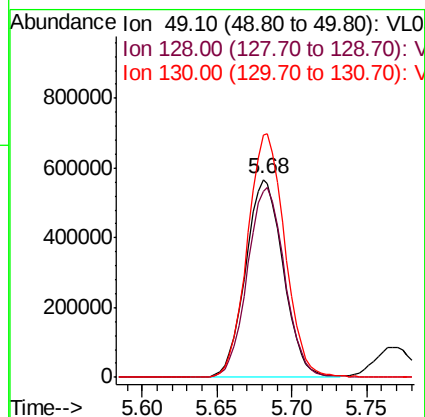
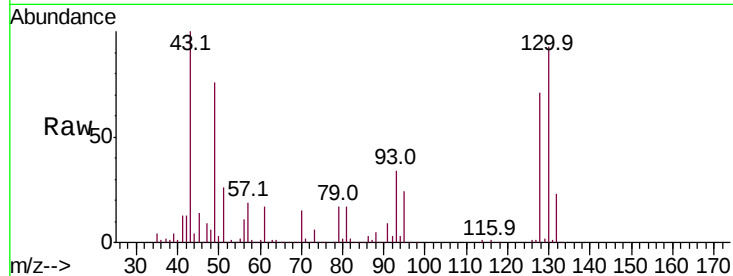
VSTDCCC010EC

Tot Ion: 49 Resp: 995434

Ion	Ratio	Lower	Upper
49	100		
128	95.3	50.0	150.1
130	122.4	64.4	193.2

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#2

Dichlorodifluoromethane

Concen: 8.537 ppbv

RT: 3.05 min Scan# 82

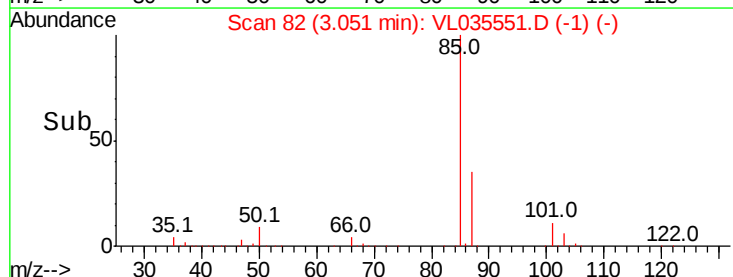
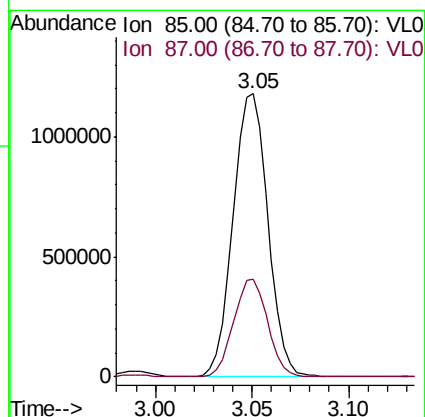
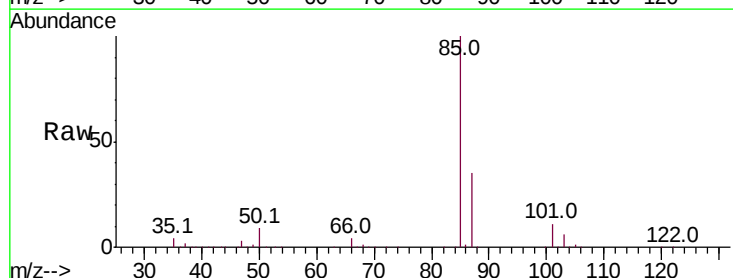
Delta R.T. -0.00 min

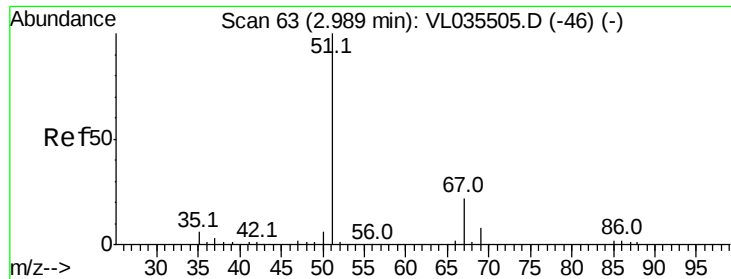
Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Tgt Ion: 85 Resp: 1472690

Ion	Ratio	Lower	Upper
85	100		
87	34.6	28.0	42.0





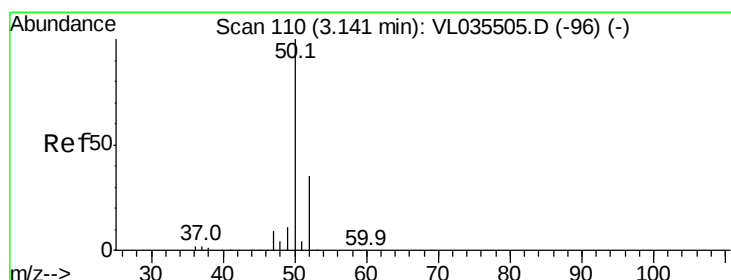
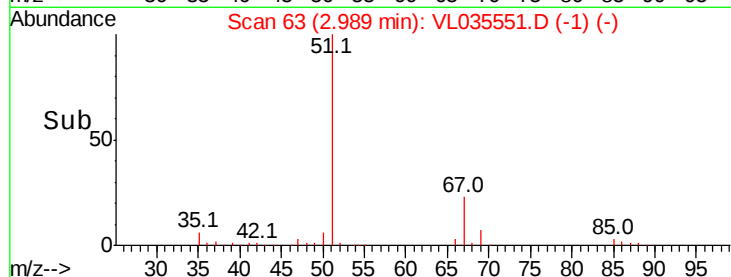
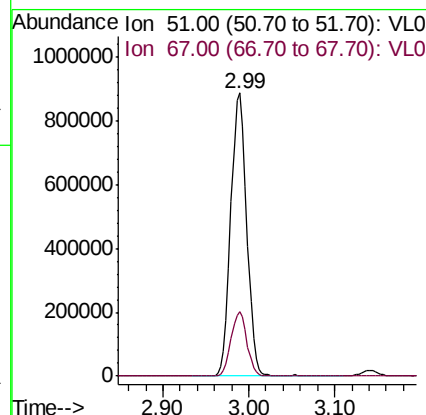
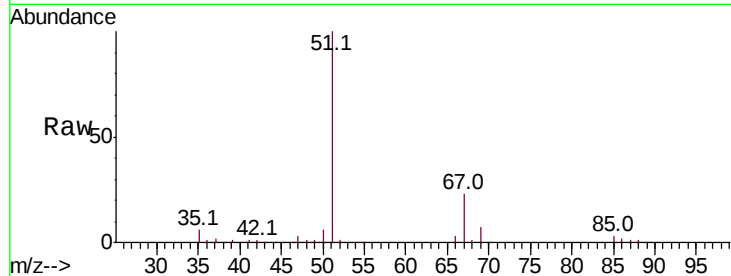
#3
Chlorodifluoromethane
Concen: 10.405 ppbv
RT: 2.99 min Scan# 63
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

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VSTDCCC010EC

Tot Ion: 51 Resp: 1145530
Ion Ratio Lower Upper
51 100
67 22.6 17.8 26.8

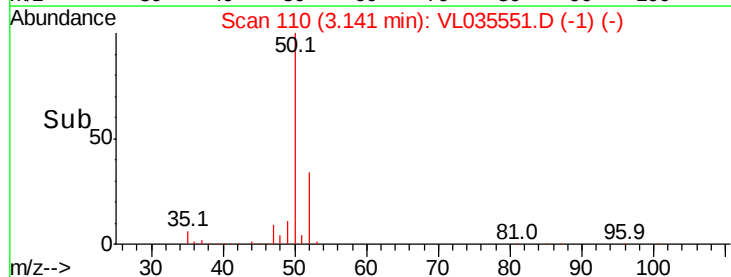
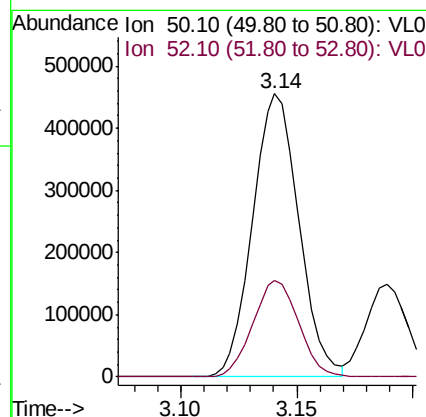
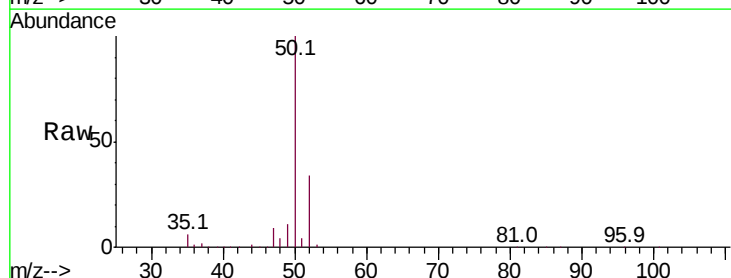
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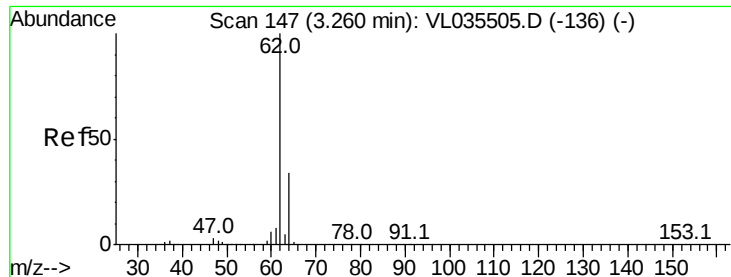
MMDadoda
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#4
Chloromethane
Concen: 10.709 ppbv
RT: 3.14 min Scan# 110
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Tgt Ion: 50 Resp: 631655
Ion Ratio Lower Upper
50 100
52 34.3 27.7 41.5





#5

Vinyl Chloride

Concen: 10.195 ppbv

RT: 3.26 min Scan# 147

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 741335

Ion Ratio Lower Upper

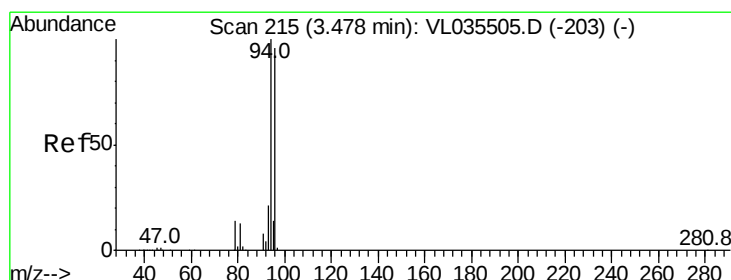
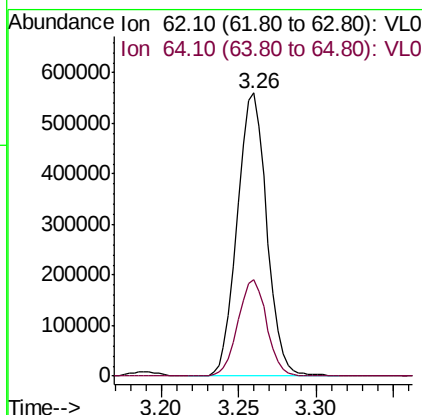
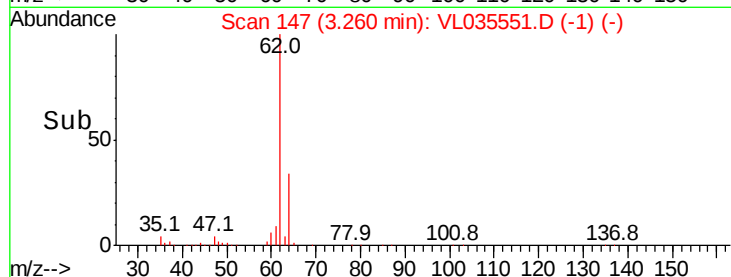
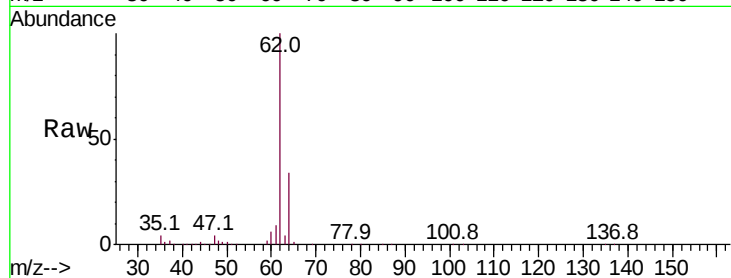
62 100

64 33.9 27.4 41.2

Manual Integrations
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#6

Bromomethane

Concen: 10.702 ppbv

RT: 3.47 min Scan# 214

Delta R.T. -0.00 min

Lab File: VL035551.D

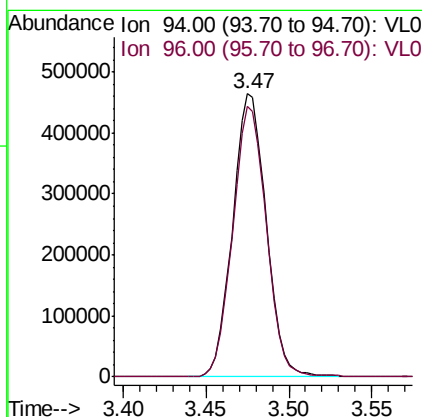
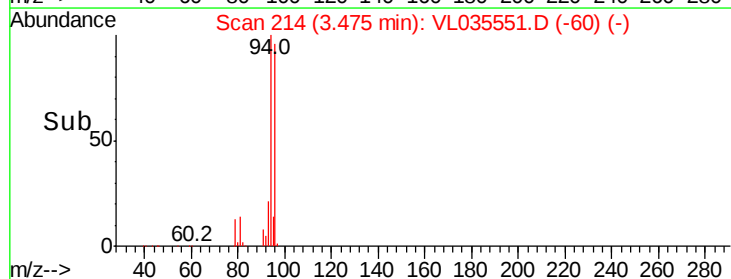
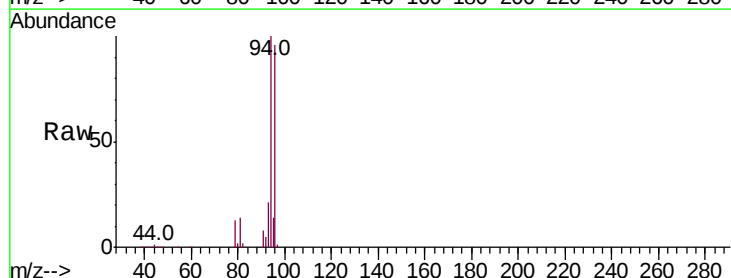
Acq: 4 Sep 2020 9:37

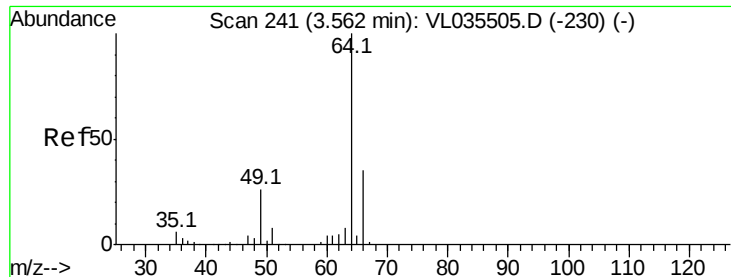
Tgt Ion: 94 Resp: 653659

Ion Ratio Lower Upper

94 100

96 95.7 77.1 115.7





#7

Chloroethane

Concen: 10.892 ppbv

RT: 3.56 min Scan# 241

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 280019

Ion Ratio Lower Upper

64 100

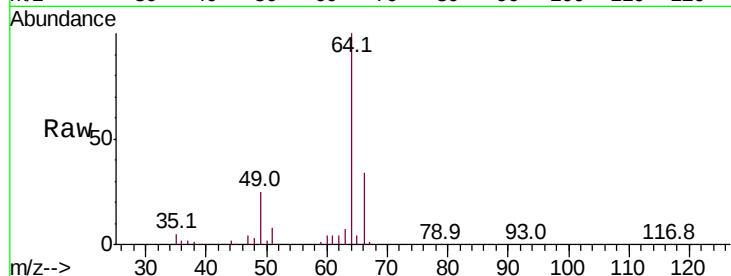
66 33.6 27.7 41.5

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

3.56

200000

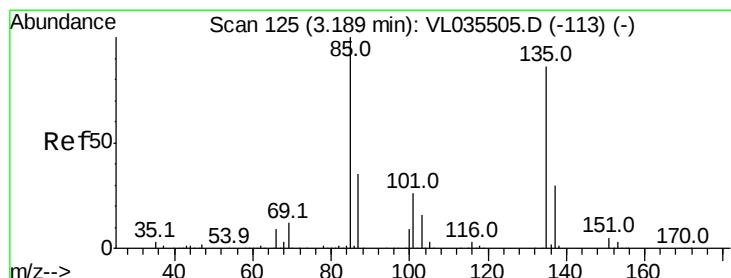
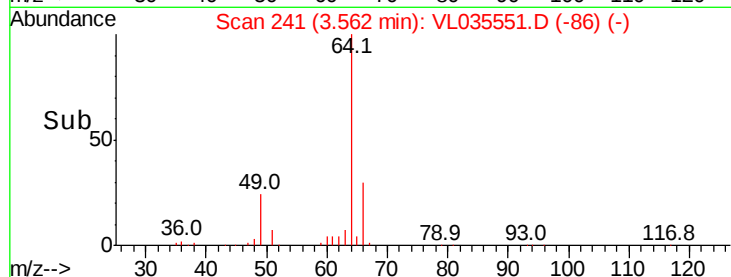
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.129 ppbv

RT: 3.19 min Scan# 125

Delta R.T. -0.00 min

Lab File: VL035551.D

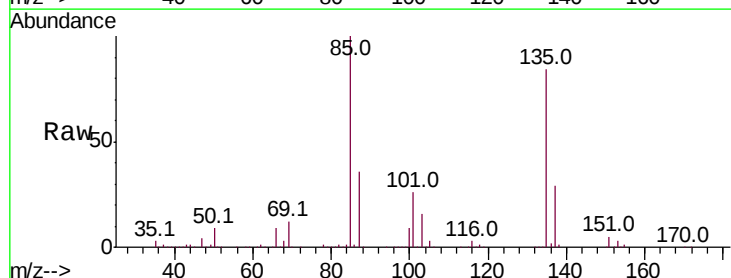
Acq: 4 Sep 2020 9:37

Tgt Ion: 85 Resp: 2116235

Ion Ratio Lower Upper

85 100

135 85.6 70.4 105.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.19

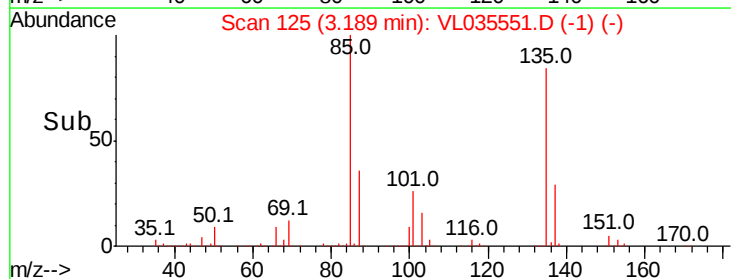
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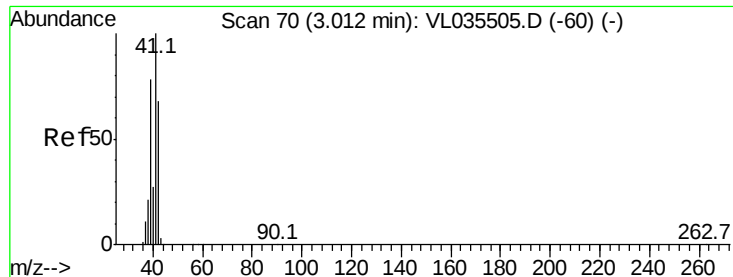
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500000

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Time-->





#9

Propene

Concen: 10.512 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Tot Ion: 41 Resp: 446178

Ion Ratio Lower Upper

41 100

42 70.1 56.3 84.5

Instrument :

MSVOA_L

ClientSampleId :

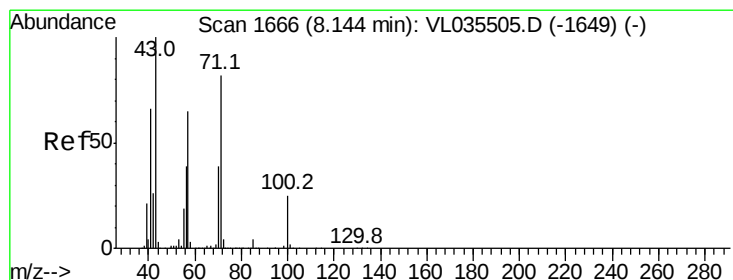
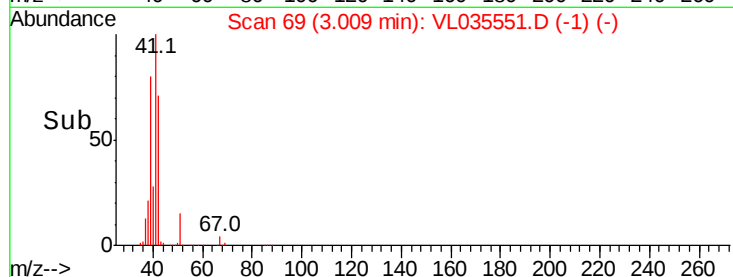
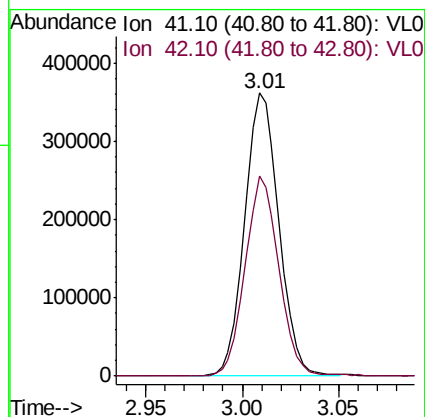
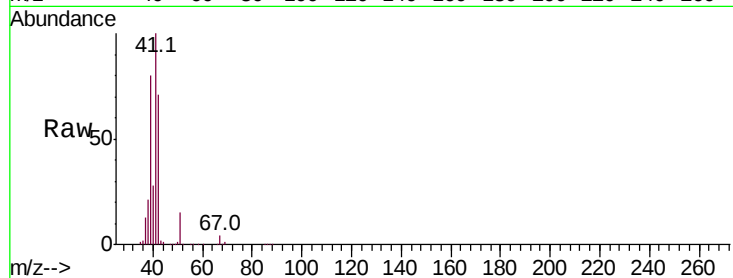
VSTDCCC010EC

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#10

Heptane

Concen: 11.054 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. -0.00 min

Lab File: VL035551.D

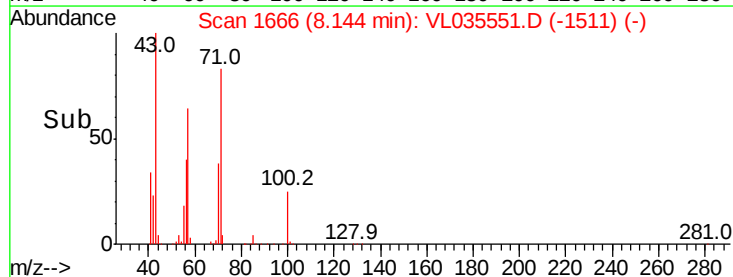
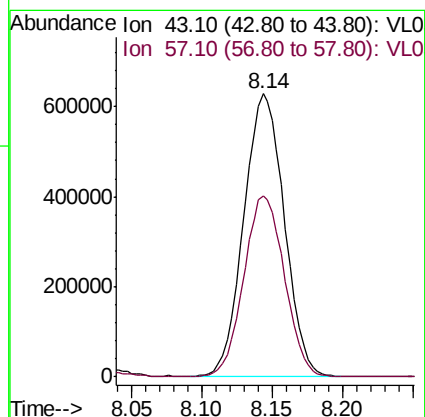
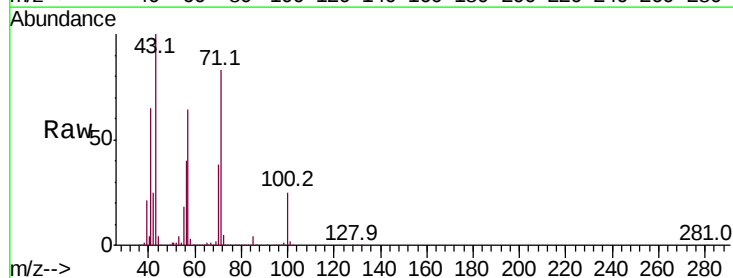
Acq: 4 Sep 2020 9:37

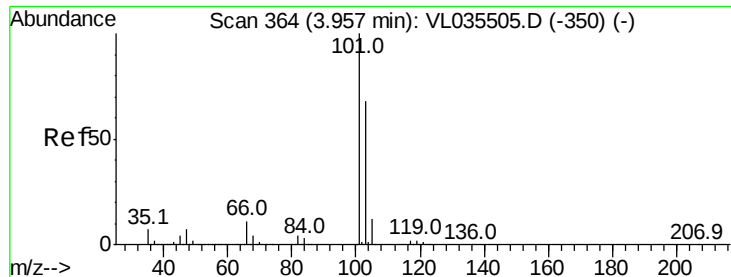
Tgt Ion: 43 Resp: 1260167

Ion Ratio Lower Upper

43 100

57 64.2 51.4 77.0





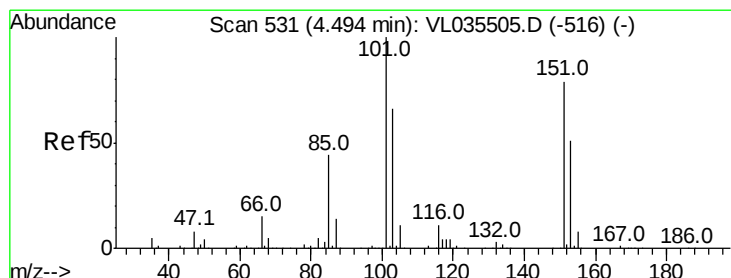
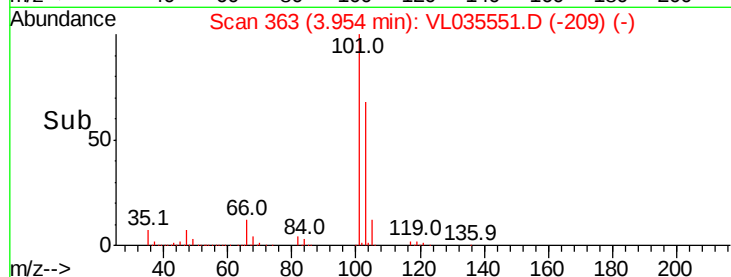
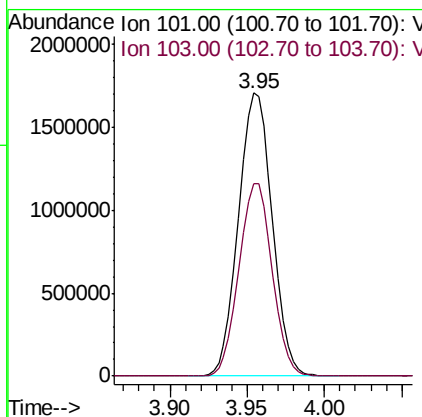
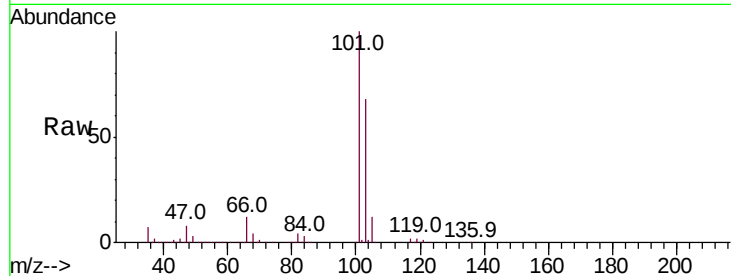
#11
 Trichlorofluoromethane
 Concen: 10.312 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. -0.00 min
 Lab File: VL035551.D
 Acq: 4 Sep 2020 9:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 2594262
 Ion Ratio Lower Upper
 101 100
 103 68.1 54.5 81.7

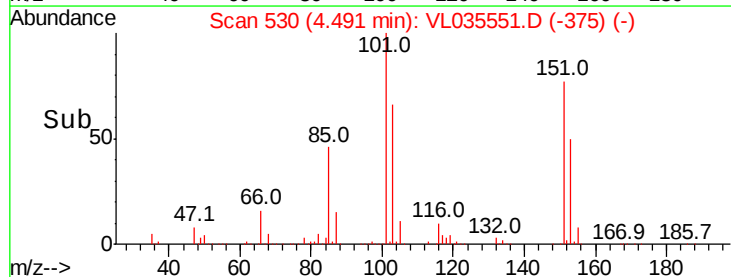
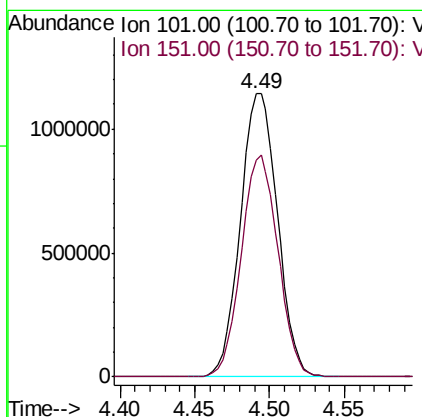
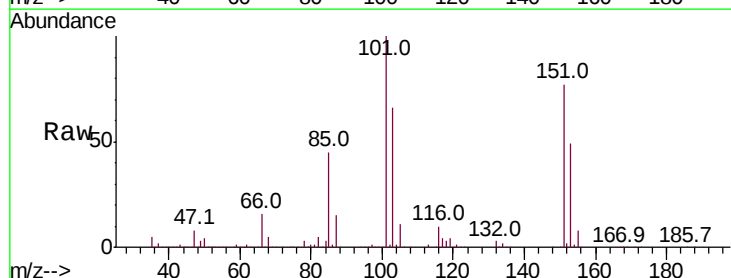
Manual Integrations
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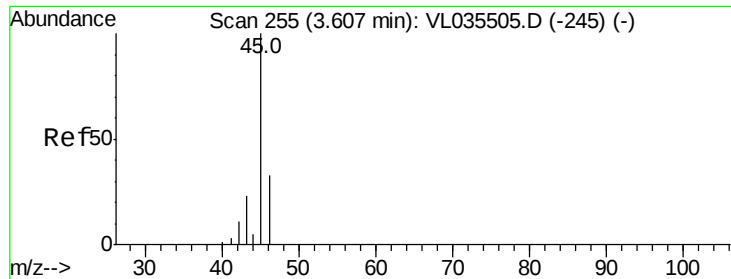
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.421 ppbv
 RT: 4.49 min Scan# 530
 Delta R.T. -0.00 min
 Lab File: VL035551.D
 Acq: 4 Sep 2020 9:37

Tgt Ion:101 Resp: 1978768
 Ion Ratio Lower Upper
 101 100
 151 77.7 63.5 95.3





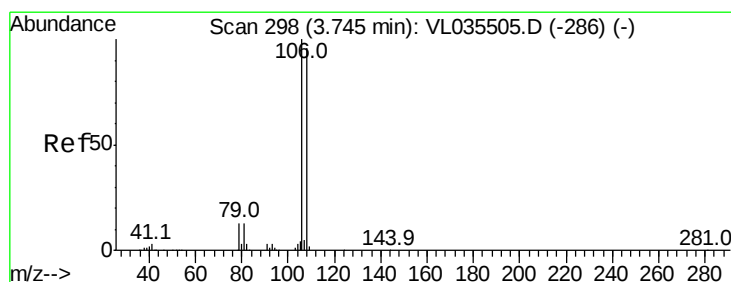
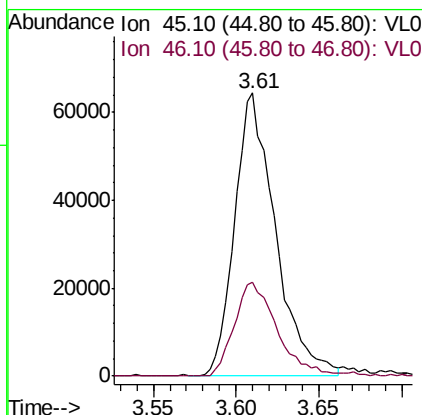
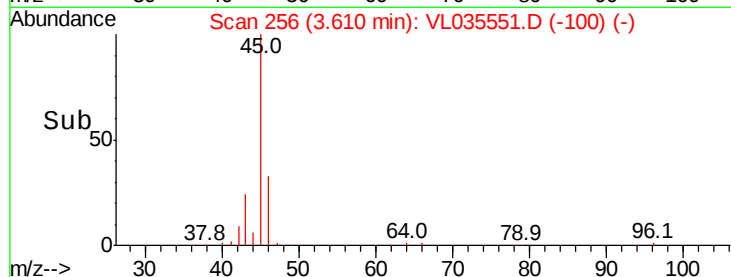
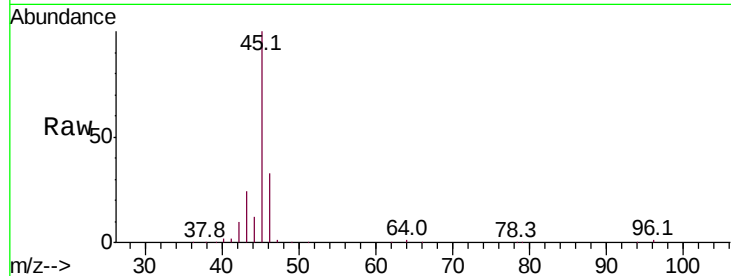
#13
Ethanol
Concen: 10.514 ppbv
RT: 3.61 min Scan# 256
Delta R.T. 0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 45 Resp: 110642
Ion Ratio Lower Upper
45 100
46 35.9 15.2 60.6

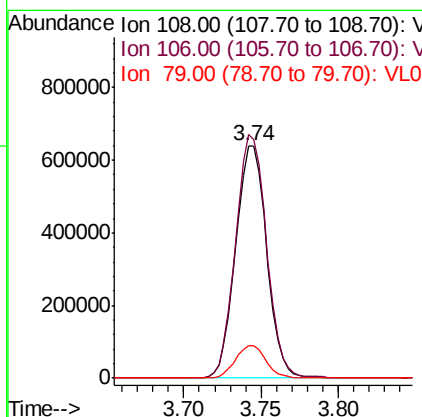
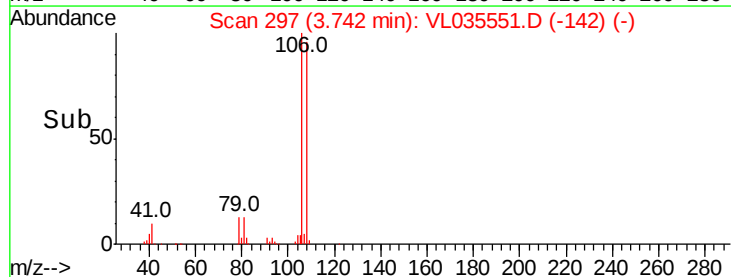
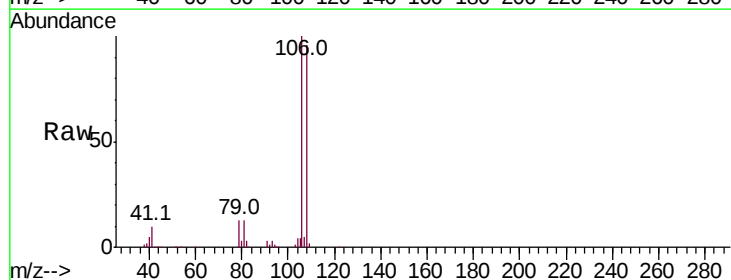
Manual Integrations
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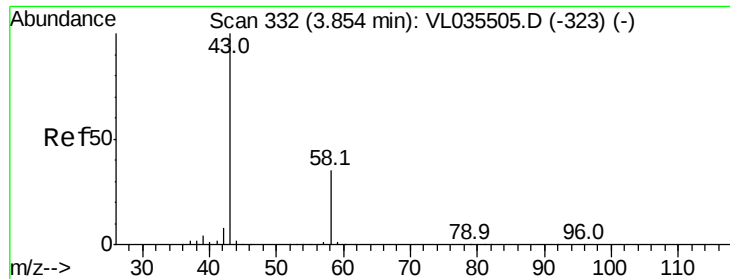
MMDadoda
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#14
Bromoethene
Concen: 10.926 ppbv
RT: 3.74 min Scan# 297
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Tgt Ion: 108 Resp: 892937
Ion Ratio Lower Upper
108 100
106 105.0 84.9 127.3
79 13.9 10.8 16.2





#15

Acetone

Concen: 10.654 ppbv

RT: 3.85 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Tot Ion: 43 Resp: 1169722

Ion Ratio Lower Upper

43 100

58 35.9 28.4 42.6

Instrument :

MSVOA_L

ClientSampleId :

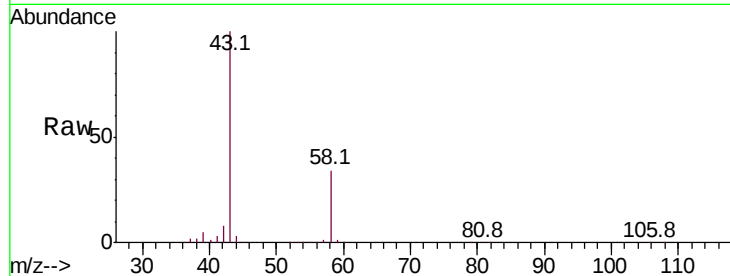
VSTDCCC010EC

Manual Integrations

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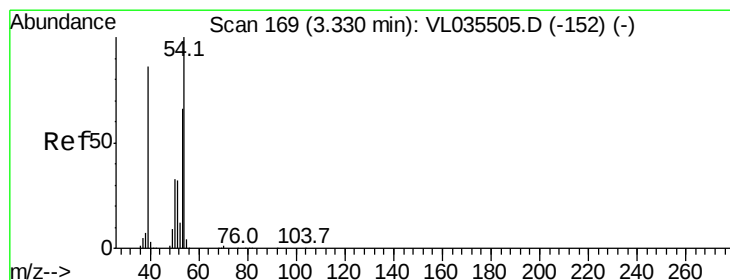
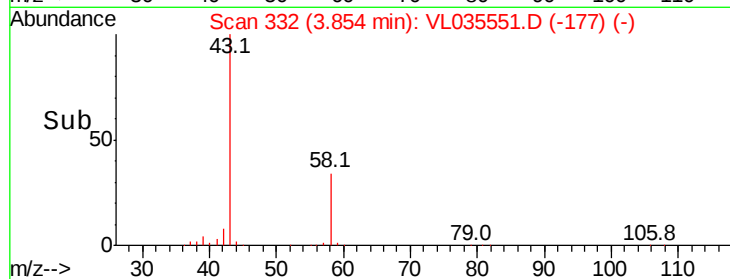
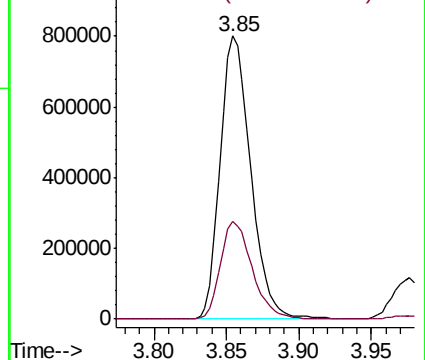
MMDadoda

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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: 11.108 ppbv

RT: 3.33 min Scan# 169

Delta R.T. -0.00 min

Lab File: VL035551.D

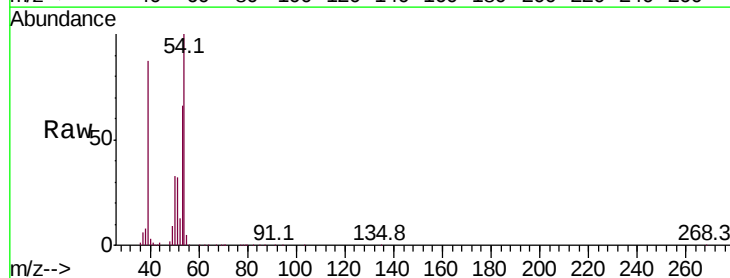
Acq: 4 Sep 2020 9:37

Tgt Ion: 39 Resp: 453979

Ion Ratio Lower Upper

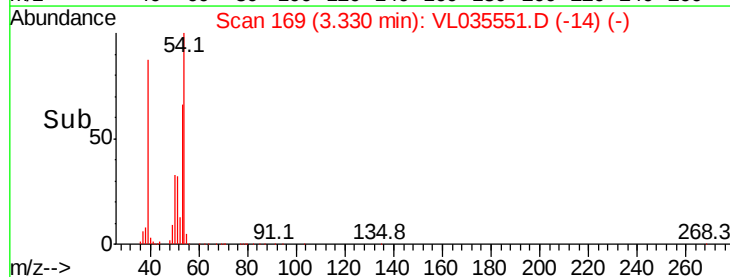
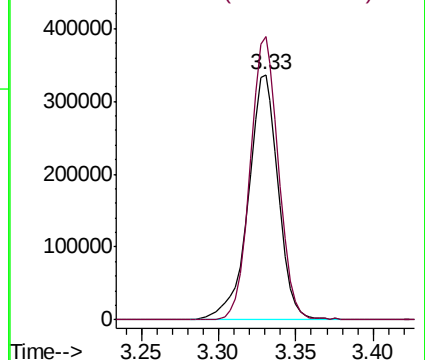
39 100

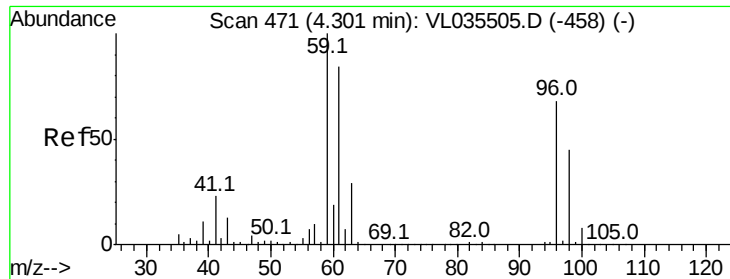
54 109.7 88.4 132.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





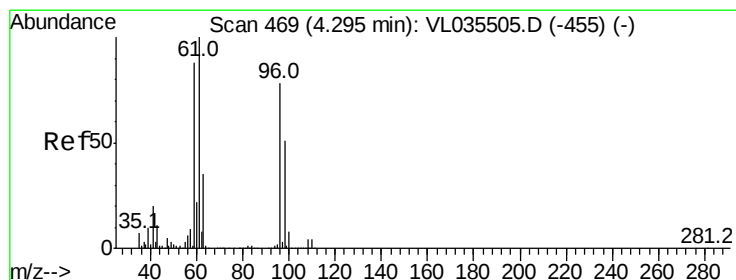
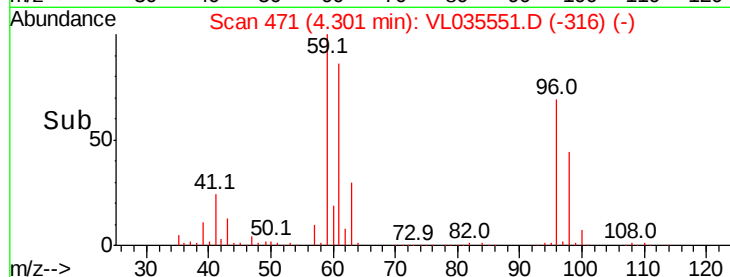
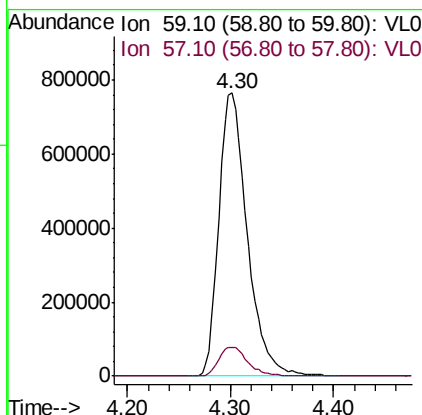
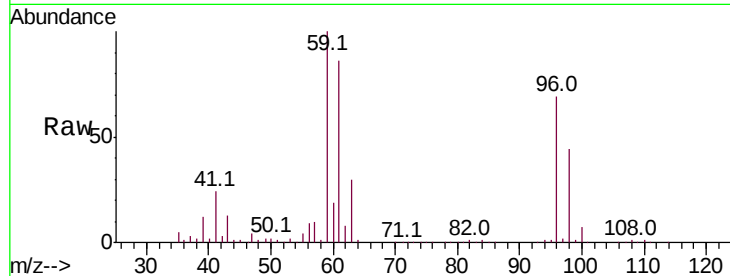
#17
tert-Butyl alcohol
Concen: 10.965 ppbv
RT: 4.30 min Scan# 471
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 1465322
Ion Ratio Lower Upper
59 100
57 10.5 8.4 12.6

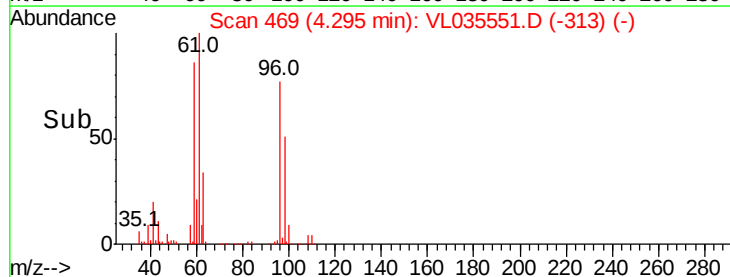
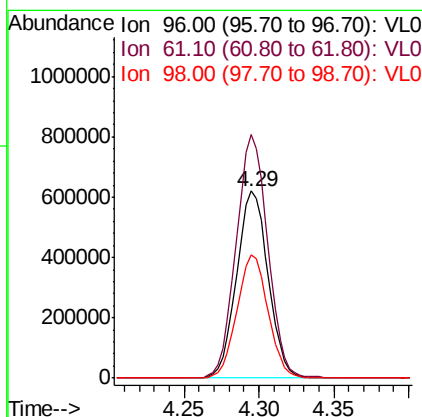
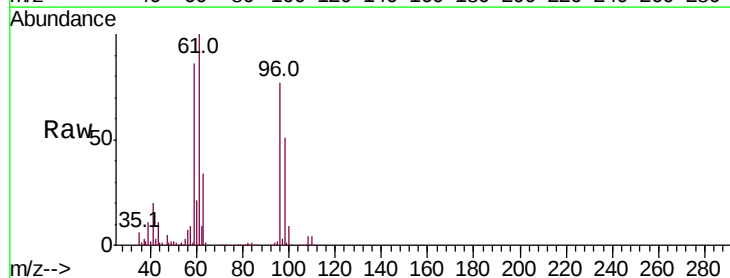
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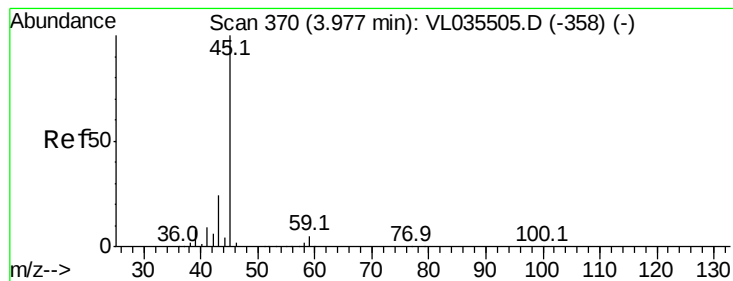
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#18
1,1-Dichloroethene
Concen: 10.928 ppbv
RT: 4.29 min Scan# 469
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Tgt Ion: 96 Resp: 913698
Ion Ratio Lower Upper
96 100
61 130.2 103.0 154.6
98 65.8 52.8 79.2





#19

Isopropyl Alcohol

Concen: 11.304 ppbv

RT: 3.97 min Scan# 369

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 740339

Ion Ratio Lower Upper

45 100

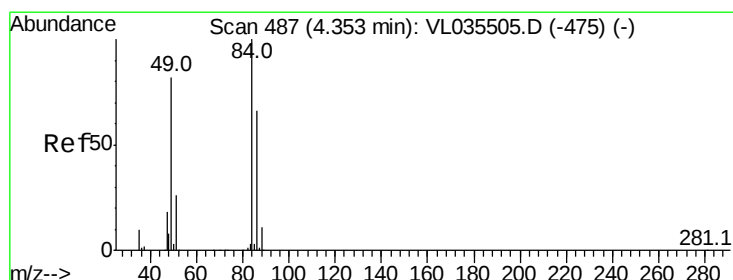
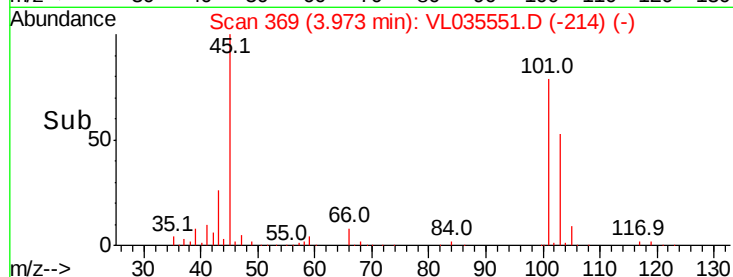
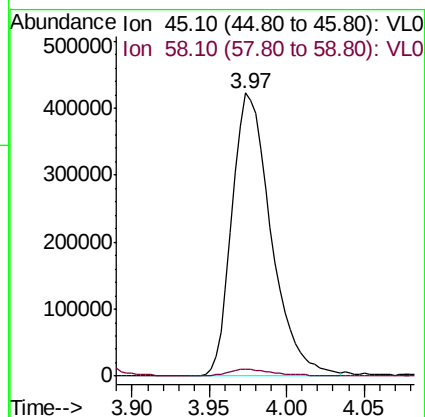
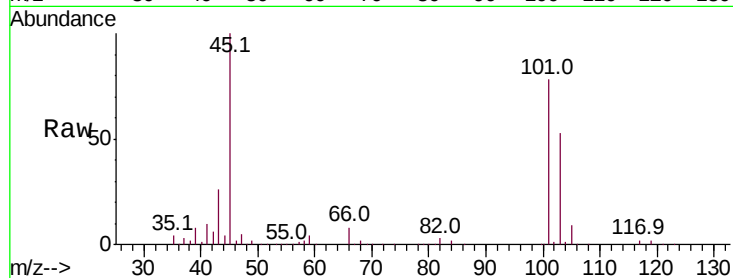
58 3.1 2.0 3.0#

Manual Integrations

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#20

Methylene Chloride

Concen: 8.992 ppbv

RT: 4.35 min Scan# 487

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Tgt Ion: 84 Resp: 735241

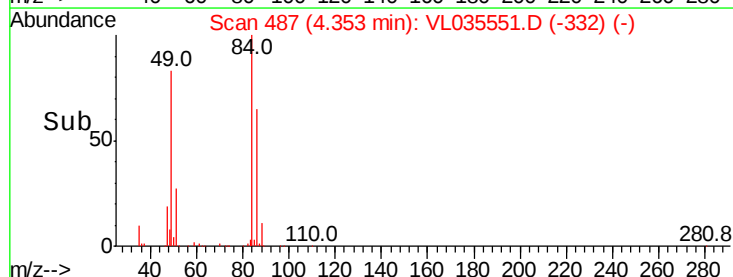
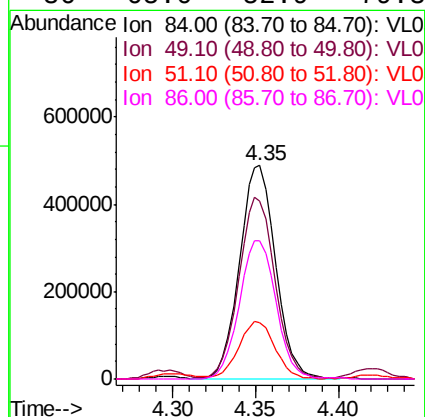
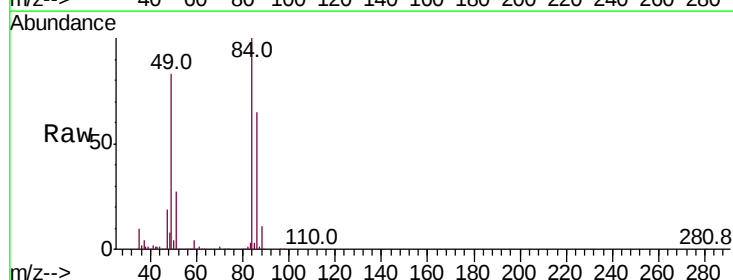
Ion Ratio Lower Upper

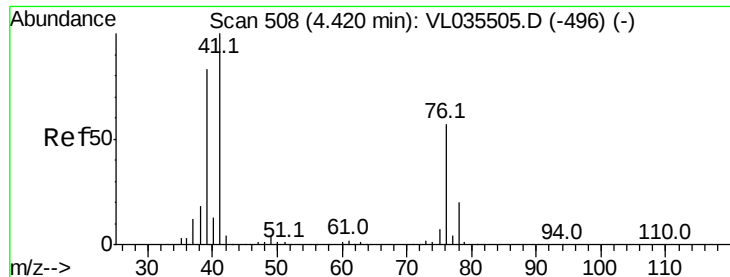
84 100

49 82.2 65.4 98.0

51 26.4 21.5 32.3

86 65.0 52.9 79.3





#21

Allvl Chloride

Concen: 11.700 ppbv

RT: 4.42 min Scan# 508

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 601793

Ion Ratio Lower Upper

41 100

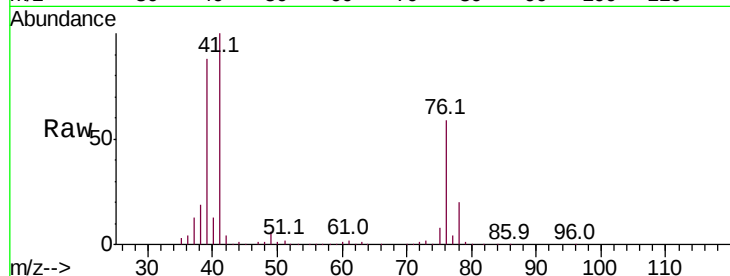
76 58.2 46.2 69.2

39 85.9 67.8 101.6

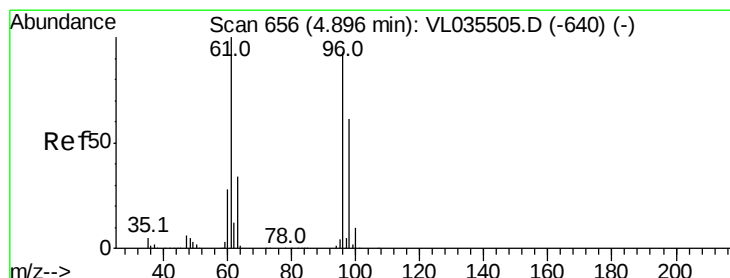
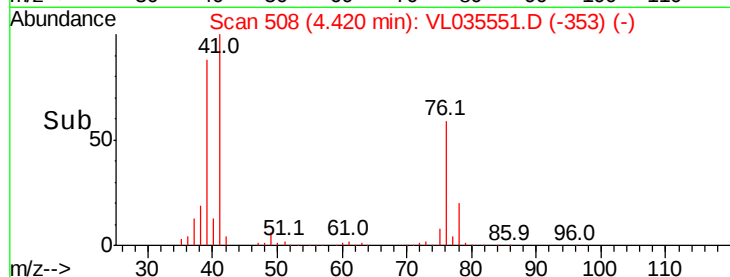
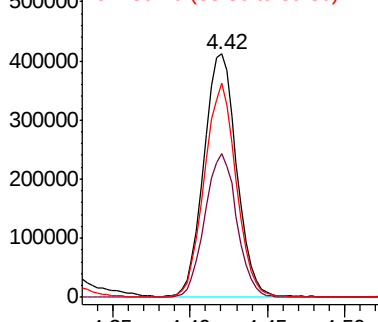
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Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 10.832 ppbv

RT: 4.89 min Scan# 655

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

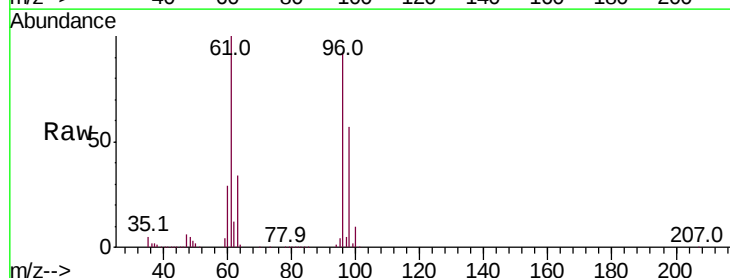
Tgt Ion: 96 Resp: 964183

Ion Ratio Lower Upper

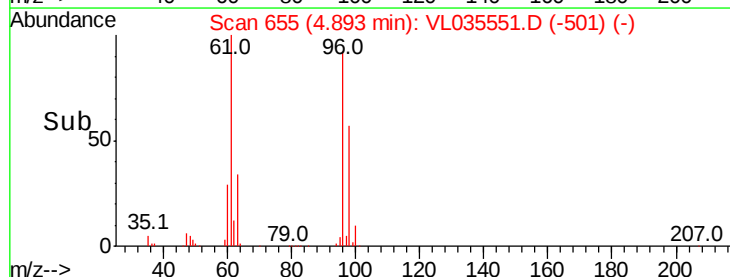
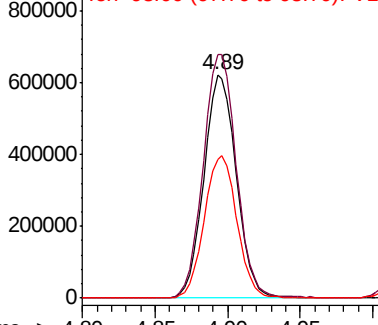
96 100

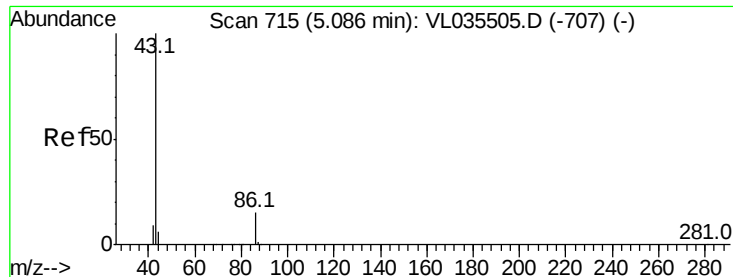
61 108.9 86.0 129.0

98 62.1 52.3 78.5



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 11.756 ppbv

RT: 5.09 min Scan# 715

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1656616

Ion Ratio Lower Upper

43 100

86 13.8 10.6 16.0

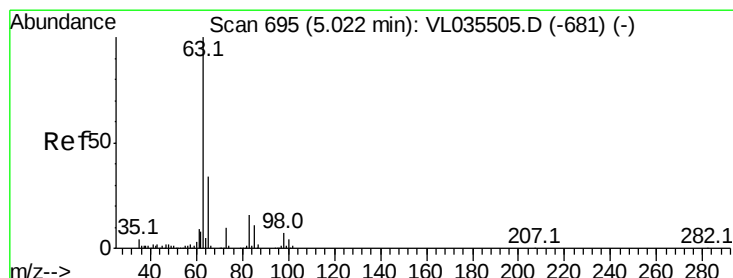
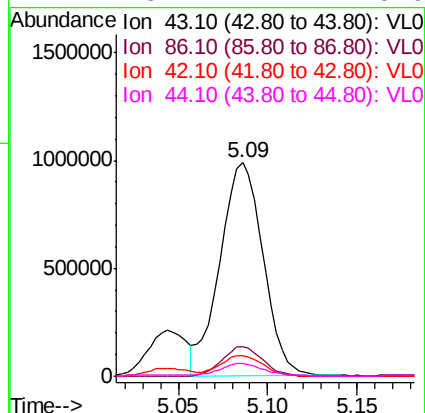
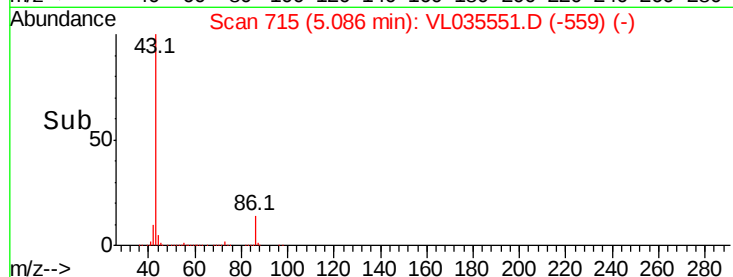
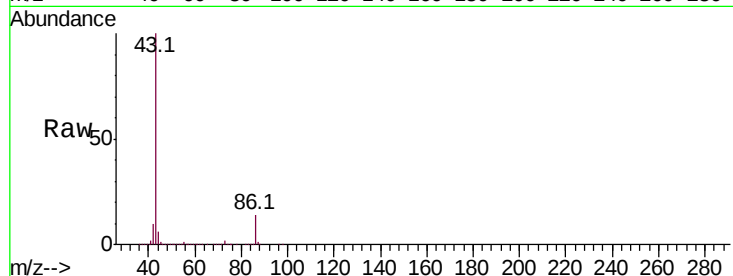
42 9.8 7.5 11.3

44 5.7 4.4 6.6

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#24

1,1-Dichloroethane

Concen: 10.707 ppbv

RT: 5.02 min Scan# 695

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

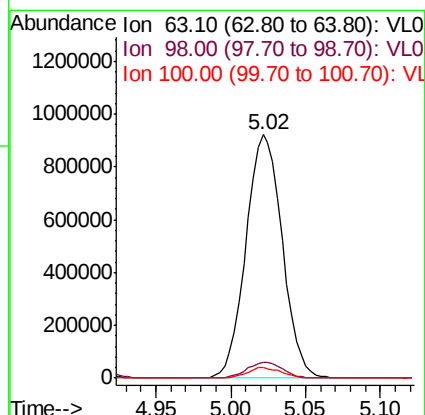
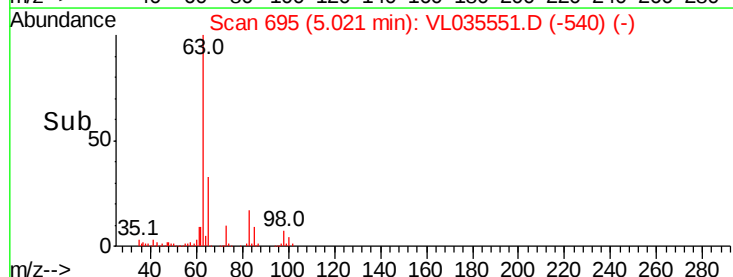
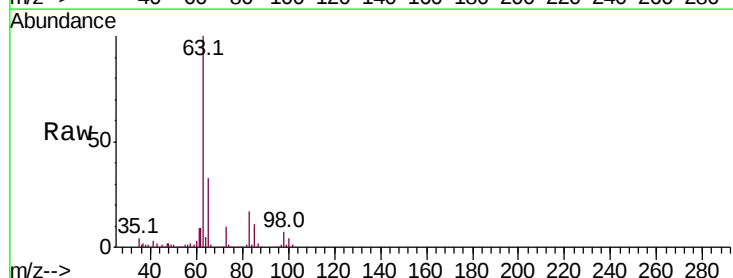
Tgt Ion: 63 Resp: 1552708

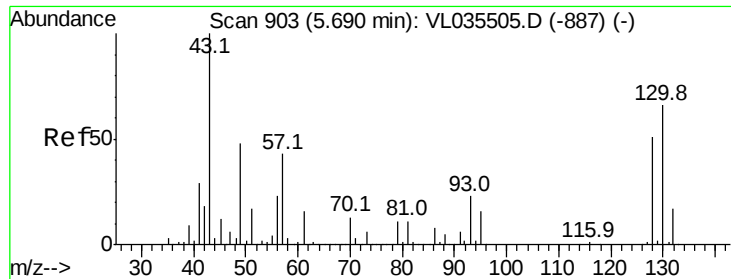
Ion Ratio Lower Upper

63 100

98 6.6 3.4 10.1

100 4.3 2.1 6.5





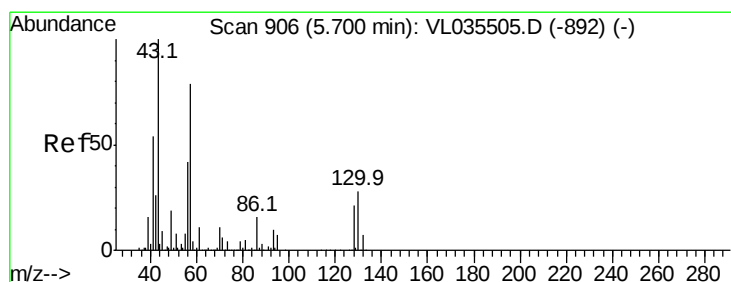
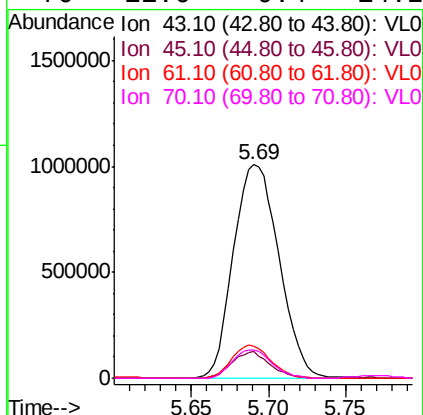
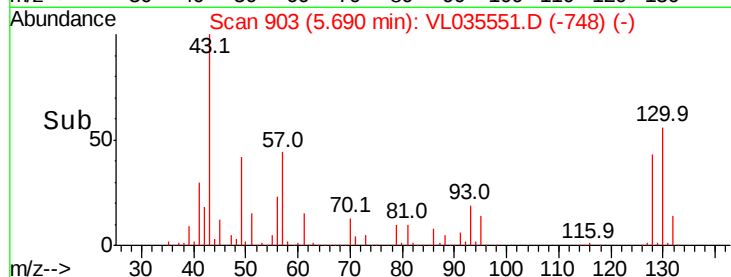
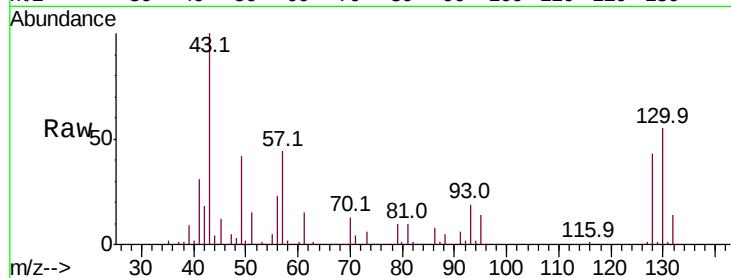
#25
Ethyl Acetate
Concen: 10.614 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.6	8.4	12.6
61	13.3	10.6	16.0
70	11.6	9.4	14.2

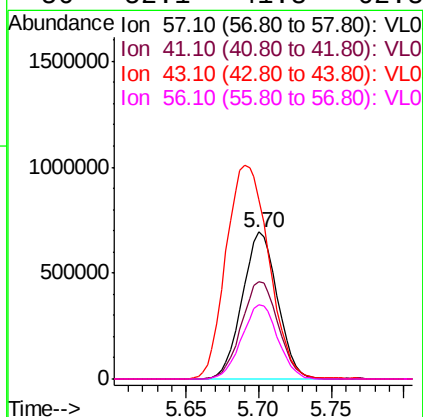
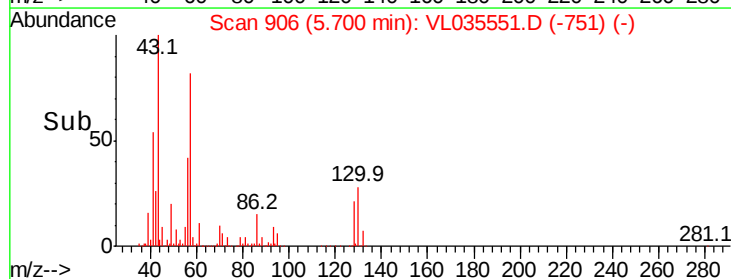
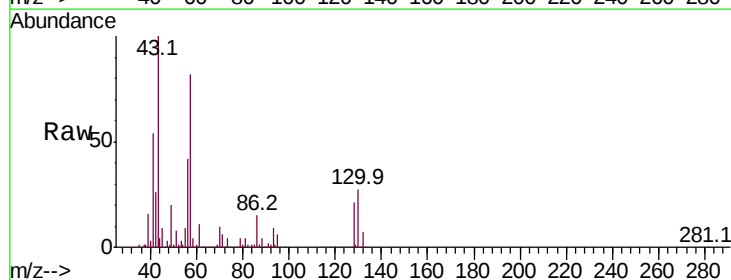
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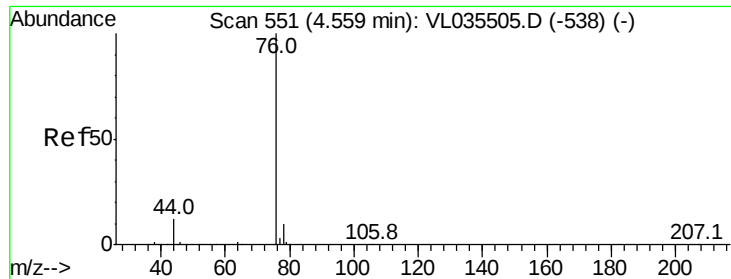
MMDadoda
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#26
Hexane
Concen: 10.661 ppbv
RT: 5.70 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Tgt Ion	Ratio	Lower	Upper
57	100		
41	69.9	55.9	83.9
43	177.1	141.8	212.8
56	52.1	41.8	62.8





#27

Carbon Disulfide

Concen: 12.165 ppbv

RT: 4.56 min Scan# 551

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1918362

Ion Ratio Lower Upper

76 100

44 11.4 9.3 13.9

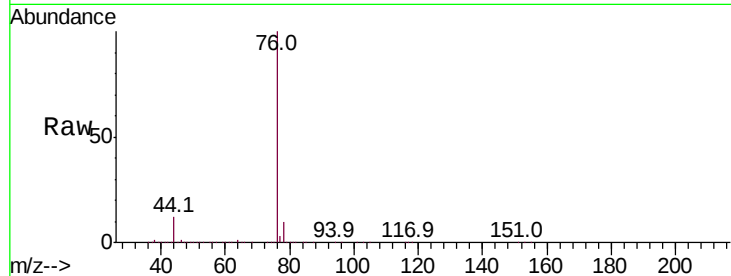
78 9.9 7.8 11.6

Manual Integrations

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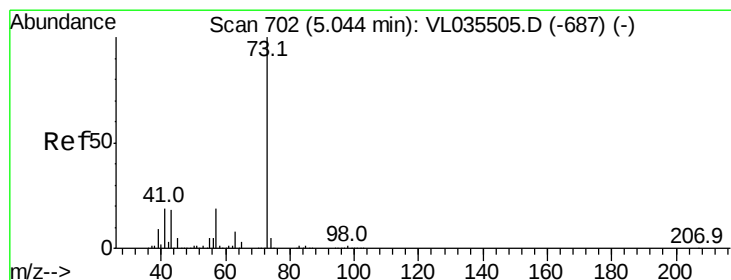
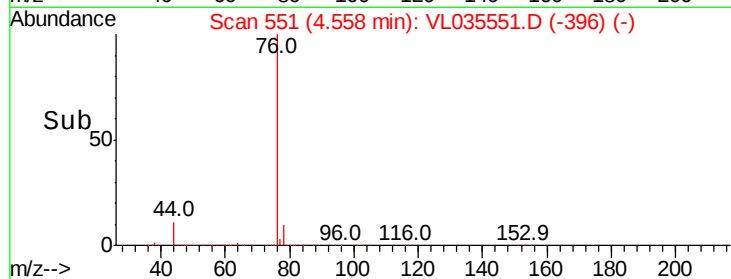
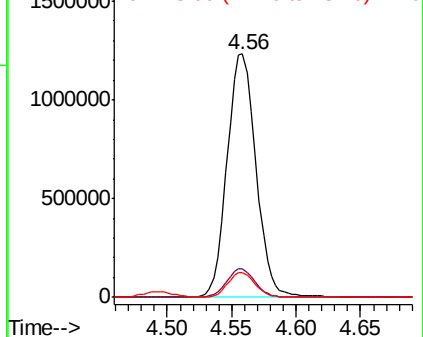
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Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.913 ppbv

RT: 5.04 min Scan# 702

Delta R.T. -0.00 min

Lab File: VL035551.D

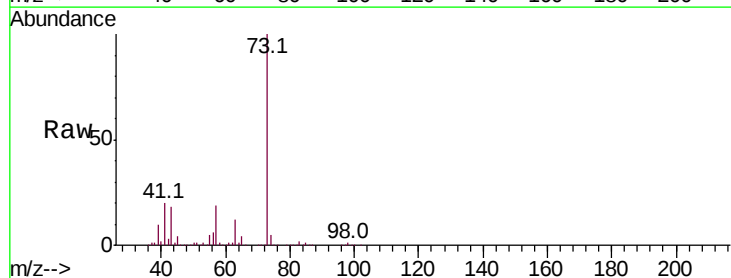
Acq: 4 Sep 2020 9:37

Tgt Ion: 73 Resp: 2090236

Ion Ratio Lower Upper

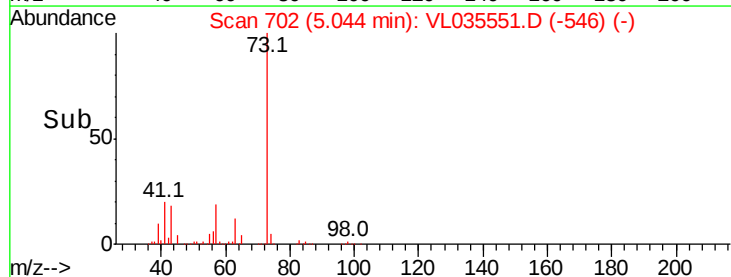
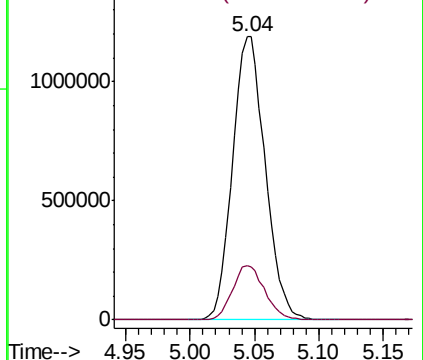
73 100

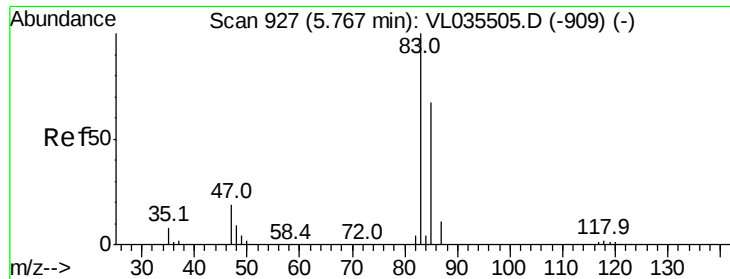
57 19.1 15.2 22.8



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





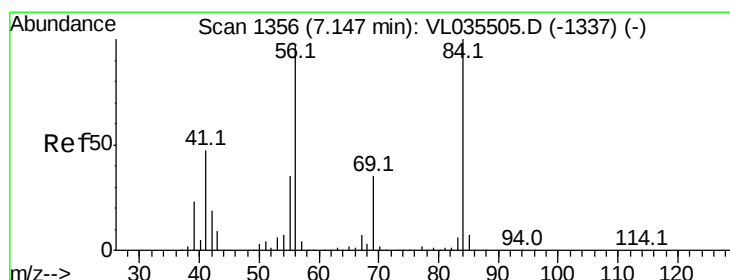
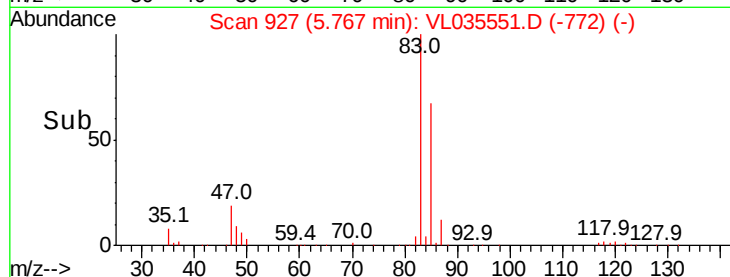
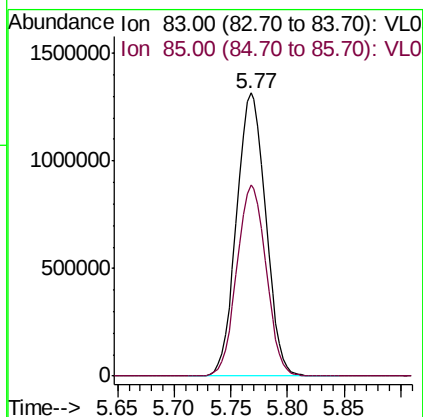
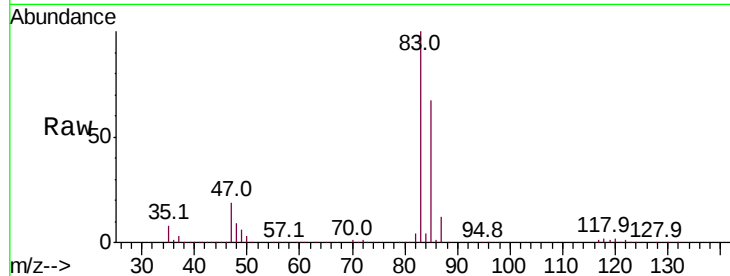
#29
Chloroform
Concen: 10.616 ppbv
RT: 5.77 min Scan# 927
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 2377007
Ion Ratio Lower Upper
83 100
85 67.2 53.9 80.9

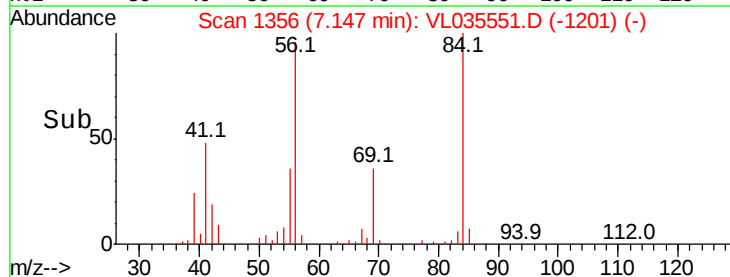
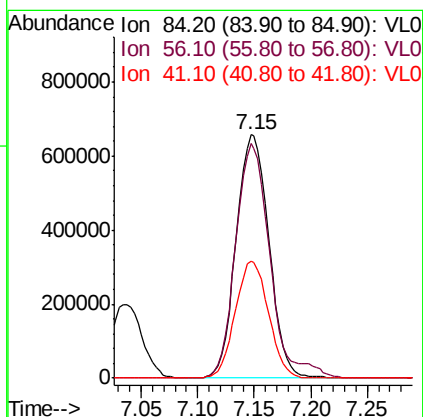
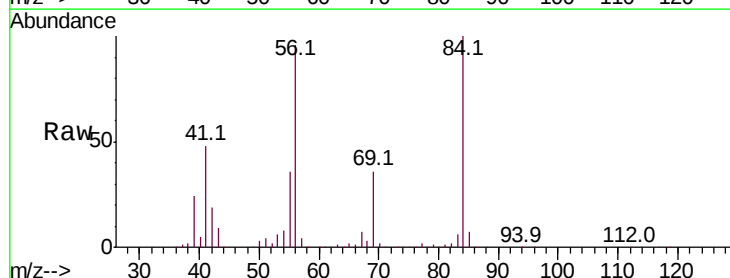
Manual Integrations
APPROVED

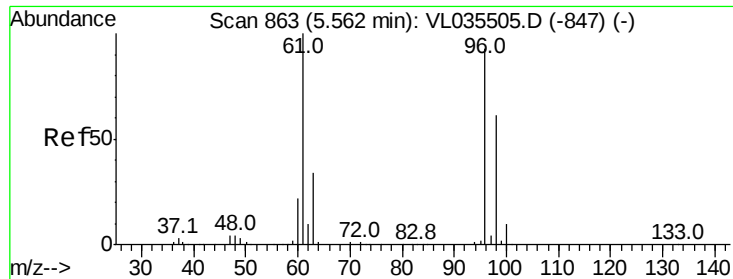
MMDadoda
9/8/2020 5:13:16 PM



#30
Cyclohexane
Concen: 11.287 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Tgt Ion: 84 Resp: 1328758
Ion Ratio Lower Upper
84 100
56 101.4 80.1 120.1
41 48.5 38.1 57.1





#31

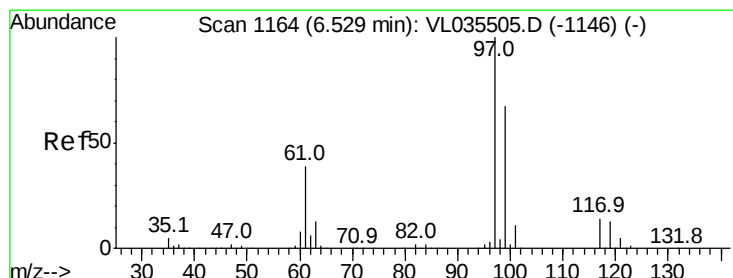
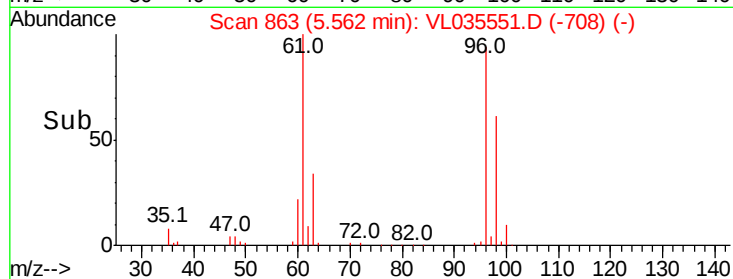
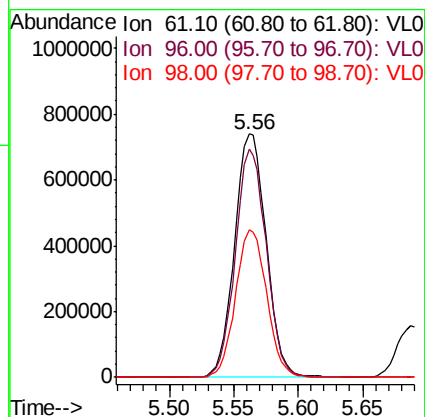
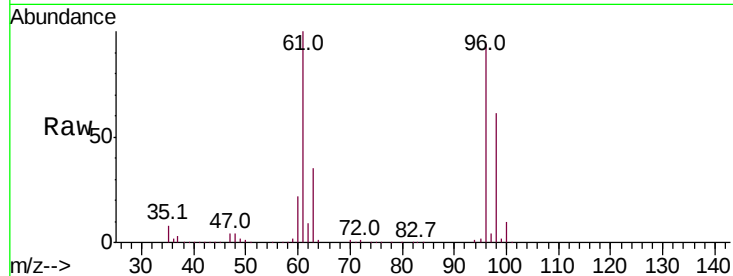
cis-1,2-Dichloroethene
Concen: 11.203 ppbv
RT: 5.56 min Scan# 863
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 61 Resp: 1263064
Ion Ratio Lower Upper
61 100
96 93.8 74.4 111.6
98 60.7 49.2 73.8

Manual Integrations
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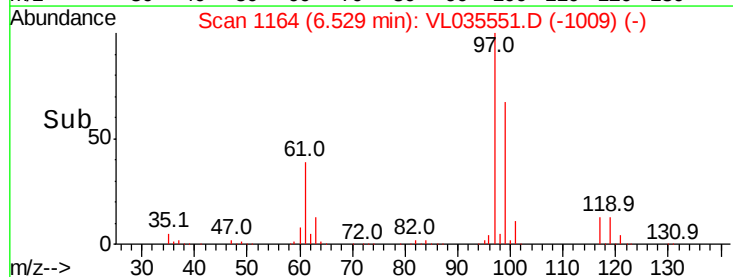
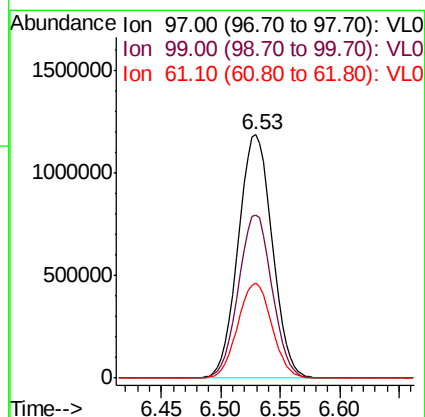
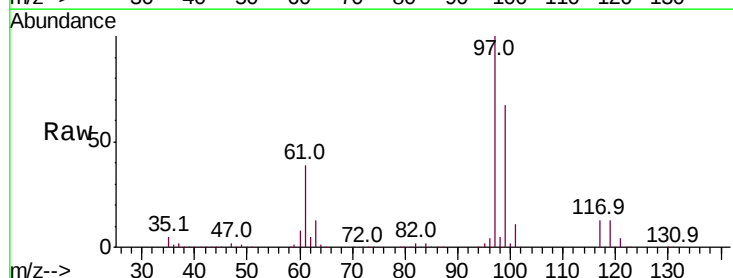
MMDadoda
9/8/2020 5:13:16 PM

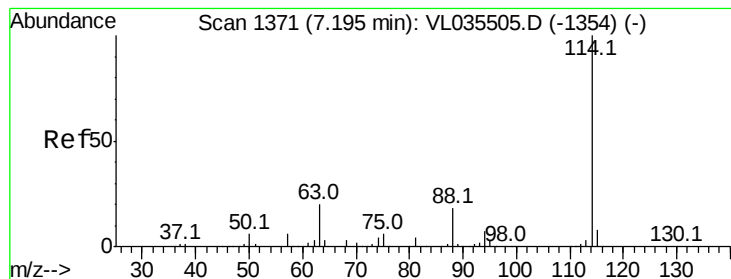


#32

1,1,1-Trichloroethane
Concen: 10.836 ppbv
RT: 6.53 min Scan# 1164
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Tgt Ion: 97 Resp: 2353615
Ion Ratio Lower Upper
97 100
99 66.6 53.3 79.9
61 39.2 30.6 46.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1371

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:114 Resp: 4236495

Ion Ratio Lower Upper

114 100

63 18.8 14.7 22.1

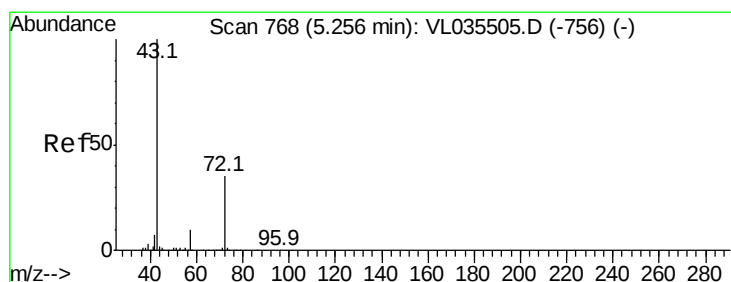
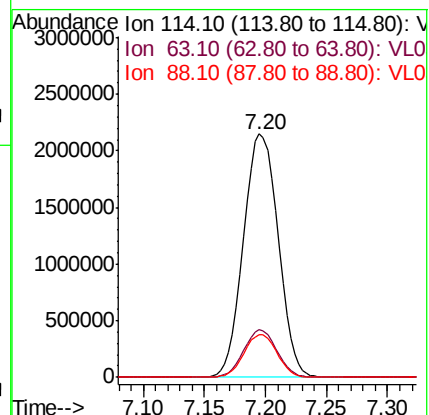
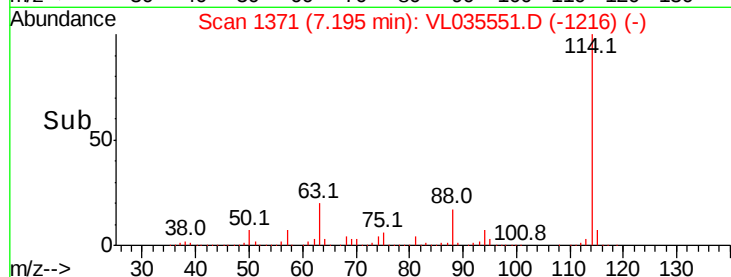
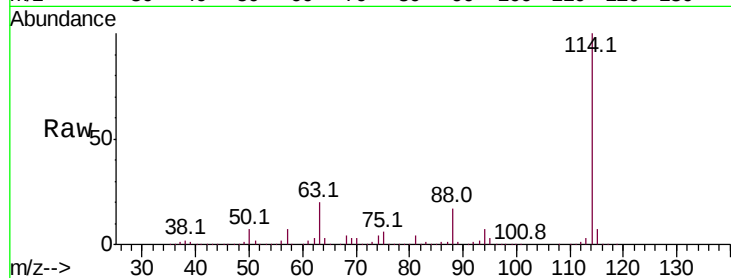
88 16.8 13.4 20.2

Manual Integrations

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#34

2-Butanone

Concen: 11.473 ppbv

RT: 5.26 min Scan# 768

Delta R.T. -0.00 min

Lab File: VL035551.D

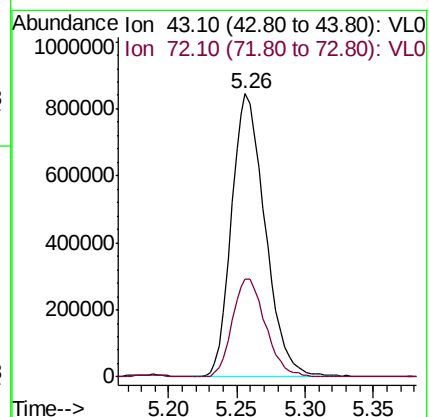
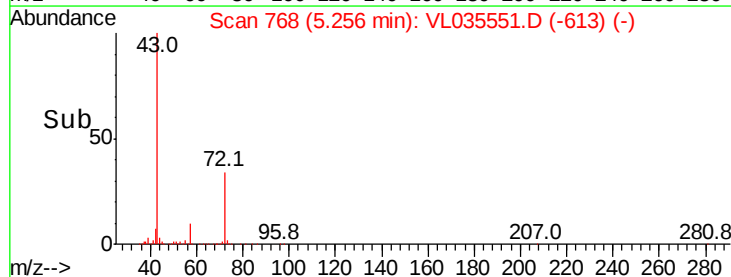
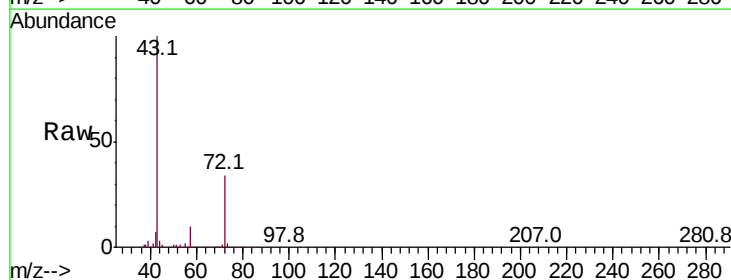
Acq: 4 Sep 2020 9:37

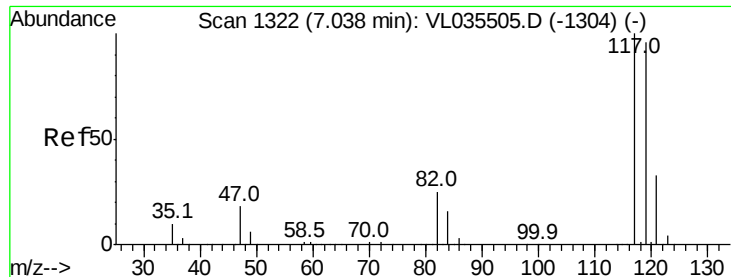
Tgt Ion: 43 Resp: 1442446

Ion Ratio Lower Upper

43 100

72 34.5 27.7 41.5





#35

Carbon Tetrachloride

Concen: 11.684 ppbv

RT: 7.04 min Scan# 1322

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2487711

Ion Ratio Lower Upper

117 100

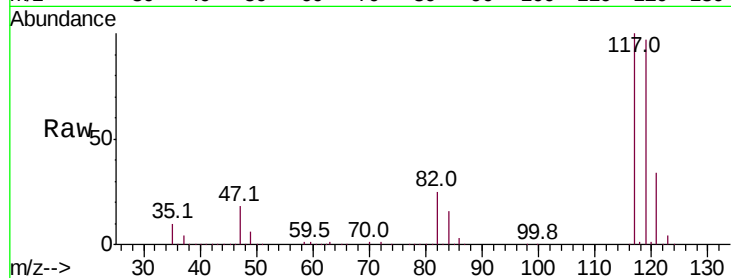
119 97.2 77.2 115.8

121 33.6 26.1 39.1

Manual Integrations
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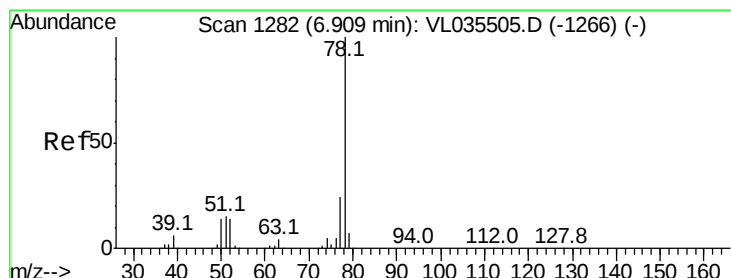
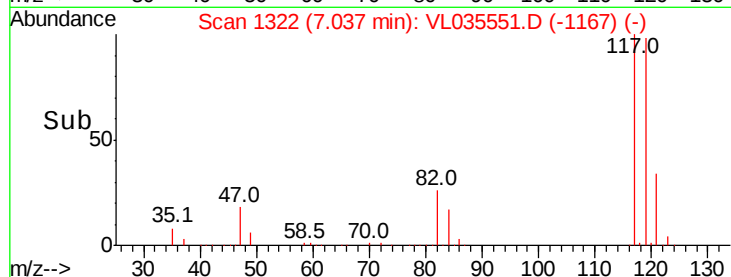
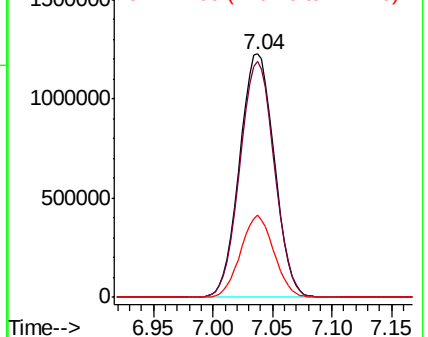
9/8/2020 5:13:16 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 11.163 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

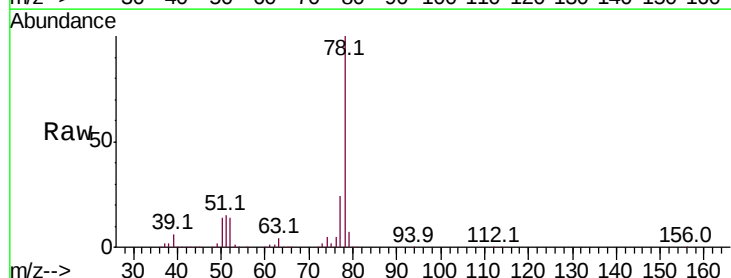
Tgt Ion: 78 Resp: 3061237

Ion Ratio Lower Upper

78 100

77 23.7 19.3 28.9

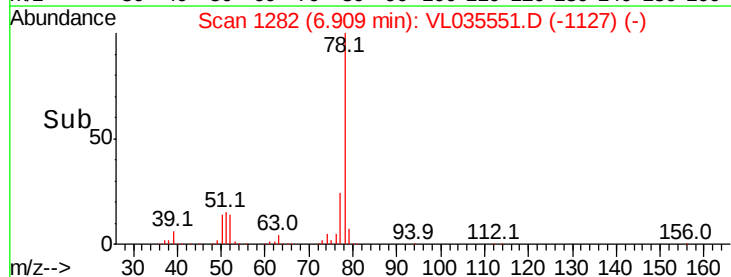
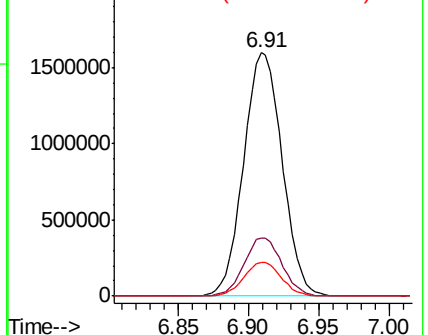
50 13.8 11.0 16.6

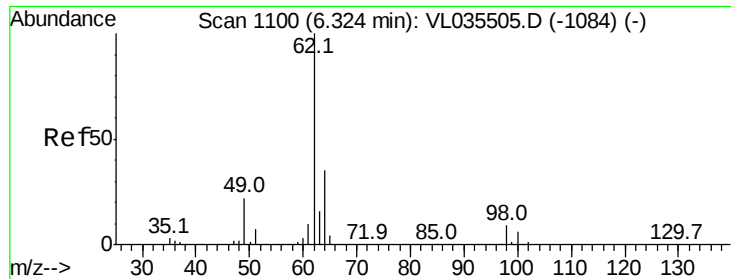


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





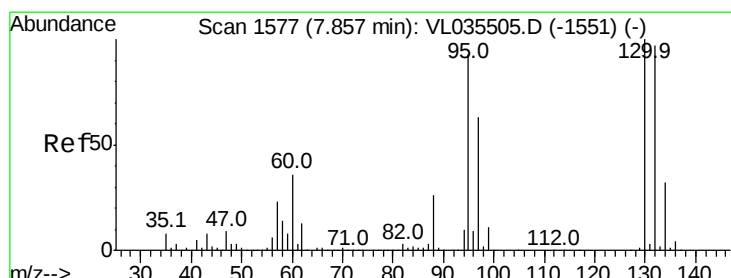
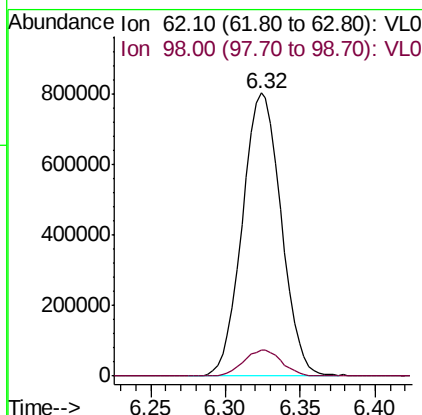
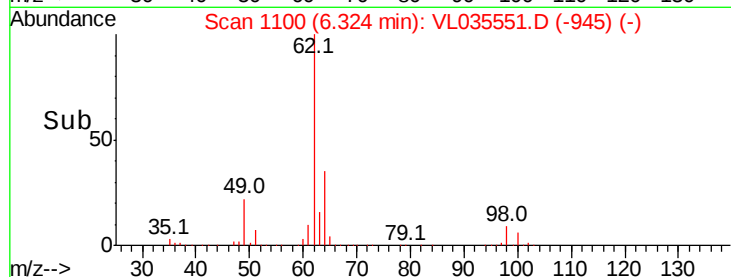
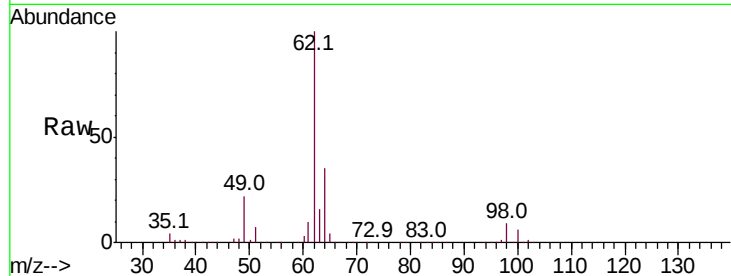
#37
1,2-Dichloroethane
Concen: 11.114 ppbv
RT: 6.32 min Scan# 1100
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 62 Resp: 1453052
Ion Ratio Lower Upper
62 100
98 9.1 7.4 11.0

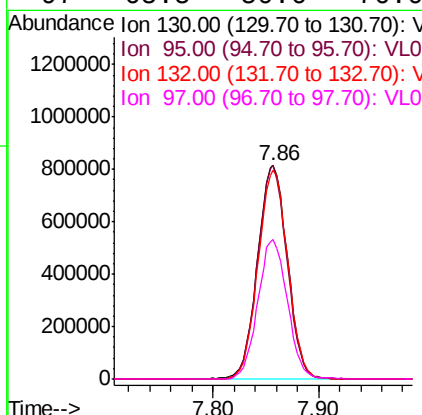
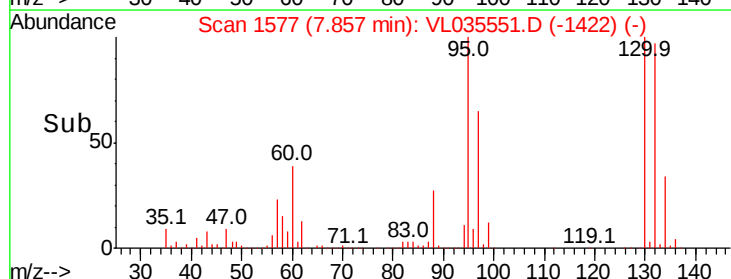
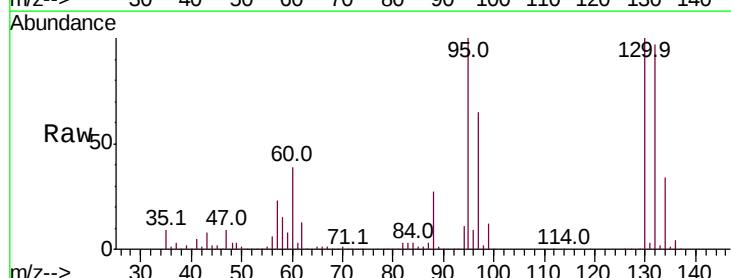
Manual Integrations
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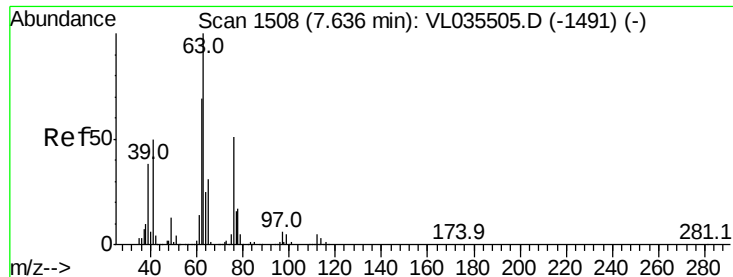
MMDadoda
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#38
Trichloroethene
Concen: 10.113 ppbv
RT: 7.86 min Scan# 1577
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Tgt Ion:130 Resp: 1610915
Ion Ratio Lower Upper
130 100
95 100.1 74.6 112.0
132 97.6 77.6 116.4
97 65.5 50.6 76.0





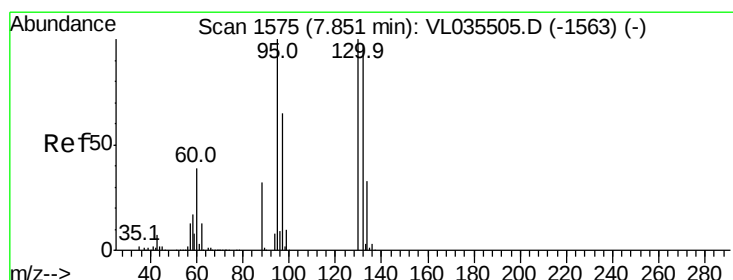
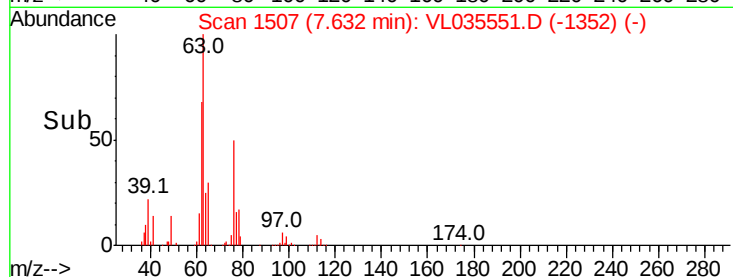
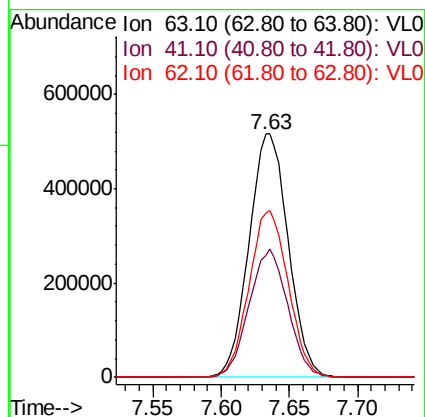
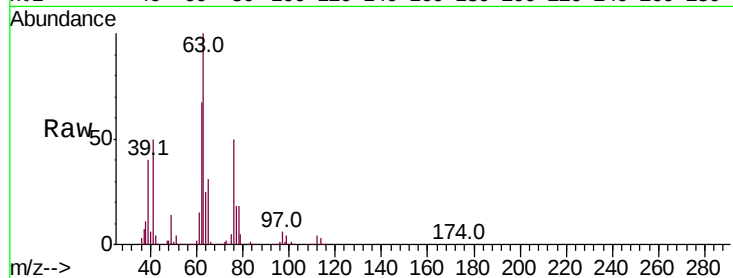
#39
 1,2-Dichloropropane
 Concen: 11.112 ppbv
 RT: 7.63 min Scan# 1507
 Delta R.T. -0.00 min
 Lab File: VL035551.D
 Acq: 4 Sep 2020 9:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	50.3	40.0	60.0
62	67.4	55.4	83.0

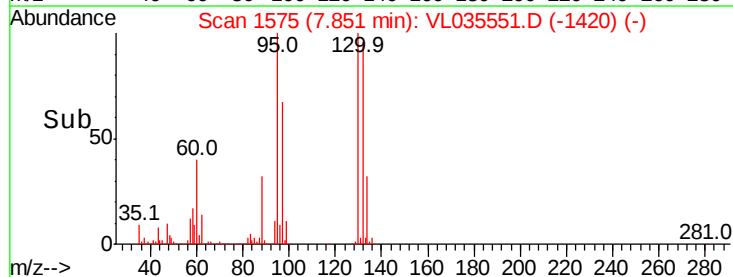
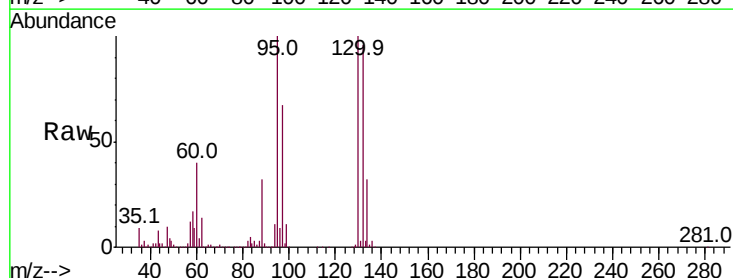
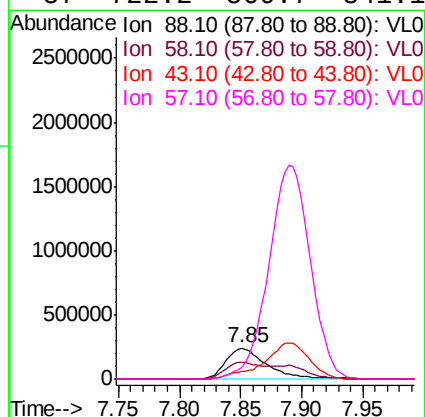
Manual Integrations
 APPROVED

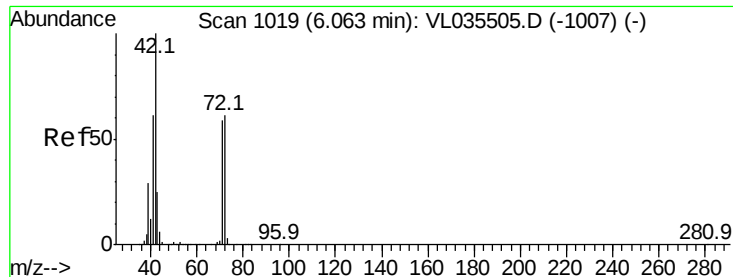
MMDadoda
 9/8/2020 5:13:16 PM



#40
 1,4-Dioxane
 Concen: 11.888 ppbv
 RT: 7.85 min Scan# 1575
 Delta R.T. -0.00 min
 Lab File: VL035551.D
 Acq: 4 Sep 2020 9:37

Tgt Ion	Ratio	Lower	Upper
88	100		
58	89.5	68.7	103.1
43	134.2	104.3	156.5
57	722.2	560.7	841.1





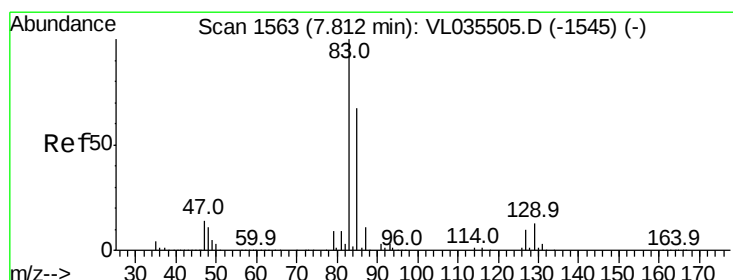
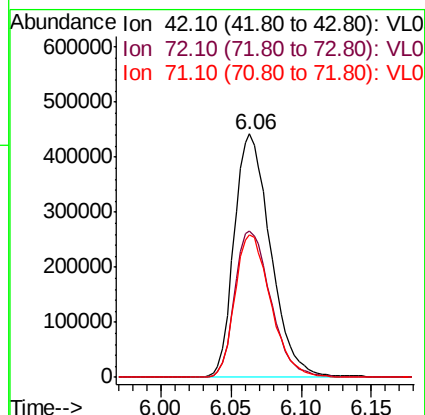
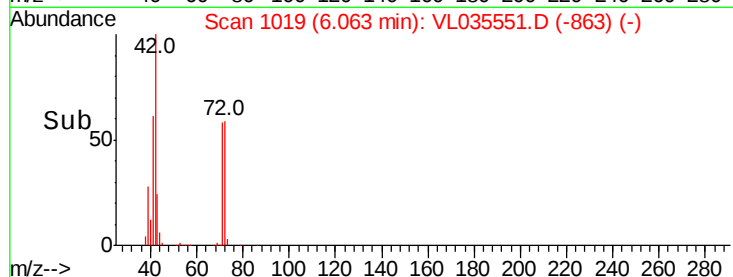
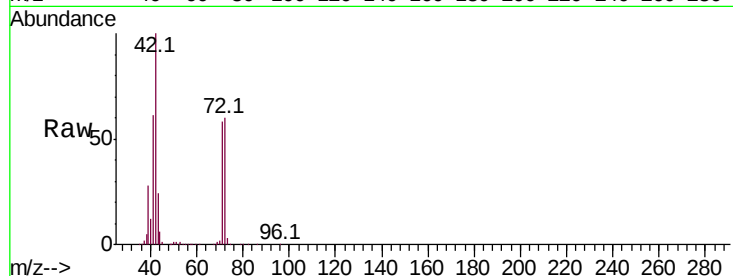
#41
Tetrahydrofuran
Concen: 12.017 ppbv
RT: 6.06 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	60.1	48.6	73.0
71	57.9	46.1	69.1

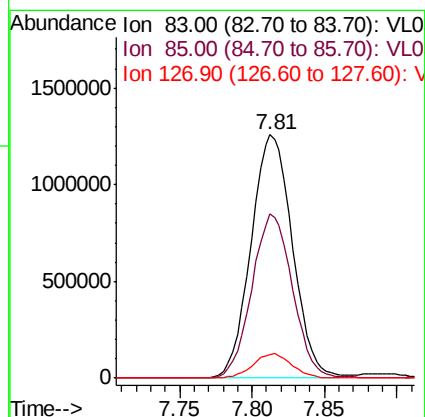
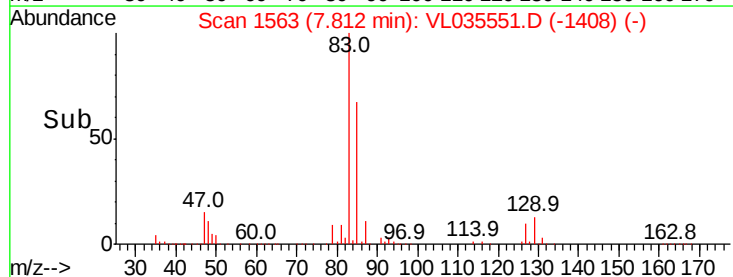
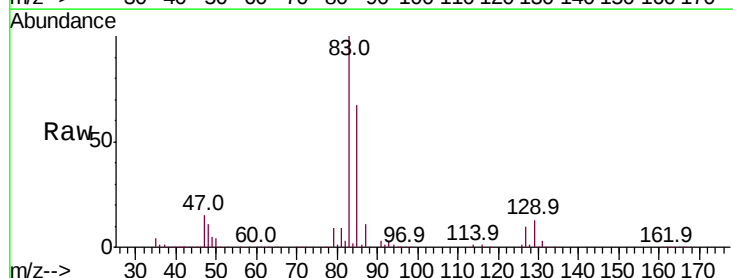
Manual Integrations
APPROVED

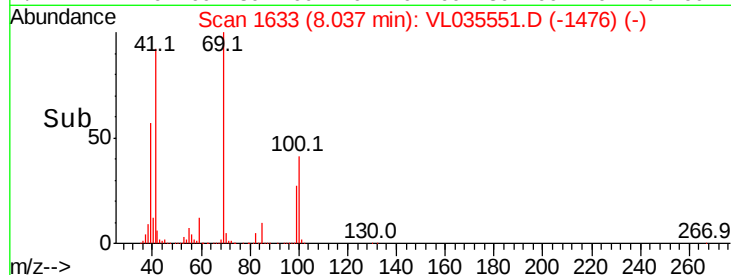
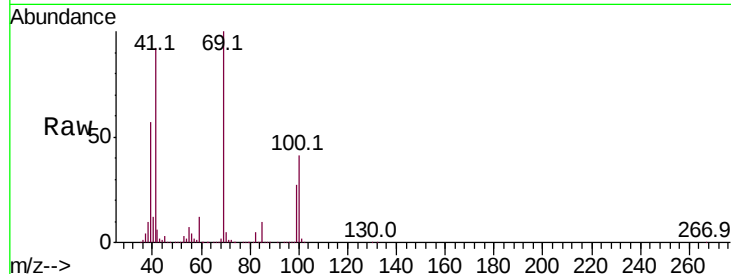
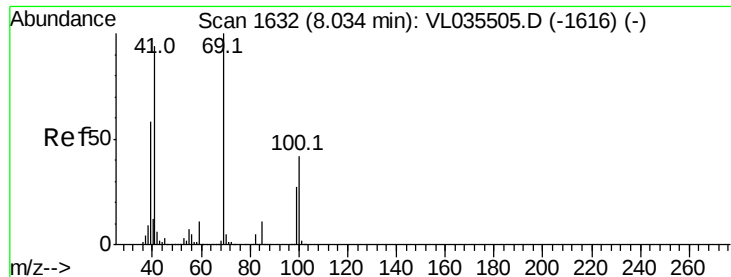
MMDadoda
9/8/2020 5:13:16 PM



#42
Bromodichloromethane
Concen: 11.828 ppbv
RT: 7.81 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.5	53.7	80.5
127	9.6	8.1	12.1





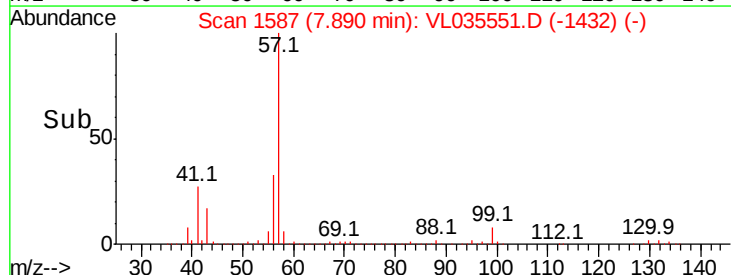
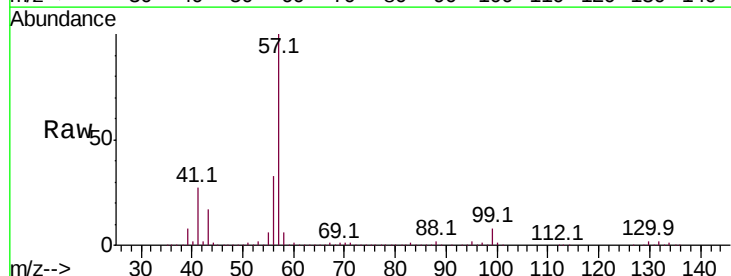
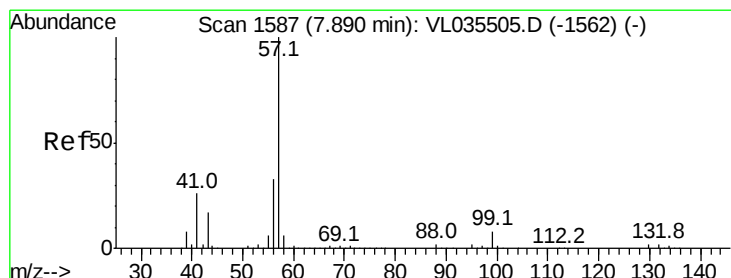
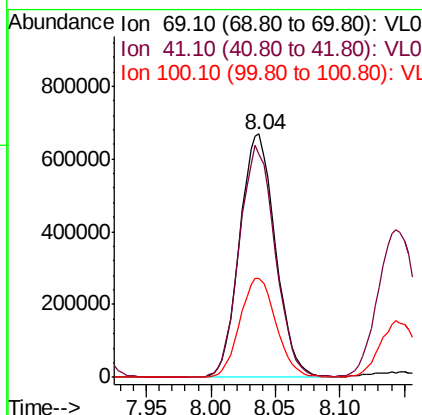
#43
Methvl Methacrilate
Concen: 12.212 ppbv
RT: 8.04 min Scan# 1633
Delta R.T. 0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Tot Ion: 69 Resp: 1294922
Ion Ratio Lower Upper
69 100
41 95.5 76.6 114.8
100 41.2 33.8 50.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

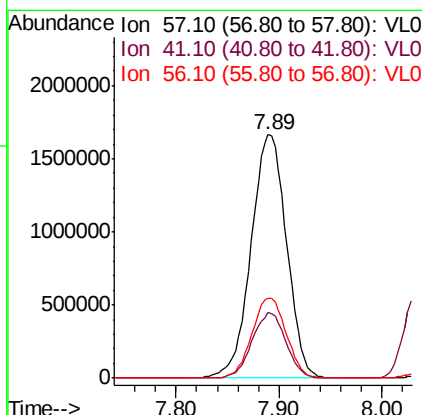
Manual Integrations
APPROVED

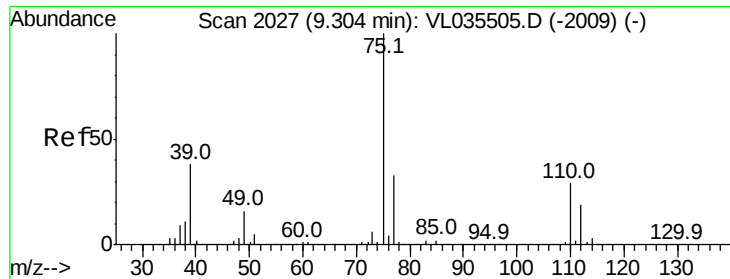
MMDadoda
9/8/2020 5:13:16 PM



#44
2,2,4-Trimethylpentane
Concen: 10.996 ppbv
RT: 7.89 min Scan# 1587
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Tgt Ion: 57 Resp: 3967557
Ion Ratio Lower Upper
57 100
41 25.7 20.5 30.7
56 31.9 25.3 37.9





#45

t-1,3-Dichloropropene

Concen: 13.346 ppbv

RT: 9.30 min Scan# 2027

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Tot Ion: 75 Resp: 1433698

Ion Ratio Lower Upper

75 100

77 32.3 26.5 39.7

Instrument :

MSVOA_L

ClientSampleId :

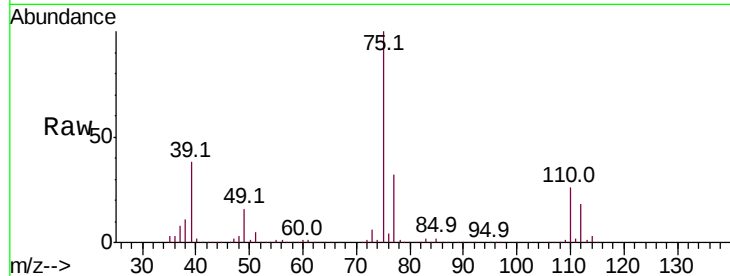
VSTDCCC010EC

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

800000

600000

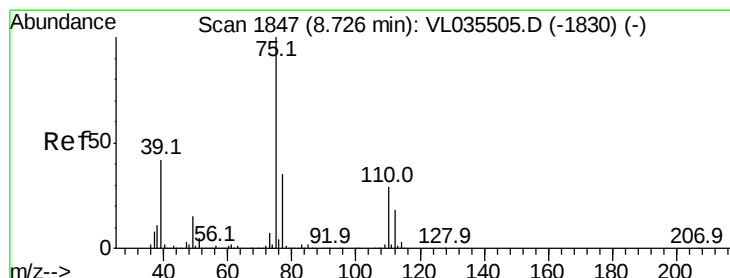
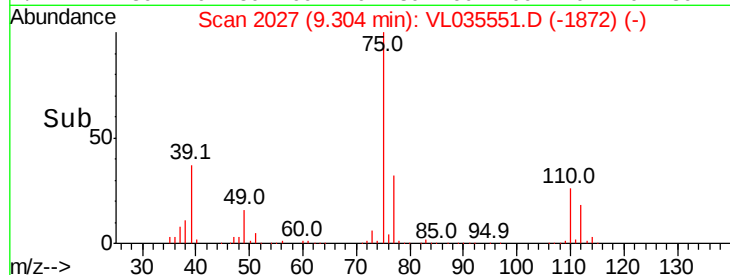
400000

200000

0

9.20 9.25 9.30 9.35 9.40

Time-->



#46

cis-1,3-Dichloropropene

Concen: 12.772 ppbv

RT: 8.73 min Scan# 1847

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

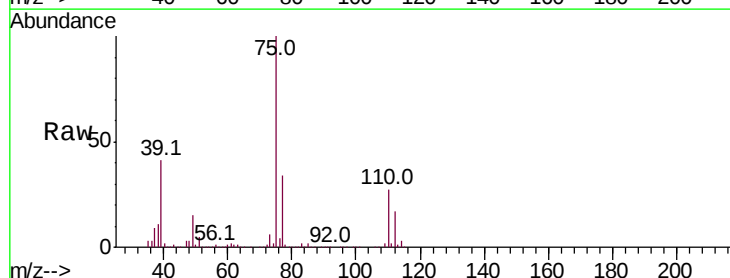
Tgt Ion: 75 Resp: 1703461

Ion Ratio Lower Upper

75 100

39 41.2 33.7 50.5

77 33.5 27.8 41.6



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

1200000

1000000

800000

600000

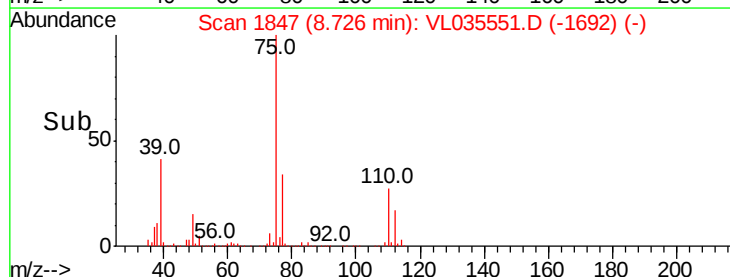
400000

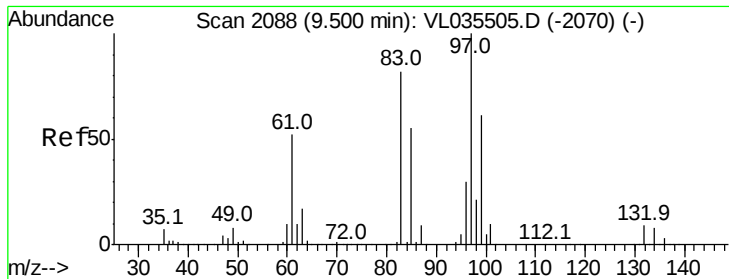
200000

0

8.65 8.70 8.75 8.80

Time-->





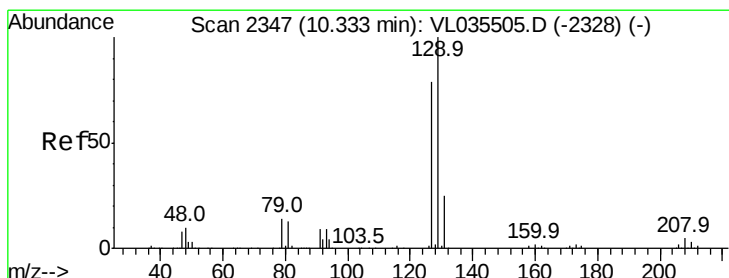
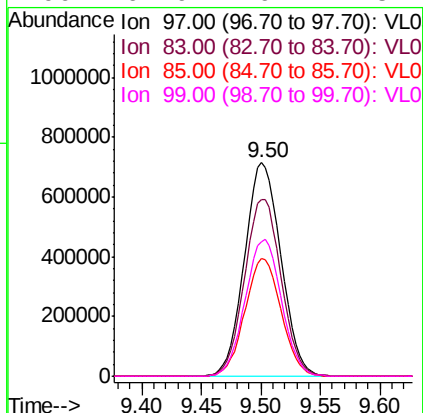
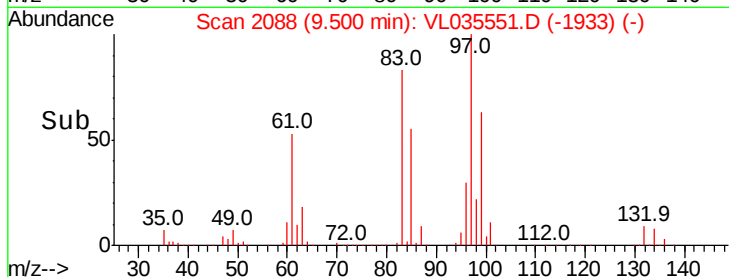
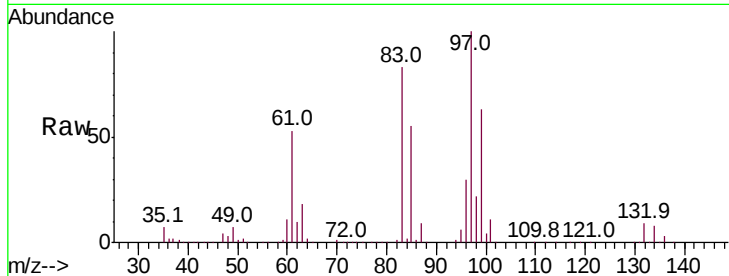
#47
 1,1,2-Trichloroethane
 Concen: 11.098 ppbv
 RT: 9.50 min Scan# 2088
 Delta R.T. -0.00 min
 Lab File: VL035551.D
 Acq: 4 Sep 2020 9:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
97	100		
83	82.8	65.4	98.2
85	55.2	43.7	65.5
99	62.9	49.1	73.7

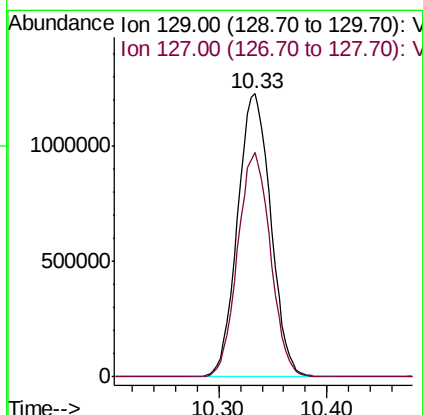
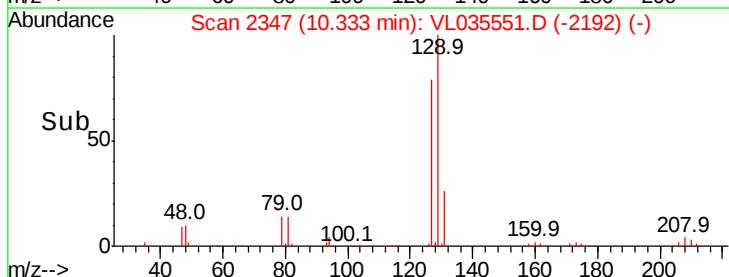
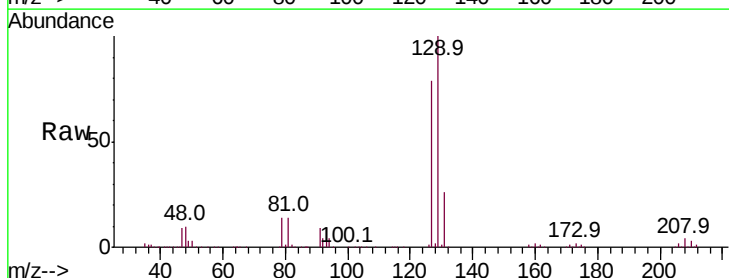
Manual Integrations
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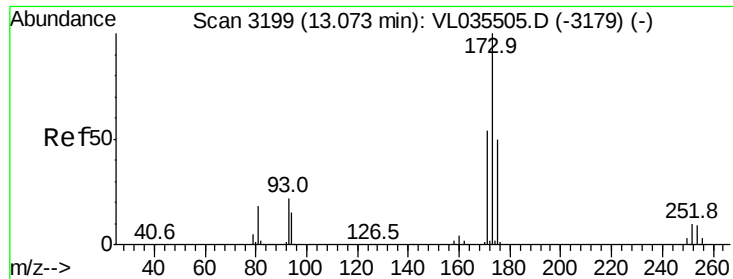
MMDadoda
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#48
 Dibromochloromethane
 Concen: 12.222 ppbv
 RT: 10.33 min Scan# 2347
 Delta R.T. -0.00 min
 Lab File: VL035551.D
 Acq: 4 Sep 2020 9:37

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.3	117.8





#49

Bromoform

Concen: 12.500 ppbv

RT: 13.07 min Scan# 3199

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 2437182

Ion Ratio Lower Upper

173 100

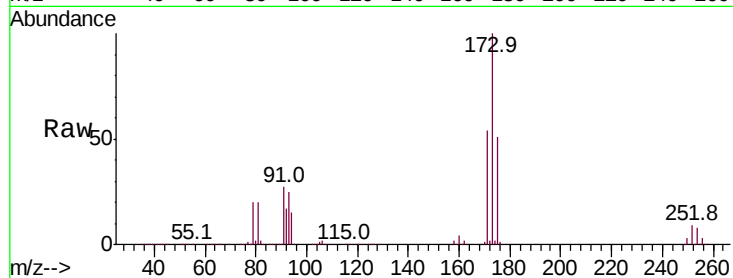
175 50.2 39.8 59.8

171 53.4 42.4 63.6

Manual Integrations
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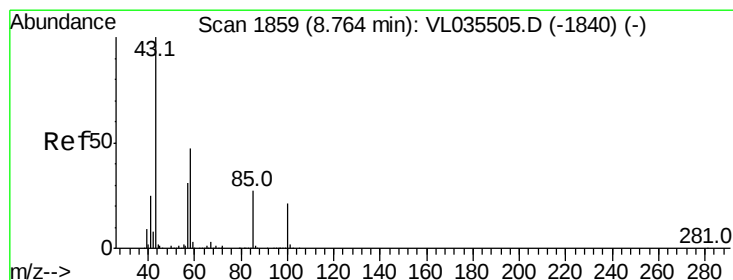
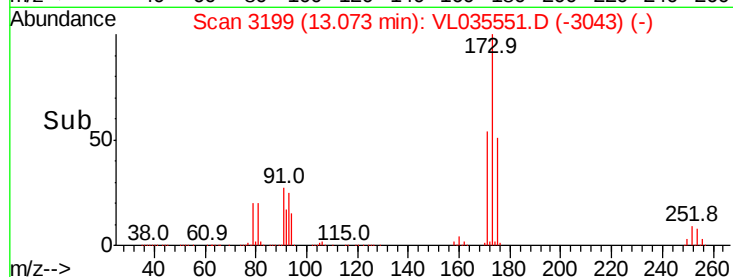
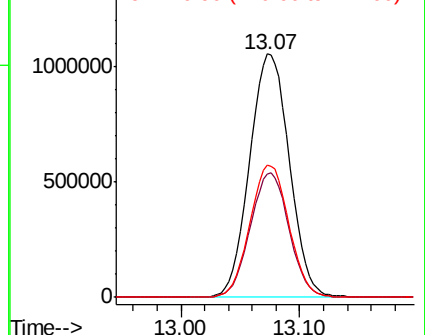
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 11.711 ppbv

RT: 8.76 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VL035551.D

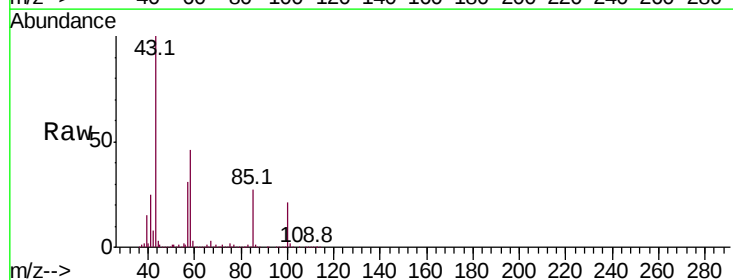
Acq: 4 Sep 2020 9:37

Tgt Ion: 43 Resp: 2132133

Ion Ratio Lower Upper

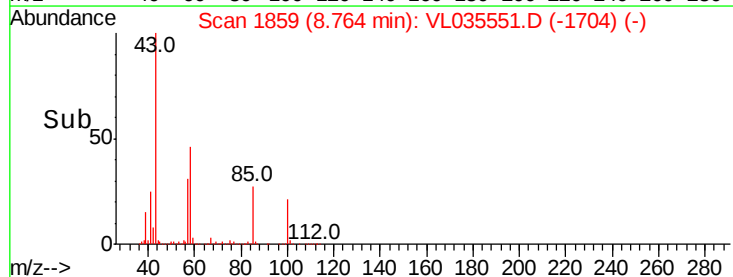
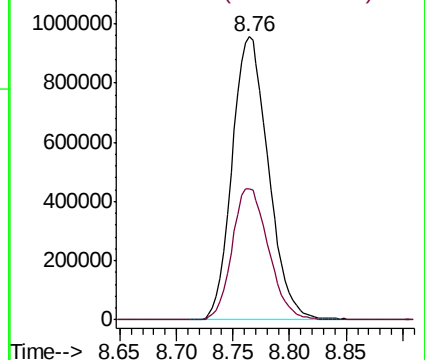
43 100

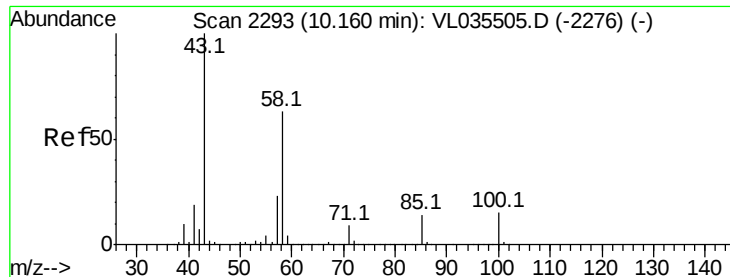
58 46.8 37.4 56.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 12.423 ppbv

RT: 10.16 min Scan# 2293

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1855336

Ion Ratio Lower Upper

43 100

58 62.7 50.2 75.4

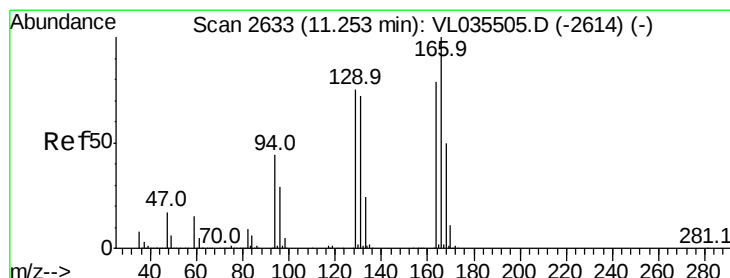
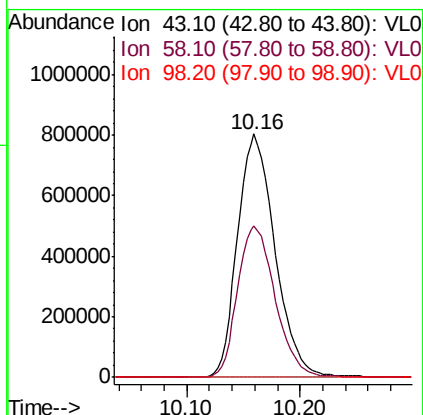
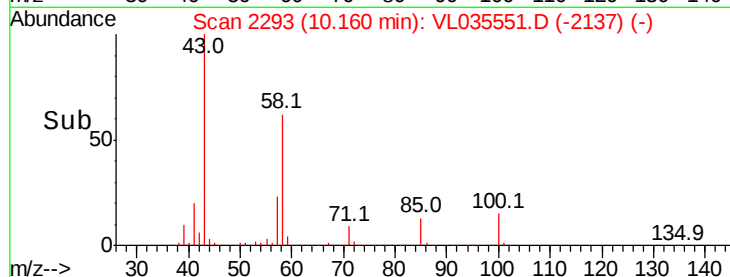
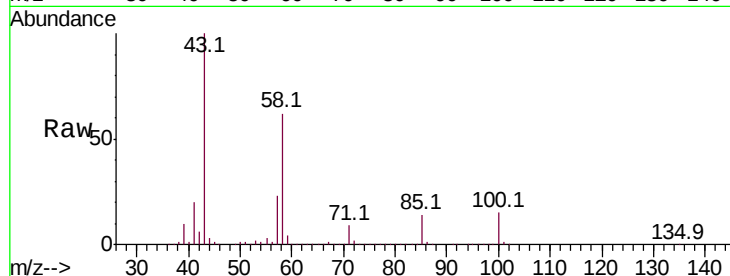
98 0.6 0.4 0.6

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#52

Tetrachloroethene

Concen: 10.251 ppbv

RT: 11.25 min Scan# 2633

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Tgt Ion:164 Resp: 1642225

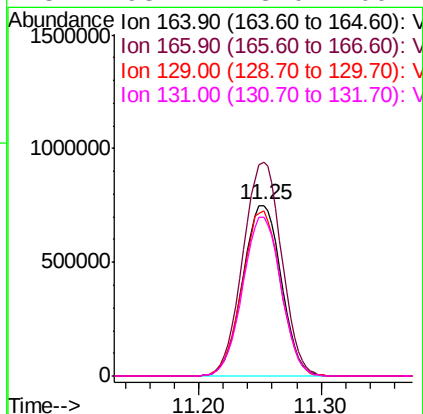
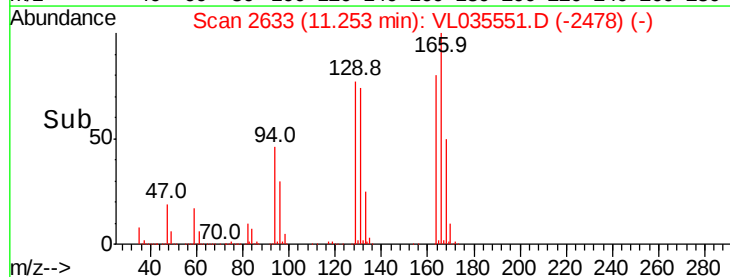
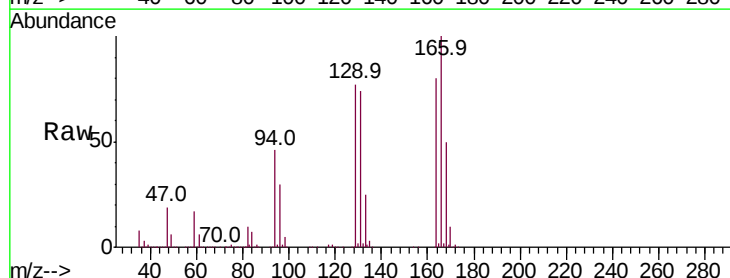
Ion Ratio Lower Upper

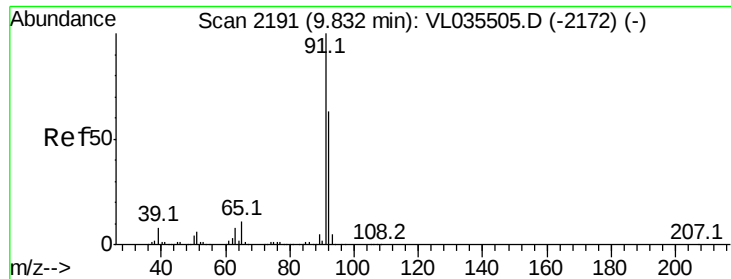
164 100

166 125.3 100.9 151.3

129 96.9 75.3 112.9

131 93.2 73.0 109.4





#53

Toluene

Concen: 11.400 ppbv

RT: 9.83 min Scan# 2191

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3931259

Ion Ratio Lower Upper

91 100

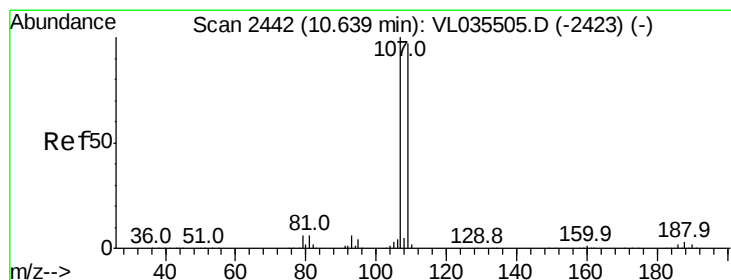
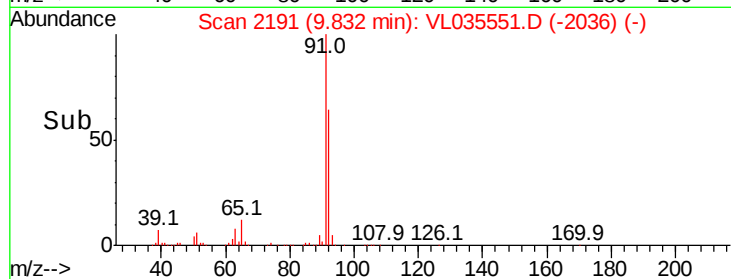
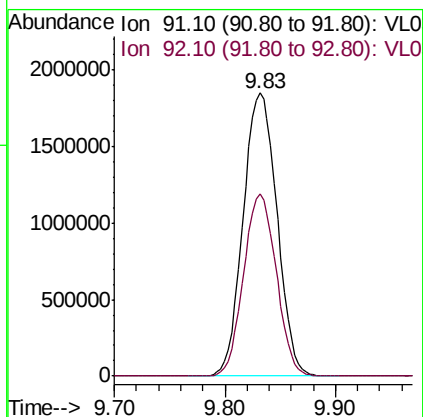
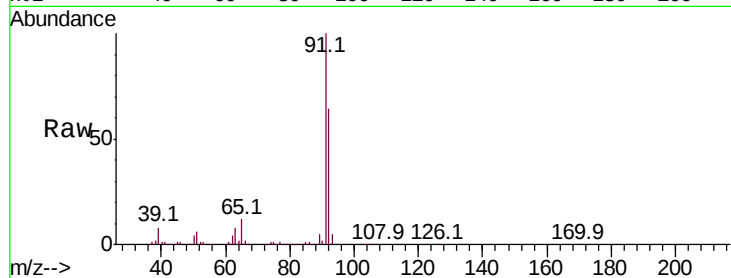
92 62.4 49.8 74.8

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 11.204 ppbv

RT: 10.64 min Scan# 2442

Delta R.T. -0.00 min

Lab File: VL035551.D

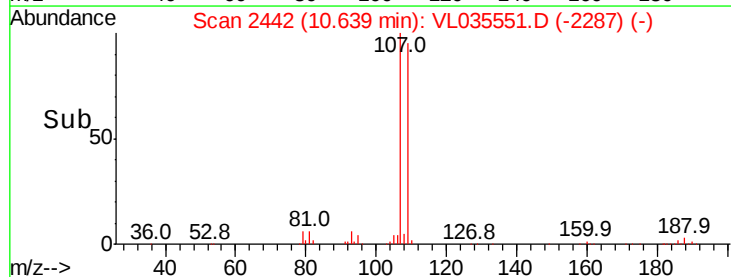
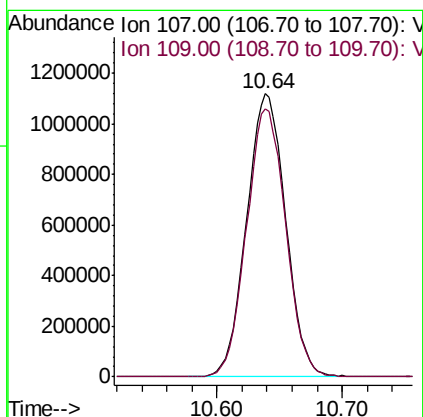
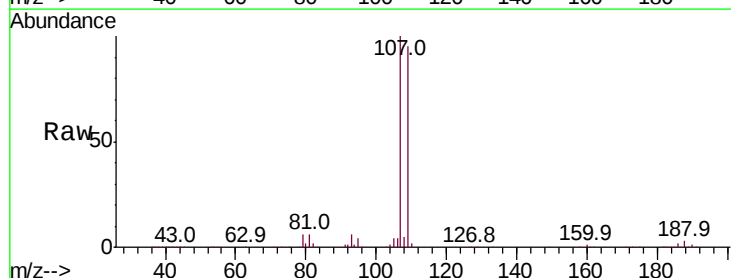
Acq: 4 Sep 2020 9:37

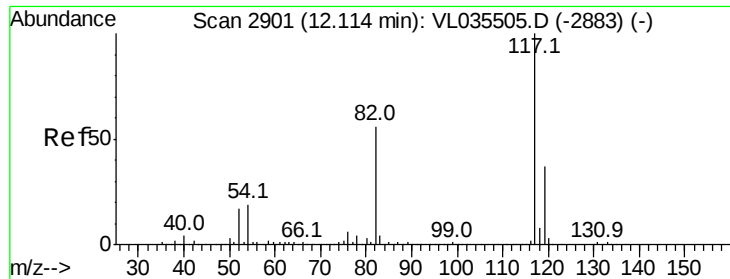
Tgt Ion:107 Resp: 2420037

Ion Ratio Lower Upper

107 100

109 94.8 77.8 116.8





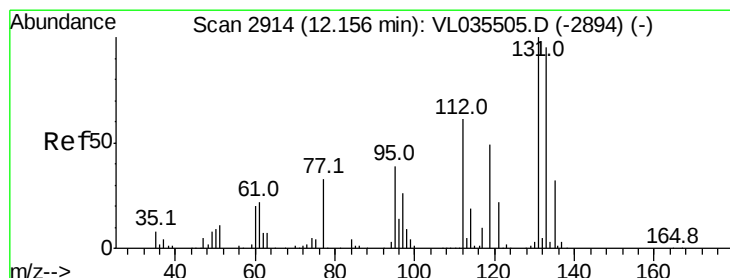
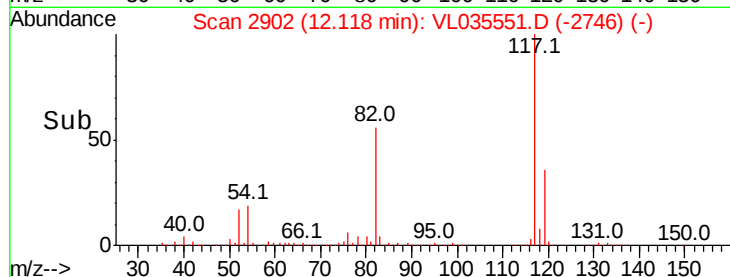
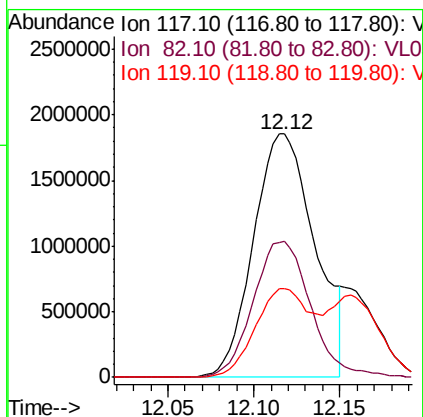
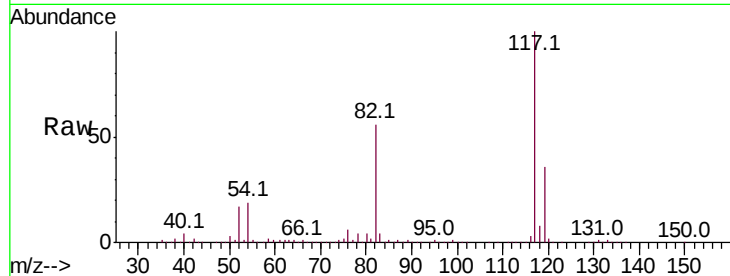
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.12 min Scan# 2902
Delta R.T. 0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 4602242
Ion Ratio Lower Upper
117 100
82 52.6 41.6 62.4
119 30.4 29.3 43.9

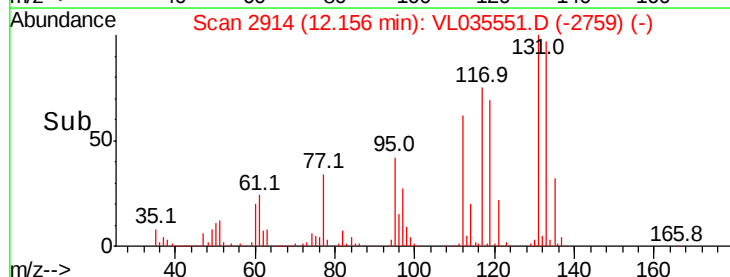
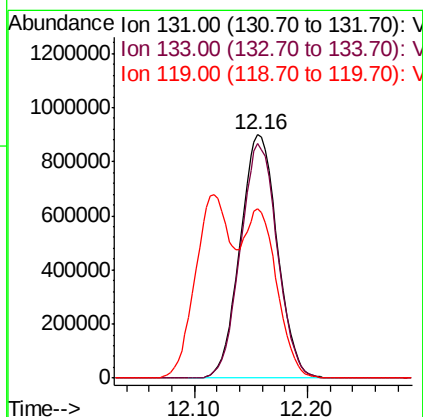
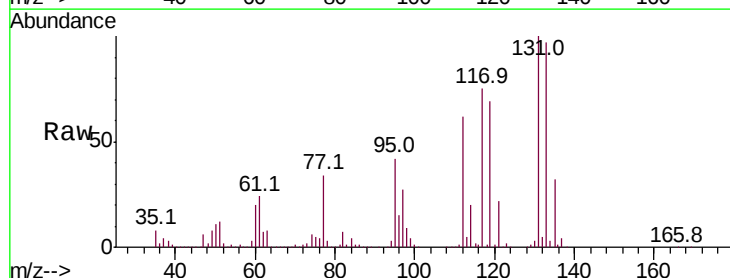
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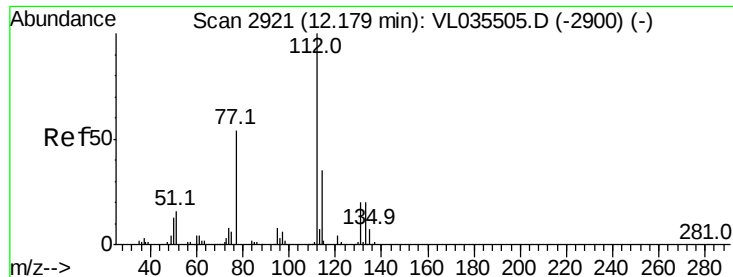
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#56
1,1,1,2-Tetrachloroethane
Concen: 10.989 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Tgt Ion:131 Resp: 2057768
Ion Ratio Lower Upper
131 100
133 95.7 76.6 115.0
119 59.9 51.6 77.4





#57

Chlorobenzene

Concen: 10.065 ppbv

RT: 12.18 min Scan# 2920

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 3409120

Ion Ratio Lower Upper

112 100

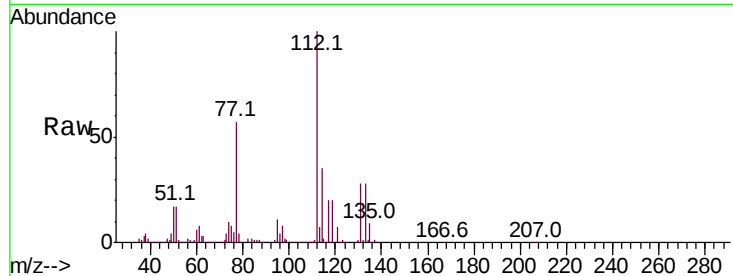
77 56.7 44.2 66.4

114 35.1 31.6 38.6

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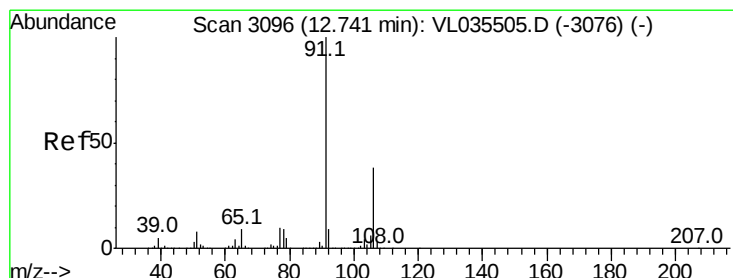
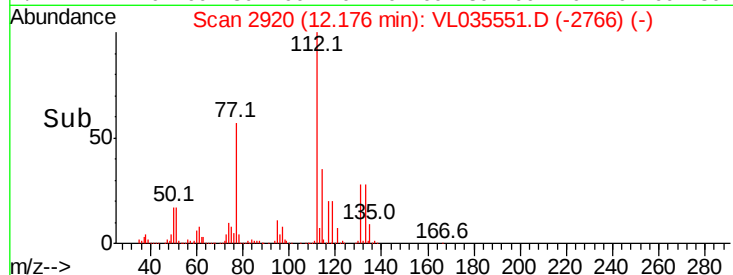
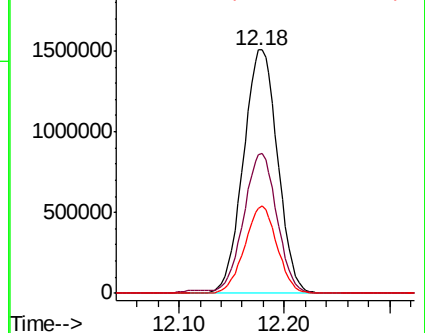
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.880 ppbv

RT: 12.74 min Scan# 3096

Delta R.T. -0.00 min

Lab File: VL035551.D

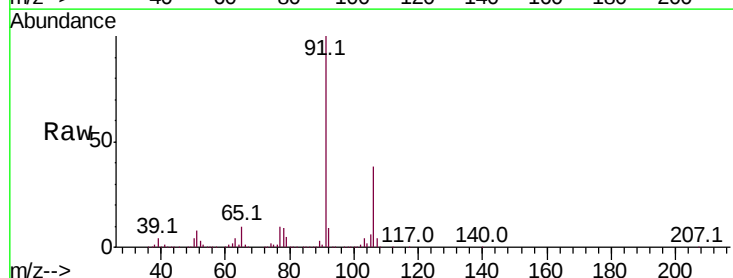
Acq: 4 Sep 2020 9:37

Tgt Ion: 91 Resp: 5163322

Ion Ratio Lower Upper

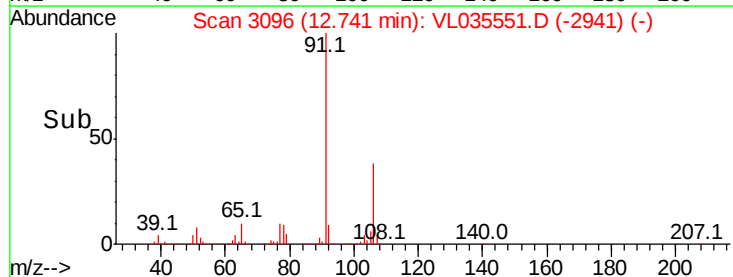
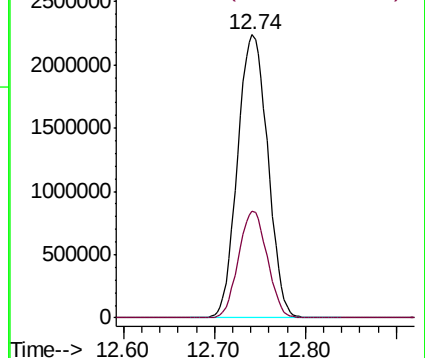
91 100

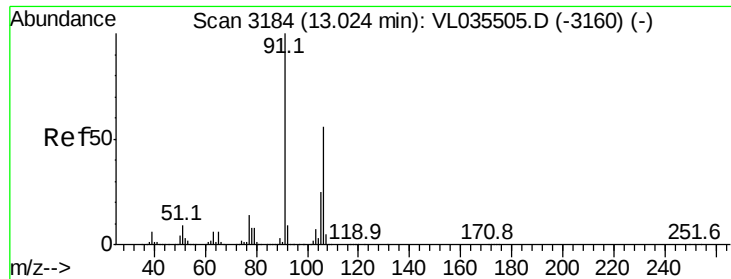
106 37.6 30.3 45.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





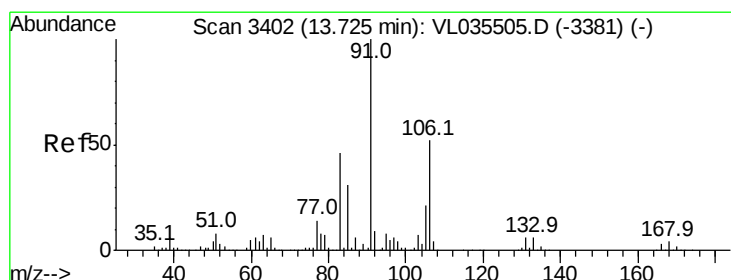
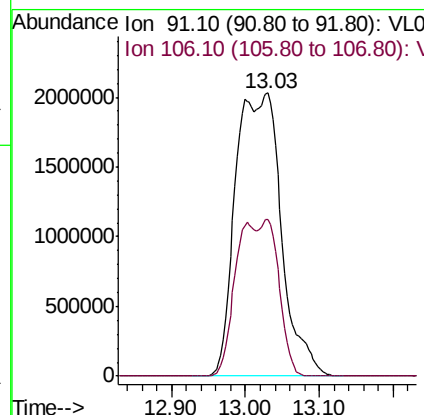
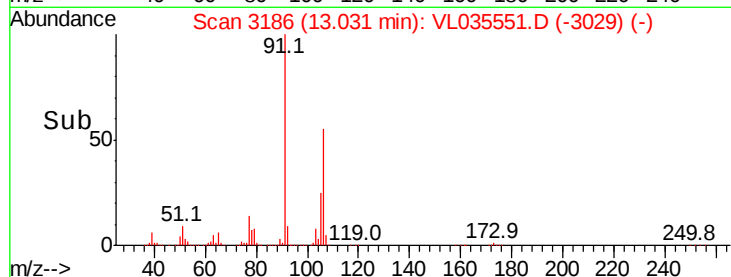
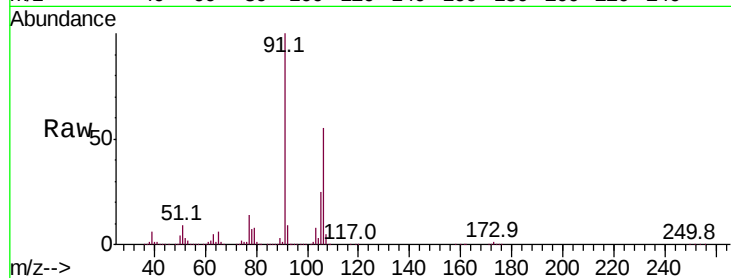
#59
m/p-Xylene
Concen: 22.090 ppbv m
RT: 13.03 min Scan# 3186
Delta R.T. 0.01 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 8759981
Ion Ratio Lower Upper
91 100
106 51.3 43.4 65.2

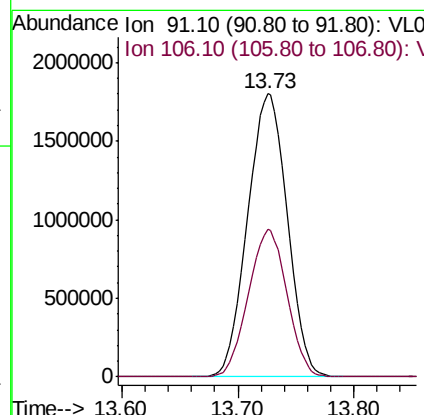
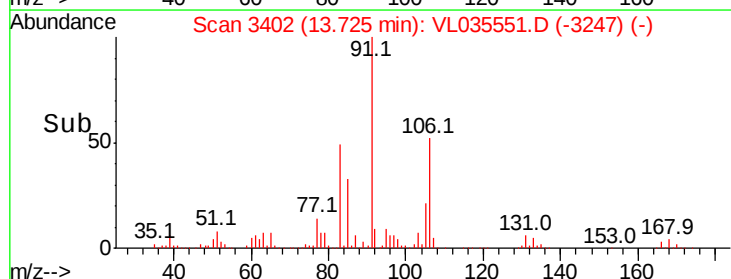
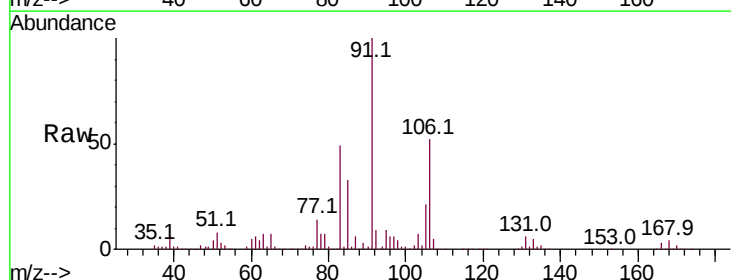
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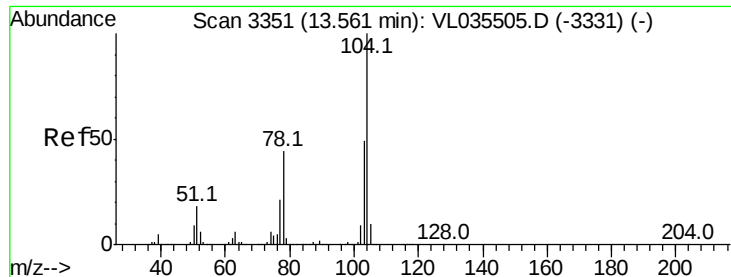
MMDadoda
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#60
o-Xylene
Concen: 10.721 ppbv
RT: 13.73 min Scan# 3402
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Tgt Ion: 91 Resp: 4282054
Ion Ratio Lower Upper
91 100
106 50.9 25.8 77.4





#61

Stvrene

Concen: 11.488 ppbv

RT: 13.56 min Scan# 3351

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 3509338

Ion Ratio Lower Upper

104 100

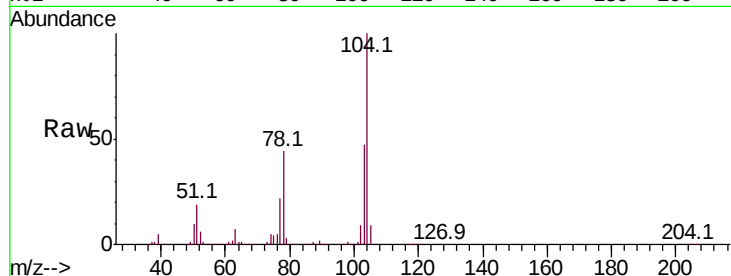
78 44.4 34.8 52.2

103 47.9 38.2 57.4

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MMDadoda

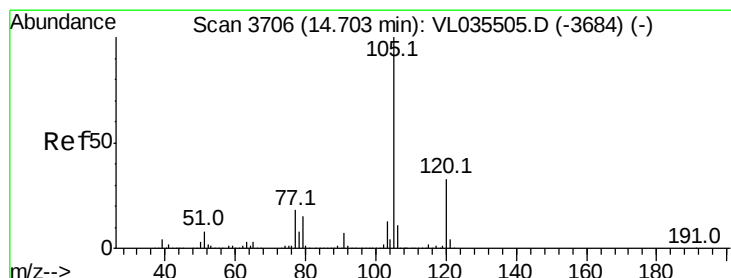
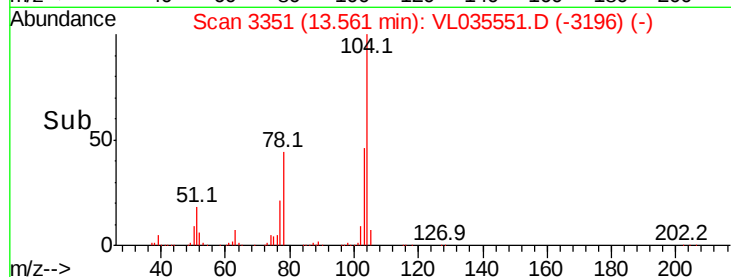
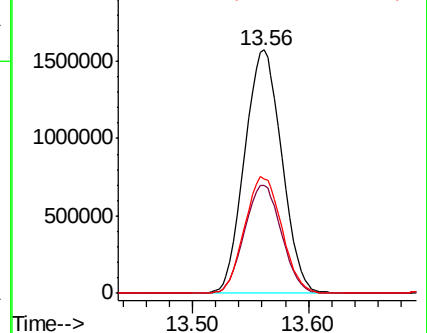
9/8/2020 5:13:16 PM



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: 10.172 ppbv

RT: 14.70 min Scan# 3706

Delta R.T. -0.00 min

Lab File: VL035551.D

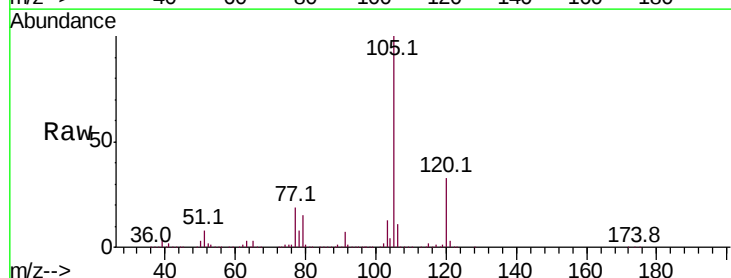
Acq: 4 Sep 2020 9:37

Tgt Ion:105 Resp: 6525977

Ion Ratio Lower Upper

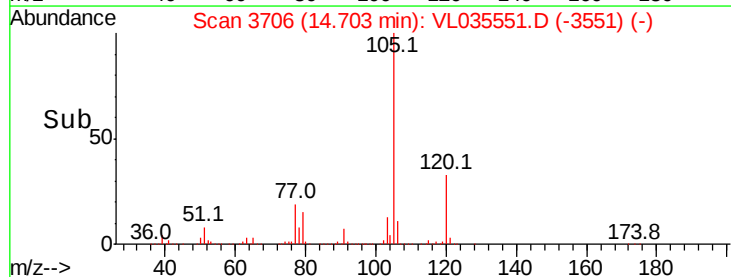
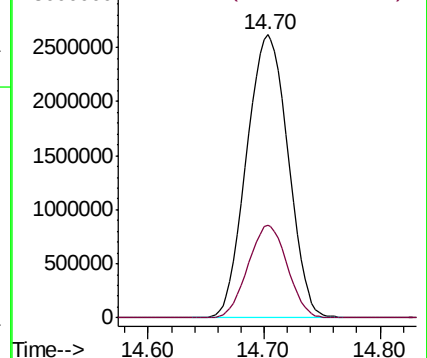
105 100

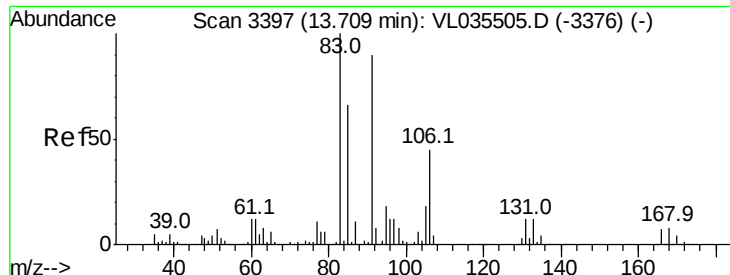
120 31.0 25.0 37.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





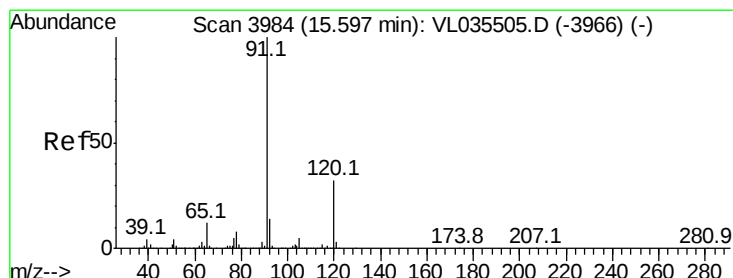
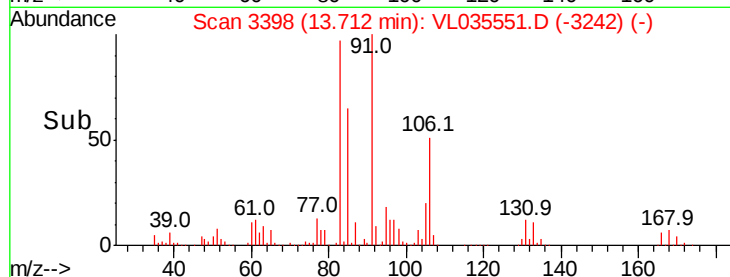
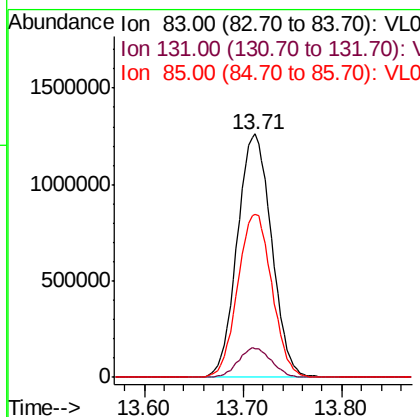
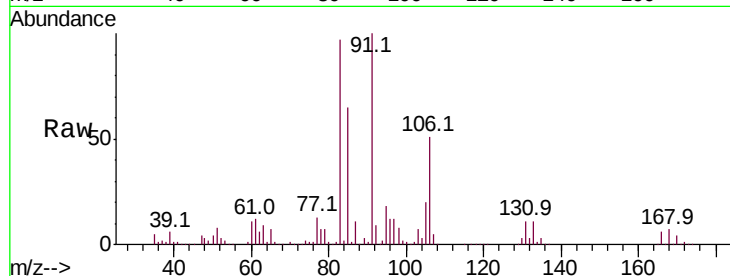
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.828 ppbv
 RT: 13.71 min Scan# 3398
 Delta R.T. 0.00 min
 Lab File: VL035551.D
 Acq: 4 Sep 2020 9:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 83 Resp: 3043374
 Ion Ratio Lower Upper
 83 100
 131 11.6 6.0 18.0
 85 67.0 33.4 100.2

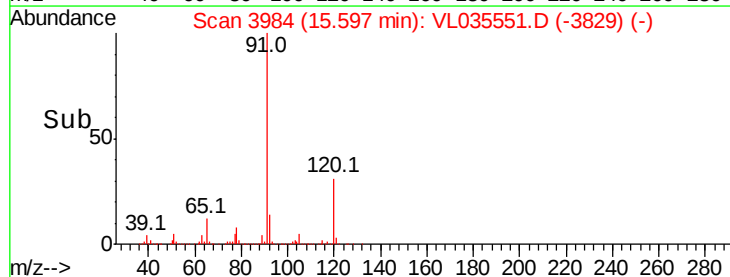
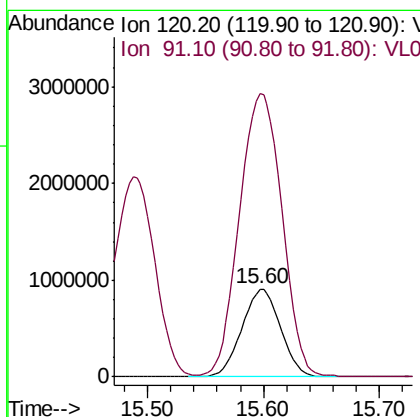
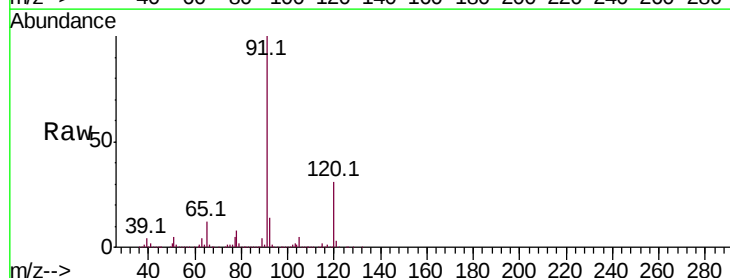
Manual Integrations
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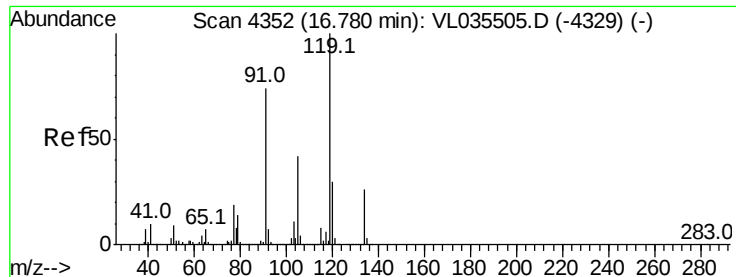
MMDadoda
 9/8/2020 5:13:16 PM



#64
 n-propylbenzene
 Concen: 10.733 ppbv
 RT: 15.60 min Scan# 3984
 Delta R.T. -0.00 min
 Lab File: VL035551.D
 Acq: 4 Sep 2020 9:37

Tgt Ion: 120 Resp: 2101361
 Ion Ratio Lower Upper
 120 100
 91 356.9 279.4 419.0





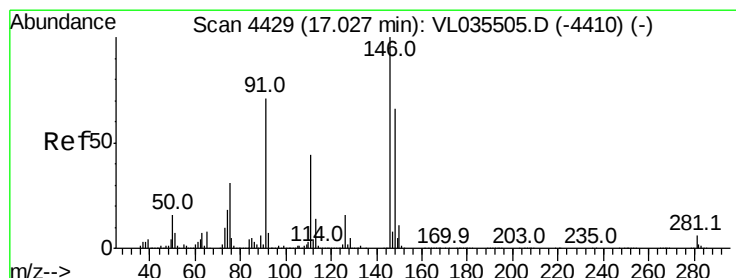
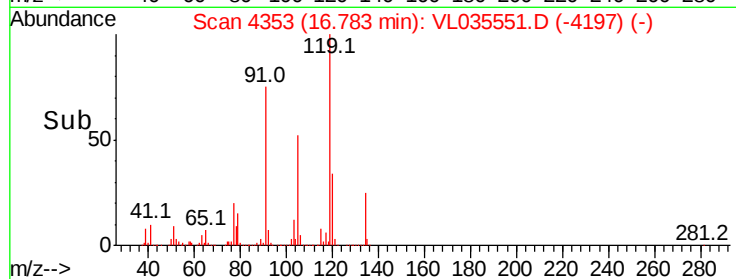
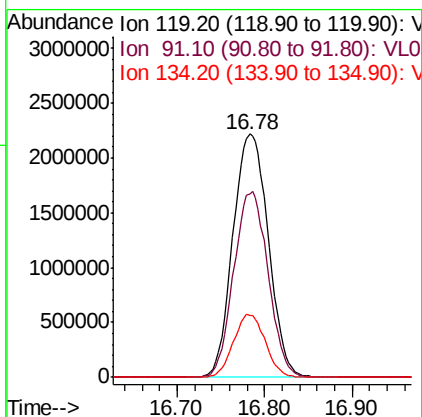
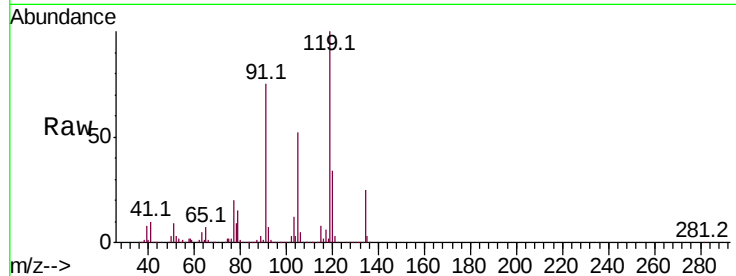
#65
tert-Butylbenzene
Concen: 10.423 ppbv
RT: 16.78 min Scan# 4353
Delta R.T. 0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	74.4	58.6	87.8
134	23.3	18.9	28.3

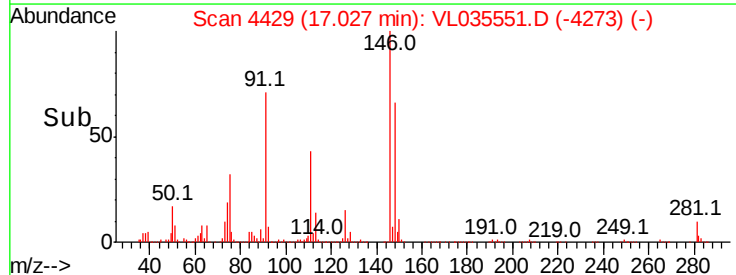
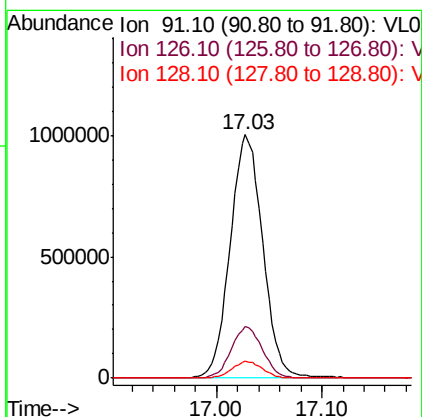
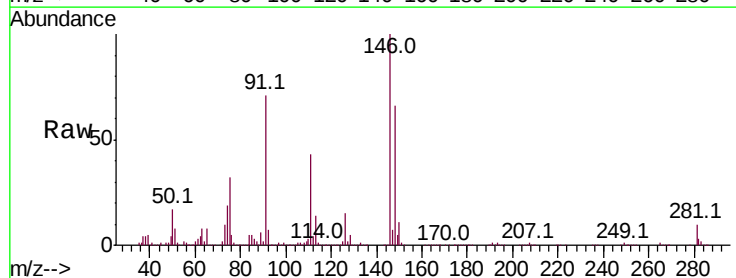
Manual Integrations
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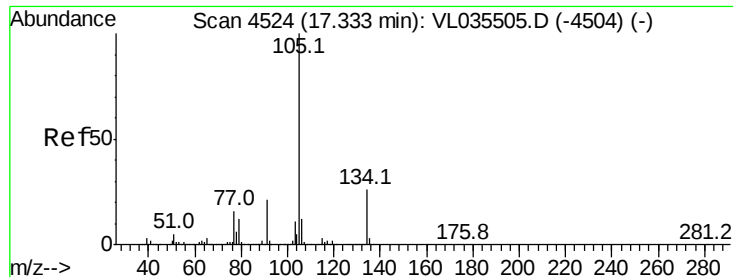
MMDadoda
9/8/2020 5:13:16 PM



#66
Benzyl Chloride
Concen: 14.448 ppbv
RT: 17.03 min Scan# 4429
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Tgt Ion	Ratio	Lower	Upper
91	100		
126	20.4	17.2	25.8
128	6.6	5.5	8.3





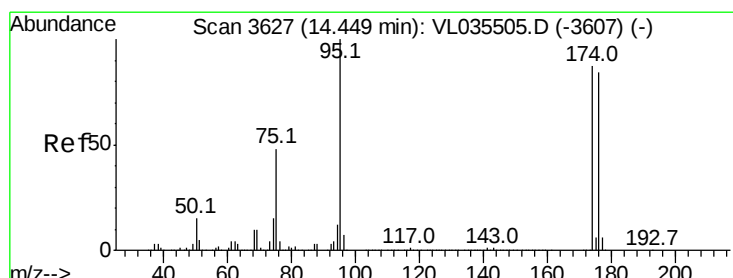
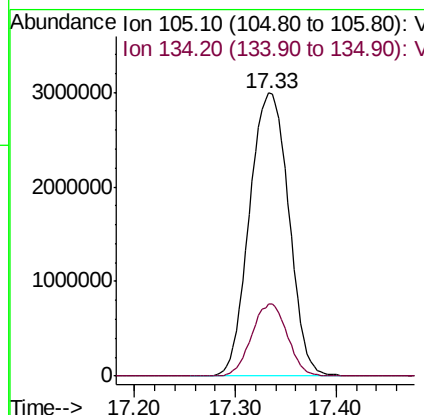
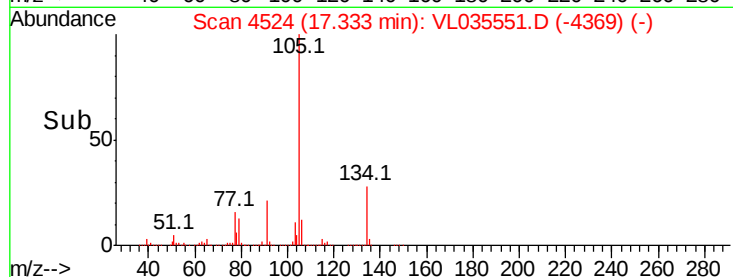
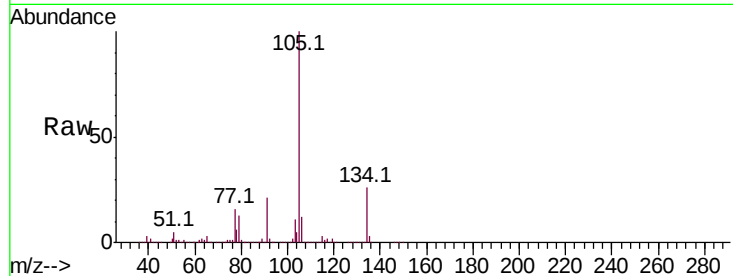
#67
 sec-Butylbenzene
 Concen: 10.178 ppbv
 RT: 17.33 min Scan# 4524
 Delta R.T. -0.00 min
 Lab File: VL035551.D
 Acq: 4 Sep 2020 9:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:105 Resp: 8087504
 Ion Ratio Lower Upper
 105 100
 134 23.3 19.1 28.7

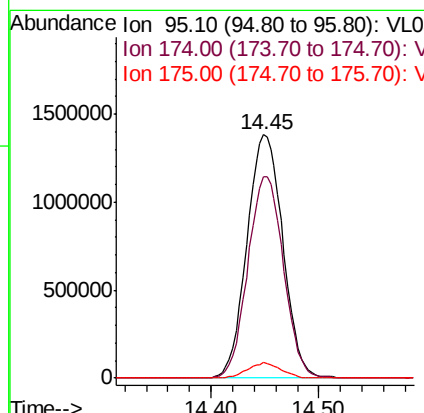
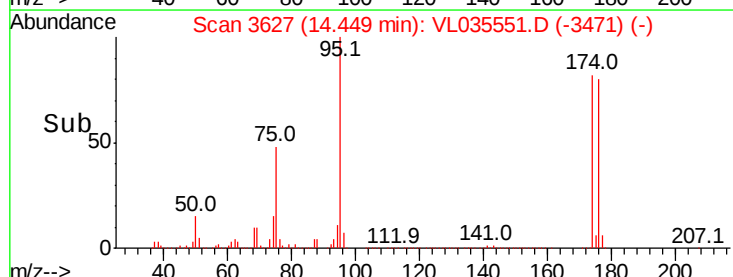
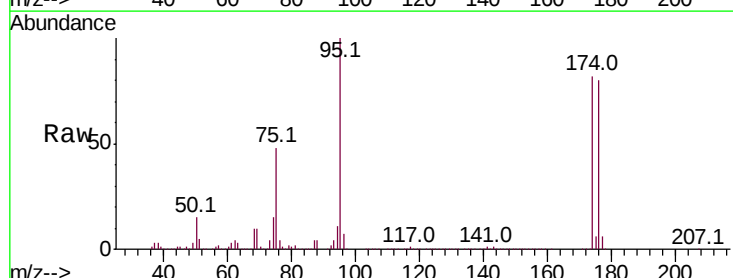
Manual Integrations
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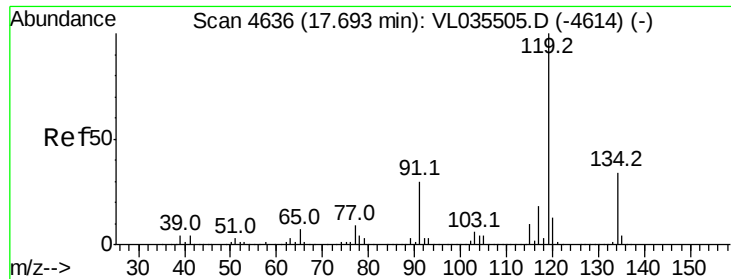
MMDadoda
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.769 ppbv
 RT: 14.45 min Scan# 3627
 Delta R.T. -0.00 min
 Lab File: VL035551.D
 Acq: 4 Sep 2020 9:37

Tgt Ion: 95 Resp: 3192807
 Ion Ratio Lower Upper
 95 100
 174 82.8 69.6 104.4
 175 5.9 5.1 7.7





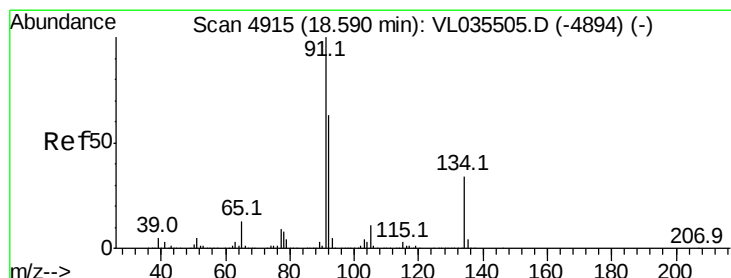
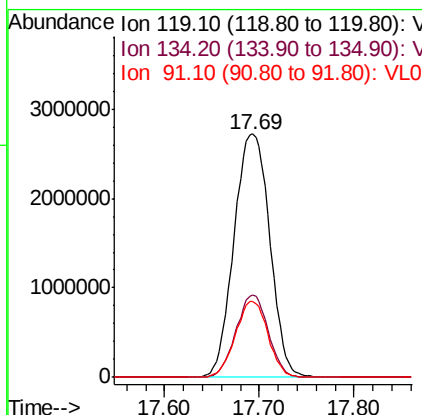
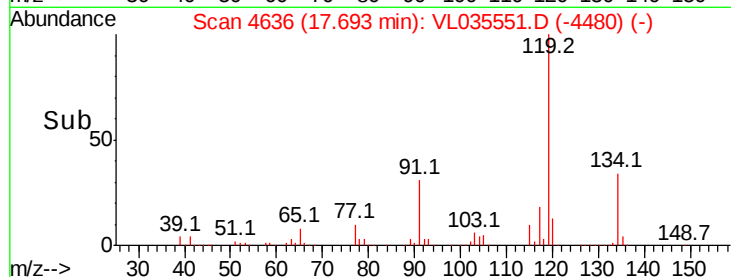
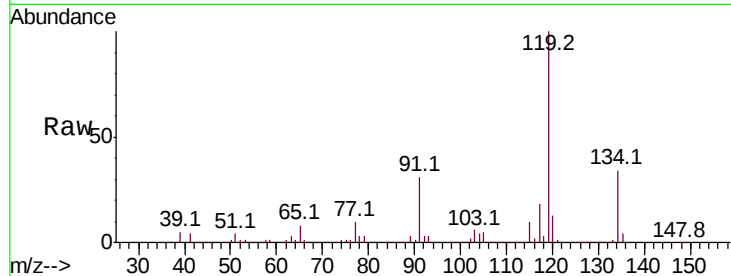
#69
 p-Isopropyltoluene
 Concen: 10.259 ppbv
 RT: 17.69 min Scan# 4636
 Delta R.T. -0.00 min
 Lab File: VL035551.D
 Acq: 4 Sep 2020 9:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	30.8	25.0	37.4
91	28.6	22.3	33.5

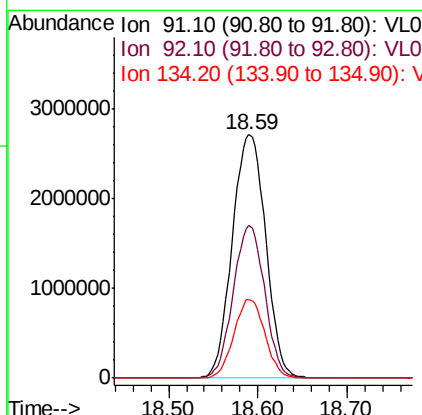
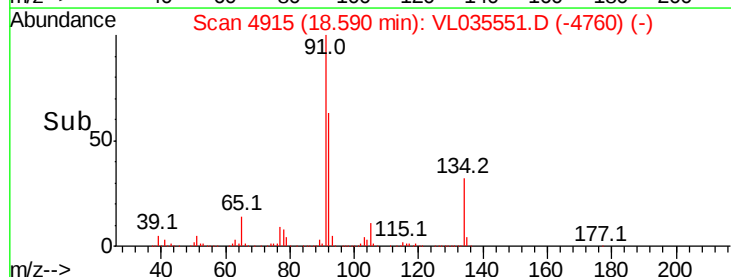
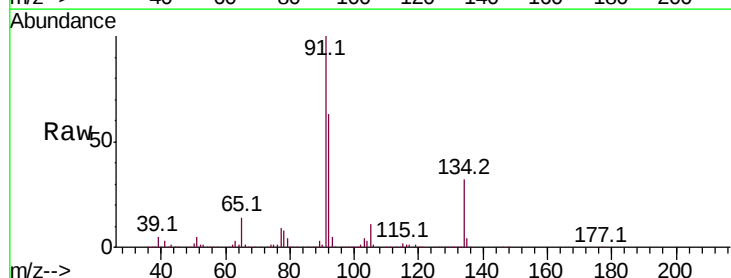
Manual Integrations
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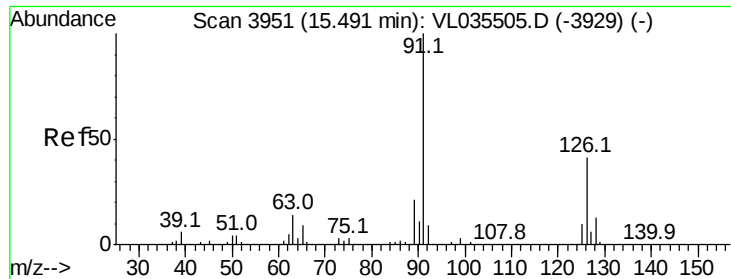
MMDadoda
 9/8/2020 5:13:16 PM



#70
 n-Butylbenzene
 Concen: 10.461 ppbv
 RT: 18.59 min Scan# 4915
 Delta R.T. -0.00 min
 Lab File: VL035551.D
 Acq: 4 Sep 2020 9:37

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.2	47.3	70.9
134	30.0	24.6	37.0





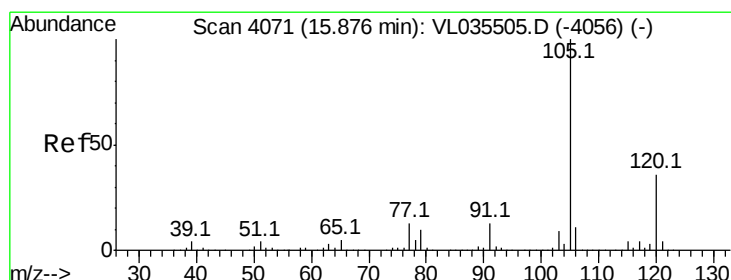
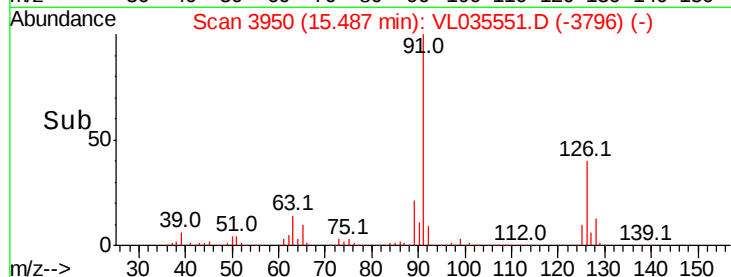
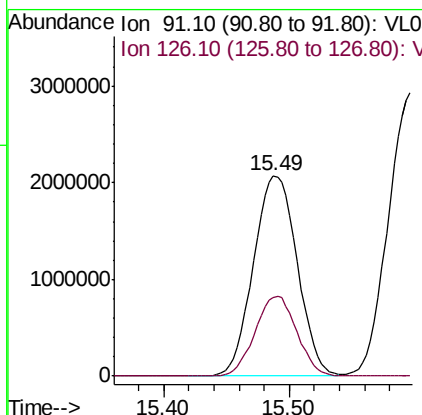
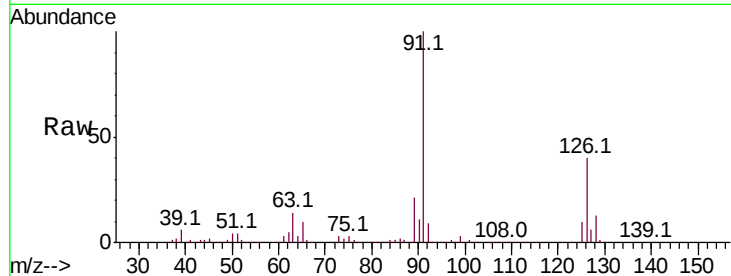
#71
2-Chlorotoluene
Concen: 10.777 ppbv
RT: 15.49 min Scan# 3950
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 5035263
Ion Ratio Lower Upper
91 100
126 38.1 15.6 62.6

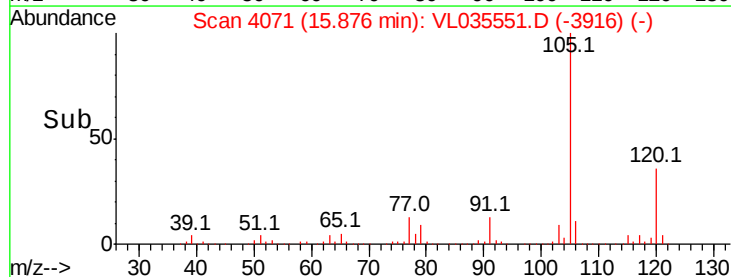
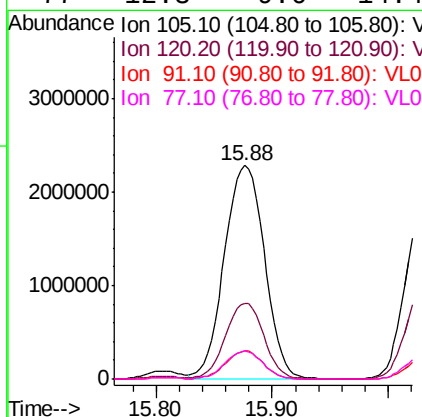
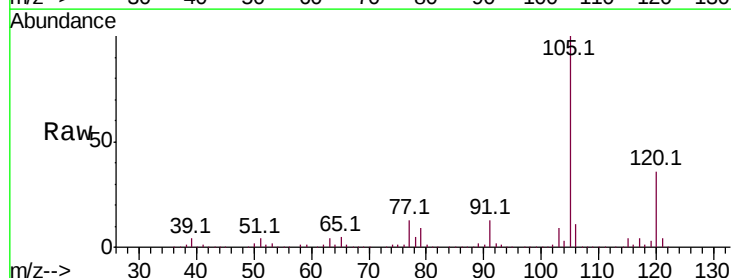
Manual Integrations
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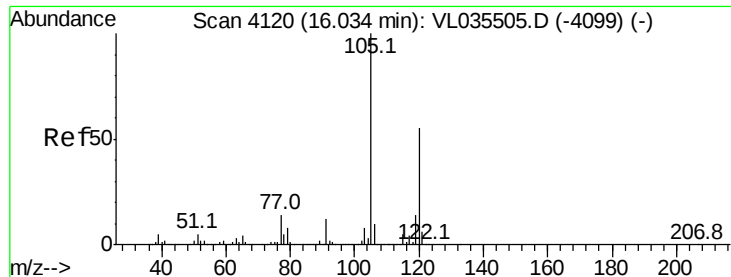
MMDadoda
9/8/2020 5:13:16 PM



#72
4-Ethyltoluene
Concen: 10.806 ppbv
RT: 15.88 min Scan# 4071
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Tgt Ion:105 Resp: 5486990
Ion Ratio Lower Upper
105 100
120 34.2 27.4 41.2
91 12.4 9.7 14.5
77 12.3 9.6 14.4





#73

1,3,5-Trimethylbenzene

Concen: 10.785 ppbv

RT: 16.03 min Scan# 4120

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 5065159

Ion Ratio Lower Upper

105 100

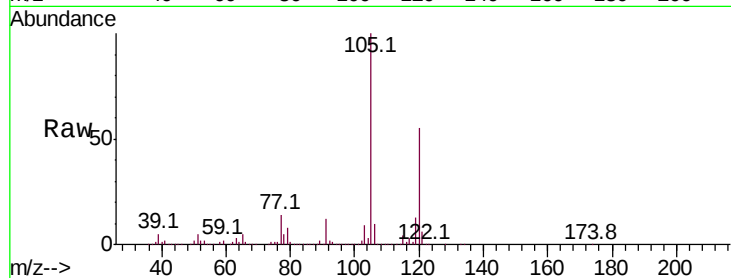
120 54.6 44.2 66.2

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.03

2000000

1500000

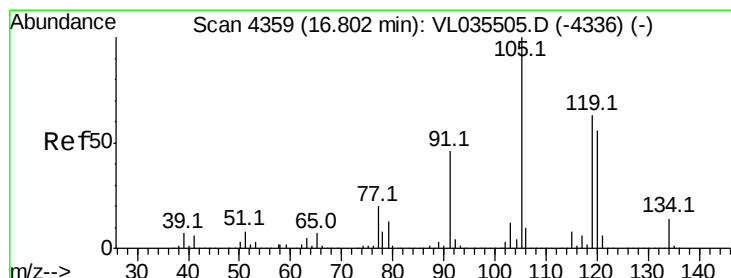
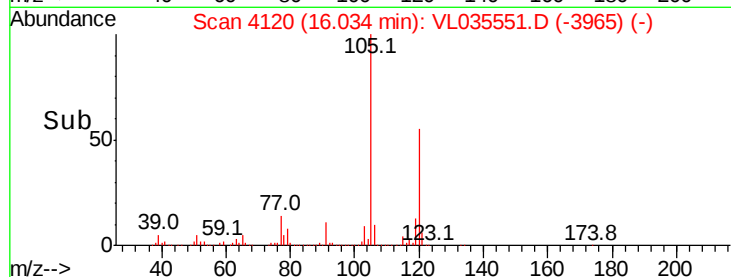
1000000

500000

0

16.00 16.10

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 10.334 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Tgt Ion:105 Resp: 5329821

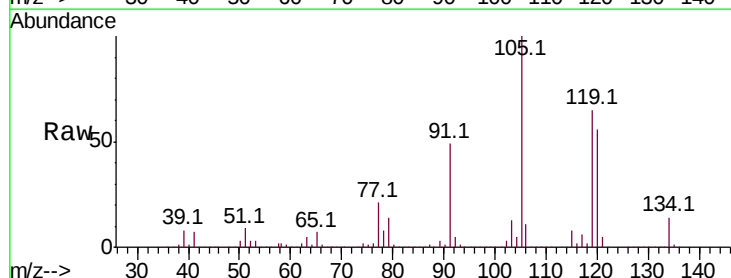
Ion Ratio Lower Upper

105 100

120 56.3 44.4 66.6

91 48.7 37.1 55.7

77 20.6 16.0 24.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

3000000

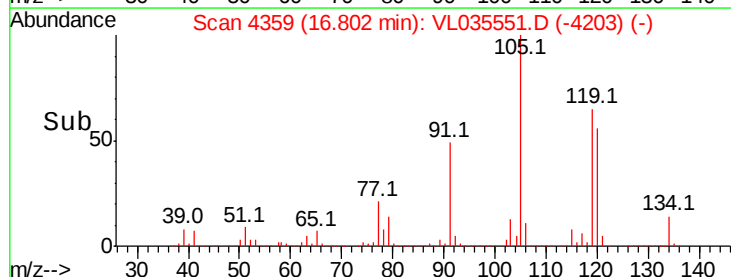
2000000

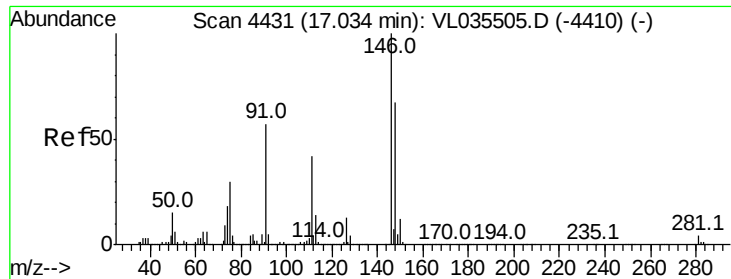
1000000

0

16.70 16.80 16.90

Time-->





#75

1,3-Dichlorobenzene

Concen: 9.989 ppbv

RT: 17.03 min Scan# 4431

Delta R.T. -0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 3816078

Ion Ratio Lower Upper

146 100

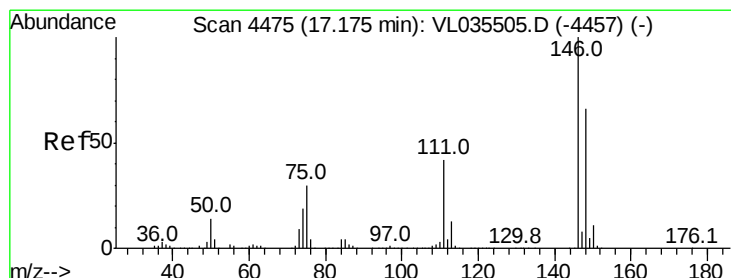
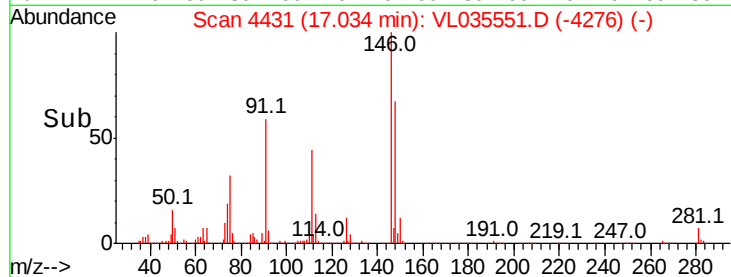
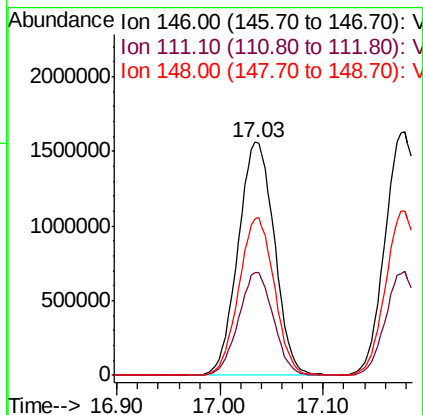
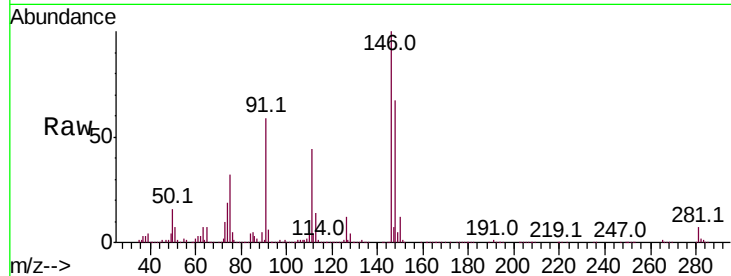
111 42.4 20.7 62.1

148 66.1 33.0 98.9

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 10.262 ppbv

RT: 17.18 min Scan# 4476

Delta R.T. 0.00 min

Lab File: VL035551.D

Acq: 4 Sep 2020 9:37

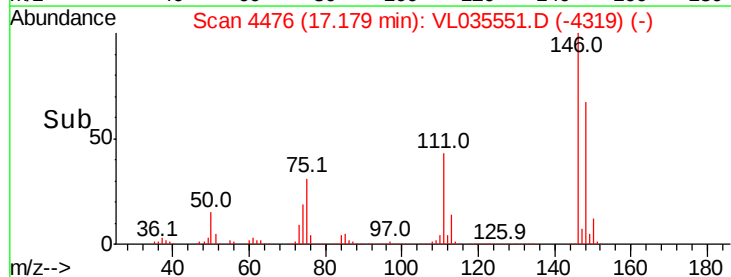
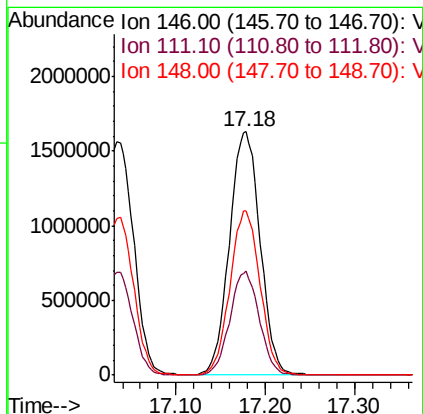
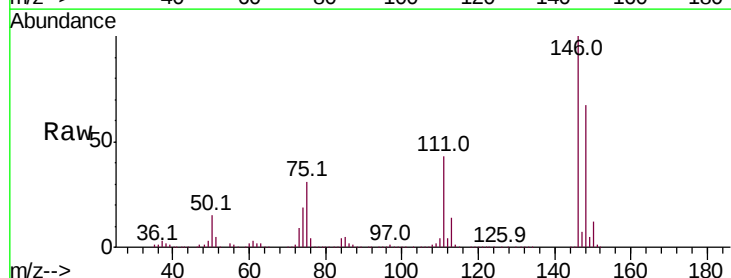
Tgt Ion:146 Resp: 3866311

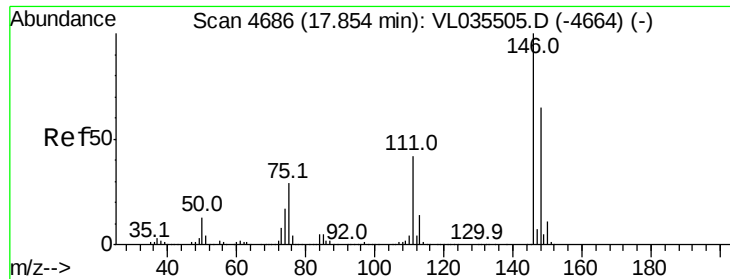
Ion Ratio Lower Upper

146 100

111 41.1 20.0 60.0

148 66.2 33.2 99.6





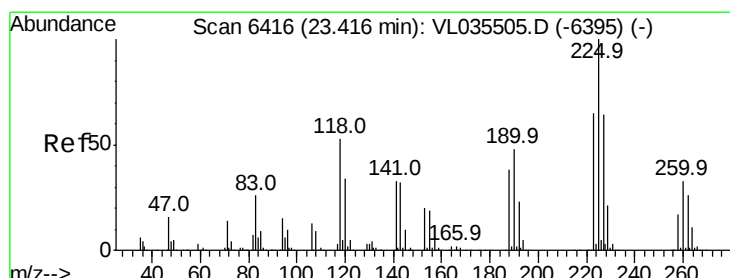
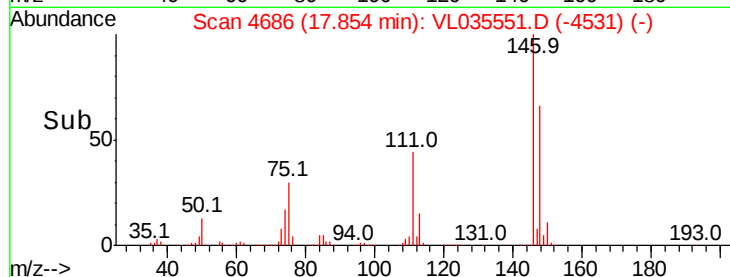
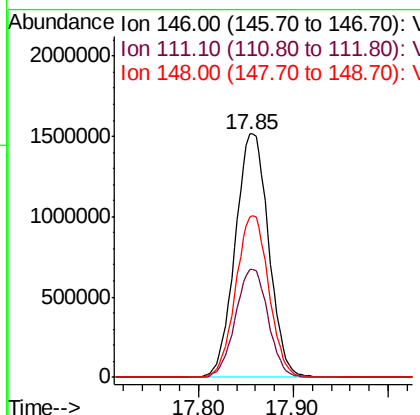
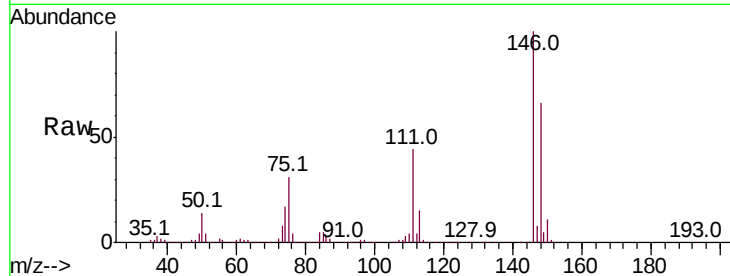
#77
 1,2-Dichlorobenzene
 Concen: 10.052 ppbv
 RT: 17.85 min Scan# 4686
 Delta R.T. -0.00 min
 Lab File: VL035551.D
 Acq: 4 Sep 2020 9:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.1	63.3
148	65.7	32.9	98.7

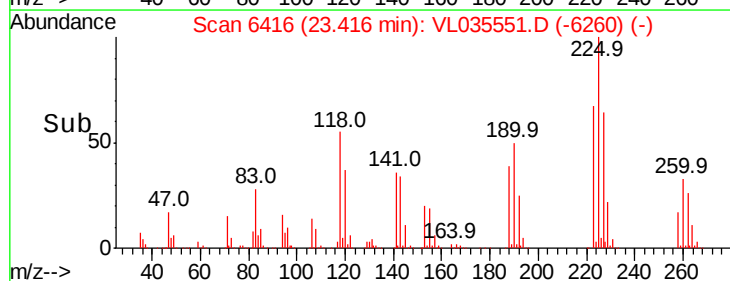
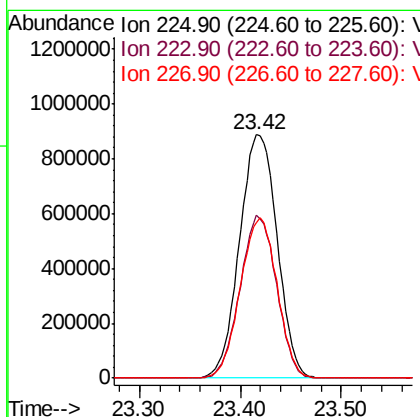
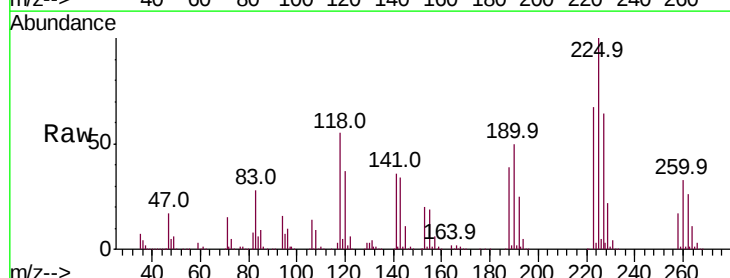
Manual Integrations
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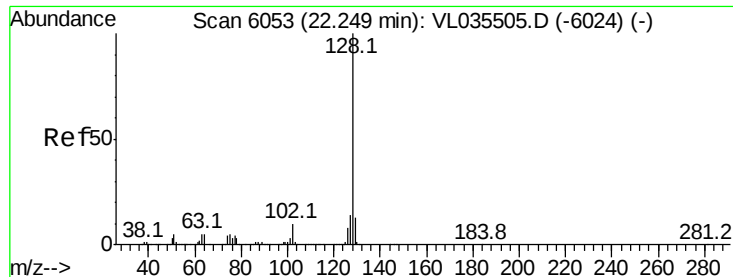
MMDadoda
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#78
 Hexachloro-1,3-Butadiene
 Concen: 9.731 ppbv
 RT: 23.42 min Scan# 6416
 Delta R.T. -0.00 min
 Lab File: VL035551.D
 Acq: 4 Sep 2020 9:37

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.7	51.7	77.5
227	64.4	51.5	77.3





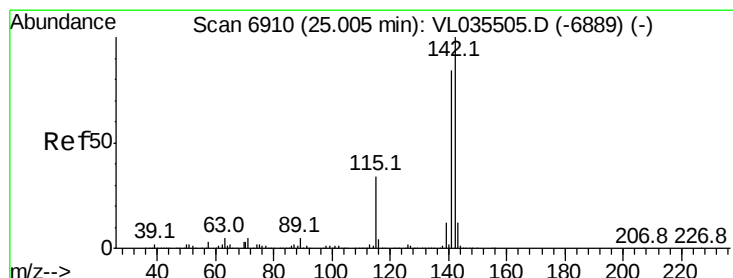
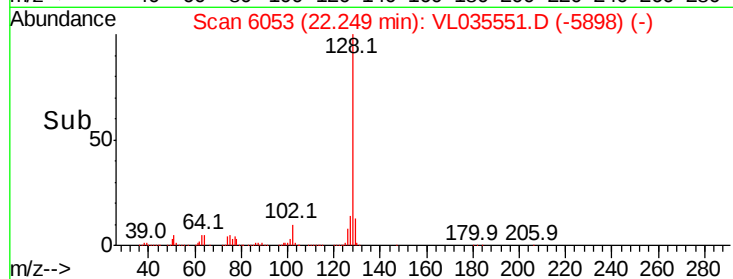
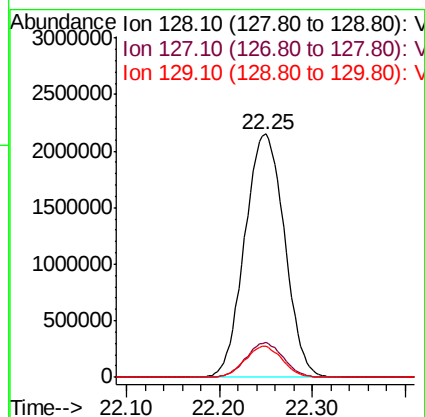
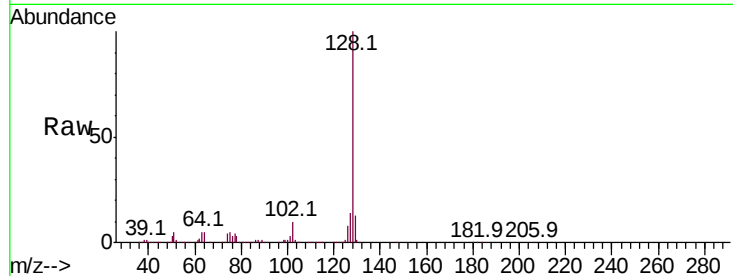
#79
Naphthalene
Concen: 11.225 ppbv
RT: 22.25 min Scan# 6053
Delta R.T. -0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.3	11.4	17.2
129	12.8	10.5	15.7

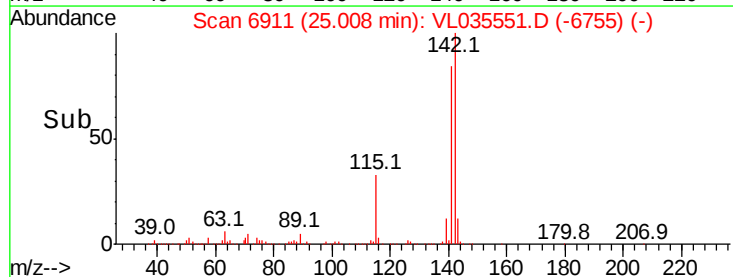
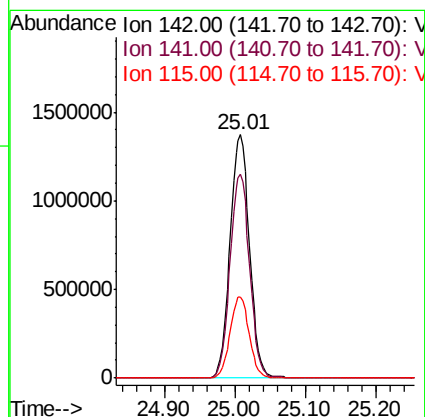
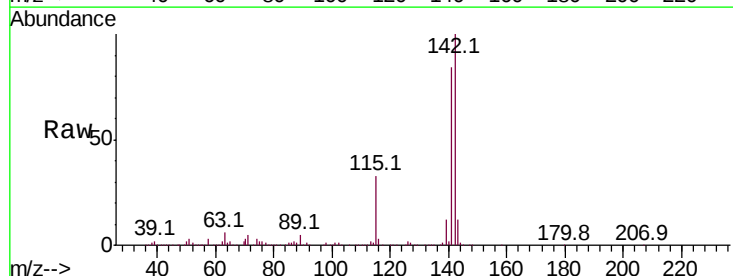
Manual Integrations
APPROVED

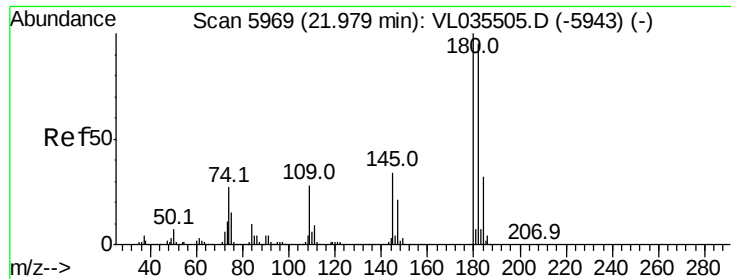
MMDadoda
9/8/2020 5:13:16 PM



#80
Naphthalene, 2-methyl-
Concen: 13.605 ppbv
RT: 25.01 min Scan# 6911
Delta R.T. 0.00 min
Lab File: VL035551.D
Acq: 4 Sep 2020 9:37

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.5	67.6	101.4
115	33.0	25.8	38.8





#81
 1,2,4-Trichlorobenzene
 Concen: 10.408 ppbv
 RT: 21.98 min Scan# 5969
 Delta R.T. -0.00 min
 Lab File: VL035551.D
 Acq: 4 Sep 2020 9:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.3	114.5
184	31.3	25.3	37.9

Manual Integrations
 APPROVED

MMDadoda
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