

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035262.D
 Acq On : 30 Jul 2020 1:31
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 7/30/2020 6:11:36 PM

Quant Time: Jul 30 05:07:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 29 2020
 QLast Update : Wed Jul 29 07:14:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1312358	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3158743	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	3157226	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	2459082	9.75	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1515828	9.671	ppbv	99
3) Chlorodifluoromethane	2.94	51	1311014	9.025	ppbv	100
4) Chloromethane	3.10	50	753361	9.215	ppbv	97
5) Vinyl Chloride	3.22	62	765750	8.993	ppbv	99
6) Bromomethane	3.44	94	479644	9.119	ppbv	100
7) Chloroethane	3.52	64	285719	9.296	ppbv	97
8) Dichlorotetrafluoroethane	3.15	85	1805704	9.080	ppbv	99
9) Propene	2.97	41	496115	9.797	ppbv	99
10) Heptane	8.14	43	1492478	10.888	ppbv	100
11) Trichlorofluoromethane	3.92	101	1929617	9.153	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1340610	8.966	ppbv	100
13) Ethanol	3.57	45	125550	6.092	ppbv	92
14) Bromoethene	3.71	108	582070	9.539	ppbv	98
15) Acetone	3.82	43	1449811	8.282	ppbv	99
16) 1,3-Butadiene	3.29	39	683280	10.006	ppbv	97
17) tert-Butyl alcohol	4.27	59	1586545	9.391	ppbv	99
18) 1,1-Dichloroethene	4.27	96	619981	9.339	ppbv	94
19) Isopropyl Alcohol	3.94	45	1027227	8.898	ppbv	99
20) Methylene Chloride	4.32	84	577294	7.245	ppbv	99
21) Allyl Chloride	4.39	41	970040	9.730	ppbv	100
22) trans-1,2-Dichloroethene	4.87	96	606466	9.507	ppbv	96
23) Vinyl Acetate	5.06	43	1794535	10.202	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1545622	9.422	ppbv	100
25) Ethyl Acetate	5.67	43	2651696	9.700	ppbv	99
26) Hexane	5.68	57	1179076	9.561	ppbv	98
27) Carbon Disulfide	4.53	76	1610092	9.664	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1810834	10.272	ppbv	99
29) Chloroform	5.75	83	1901002	9.191	ppbv	98
30) Cyclohexane	7.14	84	992489	11.259	ppbv	98
31) cis-1,2-Dichloroethene	5.54	61	1127872	10.492	ppbv	99
32) 1,1,1-Trichloroethane	6.51	97	1886123	8.909	ppbv	99
34) 2-Butanone	5.23	43	1562654	9.723	ppbv	99
35) Carbon Tetrachloride	7.03	117	1987789	9.399	ppbv	98
36) Benzene	6.90	78	2297204	10.464	ppbv	99
37) 1,2-Dichloroethane	6.31	62	1490800	9.715	ppbv	100
38) Trichloroethene	7.85	130	977876	10.748	ppbv	98
39) 1,2-Dichloropropane	7.63	63	909795	10.387	ppbv	98
40) 1,4-Dioxane	7.84	88	381490	11.061	ppbv #	1
41) Tetrahydrofuran	6.04	42	846005	10.740	ppbv	99
42) Bromodichloromethane	7.81	83	2051868	10.018	ppbv	97
43) Methyl Methacrylate	8.03	69	1077331	11.327	ppbv	98

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 VSTDCCC010EC

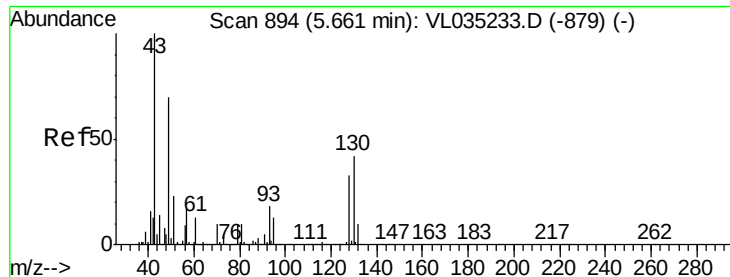
Manual Integrations
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 7/30/2020 6:11:36 PM

Quant Time: Jul 30 05:07:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 29 2020
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	4089945	10.574	ppbv	100
45) t-1,3-Dichloropropene	9.30	75	1169484	12.203	ppbv	98
46) cis-1,3-Dichloropropene	8.73	75	1377836	11.801	ppbv	99
47) 1,1,2-Trichloroethane	9.50	97	1025757	9.914	ppbv	97
48) Dibromochloromethane	10.34	129	1729820	10.616	ppbv	100
49) Bromoform	13.09	173	1580965	10.792	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	2501975	10.742	ppbv	100
51) 2-Hexanone	10.16	43	2024030	11.459	ppbv	98
52) Tetrachloroethene	11.26	164	880574	10.513	ppbv	96
53) Toluene	9.83	91	2729637	11.700	ppbv	100
54) 1,2-Dibromoethane	10.65	107	1545995	10.334	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.16	131	1362923	9.389	ppbv	99
57) Chlorobenzene	12.18	112	2241974	9.438	ppbv	96
58) Ethyl Benzene	12.75	91	3783389	11.315	ppbv	98
59) m/p-Xylene	13.04	91	6418971m	20.620	ppbv	
60) o-Xylene	13.74	91	3279920m	10.560	ppbv	
61) Styrene	13.57	104	2272736	12.055	ppbv	100
62) Isopropylbenzene	14.71	105	4798773	10.381	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.72	83	2400212	8.981	ppbv	99
64) n-propylbenzene	15.61	120	1309686	10.655	ppbv	98
65) tert-Butylbenzene	16.80	119	4302682	10.274	ppbv	99
66) Benzyl Chloride	17.04	91	1671710	10.191	ppbv	99
67) sec-Butylbenzene	17.34	105	6143077	10.039	ppbv	100
69) p-Isopropyltoluene	17.70	119	5135327	10.288	ppbv	100
70) n-Butylbenzene	18.60	91	5387384	9.976	ppbv	99
71) 2-Chlorotoluene	15.50	91	3713873	10.654	ppbv	100
72) 4-Ethyltoluene	15.89	105	3910106	11.185	ppbv	100
73) 1,3,5-Trimethylbenzene	16.04	105	3631691	10.653	ppbv	99
74) 1,2,4-Trimethylbenzene	16.81	105	3868384	9.747	ppbv	98
75) 1,3-Dichlorobenzene	17.05	146	2259888	8.819	ppbv	99
76) 1,4-Dichlorobenzene	17.19	146	2249129	9.703	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	2172928	9.467	ppbv	100
78) Hexachloro-1,3-Butadiene	23.43	225	1437676	7.652	ppbv	99
79) Naphthalene	22.27	128	3062366	9.704	ppbv	99
80) Naphthalene, 2-methyl-	25.02	142	865299	8.472	ppbv	98
81) 1,2,4-Trichlorobenzene	22.00	180	1755262	9.137	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1312358

Ion Ratio Lower Upper

49 100

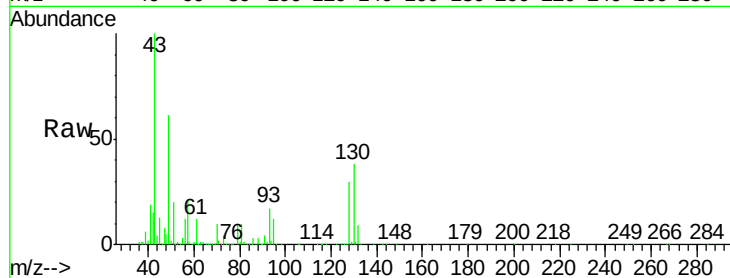
128 48.2 24.0 72.0

130 61.9 30.7 92.1

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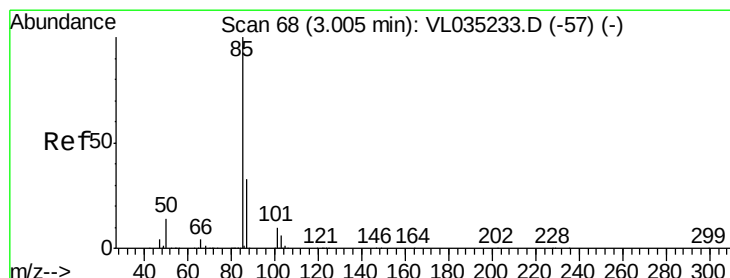
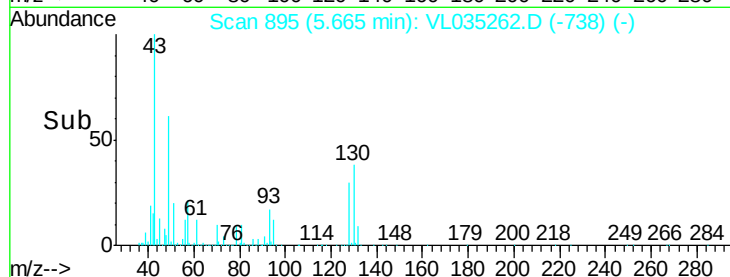
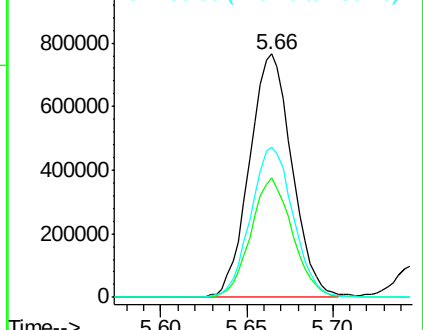
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 9.671 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL035262.D

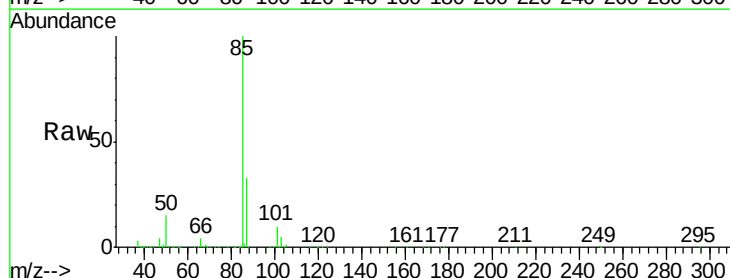
Acq: 30 Jul 2020 1:31

Tgt Ion: 85 Resp: 1515828

Ion Ratio Lower Upper

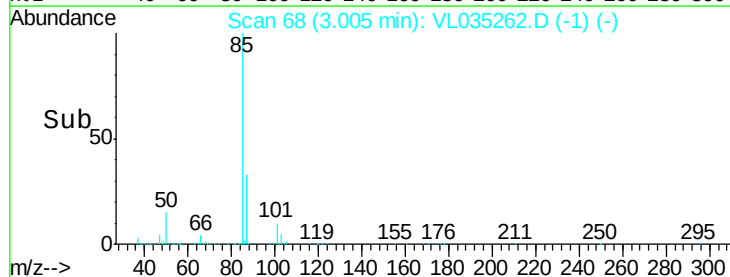
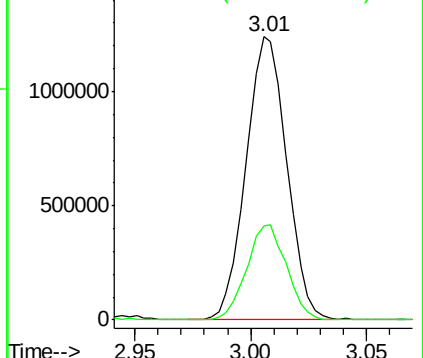
85 100

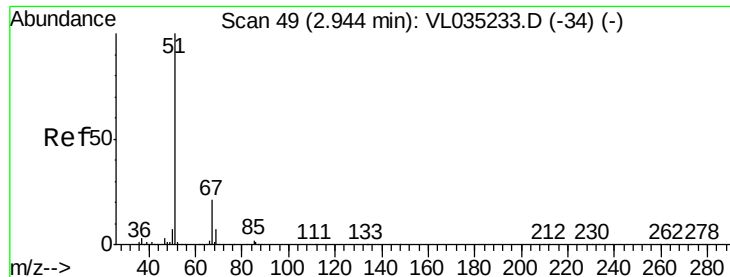
87 33.0 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.025 ppbv

RT: 2.94 min Scan# 49

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1311014

Ion Ratio Lower Upper

51 100

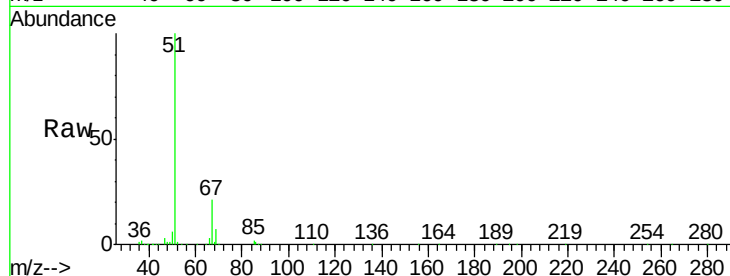
67 20.9 16.6 25.0

Manual Integrations

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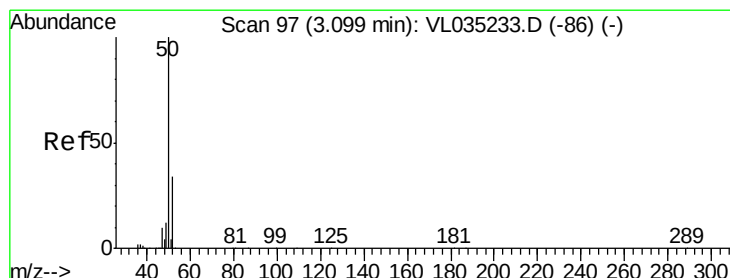
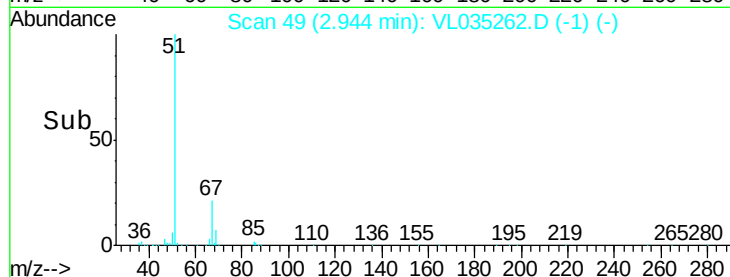
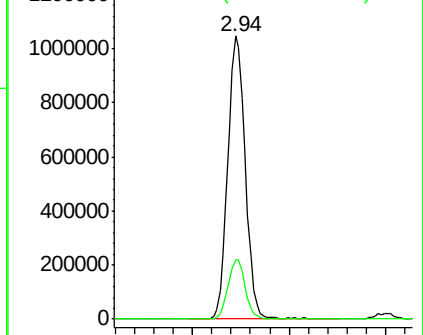
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.215 ppbv

RT: 3.10 min Scan# 97

Delta R.T. 0.00 min

Lab File: VL035262.D

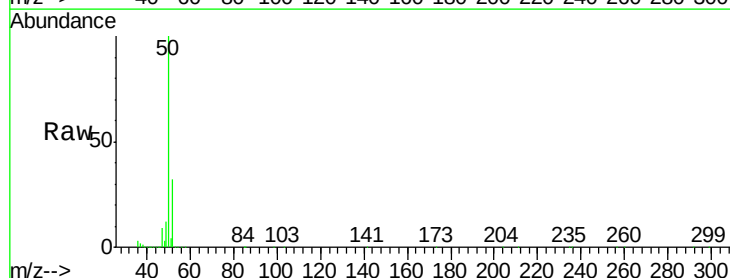
Acq: 30 Jul 2020 1:31

Tgt Ion: 50 Resp: 753361

Ion Ratio Lower Upper

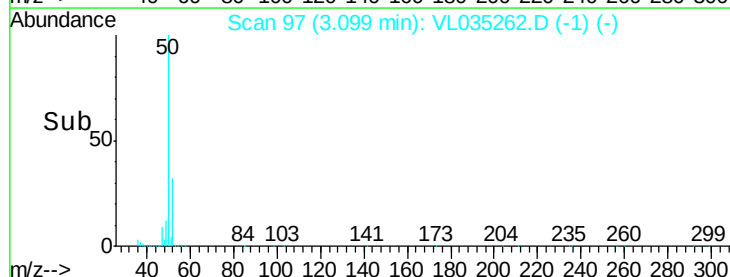
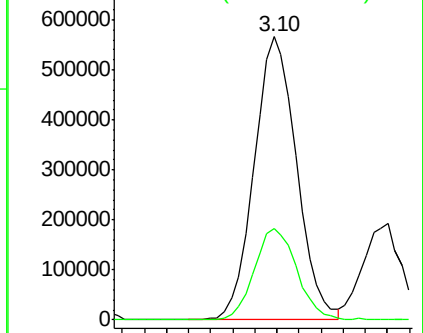
50 100

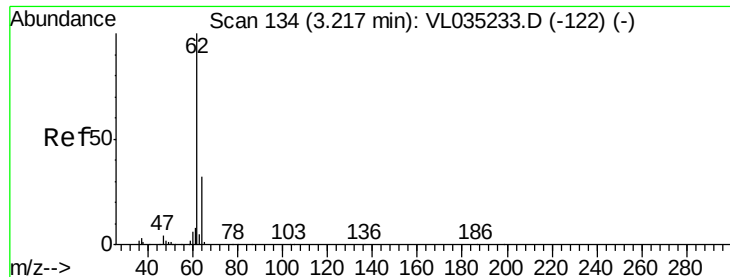
52 32.2 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.993 ppbv

RT: 3.22 min Scan# 134

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 765750

Ion Ratio Lower Upper

62 100

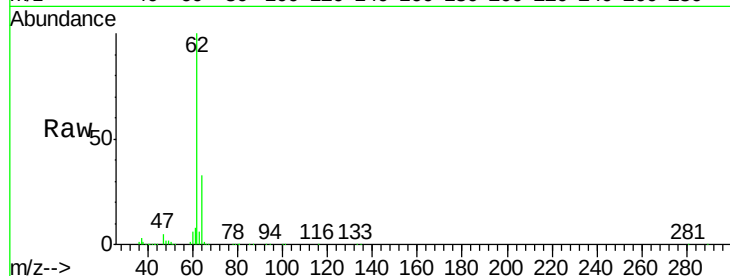
64 32.8 25.8 38.6

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.22

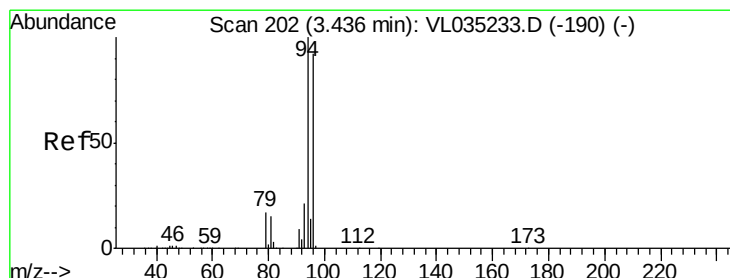
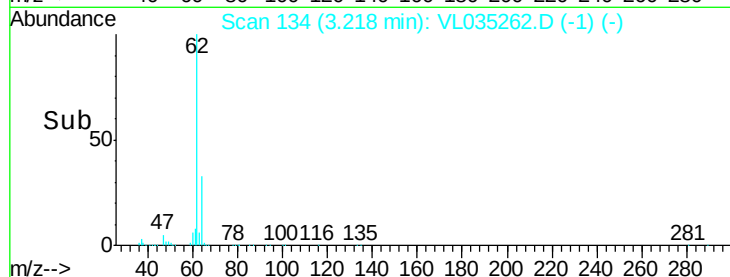
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 9.119 ppbv

RT: 3.44 min Scan# 202

Delta R.T. 0.00 min

Lab File: VL035262.D

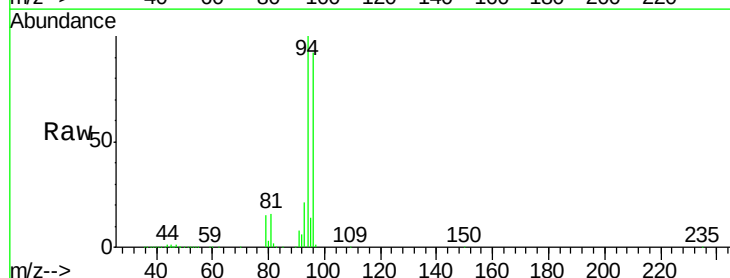
Acq: 30 Jul 2020 1:31

Tgt Ion: 94 Resp: 479644

Ion Ratio Lower Upper

94 100

96 91.3 73.2 109.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.44

400000

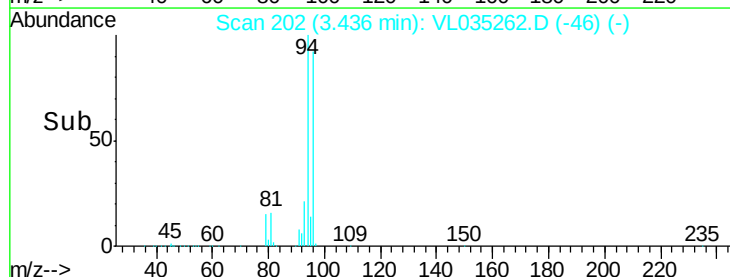
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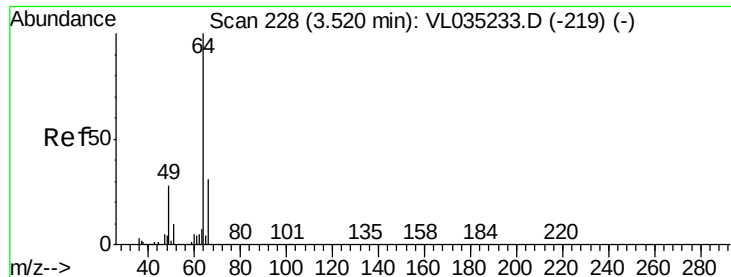
200000

100000

0

Time-->





#7

Chloroethane

Concen: 9.296 ppbv

RT: 3.52 min Scan# 229

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 285719

Ion Ratio Lower Upper

64 100

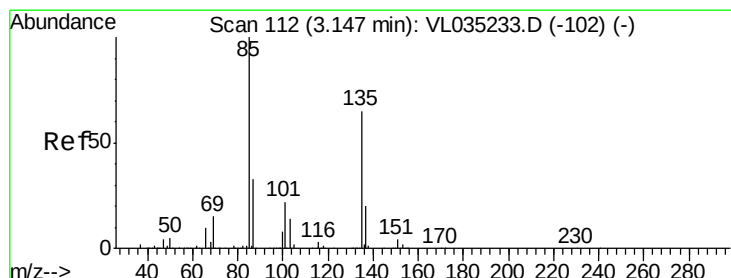
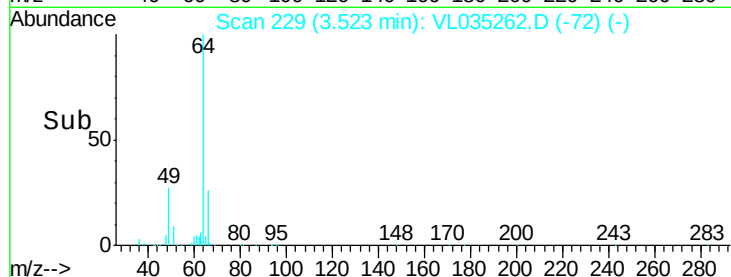
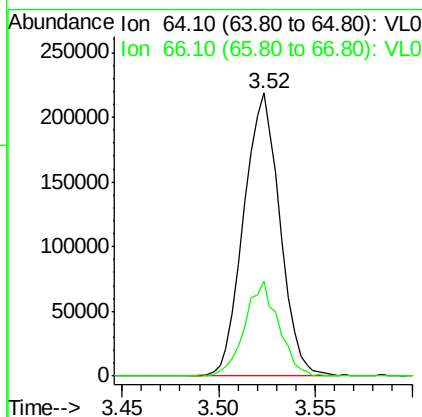
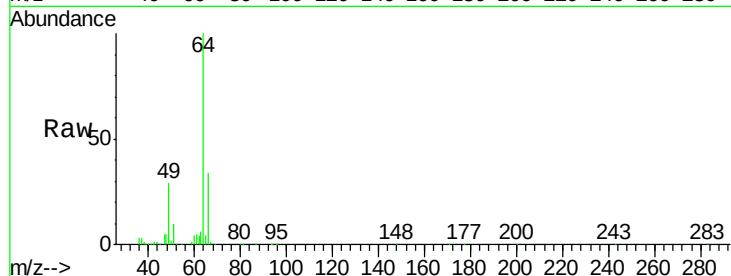
66 33.8 25.6 38.4

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.080 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL035262.D

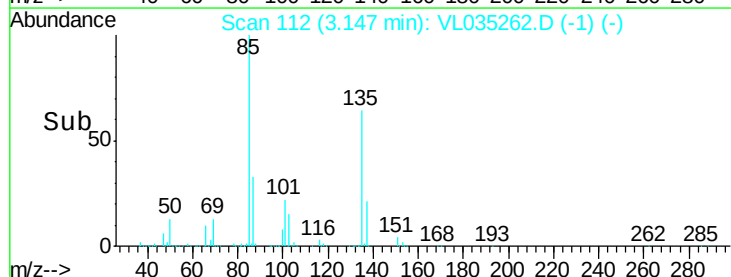
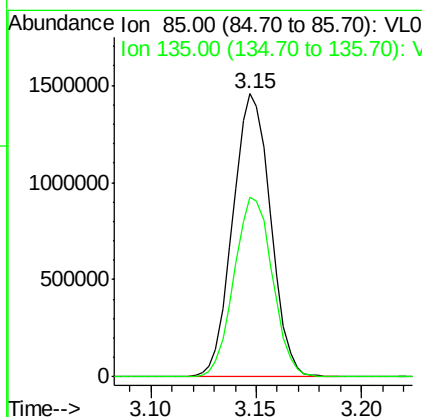
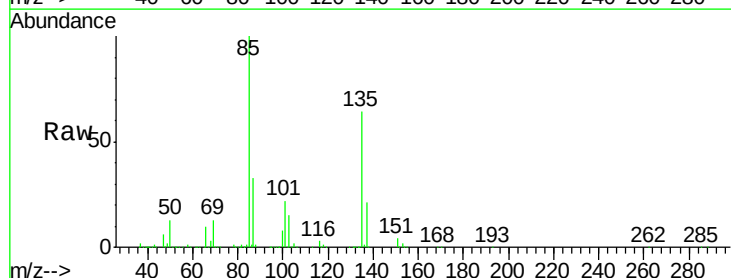
Acq: 30 Jul 2020 1:31

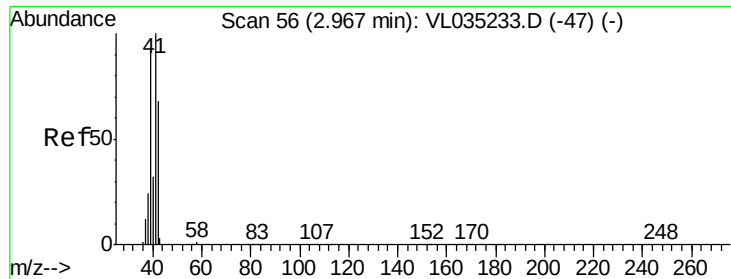
Tgt Ion: 85 Resp: 1805704

Ion Ratio Lower Upper

85 100

135 65.0 51.4 77.0





#9

Propene

Concen: 9.797 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 496115

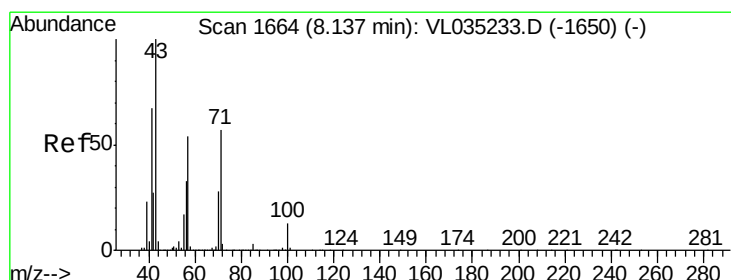
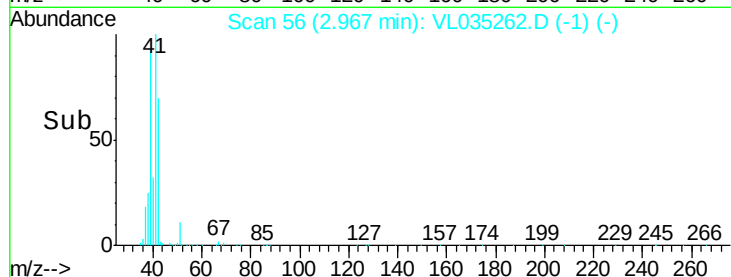
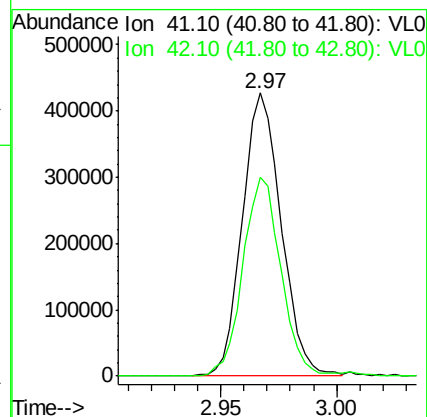
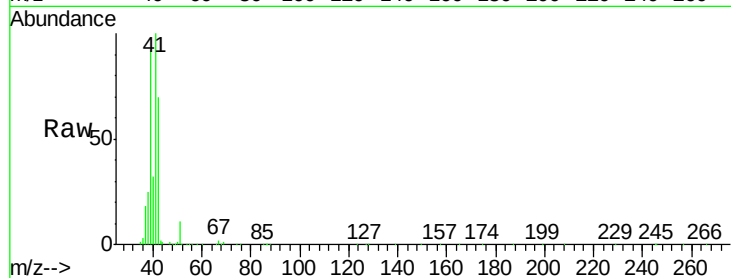
Ion Ratio Lower Upper

41 100

42 69.8 55.0 82.6

Manual Integrations
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#10

Heptane

Concen: 10.888 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. 0.00 min

Lab File: VL035262.D

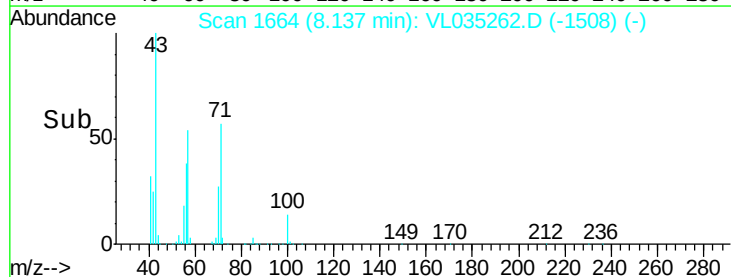
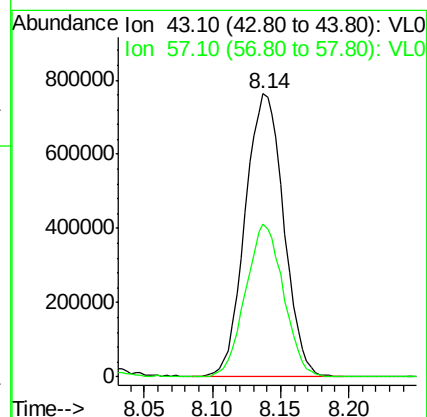
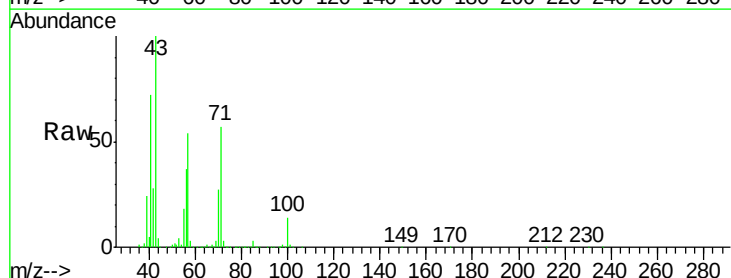
Acq: 30 Jul 2020 1:31

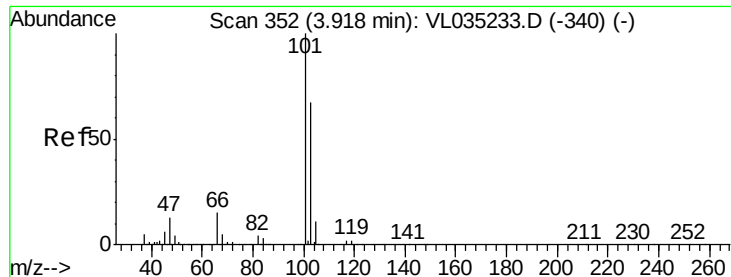
Tgt Ion: 43 Resp: 1492478

Ion Ratio Lower Upper

43 100

57 53.4 43.0 64.4





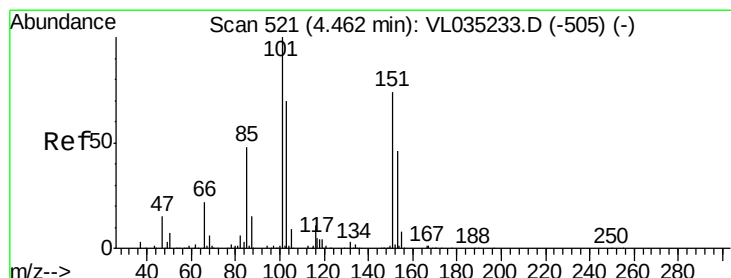
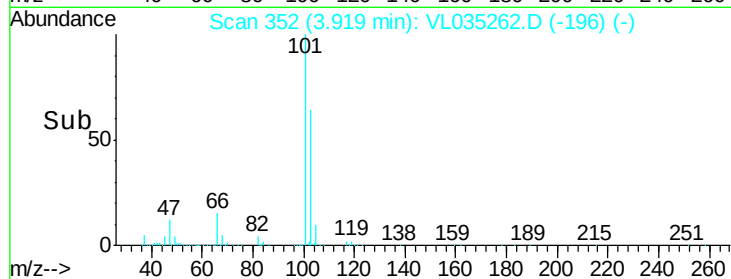
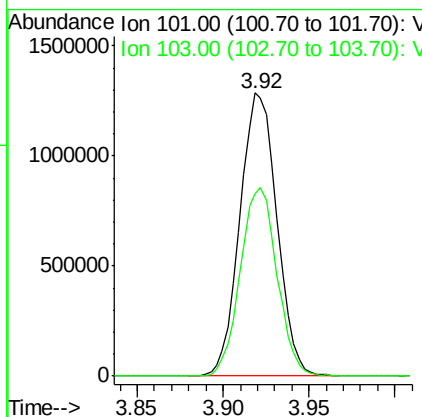
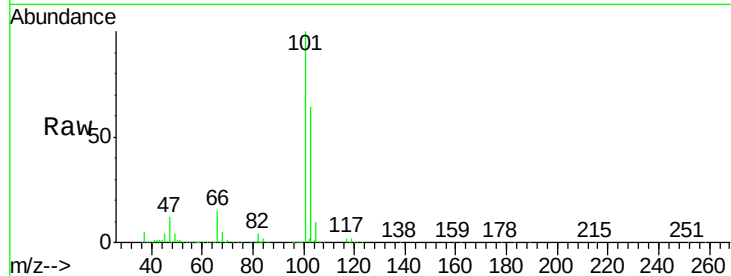
#11
 Trichlorofluoromethane
 Concen: 9.153 ppbv
 RT: 3.92 min Scan# 352
 Delta R.T. 0.00 min
 Lab File: VL035262.D
 Acq: 30 Jul 2020 1:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1929617
 Ion Ratio Lower Upper
 101 100
 103 64.4 53.4 80.0

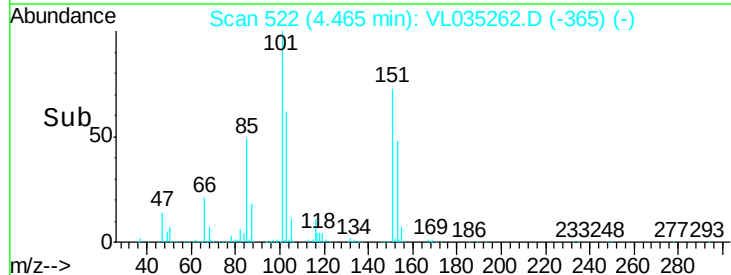
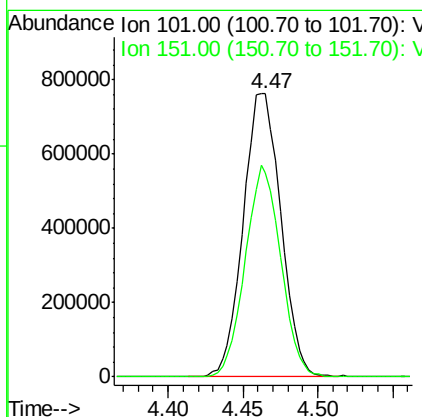
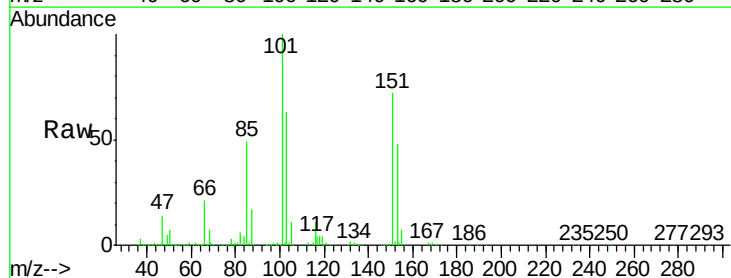
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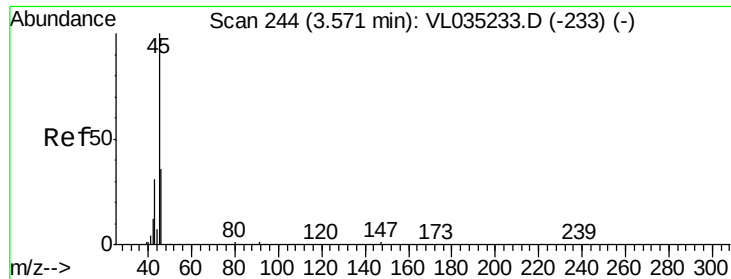
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.966 ppbv
 RT: 4.47 min Scan# 522
 Delta R.T. 0.00 min
 Lab File: VL035262.D
 Acq: 30 Jul 2020 1:31

Tgt Ion:101 Resp: 1340610
 Ion Ratio Lower Upper
 101 100
 151 70.6 56.6 85.0





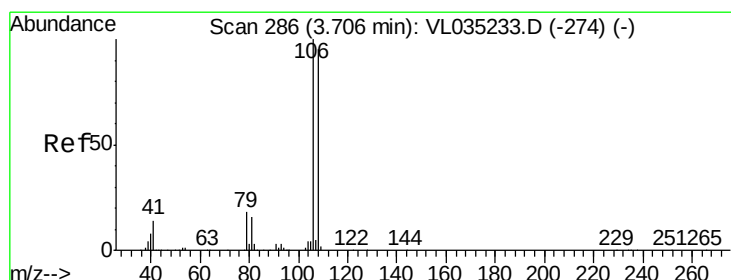
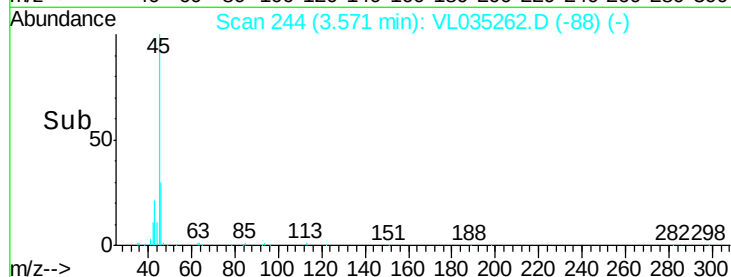
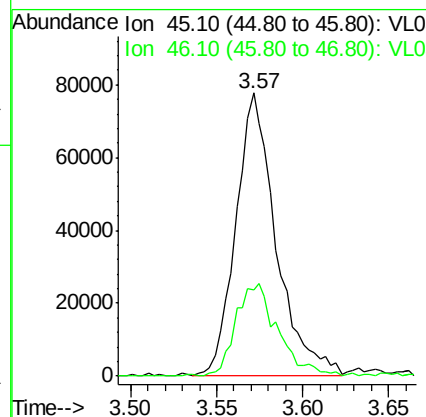
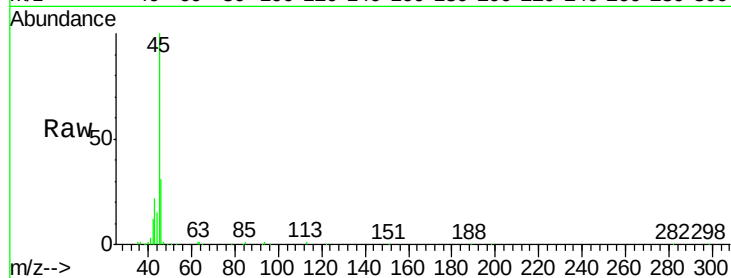
#13
Ethanol
Concen: 6.092 ppbv
RT: 3.57 min Scan# 244
Delta R.T. 0.00 min
Lab File: VL035262.D
Acq: 30 Jul 2020 1:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
46	34.8	15.8	63.4

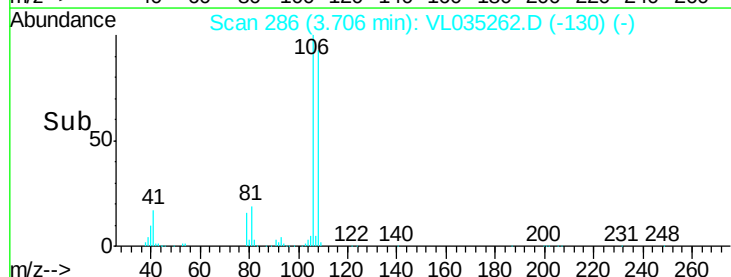
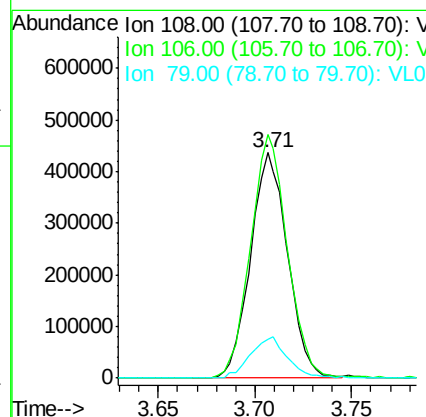
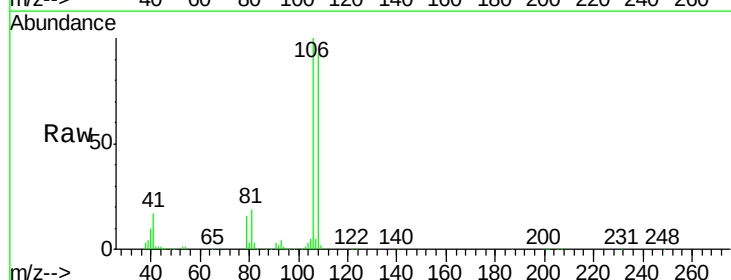
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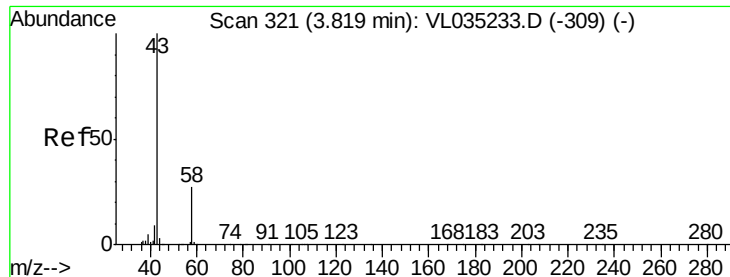
MMDadoda
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#14
Bromoethene
Concen: 9.539 ppbv
RT: 3.71 min Scan# 286
Delta R.T. 0.00 min
Lab File: VL035262.D
Acq: 30 Jul 2020 1:31

Tgt Ion	Ratio	Lower	Upper
108	100		
106	108.1	85.0	127.6
79	18.6	15.4	23.2





#15

Acetone

Concen: 8.282 ppbv

RT: 3.82 min Scan# 321

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Tot Ion: 43 Resp: 1449811

Ion Ratio Lower Upper

43 100

58 26.6 21.8 32.6

Instrument :

MSVOA_L

ClientSampleId :

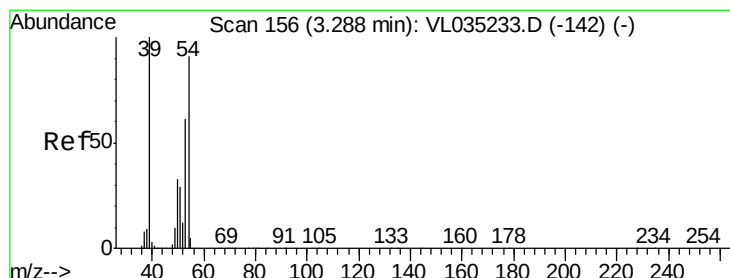
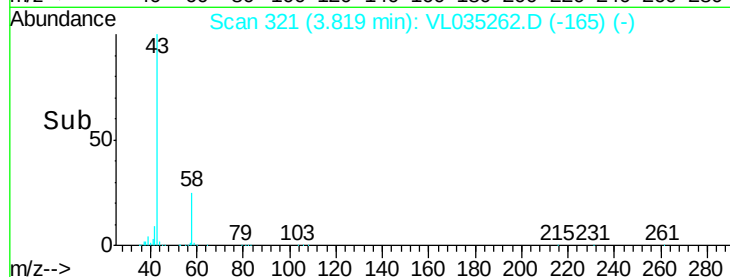
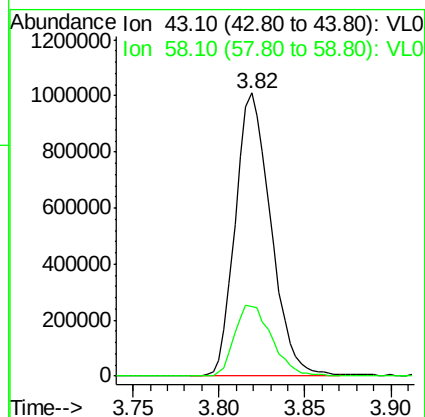
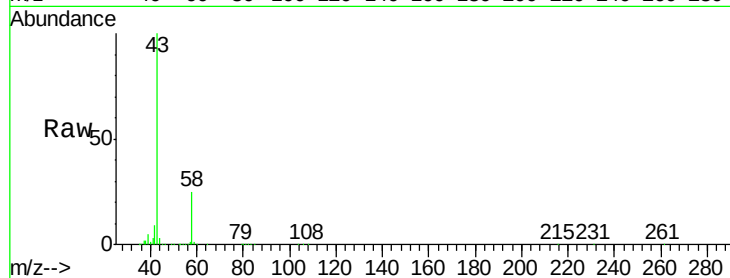
VSTDCCC010EC

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#16

1,3-Butadiene

Concen: 10.006 ppbv

RT: 3.29 min Scan# 156

Delta R.T. 0.00 min

Lab File: VL035262.D

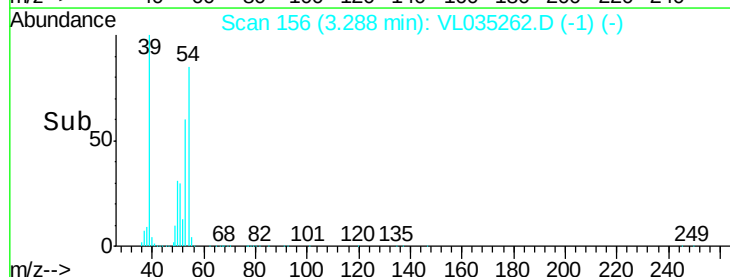
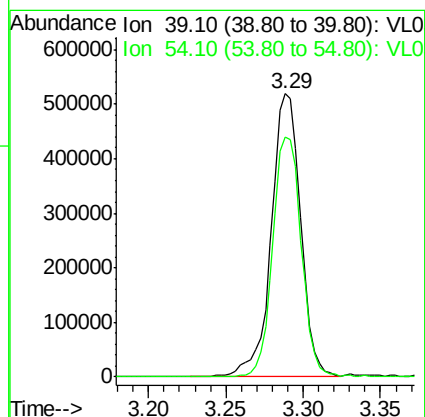
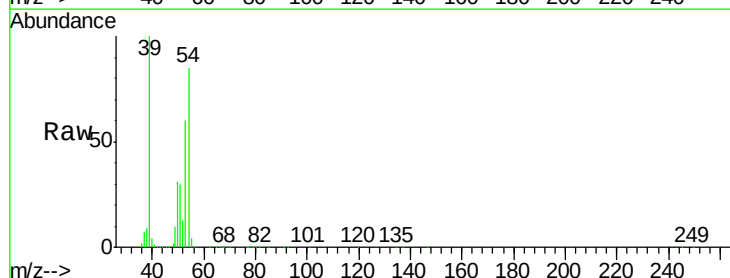
Acq: 30 Jul 2020 1:31

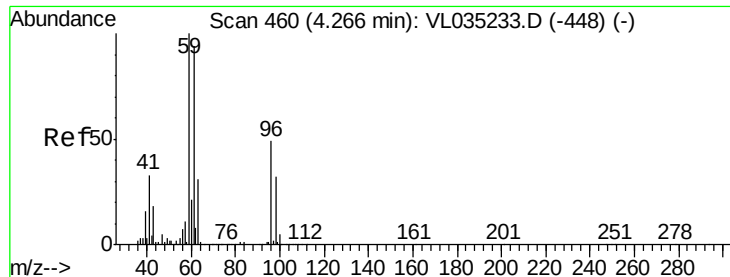
Tgt Ion: 39 Resp: 683280

Ion Ratio Lower Upper

39 100

54 82.6 68.2 102.2





#17

tert-Butyl alcohol

Concen: 9.391 ppbv

RT: 4.27 min Scan# 460

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 59 Resp: 1586545

Ion Ratio Lower Upper

59 100

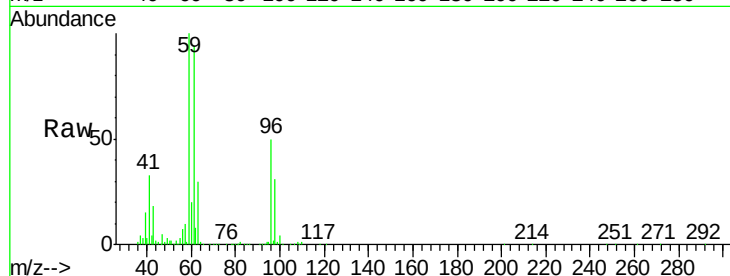
57 11.2 8.6 12.8

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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

1000000

800000

600000

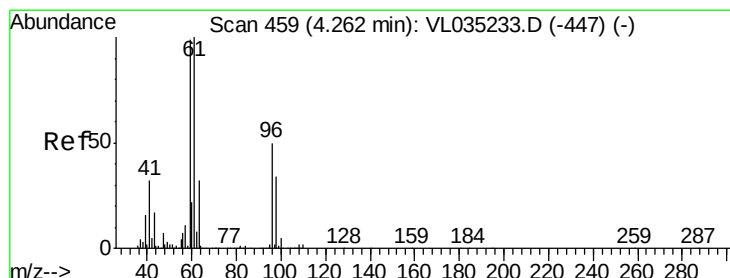
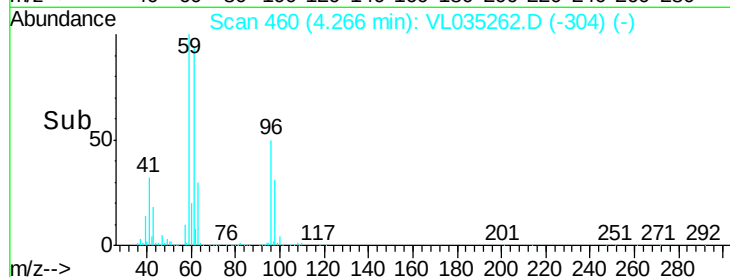
400000

200000

0

4.20 4.25 4.30 4.35

Time-->



#18

1,1-Dichloroethene

Concen: 9.339 ppbv

RT: 4.27 min Scan# 460

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

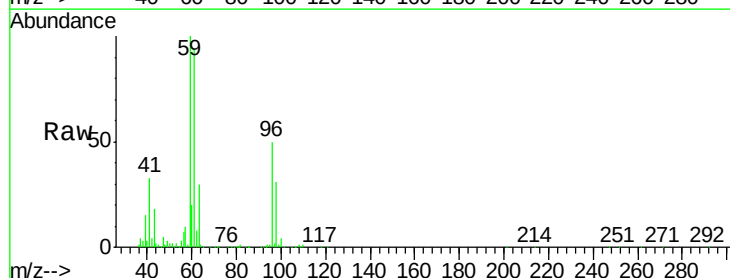
Tgt Ion: 96 Resp: 619981

Ion Ratio Lower Upper

96 100

61 189.6 159.4 239.2

98 62.2 53.9 80.9



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

1000000

800000

600000

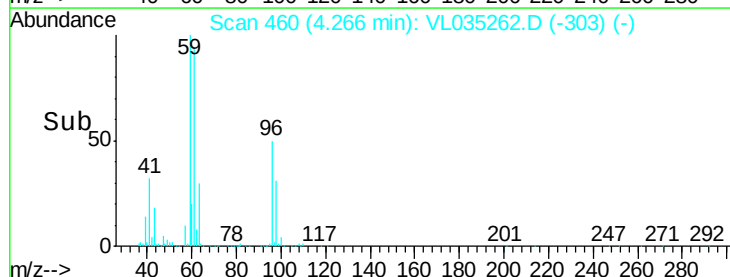
400000

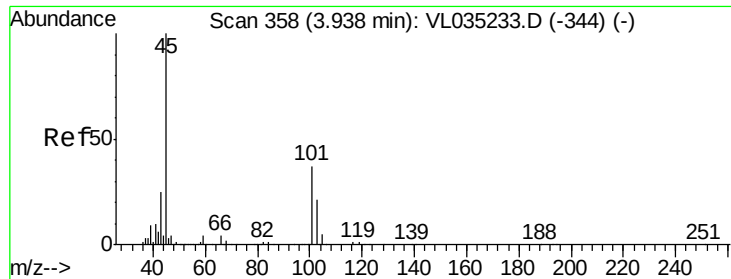
200000

0

4.20 4.25 4.30

Time-->





#19

Isopropyl Alcohol

Concen: 8.898 ppbv

RT: 3.94 min Scan# 358

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 1027227

Ion Ratio Lower Upper

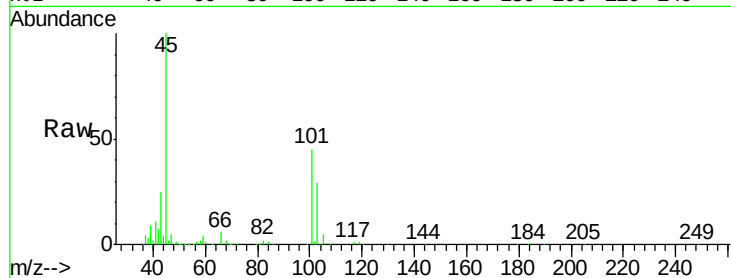
45 100

58 2.7 1.9 2.9

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

600000

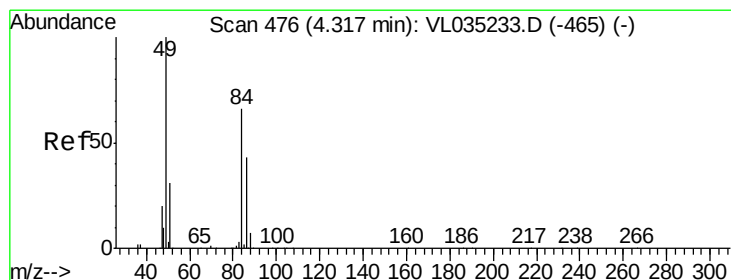
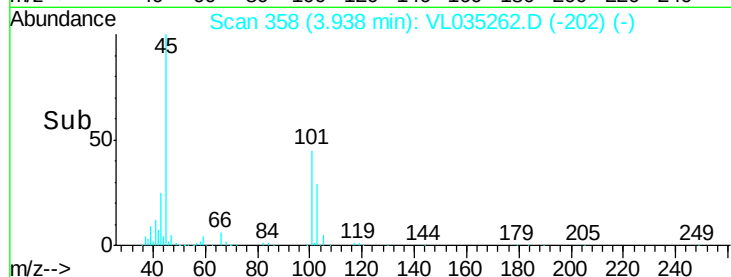
400000

200000

0

3.90 3.95 4.00

Time-->



#20

Methylene Chloride

Concen: 7.245 ppbv

RT: 4.32 min Scan# 477

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Tgt Ion: 84 Resp: 577294

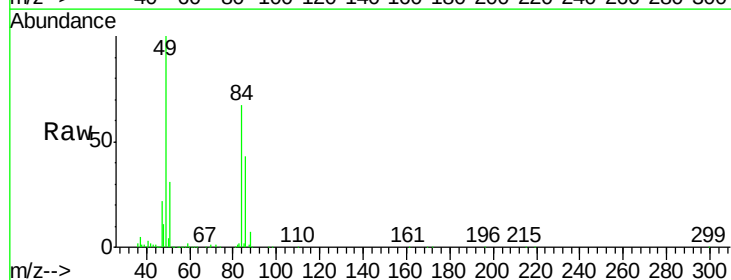
Ion Ratio Lower Upper

84 100

49 150.0 121.0 181.4

51 45.8 37.7 56.5

86 64.2 52.2 78.4



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

800000

600000

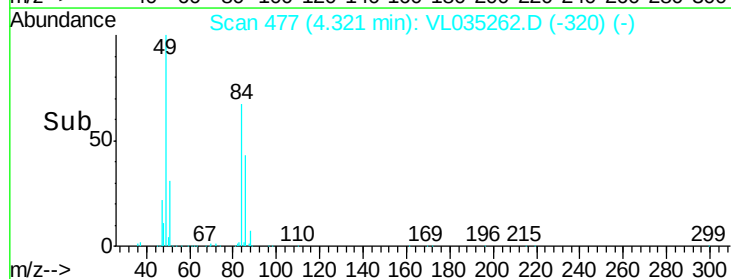
400000

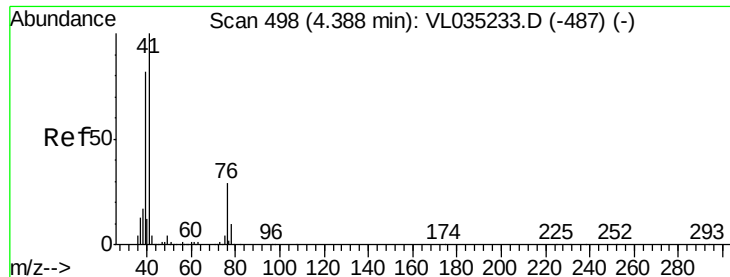
200000

0

4.30 4.35

Time-->





#21

Allvl Chloride

Concen: 9.730 ppbv

RT: 4.39 min Scan# 499

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

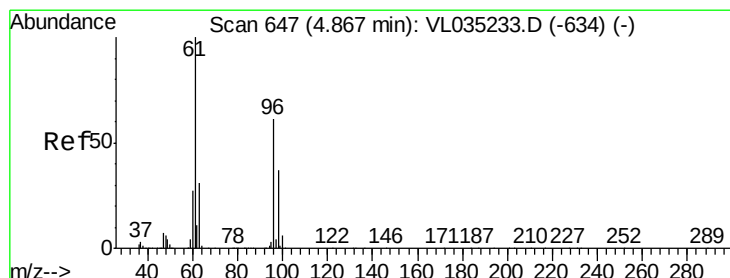
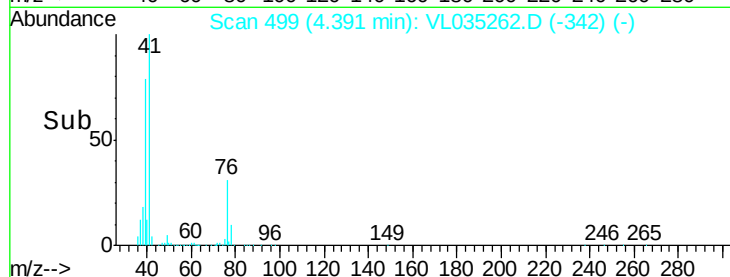
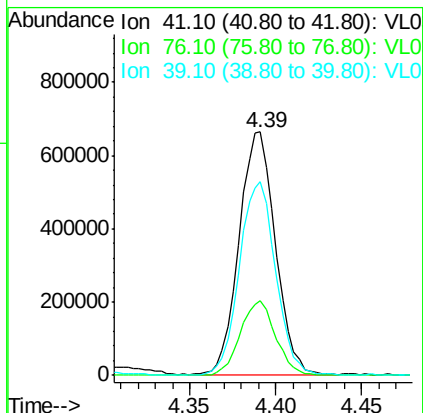
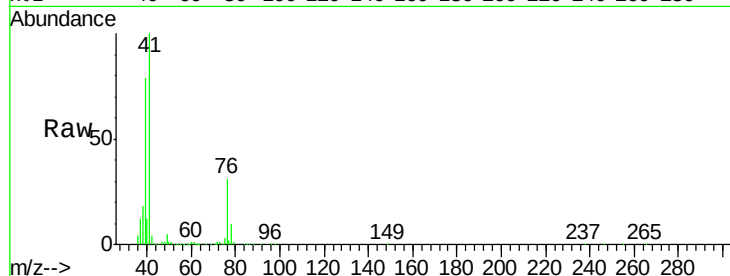
ClientSampleId :

VSTDCCC010EC

Tot Ion:	41	Resp:	970040
Ion Ratio	Lower	Upper	
41	100		
76	30.0	24.4	36.6
39	80.0	63.8	95.8

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#22

trans-1,2-Dichloroethene

Concen: 9.507 ppbv

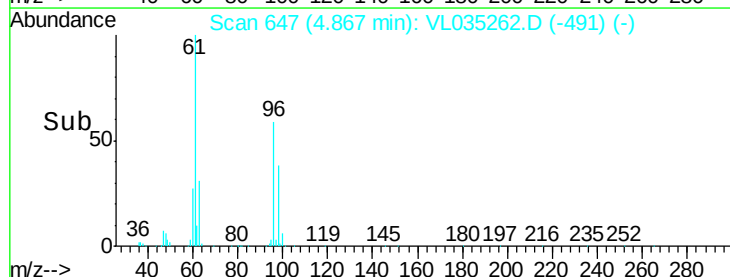
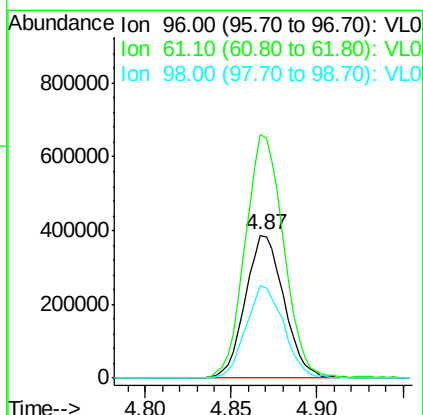
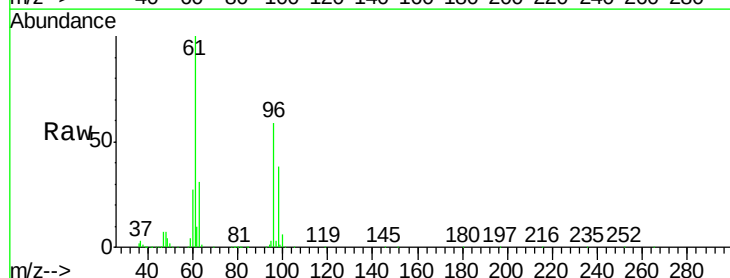
RT: 4.87 min Scan# 647

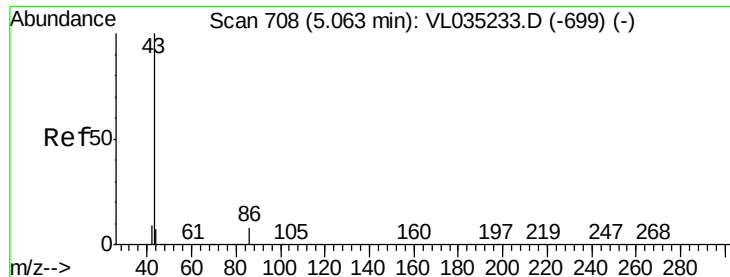
Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Tgt Ion:	96	Resp:	606466
Ion Ratio	Lower	Upper	
96	100		
61	170.3	131.6	197.4
98	64.4	49.0	73.4





#23

Vinyl Acetate

Concen: 10.202 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Tot Ion: 43 Resp: 1794535

Ion Ratio Lower Upper

43 100

86 7.2 6.2 9.2

42 10.4 8.0 12.0

44 6.3 5.2 7.8

Instrument :

MSVOA_L

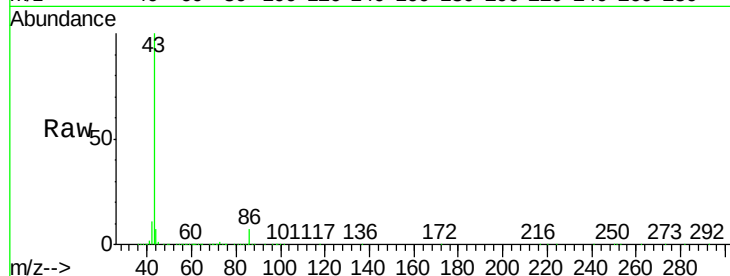
ClientSampleId :

VSTDCCC010EC

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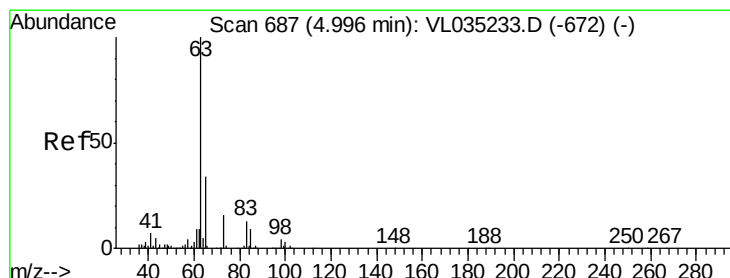
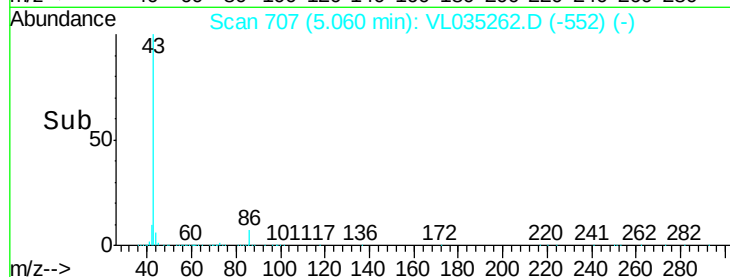
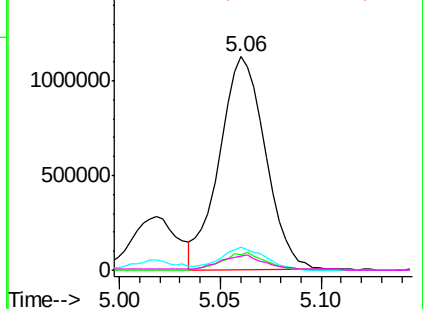


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.422 ppbv

RT: 5.00 min Scan# 688

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

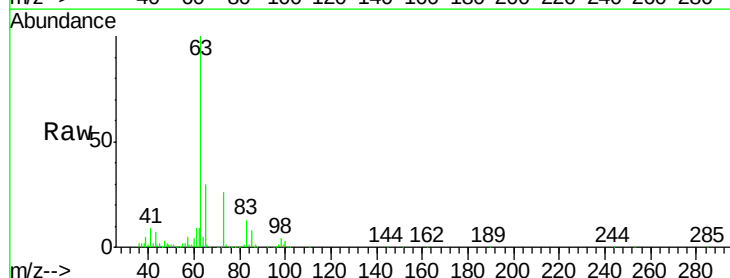
Tgt Ion: 63 Resp: 1545622

Ion Ratio Lower Upper

63 100

98 3.9 1.9 5.7

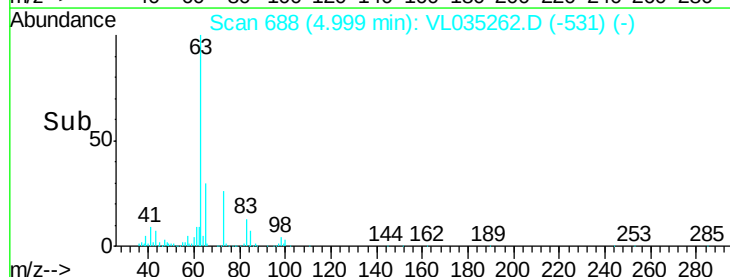
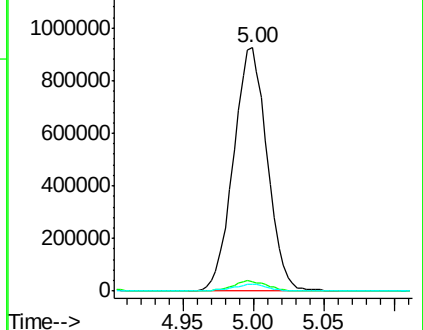
100 2.7 1.4 4.2

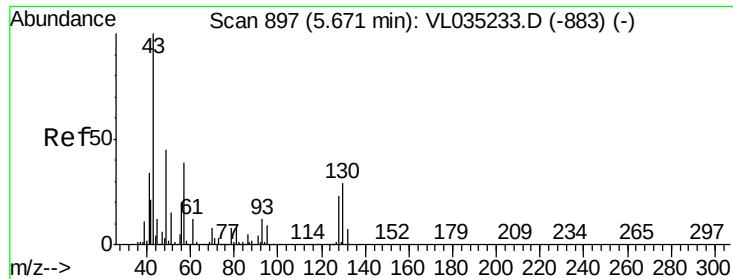


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





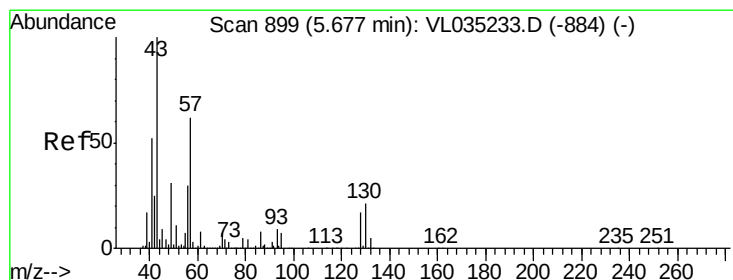
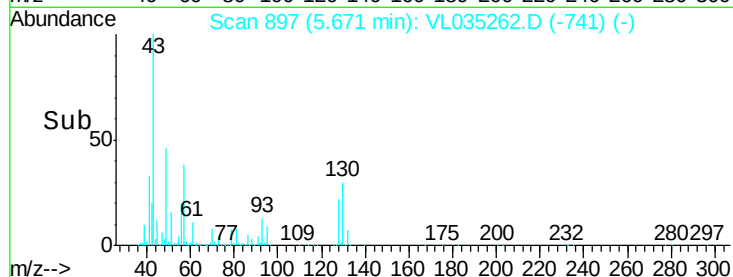
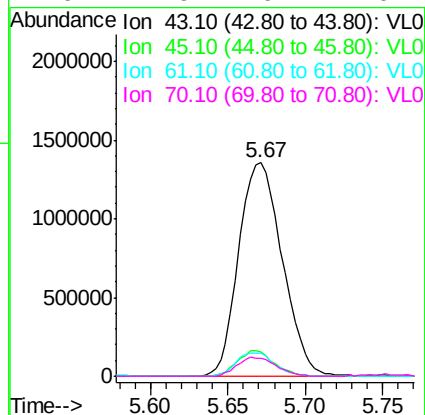
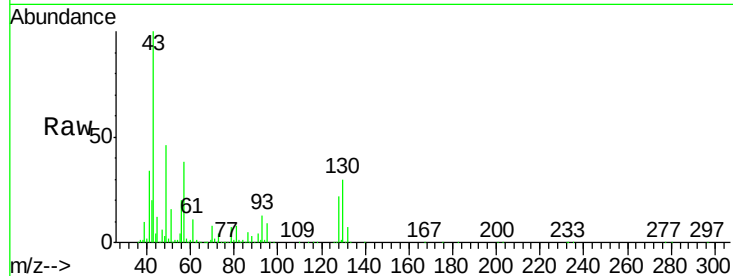
#25
Ethyl Acetate
Concen: 9.700 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL035262.D
Acq: 30 Jul 2020 1:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	43	Resp	2651696
Ion	Ratio	Lower	Upper
43	100		
45	10.3	8.5	12.7
61	9.9	8.1	12.1
70	7.9	6.2	9.4

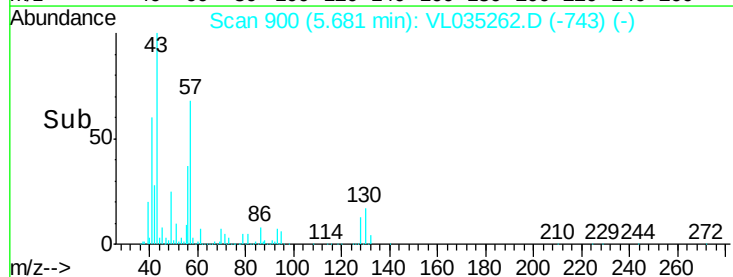
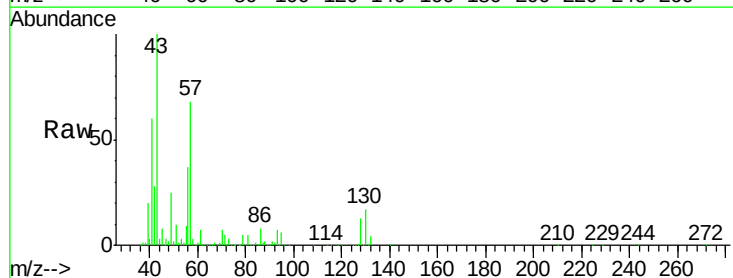
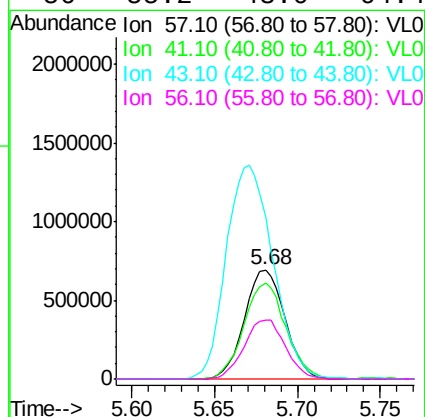
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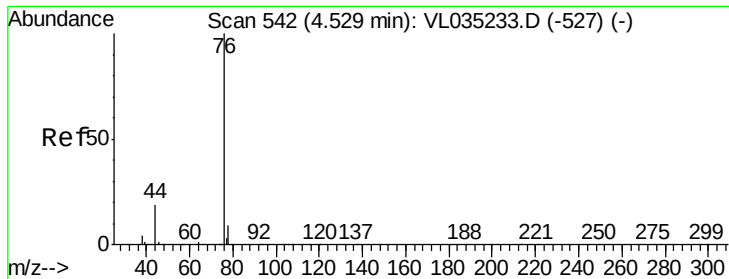
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#26
Hexane
Concen: 9.561 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL035262.D
Acq: 30 Jul 2020 1:31

Tgt Ion	57	Resp	1179076
Ion	Ratio	Lower	Upper
57	100		
41	91.7	73.9	110.9
43	226.4	177.6	266.4
56	55.2	43.0	64.4





#27

Carbon Disulfide

Concen: 9.664 ppbv

RT: 4.53 min Scan# 542

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1610092

Ion Ratio Lower Upper

76 100

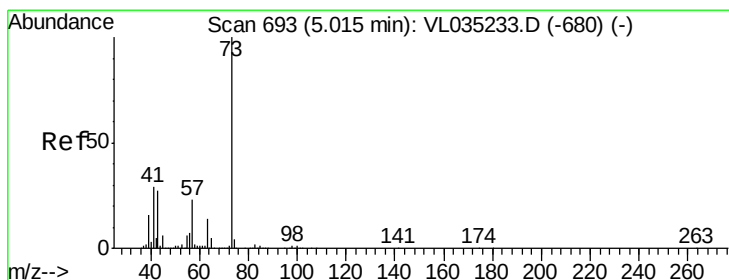
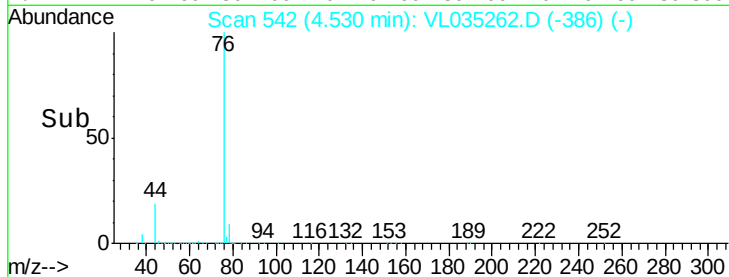
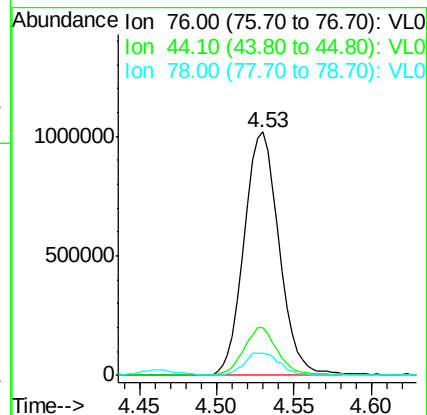
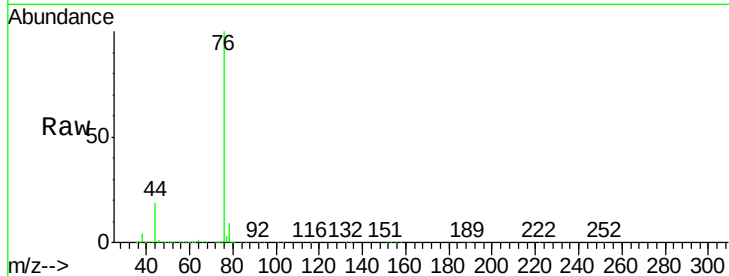
44 18.8 14.7 22.1

78 9.3 7.6 11.4

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#28

Methyl tert-Butyl Ether

Concen: 10.272 ppbv

RT: 5.02 min Scan# 694

Delta R.T. 0.00 min

Lab File: VL035262.D

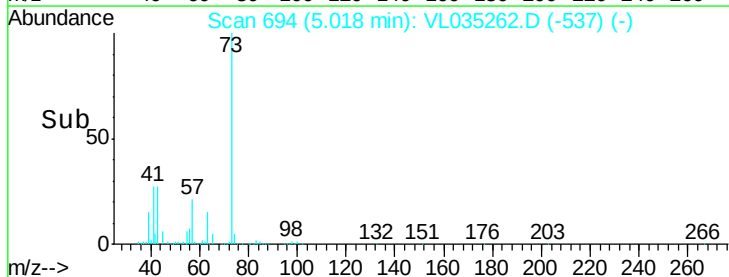
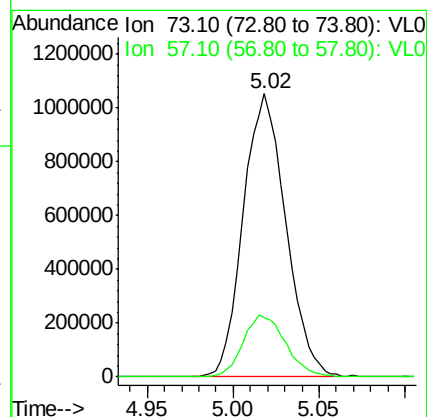
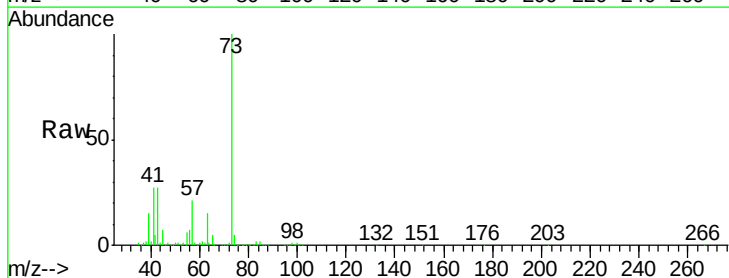
Acq: 30 Jul 2020 1:31

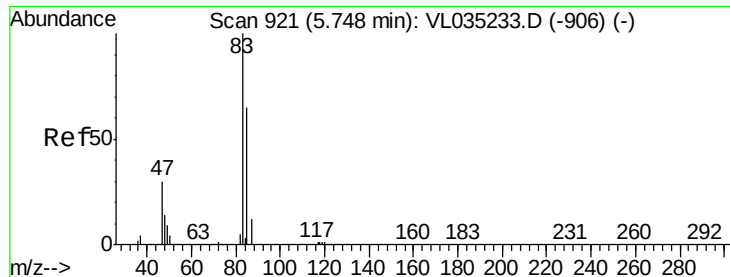
Tgt Ion: 73 Resp: 1810834

Ion Ratio Lower Upper

73 100

57 22.1 18.2 27.4





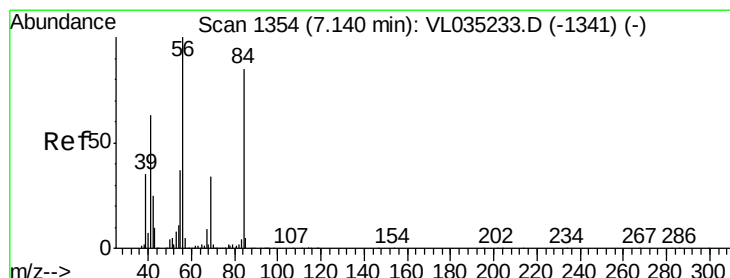
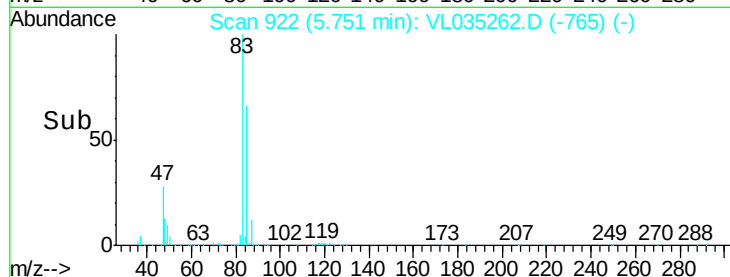
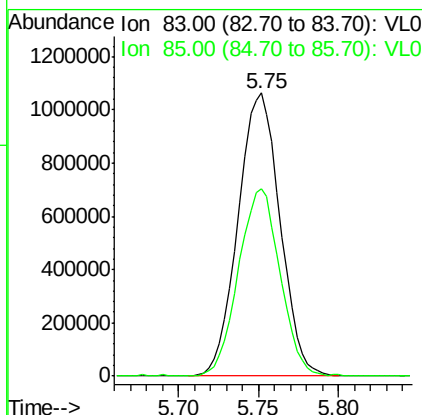
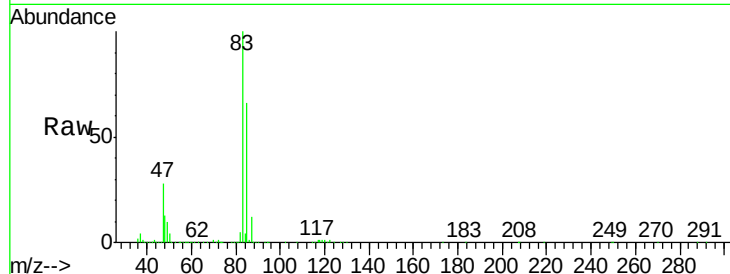
#29
Chloroform
Concen: 9.191 ppbv
RT: 5.75 min Scan# 922
Delta R.T. 0.00 min
Lab File: VL035262.D
Acq: 30 Jul 2020 1:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1901002
Ion Ratio Lower Upper
83 100
85 65.9 51.7 77.5

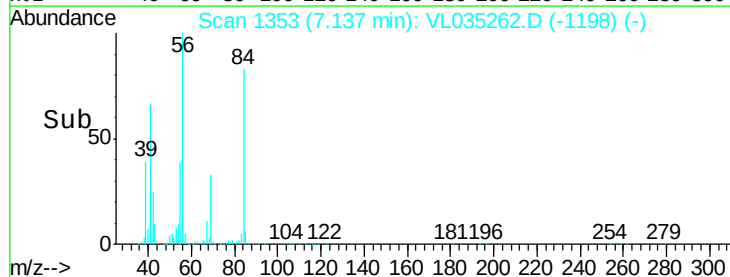
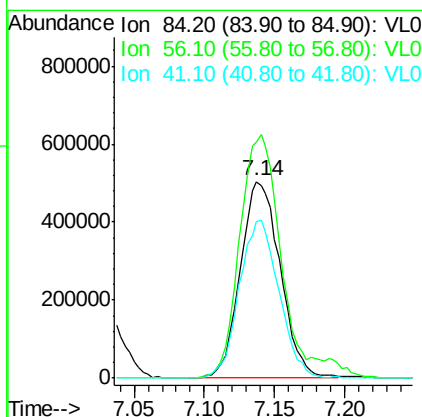
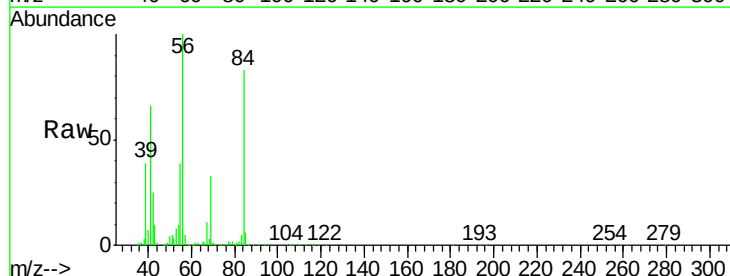
Manual Integrations
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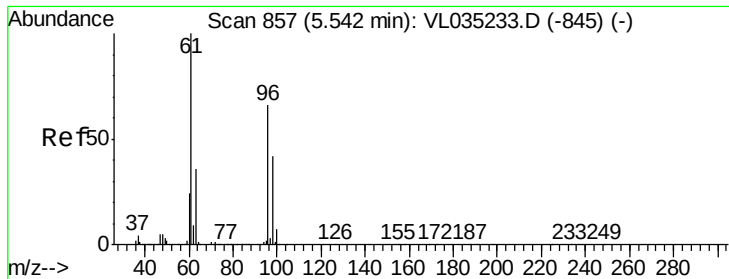
MMDadoda
7/30/2020 6:11:36 PM



#30
Cyclohexane
Concen: 11.259 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. -0.00 min
Lab File: VL035262.D
Acq: 30 Jul 2020 1:31

Tgt Ion: 84 Resp: 992489
Ion Ratio Lower Upper
84 100
56 132.6 104.2 156.2
41 80.2 63.7 95.5





#31

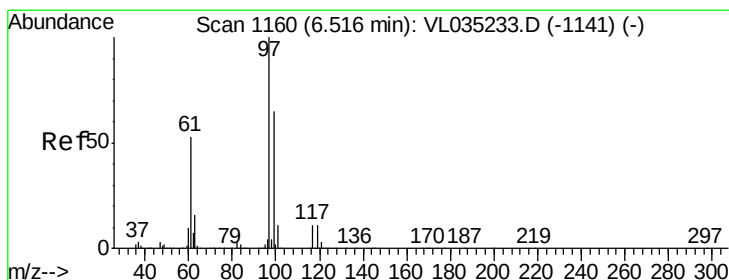
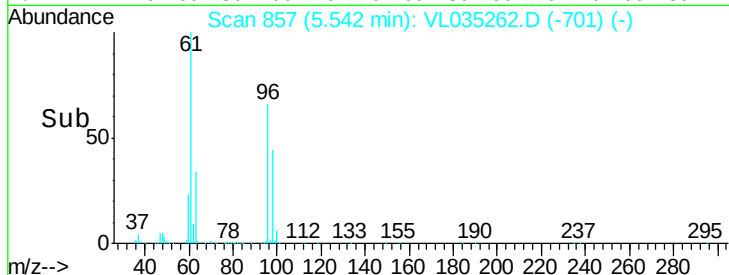
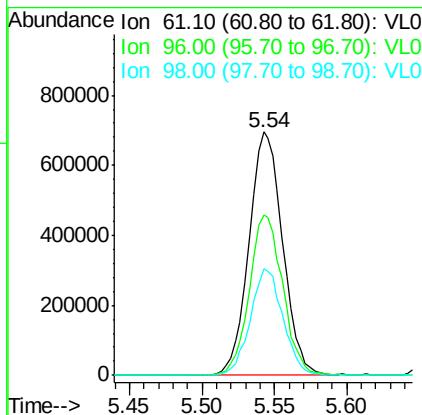
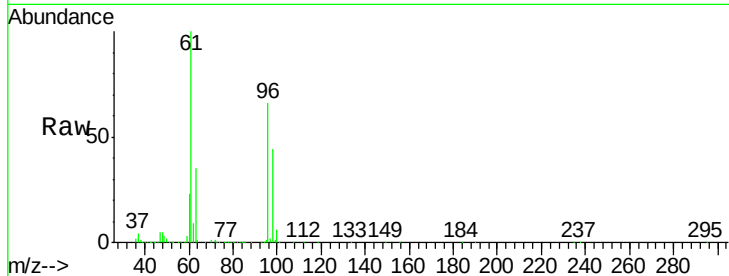
cis-1,2-Dichloroethene
 Concen: 10.492 ppbv
 RT: 5.54 min Scan# 857
 Delta R.T. 0.00 min
 Lab File: VL035262.D
 Acq: 30 Jul 2020 1:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	66.1	52.6	78.8
98	43.8	33.7	50.5

Manual Integrations
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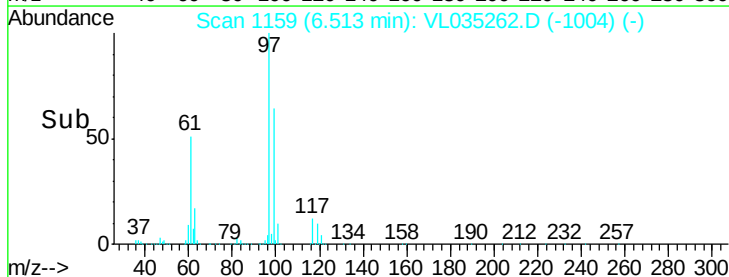
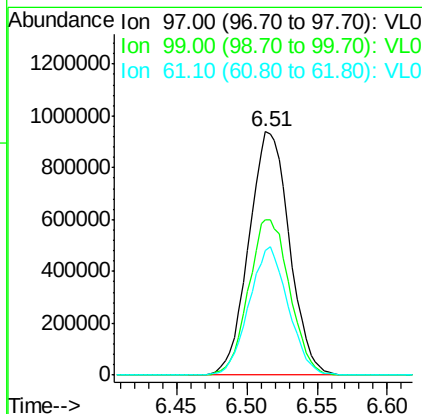
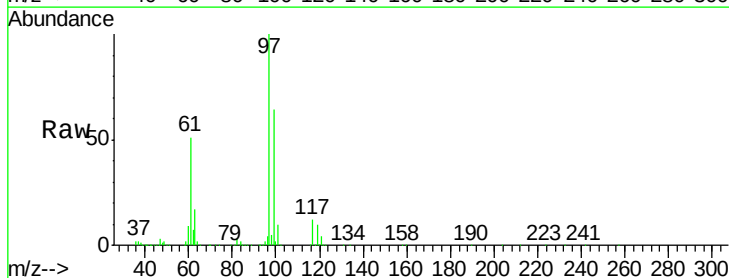
MMDadoda
 7/30/2020 6:11:36 PM

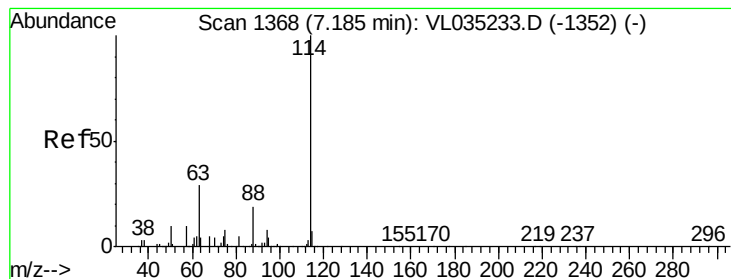


#32

1,1,1-Trichloroethane
 Concen: 8.909 ppbv
 RT: 6.51 min Scan# 1159
 Delta R.T. -0.00 min
 Lab File: VL035262.D
 Acq: 30 Jul 2020 1:31

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.4	77.0
61	51.0	40.4	60.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:114 Resp: 3158743

Ion Ratio Lower Upper

114 100

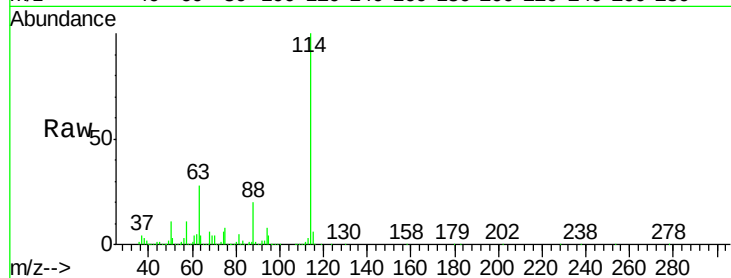
63 27.8 22.2 33.2

88 19.4 15.4 23.0

Manual Integrations
APPROVED

MMDadoda

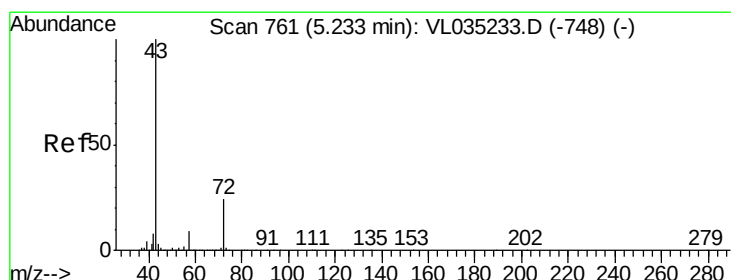
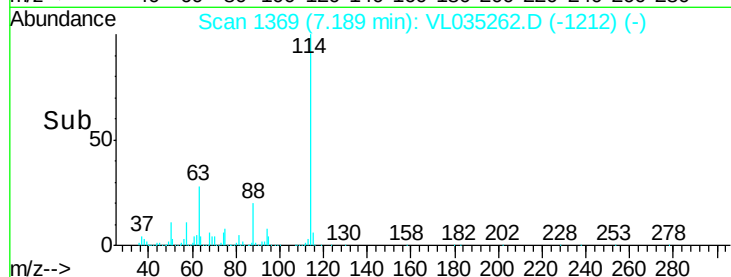
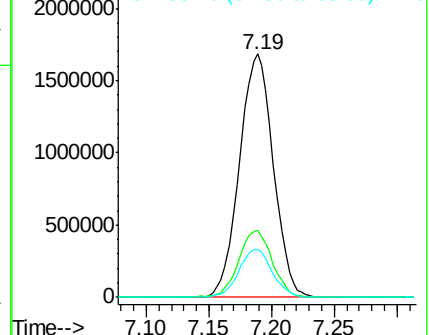
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Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 9.723 ppbv

RT: 5.23 min Scan# 760

Delta R.T. -0.00 min

Lab File: VL035262.D

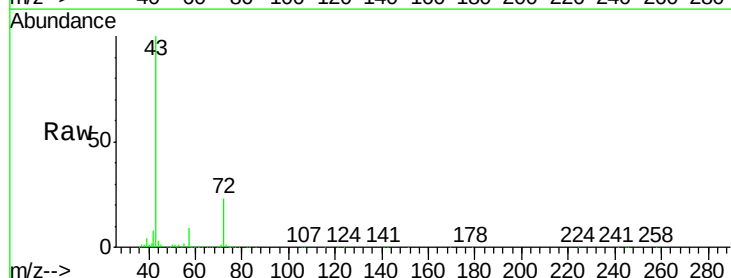
Acq: 30 Jul 2020 1:31

Tgt Ion: 43 Resp: 1562654

Ion Ratio Lower Upper

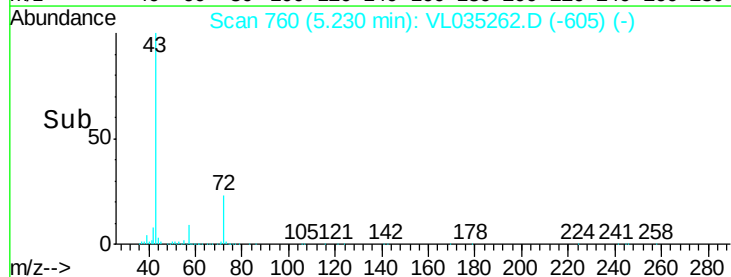
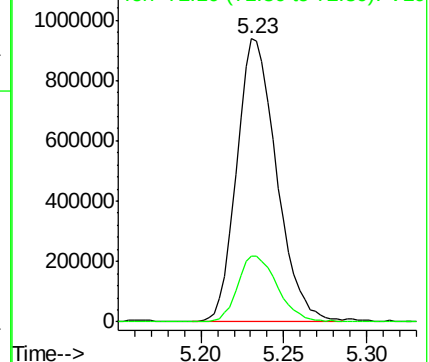
43 100

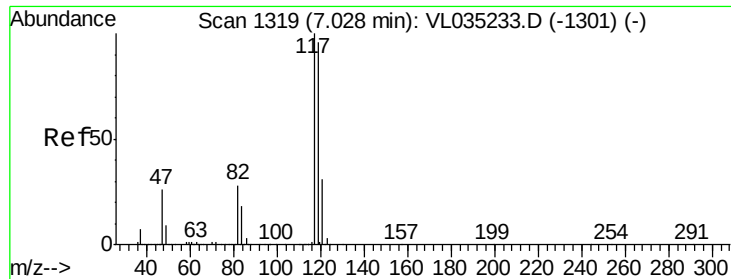
72 23.4 19.2 28.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.399 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1987789

Ion Ratio Lower Upper

117 100

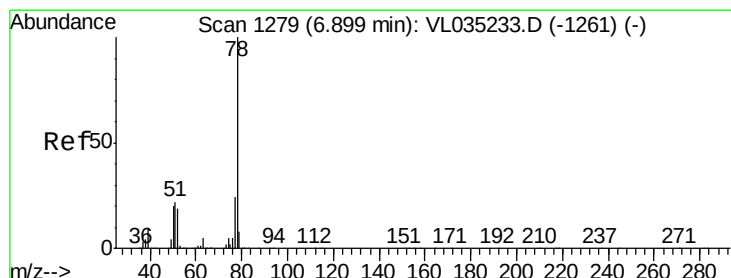
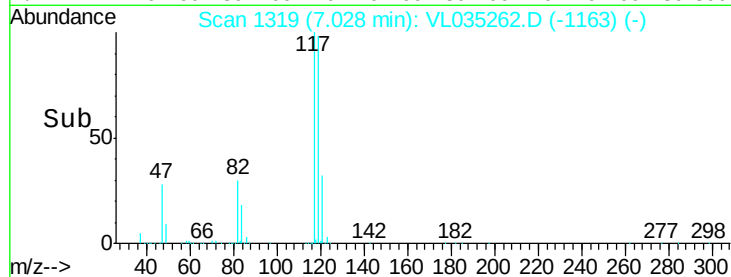
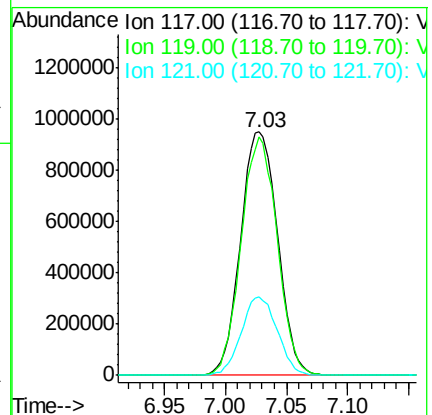
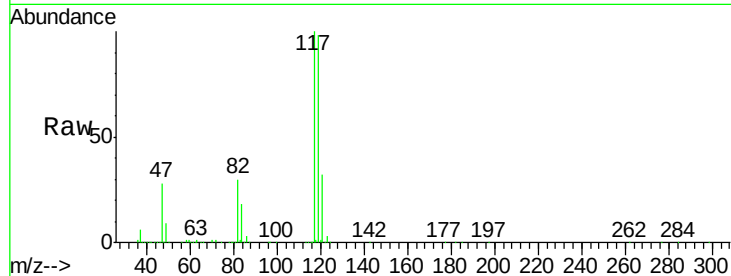
119 97.8 76.8 115.2

121 32.1 24.5 36.7

Manual Integrations
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#36

Benzene

Concen: 10.464 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

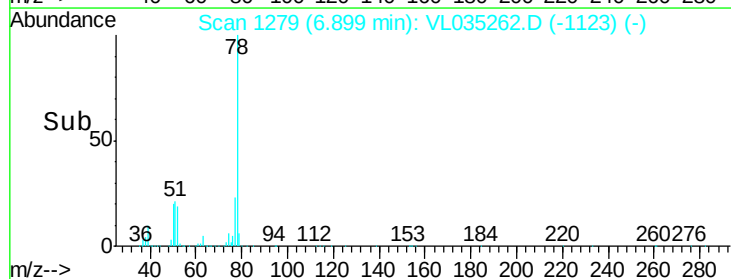
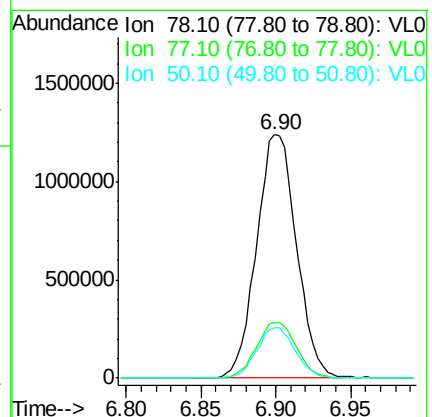
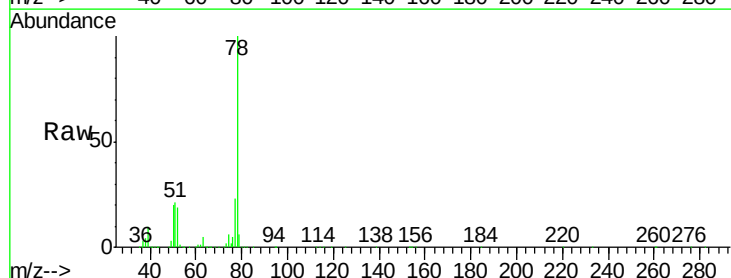
Tgt Ion: 78 Resp: 2297204

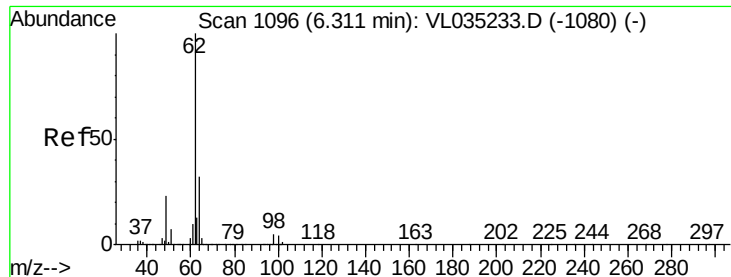
Ion Ratio Lower Upper

78 100

77 23.0 18.9 28.3

50 20.4 16.1 24.1





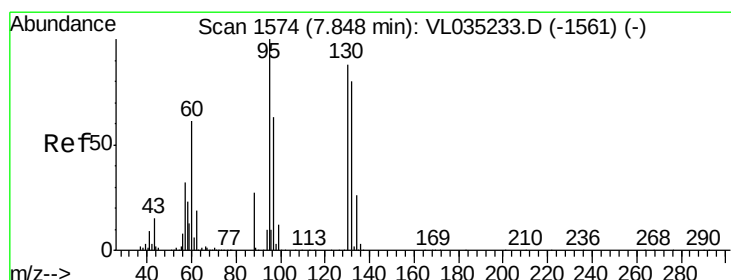
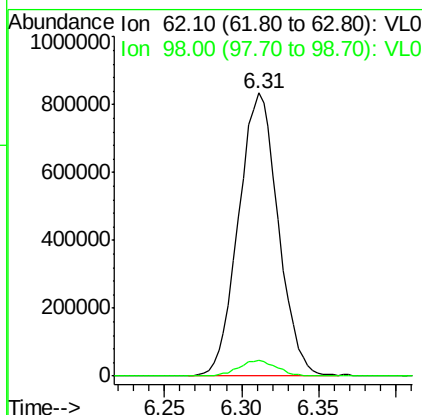
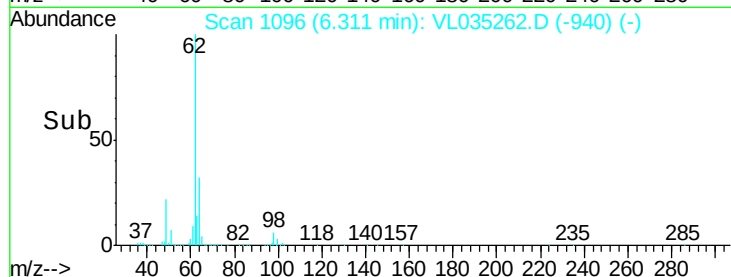
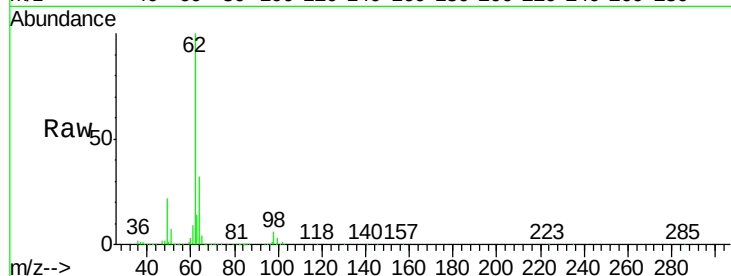
#37
 1,2-Dichloroethane
 Concen: 9.715 ppbv
 RT: 6.31 min Scan# 1096
 Delta R.T. 0.00 min
 Lab File: VL035262.D
 Acq: 30 Jul 2020 1:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.5	4.5	6.7

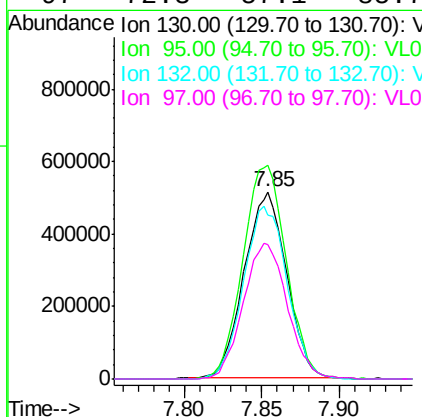
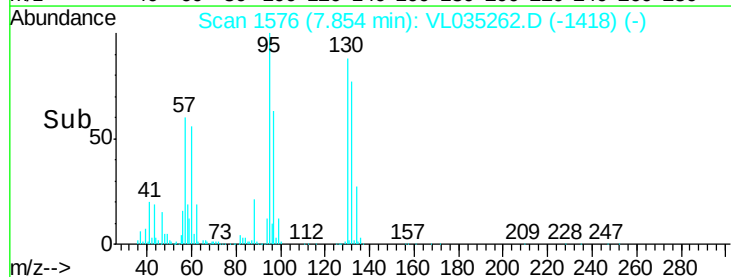
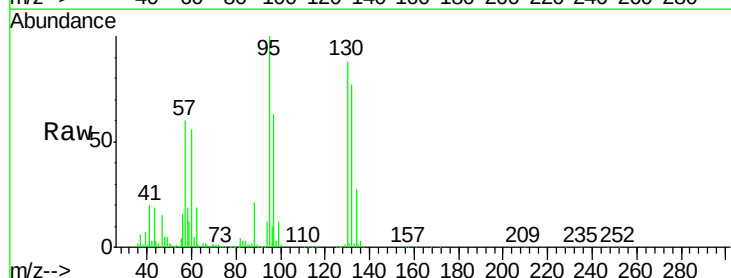
Manual Integrations
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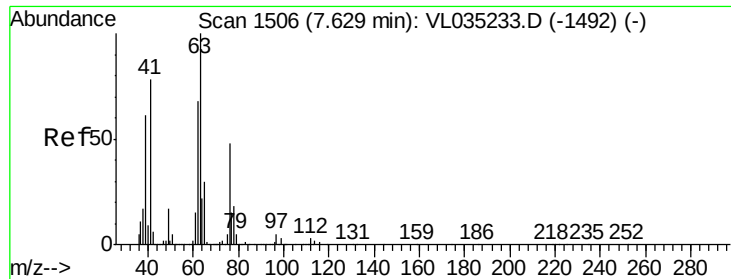
MMDadoda
 7/30/2020 6:11:36 PM



#38
 Trichloroethene
 Concen: 10.748 ppbv
 RT: 7.85 min Scan# 1576
 Delta R.T. 0.01 min
 Lab File: VL035262.D
 Acq: 30 Jul 2020 1:31

Tgt Ion	Ratio	Lower	Upper
130	100		
95	114.6	90.7	136.1
132	88.0	72.9	109.3
97	72.3	57.1	85.7





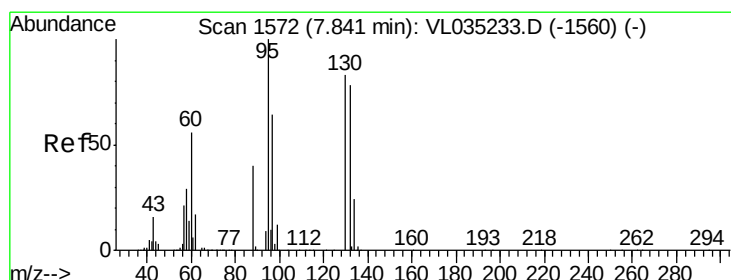
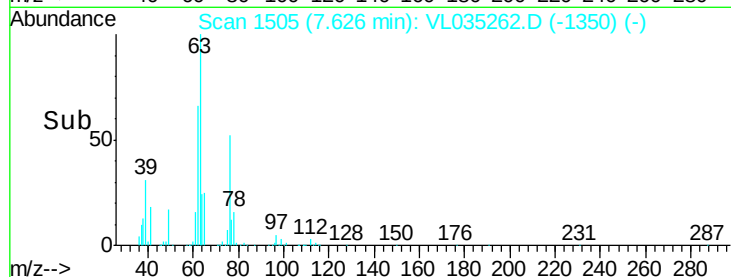
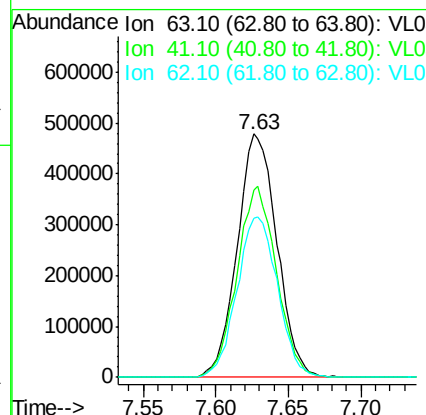
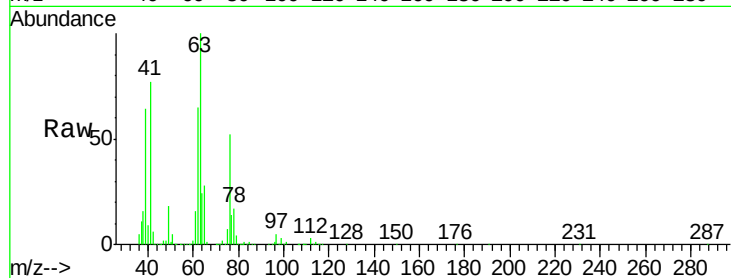
#39
 1,2-Dichloropropane
 Concen: 10.387 ppbv
 RT: 7.63 min Scan# 1505
 Delta R.T. -0.00 min
 Lab File: VL035262.D
 Acq: 30 Jul 2020 1:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	77.0	62.2	93.4
62	65.5	54.2	81.2

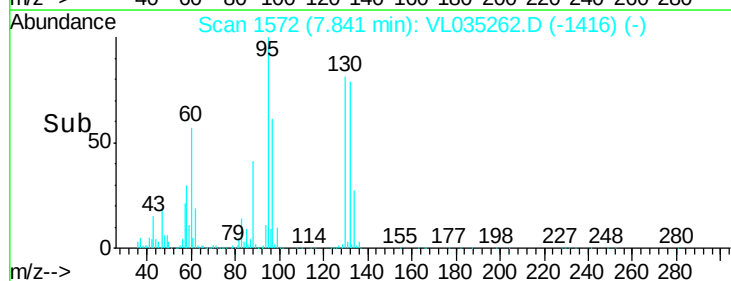
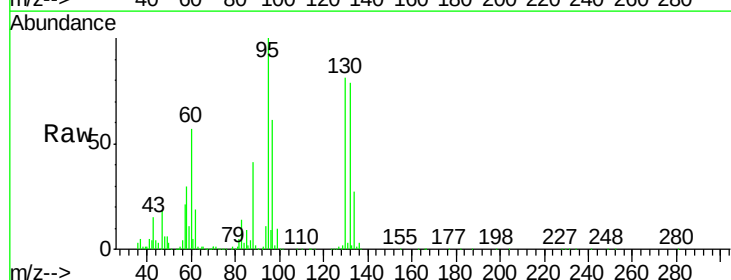
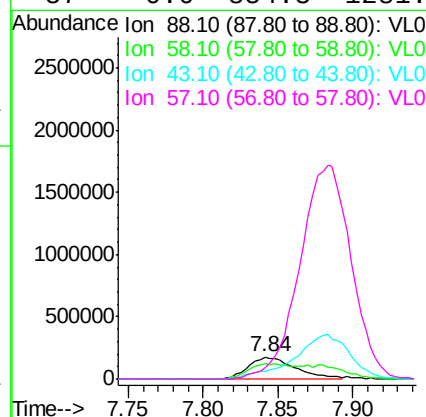
Manual Integrations
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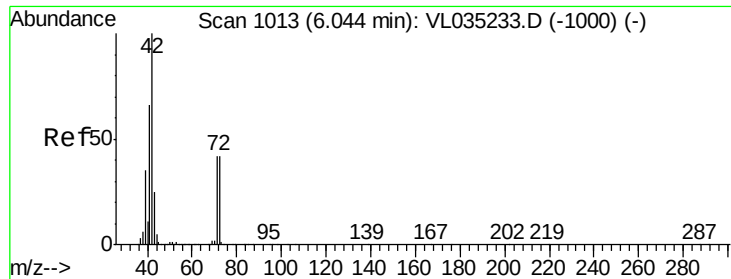
MMDadoda
 7/30/2020 6:11:36 PM



#40
 1,4-Dioxane
 Concen: 11.061 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VL035262.D
 Acq: 30 Jul 2020 1:31

Tgt Ion	Ratio	Lower	Upper
88	100		
58	125.4	99.3	148.9
43	0.0	195.6	293.4#
57	0.0	854.3	1281.5#





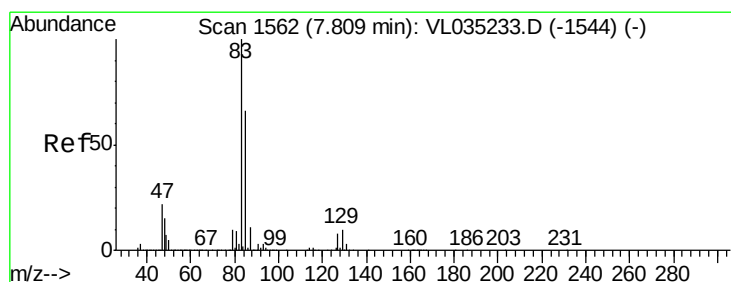
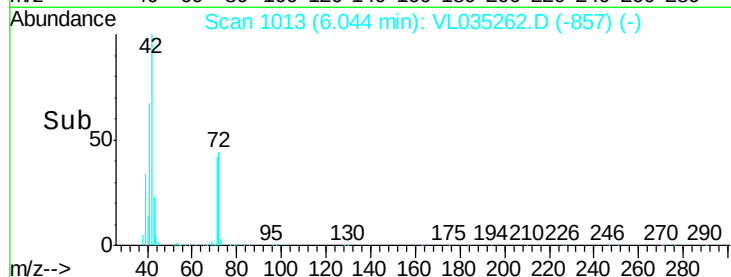
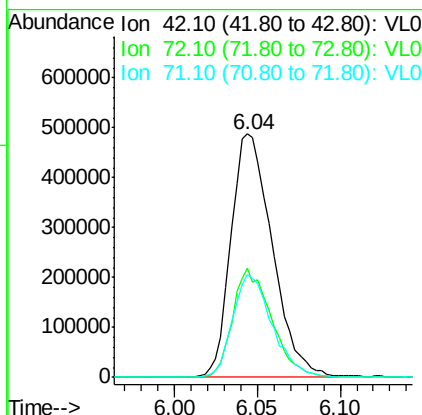
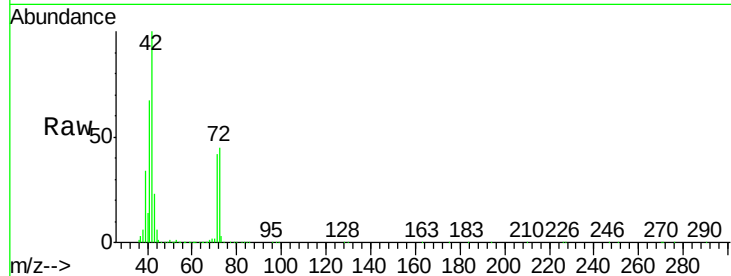
#41
Tetrahydrofuran
Concen: 10.740 ppbv
RT: 6.04 min Scan# 1013
Delta R.T. 0.00 min
Lab File: VL035262.D
Acq: 30 Jul 2020 1:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.2	34.2	51.2
71	40.6	33.2	49.8

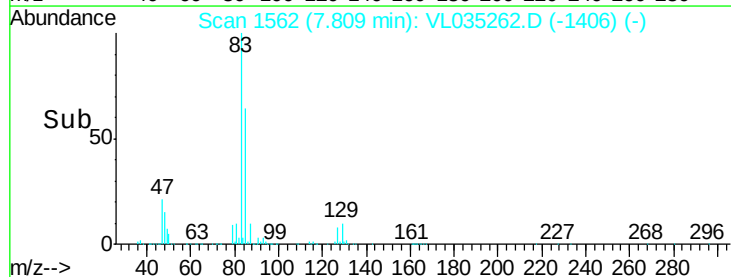
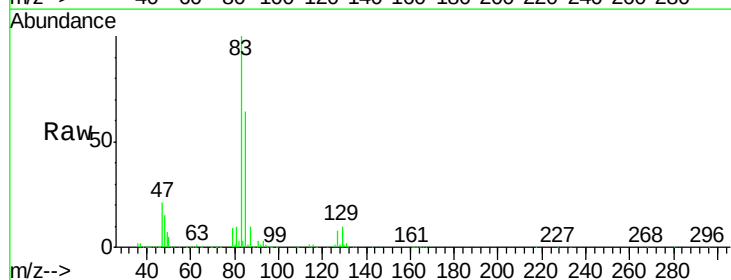
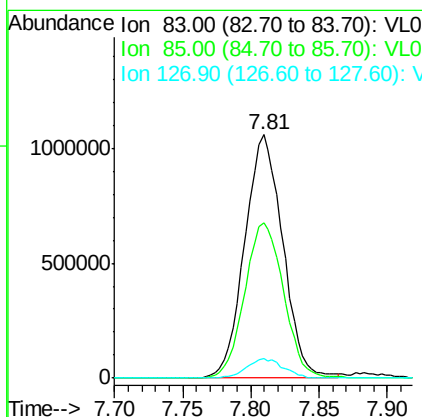
Manual Integrations
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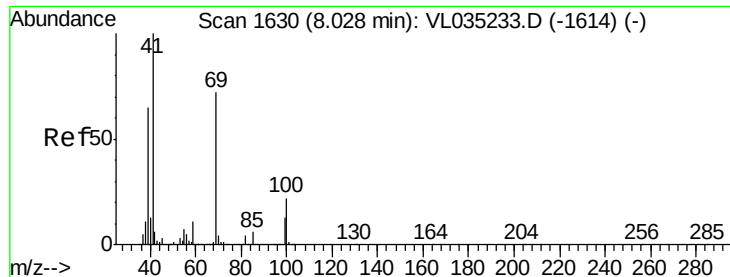
MMDadoda
7/30/2020 6:11:36 PM



#42
Bromodichloromethane
Concen: 10.018 ppbv
RT: 7.81 min Scan# 1562
Delta R.T. 0.00 min
Lab File: VL035262.D
Acq: 30 Jul 2020 1:31

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.7	52.9	79.3
127	8.0	6.5	9.7





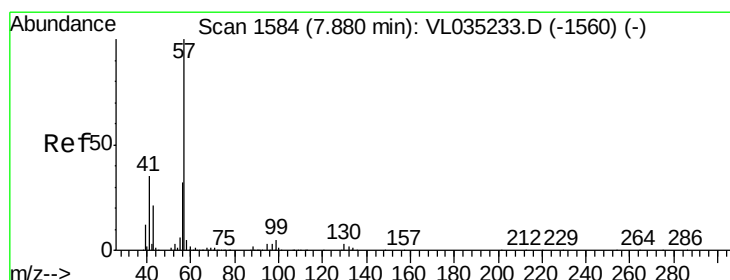
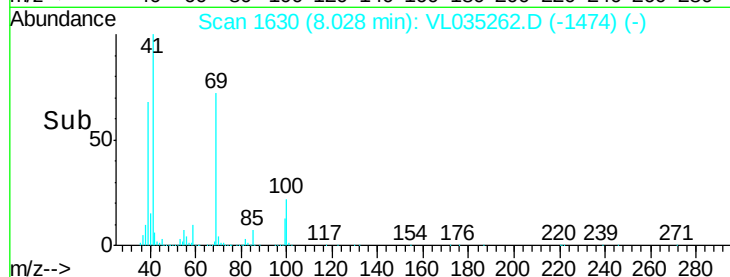
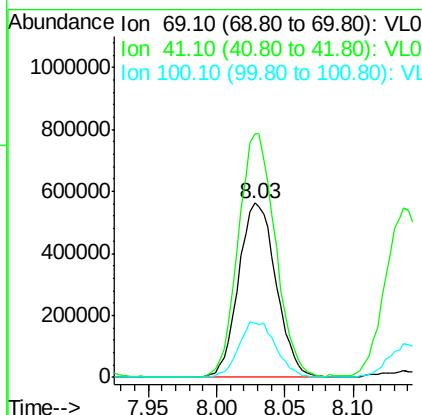
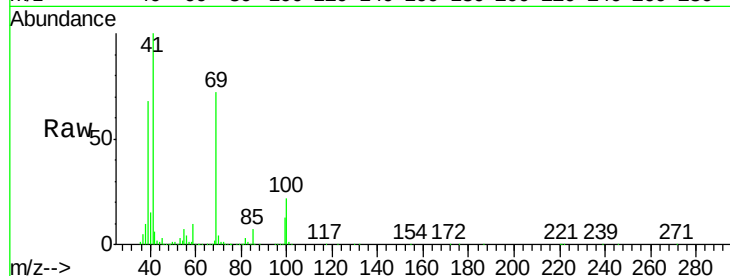
#43
Methyl Methacrylate
Concen: 11.327 ppbv
RT: 8.03 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VL035262.D
Acq: 30 Jul 2020 1:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1077331
Ion Ratio Lower Upper
69 100
41 138.2 113.0 169.4
100 31.4 25.3 37.9

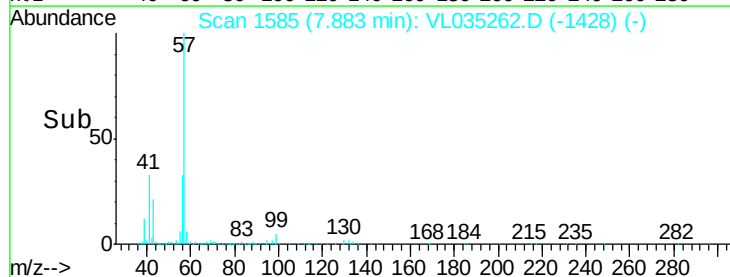
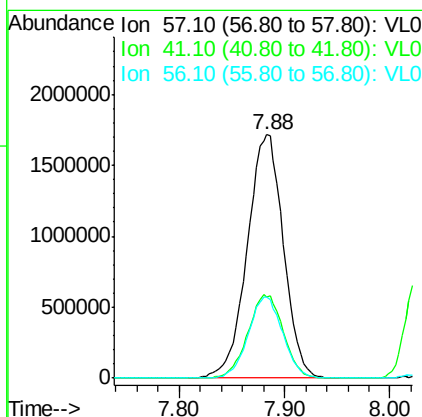
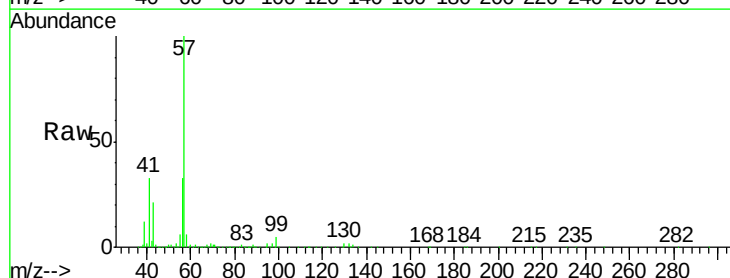
Manual Integrations
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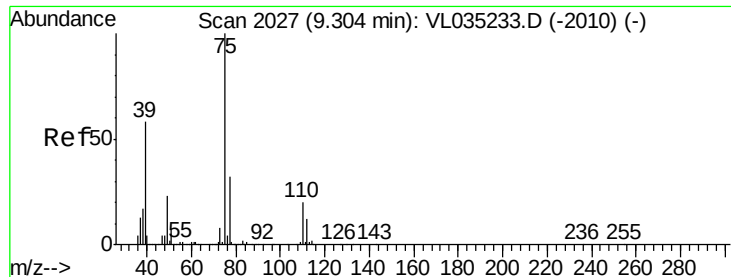
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 10.574 ppbv
RT: 7.88 min Scan# 1585
Delta R.T. 0.00 min
Lab File: VL035262.D
Acq: 30 Jul 2020 1:31

Tgt Ion: 57 Resp: 4089945
Ion Ratio Lower Upper
57 100
41 33.8 27.0 40.4
56 31.8 25.6 38.4





#45

t-1,3-Dichloropropene

Concen: 12.203 ppbv

RT: 9.30 min Scan# 2027

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1169484

Ion Ratio Lower Upper

75 100

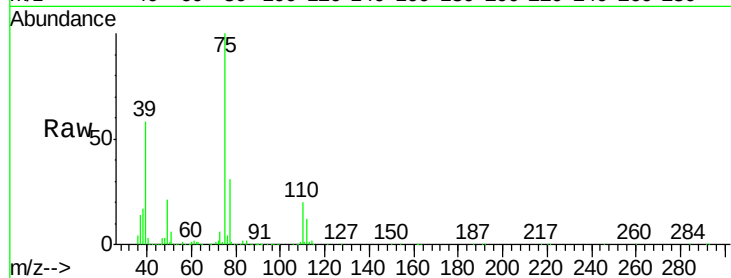
77 31.0 25.6 38.4

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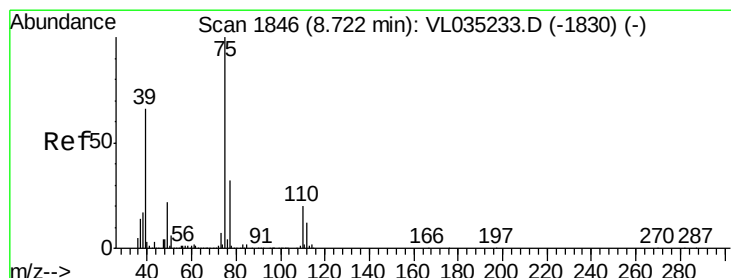
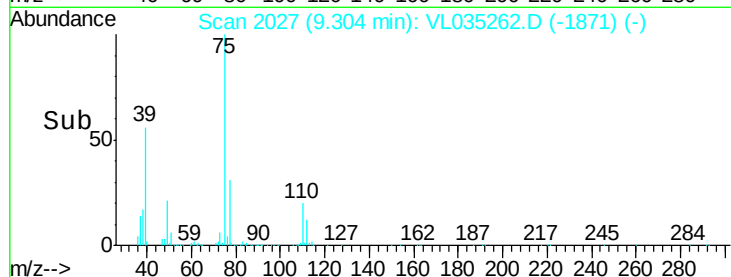
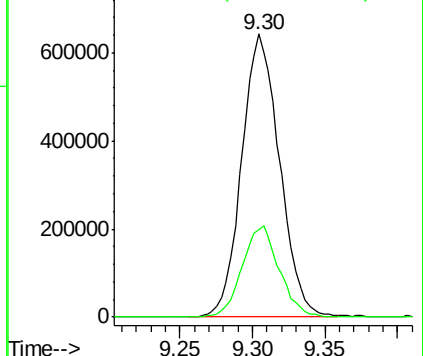
MMDadoda

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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: 11.801 ppbv

RT: 8.73 min Scan# 1847

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

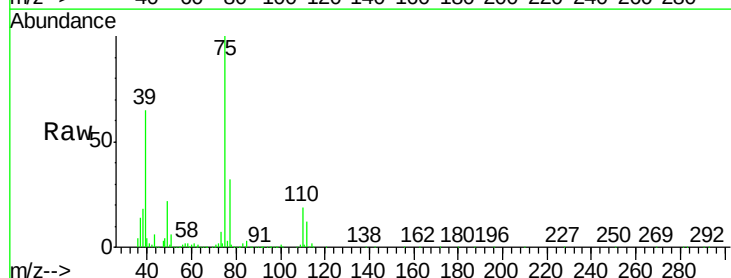
Tgt Ion: 75 Resp: 1377836

Ion Ratio Lower Upper

75 100

39 64.9 53.0 79.4

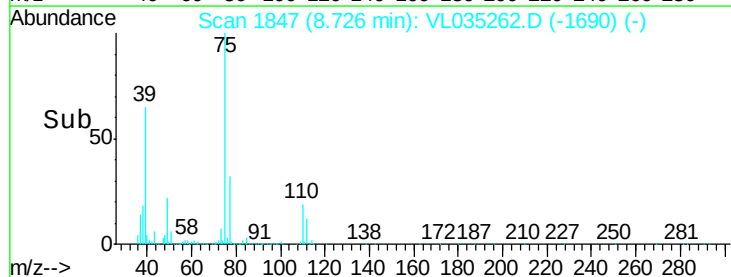
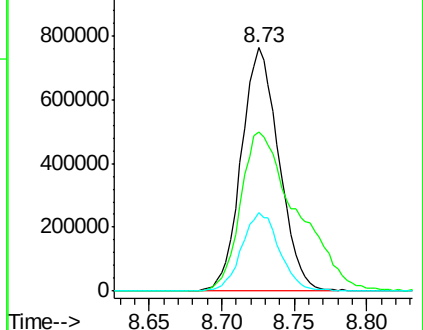
77 32.5 25.8 38.8

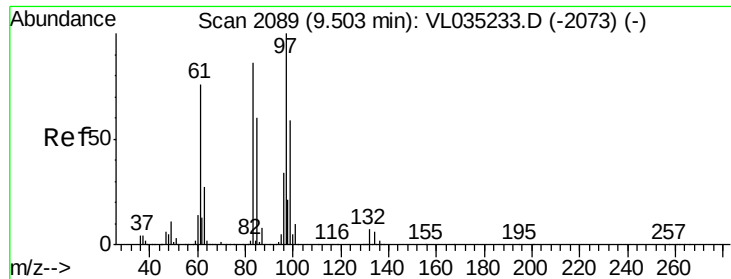


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





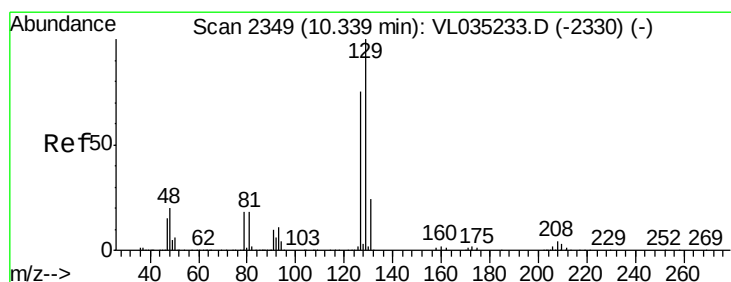
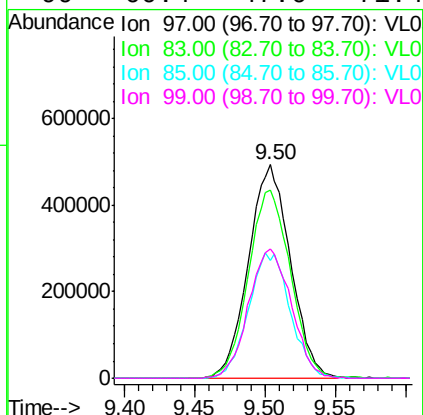
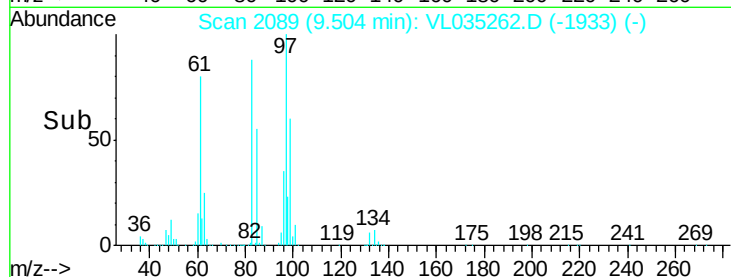
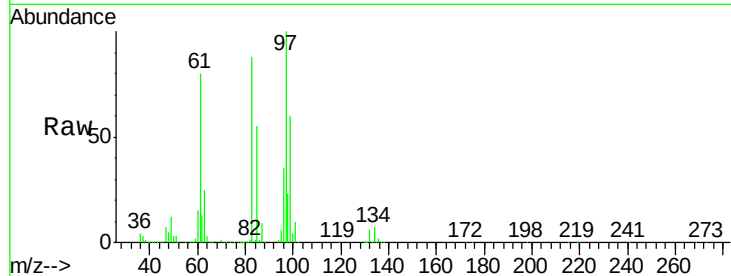
#47
 1,1,2-Trichloroethane
 Concen: 9.914 ppbv
 RT: 9.50 min Scan# 2089
 Delta R.T. 0.00 min
 Lab File: VL035262.D
 Acq: 30 Jul 2020 1:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
97	100		
83	87.9	69.0	103.4
85	55.1	47.8	71.8
99	60.4	47.6	71.4

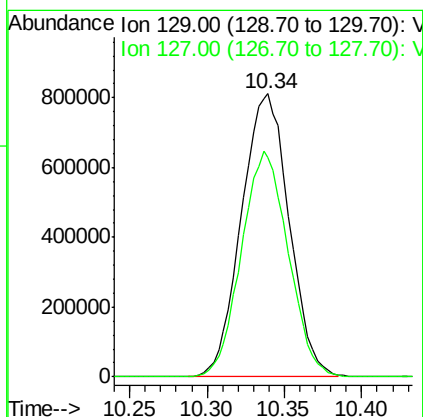
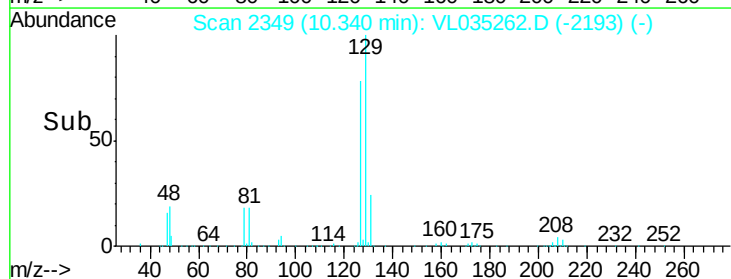
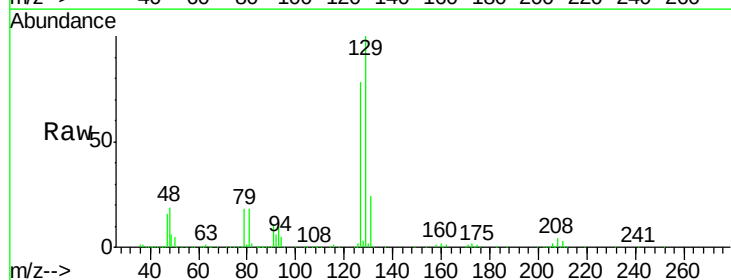
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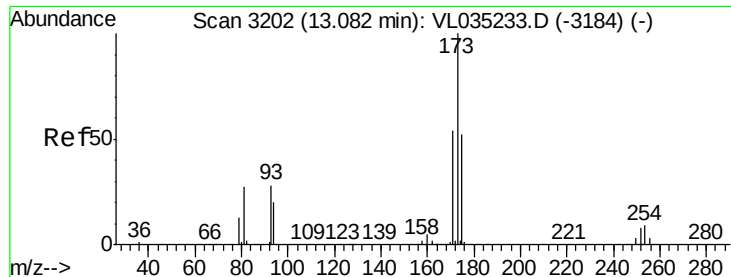
MMDadoda
 7/30/2020 6:11:36 PM



#48
 Dibromochloromethane
 Concen: 10.616 ppbv
 RT: 10.34 min Scan# 2349
 Delta R.T. 0.00 min
 Lab File: VL035262.D
 Acq: 30 Jul 2020 1:31

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.0	39.6	119.0





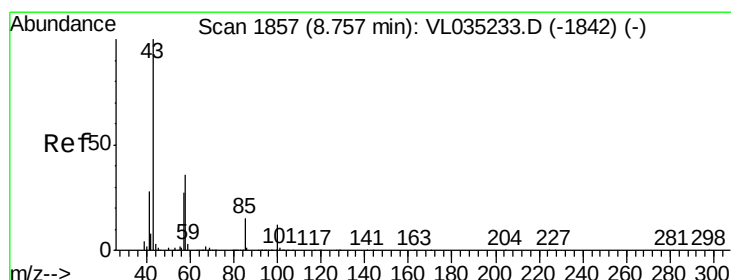
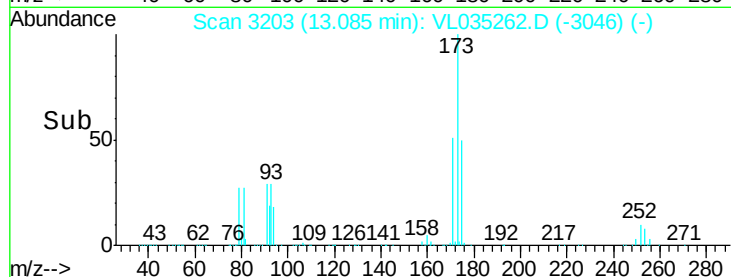
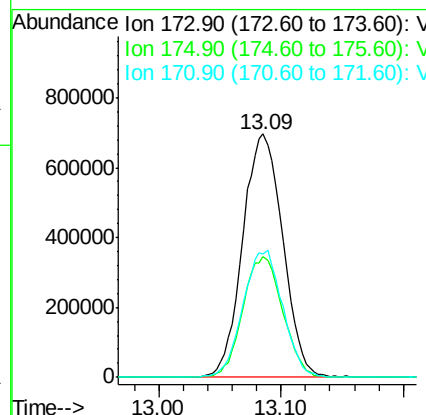
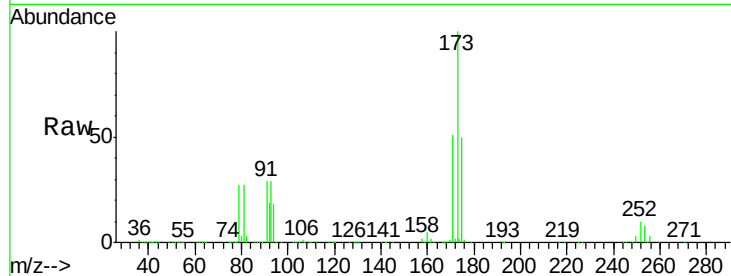
#49
Bromoform
Concen: 10.792 ppbv
RT: 13.09 min Scan# 3203
Delta R.T. 0.00 min
Lab File: VL035262.D
Acq: 30 Jul 2020 1:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1580965
Ion Ratio Lower Upper
173 100
175 49.2 40.0 60.0
171 51.6 41.8 62.8

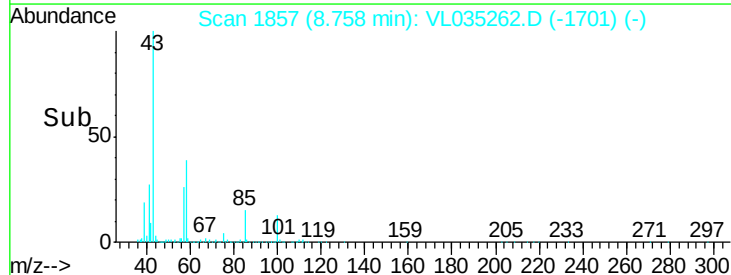
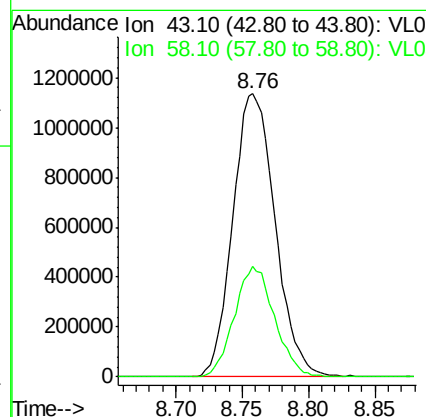
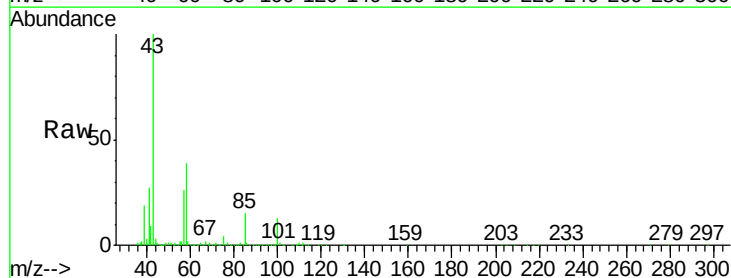
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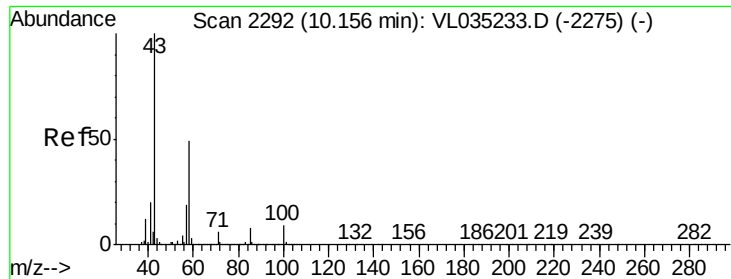
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#50
4-Methyl-2-Pentanone
Concen: 10.742 ppbv
RT: 8.76 min Scan# 1857
Delta R.T. 0.00 min
Lab File: VL035262.D
Acq: 30 Jul 2020 1:31

Tgt Ion: 43 Resp: 2501975
Ion Ratio Lower Upper
43 100
58 37.4 30.0 45.0





#51

2-Hexanone

Concen: 11.459 ppbv

RT: 10.16 min Scan# 2292

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2024030

Ion Ratio Lower Upper

43 100

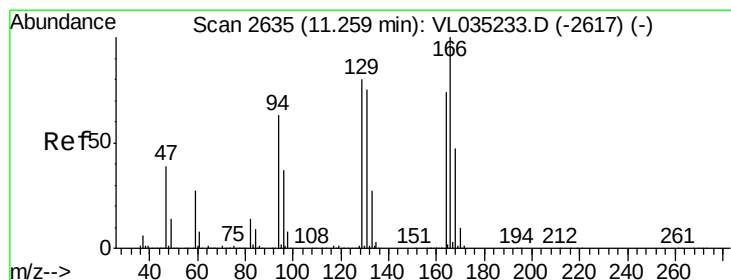
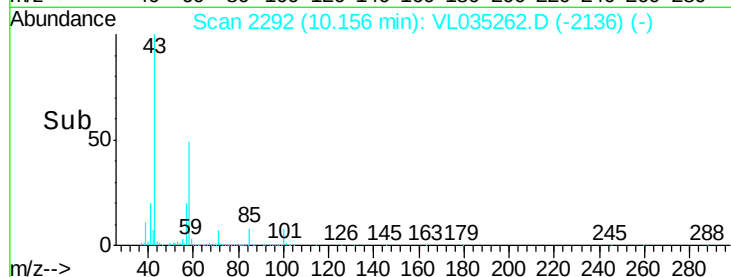
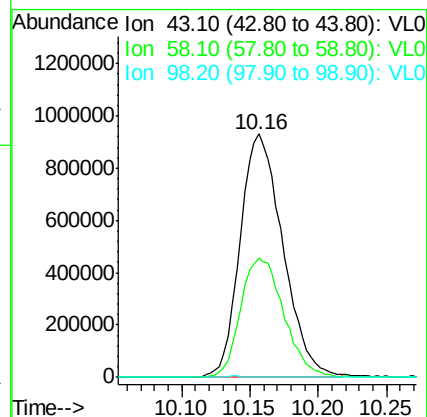
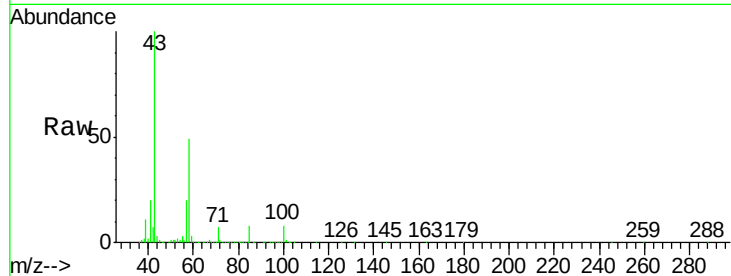
58 49.8 38.8 58.2

98 0.6 0.6 0.8

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#52

Tetrachloroethene

Concen: 10.513 ppbv

RT: 11.26 min Scan# 2634

Delta R.T. -0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Tgt Ion: 164 Resp: 880574

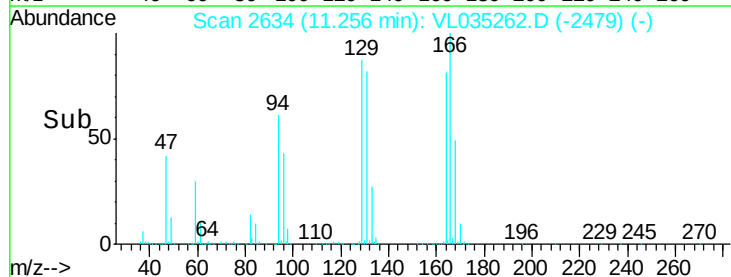
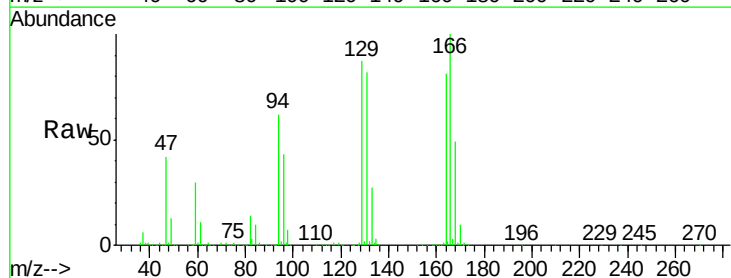
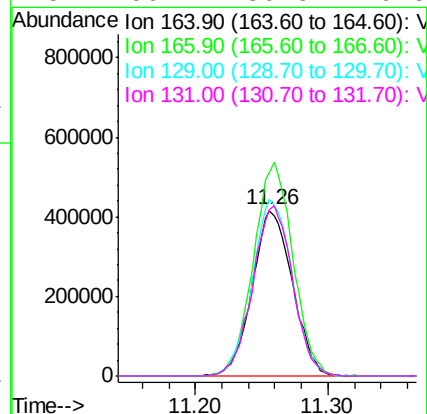
Ion Ratio Lower Upper

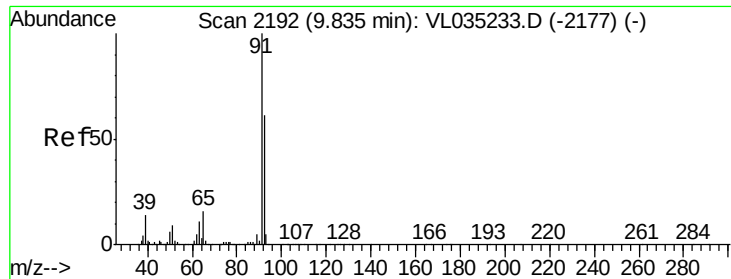
164 100

166 123.0 107.5 161.3

129 107.0 86.0 129.0

131 100.7 80.3 120.5





#53

Toluene

Concen: 11.700 ppbv

RT: 9.83 min Scan# 2191

Delta R.T. -0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2729637

Ion Ratio Lower Upper

91 100

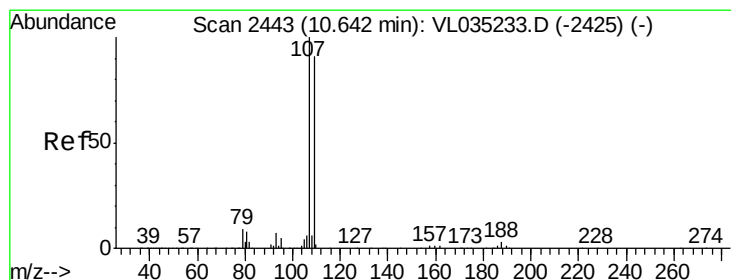
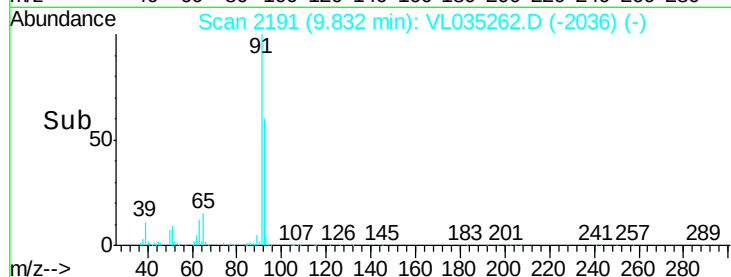
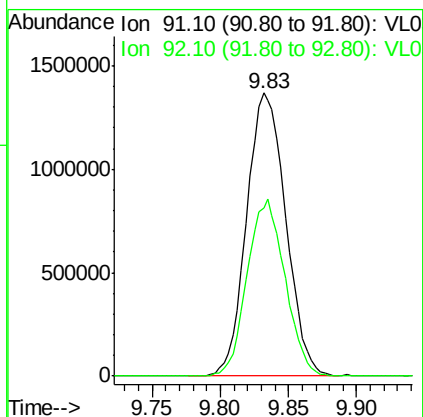
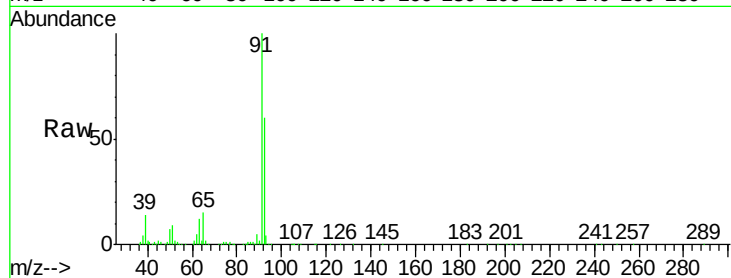
92 60.4 48.5 72.7

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#54

1,2-Dibromoethane

Concen: 10.334 ppbv

RT: 10.65 min Scan# 2444

Delta R.T. 0.00 min

Lab File: VL035262.D

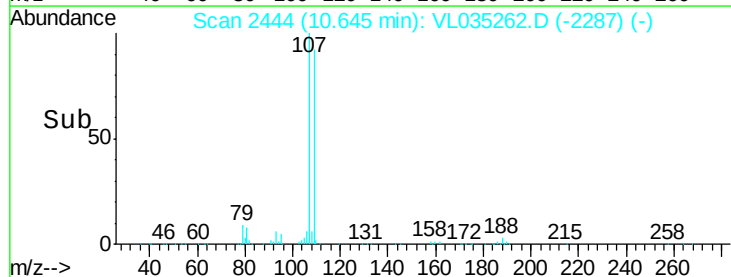
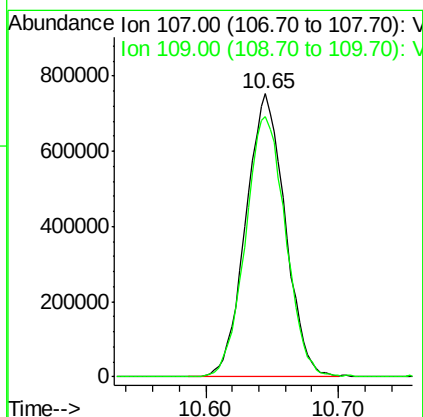
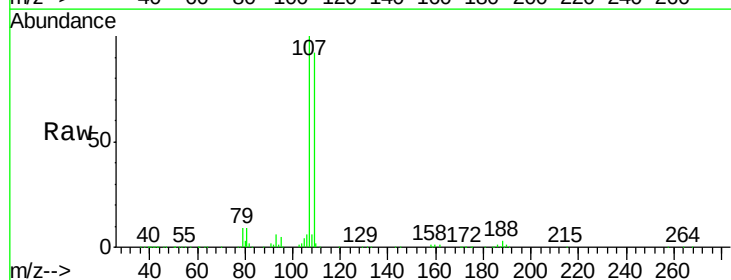
Acq: 30 Jul 2020 1:31

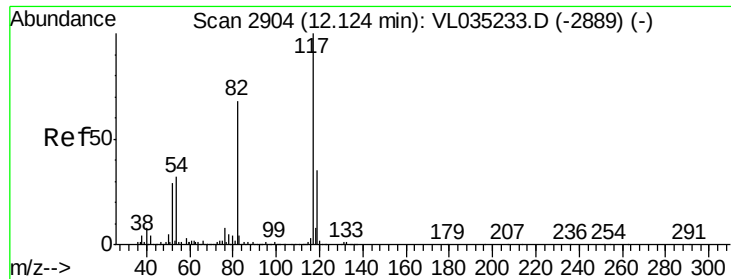
Tgt Ion: 107 Resp: 1545995

Ion Ratio Lower Upper

107 100

109 92.0 73.0 109.6





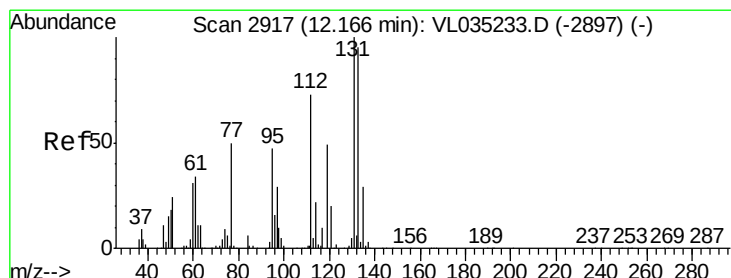
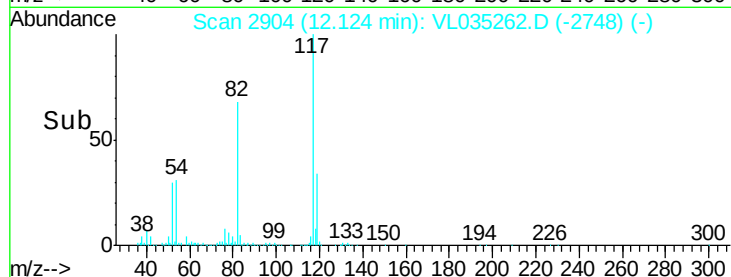
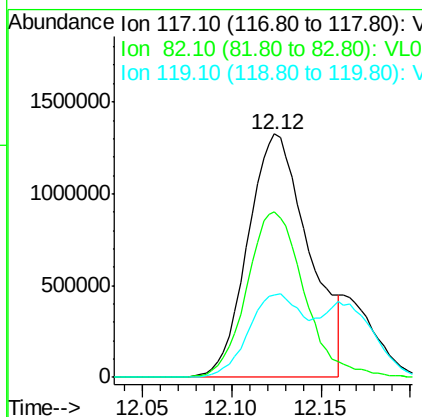
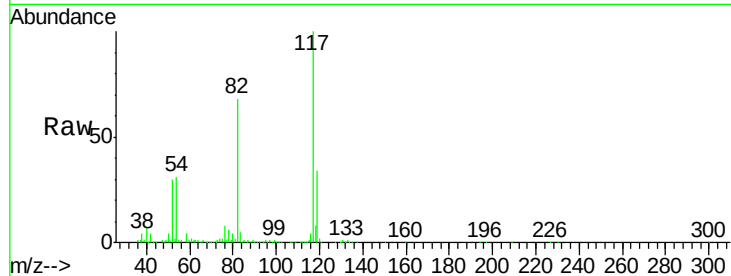
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2904
Delta R.T. 0.00 min
Lab File: VL035262.D
Acq: 30 Jul 2020 1:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 3157226
Ion Ratio Lower Upper
117 100
82 64.4 52.4 78.6
119 34.1 24.6 36.8

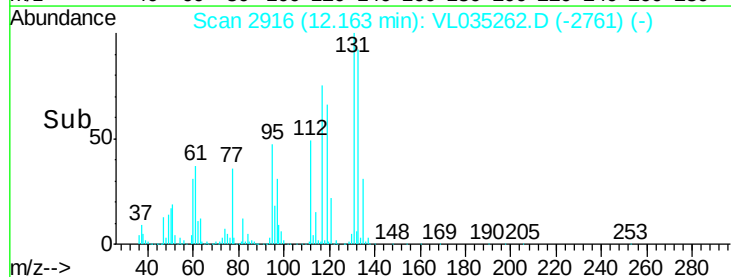
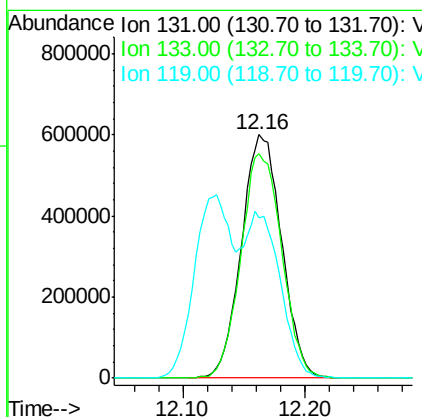
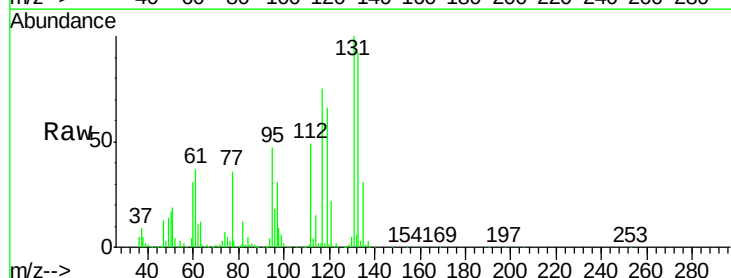
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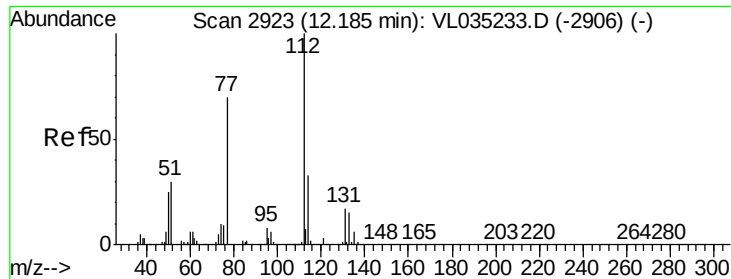
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.389 ppbv
RT: 12.16 min Scan# 2916
Delta R.T. -0.00 min
Lab File: VL035262.D
Acq: 30 Jul 2020 1:31

Tgt Ion:131 Resp: 1362923
Ion Ratio Lower Upper
131 100
133 94.1 76.1 114.1
119 54.9 44.3 66.5





#57

Chlorobenzene

Concen: 9.438 ppbv

RT: 12.18 min Scan# 2922

Delta R.T. -0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 2241974

Ion Ratio Lower Upper

112 100

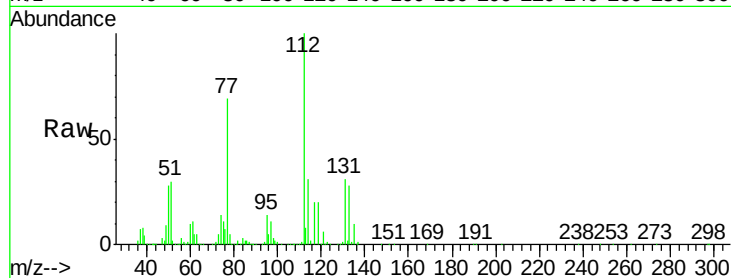
77 68.6 57.3 85.9

114 30.5 29.3 35.8

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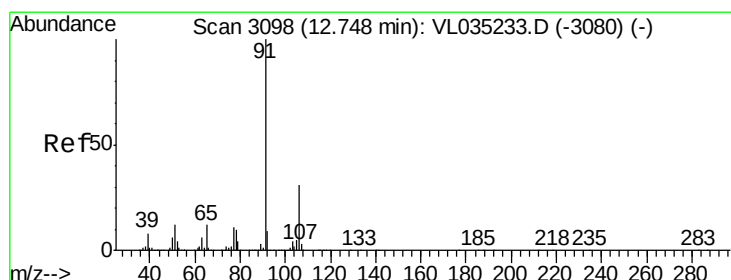
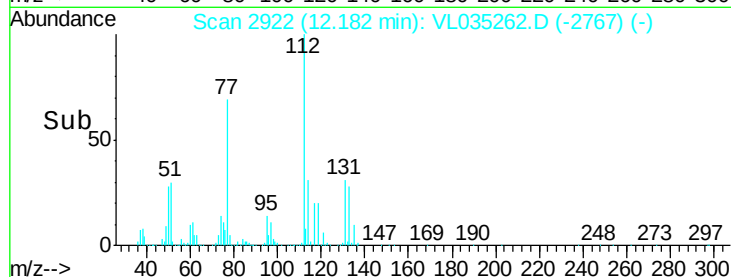
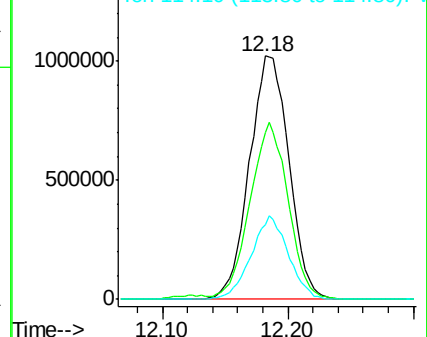
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.315 ppbv

RT: 12.75 min Scan# 3098

Delta R.T. 0.00 min

Lab File: VL035262.D

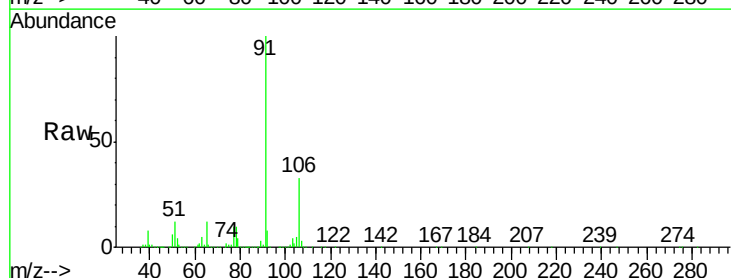
Acq: 30 Jul 2020 1:31

Tgt Ion: 91 Resp: 3783389

Ion Ratio Lower Upper

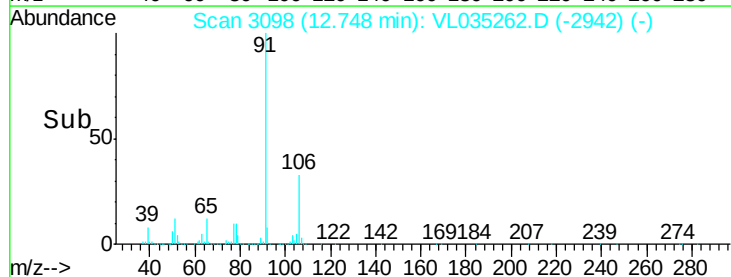
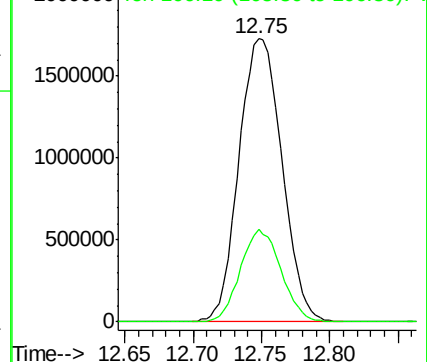
91 100

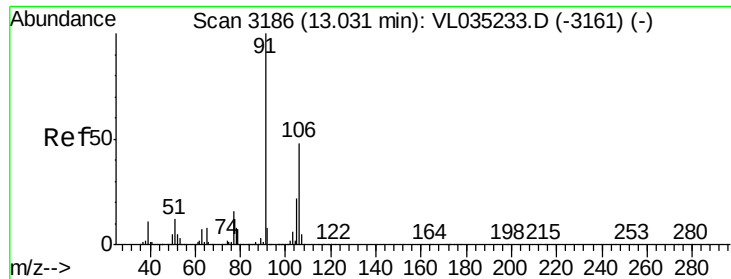
106 32.6 25.0 37.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





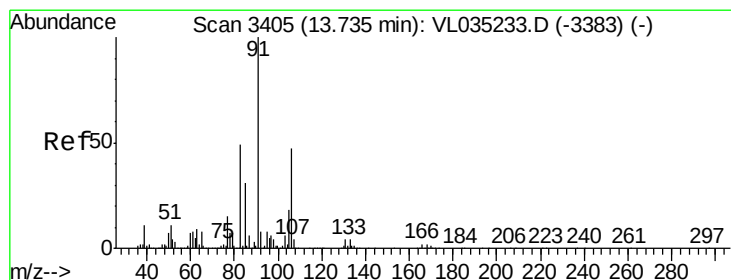
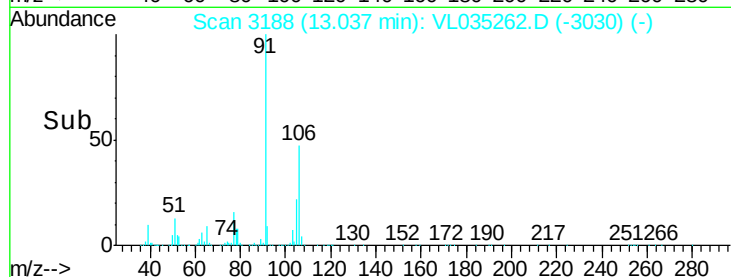
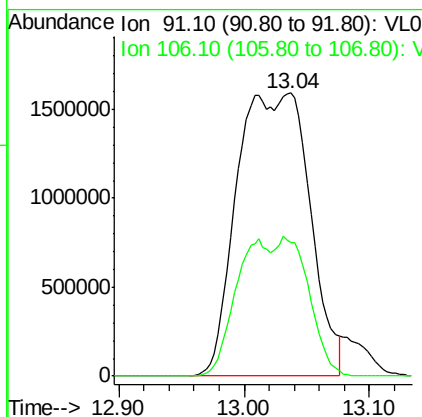
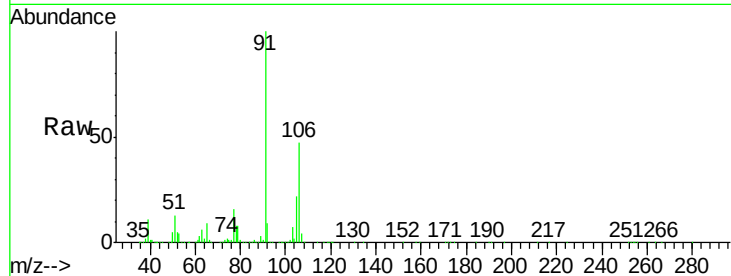
#59
m/p-Xylene
Concen: 20.620 ppbv m
RT: 13.04 min Scan# 3188
Delta R.T. 0.01 min
Lab File: VL035262.D
Acq: 30 Jul 2020 1:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 6418971
Ion Ratio Lower Upper
91 100
106 46.8 37.2 55.8

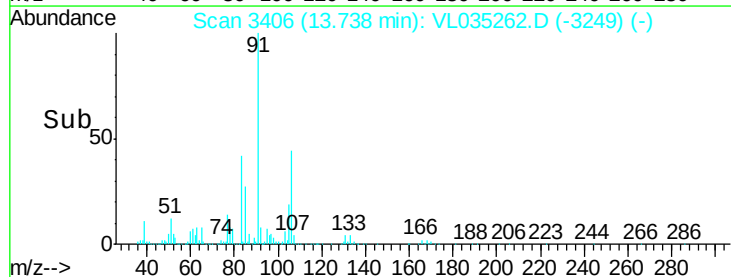
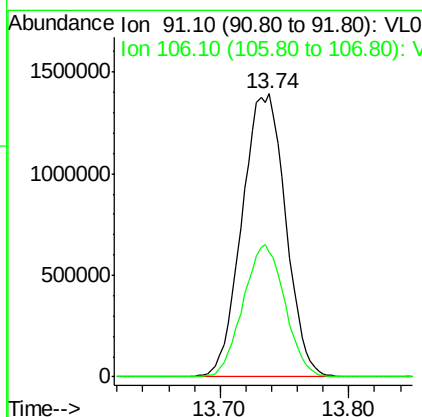
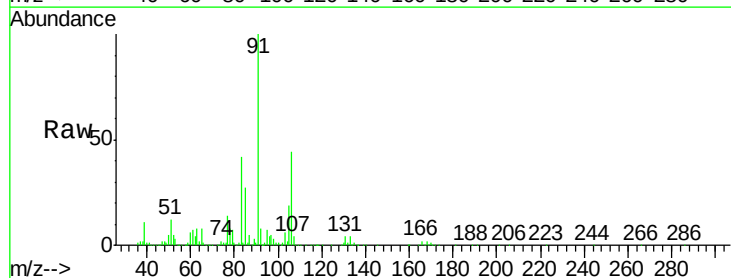
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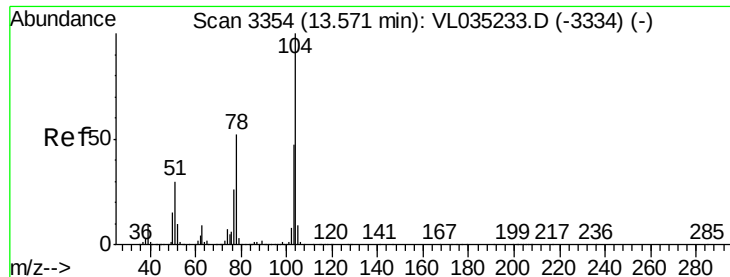
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#60
o-Xylene
Concen: 10.560 ppbv m
RT: 13.74 min Scan# 3406
Delta R.T. 0.00 min
Lab File: VL035262.D
Acq: 30 Jul 2020 1:31

Tgt Ion: 91 Resp: 3279920
Ion Ratio Lower Upper
91 100
106 44.6 22.4 67.0





#61

Stvrene

Concen: 12.055 ppbv

RT: 13.57 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 2272736

Ion Ratio Lower Upper

104 100

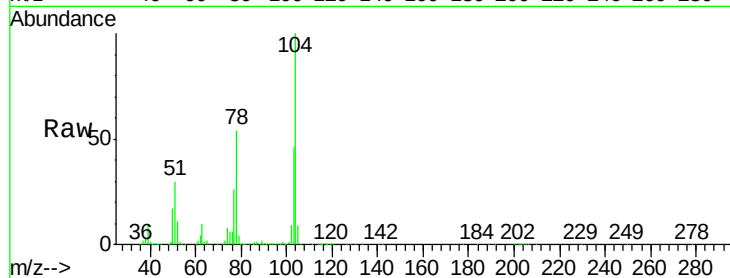
78 54.2 43.3 64.9

103 47.6 38.2 57.2

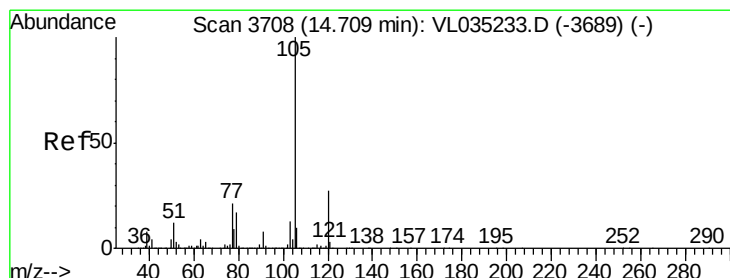
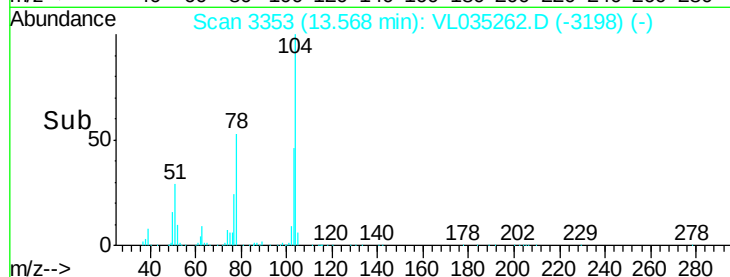
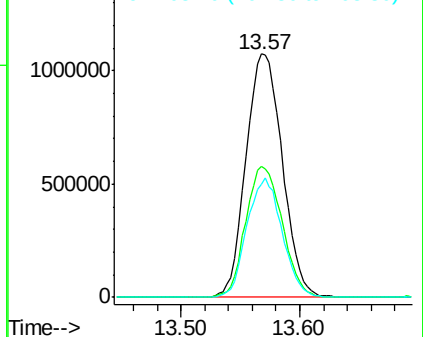
Manual Integrations
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Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 10.381 ppbv

RT: 14.71 min Scan# 3708

Delta R.T. 0.00 min

Lab File: VL035262.D

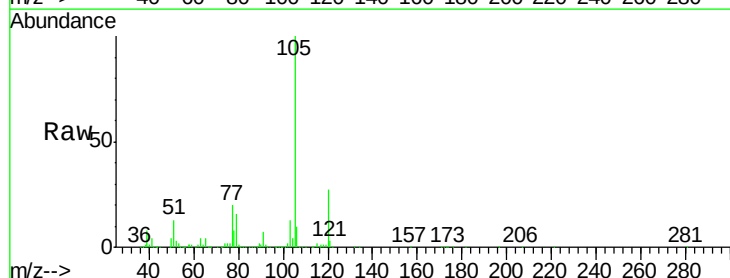
Acq: 30 Jul 2020 1:31

Tgt Ion:105 Resp: 4798773

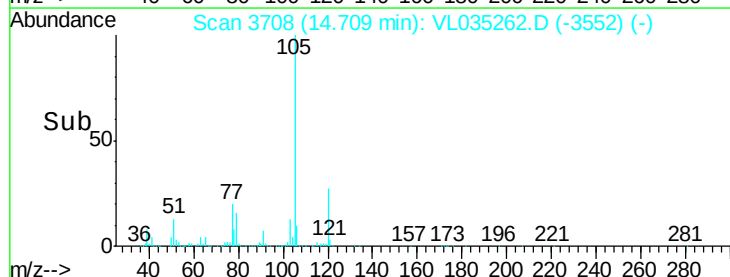
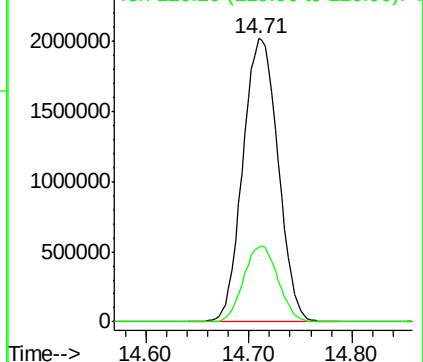
Ion Ratio Lower Upper

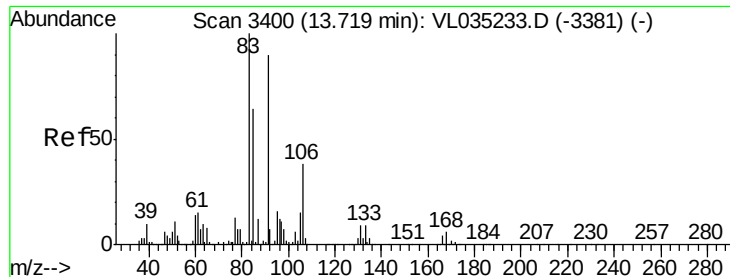
105 100

120 26.2 20.8 31.2



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





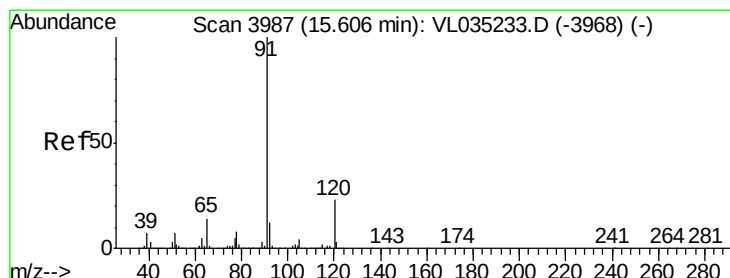
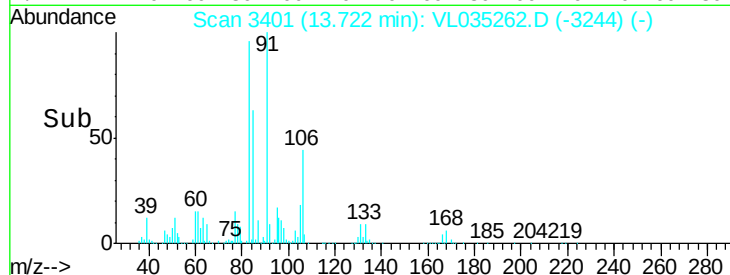
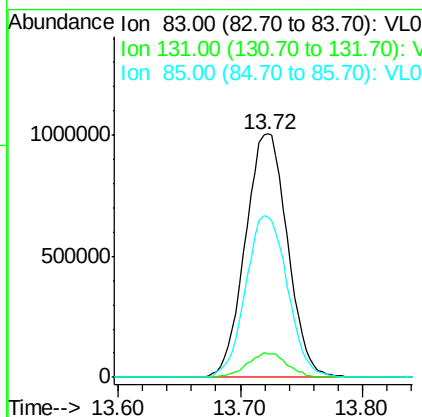
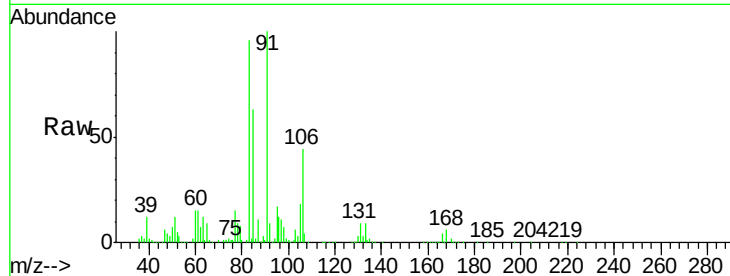
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.981 ppbv
 RT: 13.72 min Scan# 3401
 Delta R.T. 0.00 min
 Lab File: VL035262.D
 Acq: 30 Jul 2020 1:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	2400212
Ion Ratio	100	Lower	Upper
83	100		
131	9.4	4.6	13.8
85	66.1	32.7	98.1

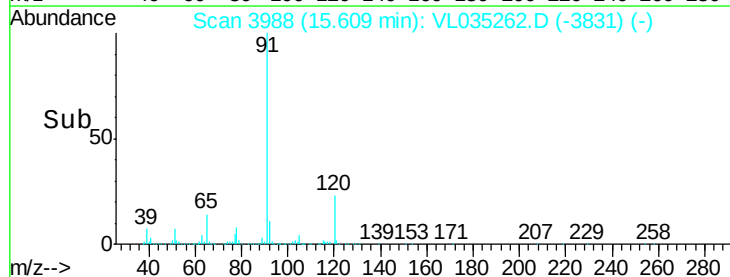
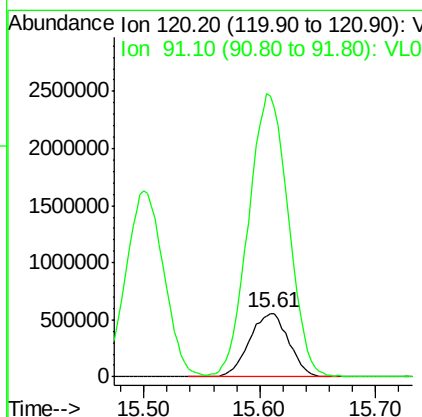
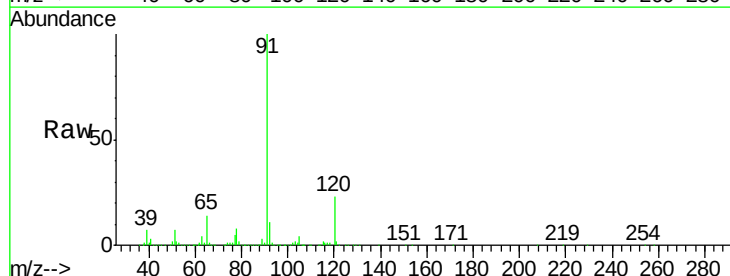
Manual Integrations
 APPROVED

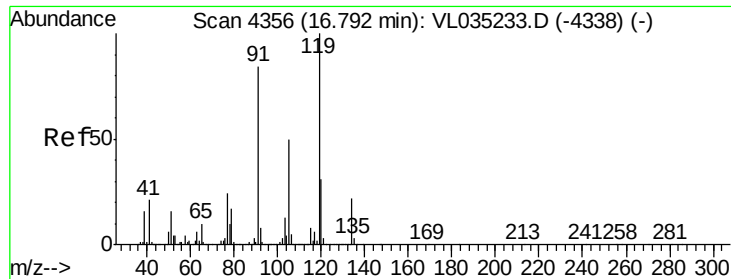
MMDadoda
 7/30/2020 6:11:36 PM



#64
 n-propylbenzene
 Concen: 10.655 ppbv
 RT: 15.61 min Scan# 3988
 Delta R.T. 0.00 min
 Lab File: VL035262.D
 Acq: 30 Jul 2020 1:31

Tgt Ion	120	Resp	1309686
Ion Ratio	100	Lower	Upper
120	100		
91	453.7	367.5	551.3





#65

tert-Butylbenzene

Concen: 10.274 ppbv

RT: 16.80 min Scan# 4357

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 4302682

Ion Ratio Lower Upper

119 100

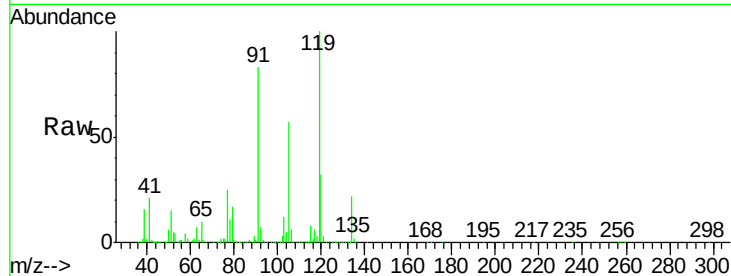
91 84.2 68.0 102.0

134 20.2 16.3 24.5

Manual Integrations
APPROVED

MMDadoda

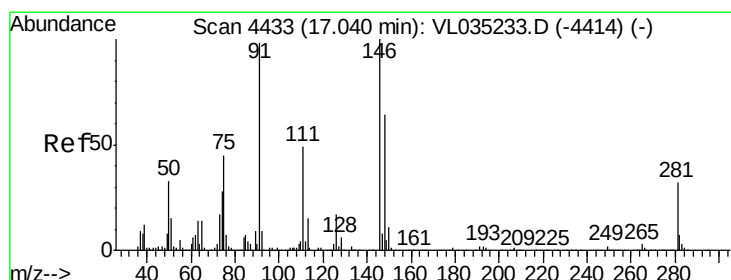
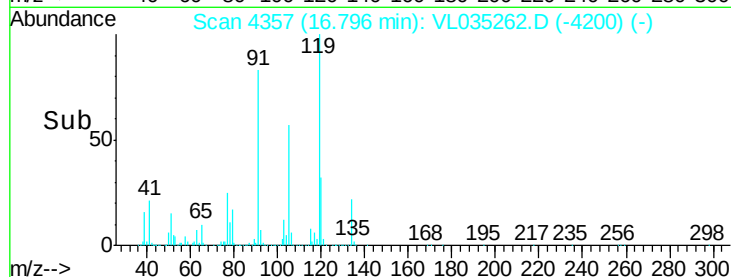
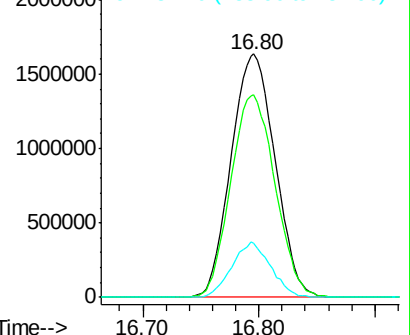
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.191 ppbv

RT: 17.04 min Scan# 4433

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

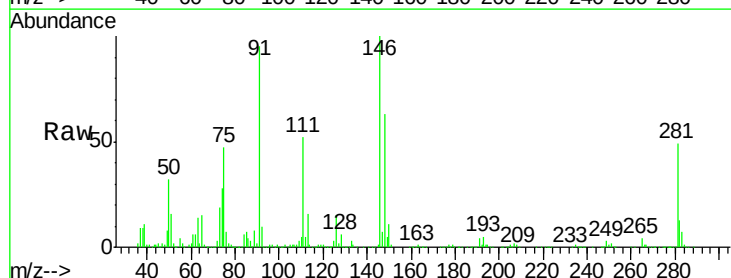
Tgt Ion: 91 Resp: 1671710

Ion Ratio Lower Upper

91 100

126 17.2 14.1 21.1

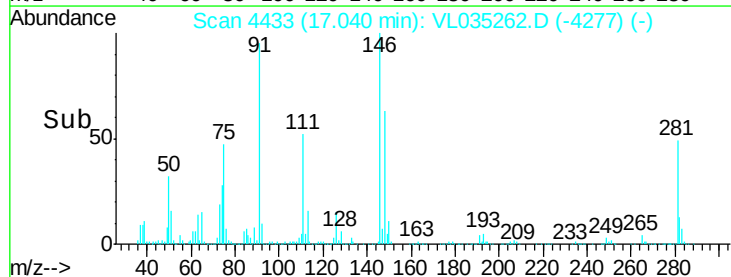
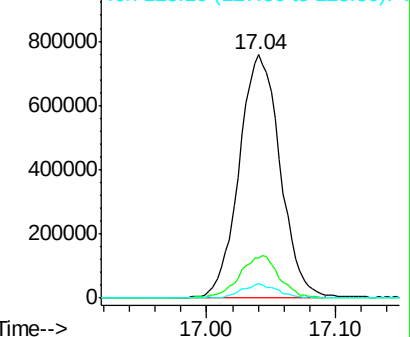
128 5.3 4.4 6.6

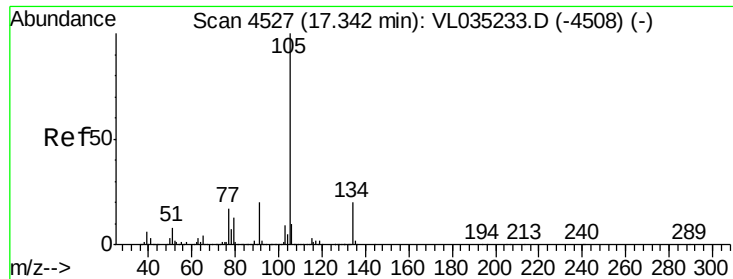


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 10.039 ppbv

RT: 17.34 min Scan# 4527

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 6143077

Ion Ratio Lower Upper

105 100

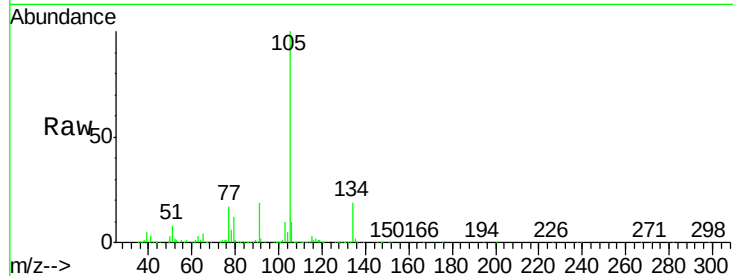
134 18.7 15.0 22.4

Manual Integrations

APPROVED

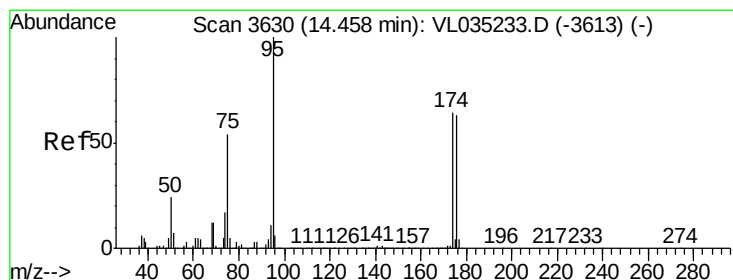
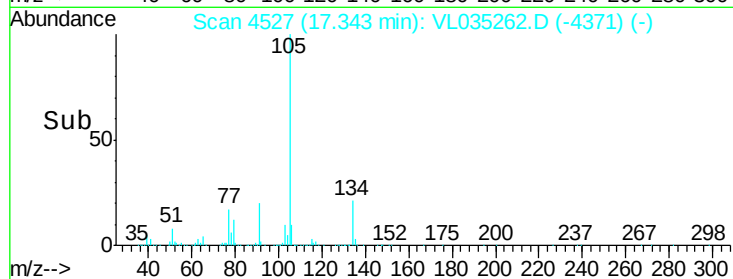
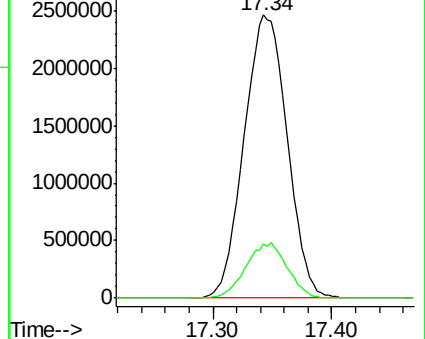
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.747 ppbv

RT: 14.46 min Scan# 3631

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

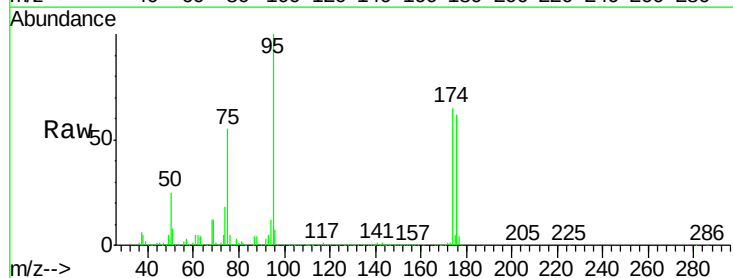
Tgt Ion: 95 Resp: 2459082

Ion Ratio Lower Upper

95 100

174 66.2 52.7 79.1

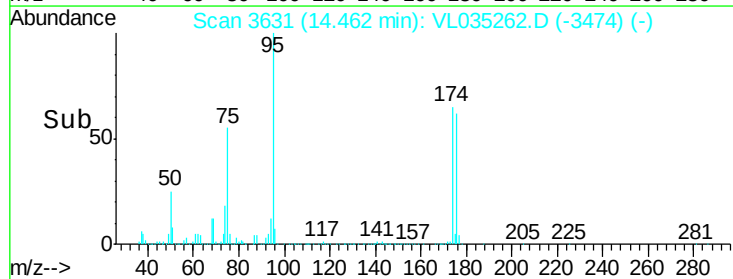
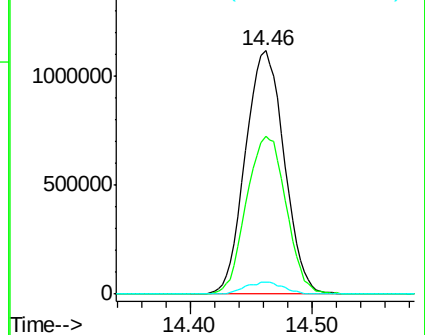
175 4.9 3.9 5.9

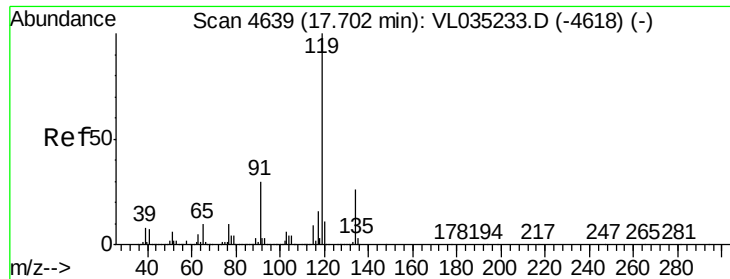


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





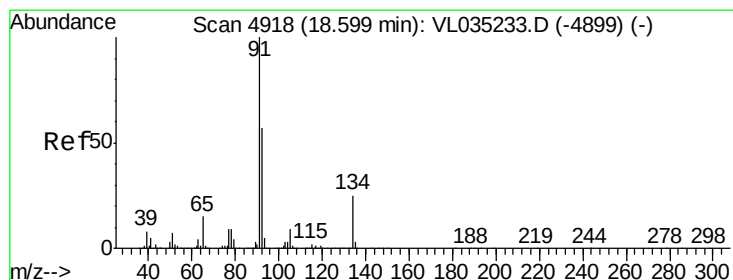
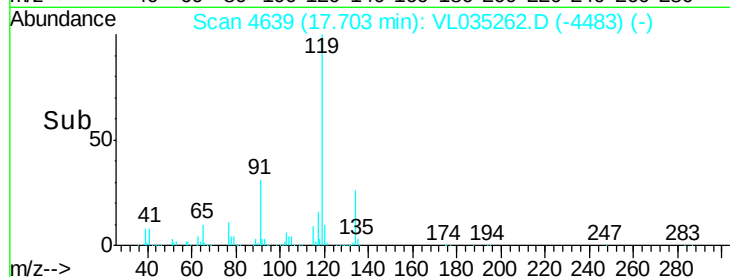
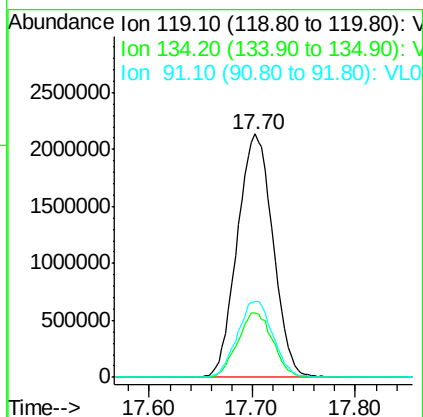
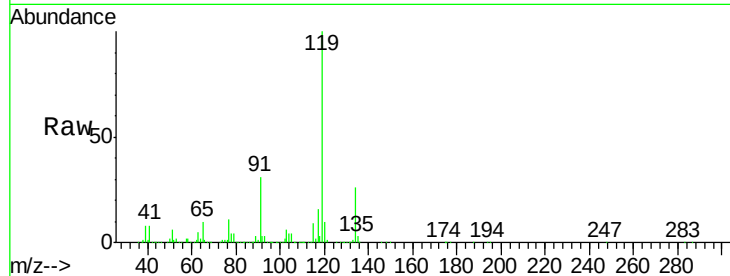
#69
 p-Isopropyltoluene
 Concen: 10.288 ppbv
 RT: 17.70 min Scan# 4639
 Delta R.T. 0.00 min
 Lab File: VL035262.D
 Acq: 30 Jul 2020 1:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.1	20.8	31.2
91	31.2	24.7	37.1

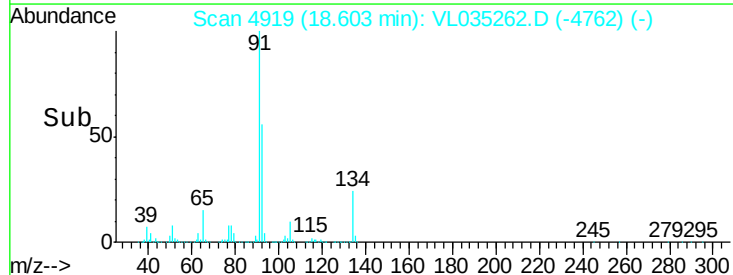
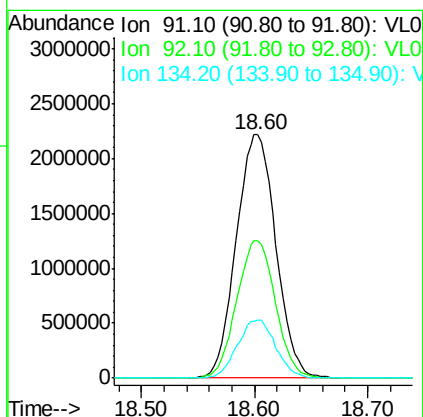
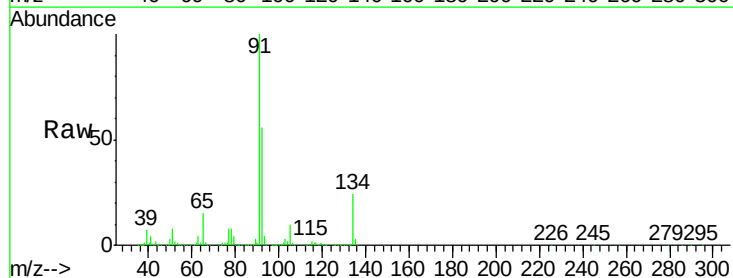
Manual Integrations
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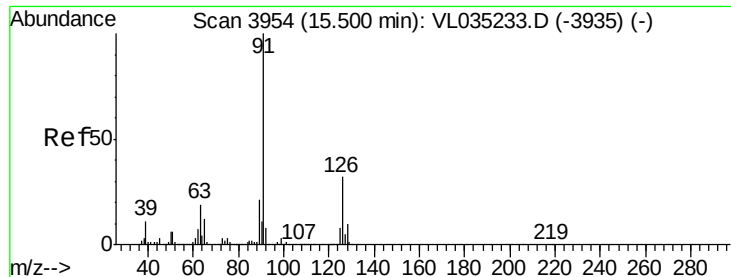
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 7/30/2020 6:11:36 PM



#70
 n-Butylbenzene
 Concen: 9.976 ppbv
 RT: 18.60 min Scan# 4919
 Delta R.T. 0.00 min
 Lab File: VL035262.D
 Acq: 30 Jul 2020 1:31

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.5	44.9	67.3
134	23.2	18.6	28.0





#71

2-Chlorotoluene

Concen: 10.654 ppbv

RT: 15.50 min Scan# 3954

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3713873

Ion Ratio Lower Upper

91 100

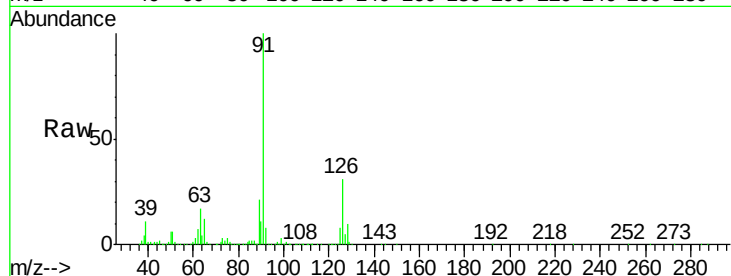
126 30.5 12.3 49.1

Manual Integrations

APPROVED

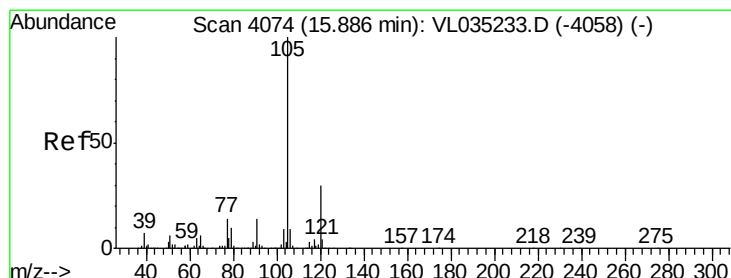
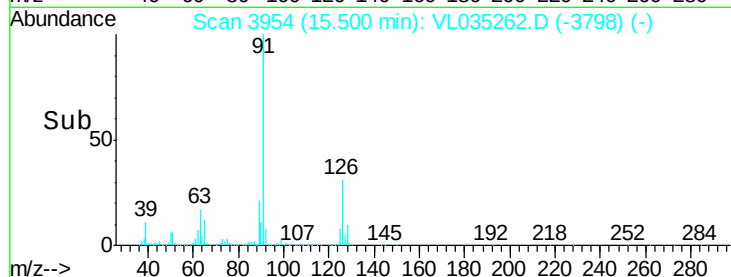
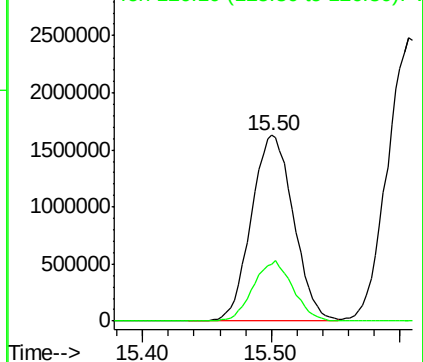
MMDadoda

7/30/2020 6:11:36 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 11.185 ppbv

RT: 15.89 min Scan# 4074

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Tgt Ion: 105 Resp: 3910106

Ion Ratio Lower Upper

105 100

120 29.5 23.6 35.4

91 13.4 11.0 16.6

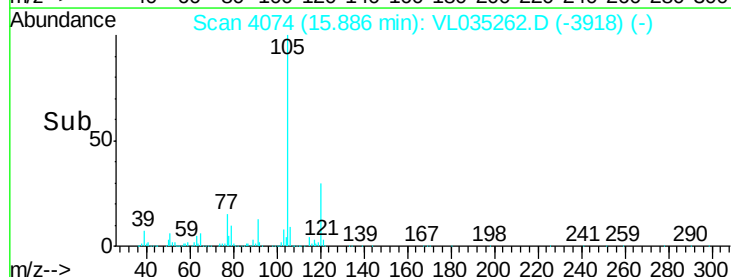
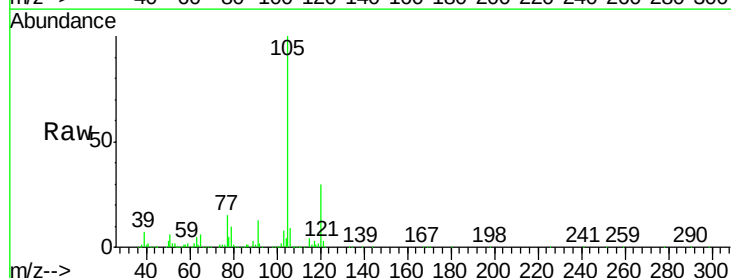
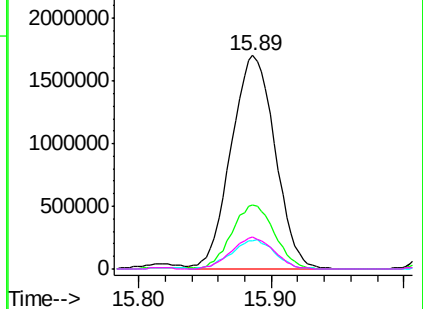
77 14.5 11.7 17.5

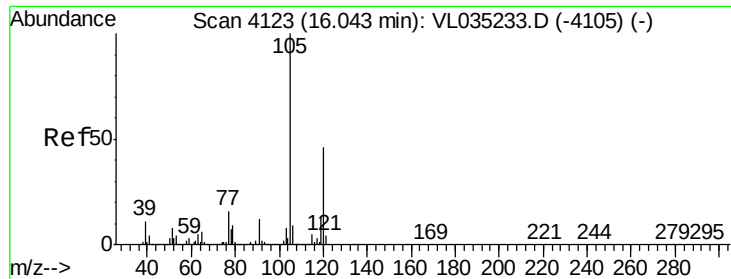
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 10.653 ppbv

RT: 16.04 min Scan# 4123

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3631691

Ion Ratio Lower Upper

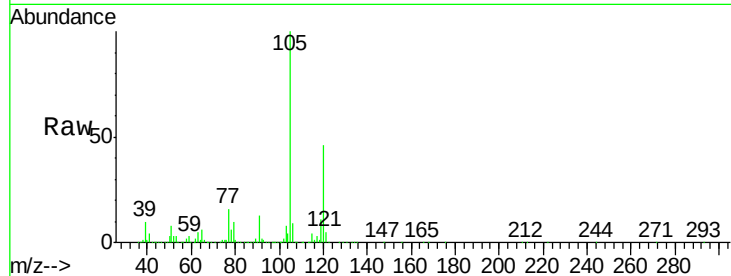
105 100

120 46.4 36.8 55.2

Manual Integrations
APPROVED

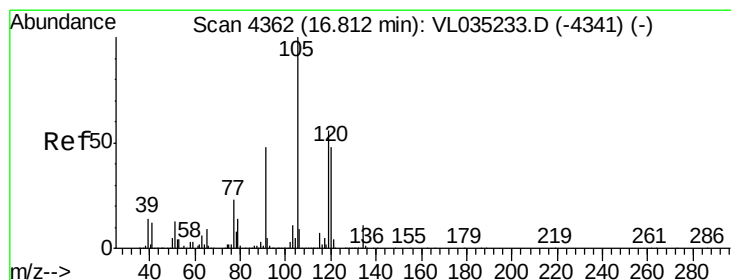
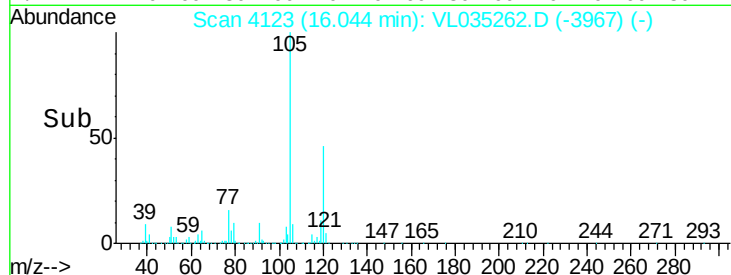
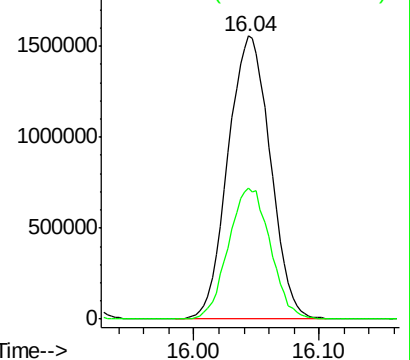
MMDadoda

7/30/2020 6:11:36 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.747 ppbv

RT: 16.81 min Scan# 4362

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Tgt Ion:105 Resp: 3868384

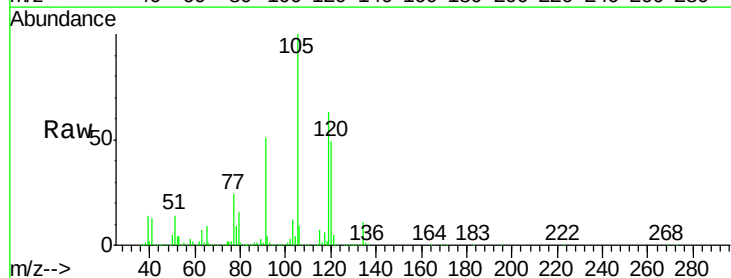
Ion Ratio Lower Upper

105 100

120 49.2 38.8 58.2

91 50.8 38.9 58.3

77 24.1 18.4 27.6

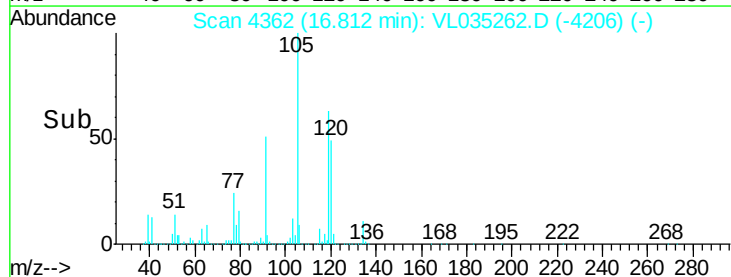
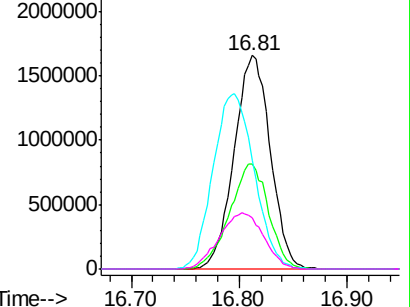


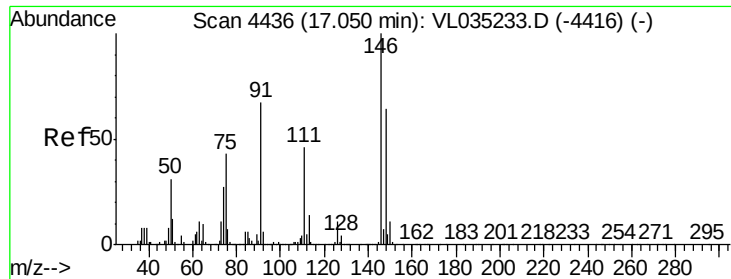
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





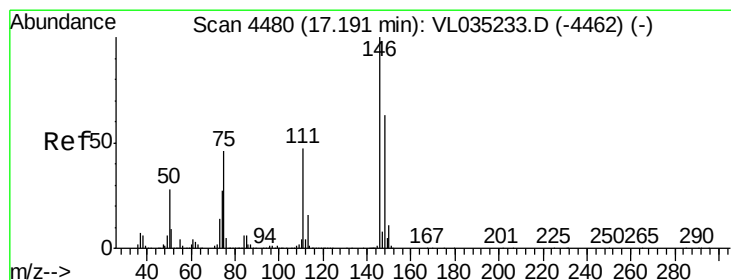
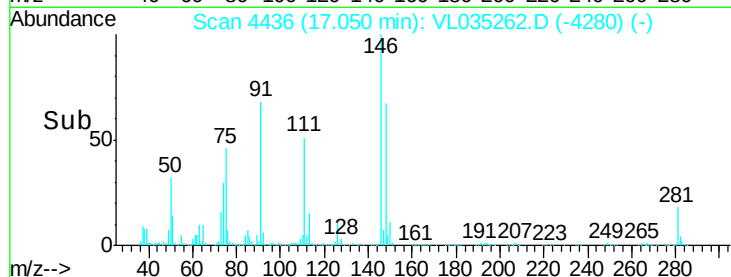
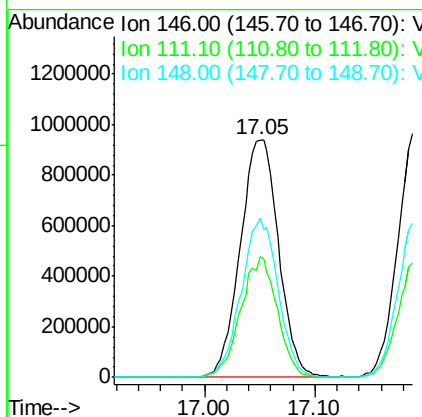
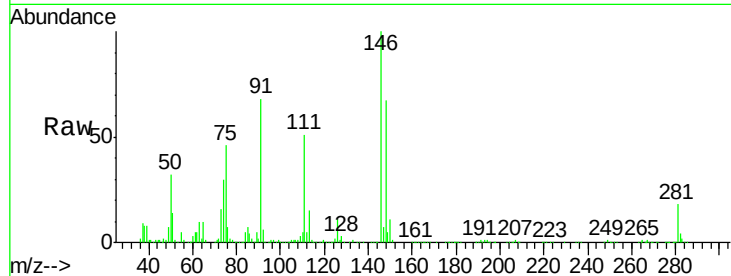
#75
 1,3-Dichlorobenzene
 Concen: 8.819 ppbv
 RT: 17.05 min Scan# 4436
 Delta R.T. 0.00 min
 Lab File: VL035262.D
 Acq: 30 Jul 2020 1:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 2259888
 Ion Ratio Lower Upper
 146 100
 111 48.5 24.4 73.4
 148 64.8 32.1 96.5

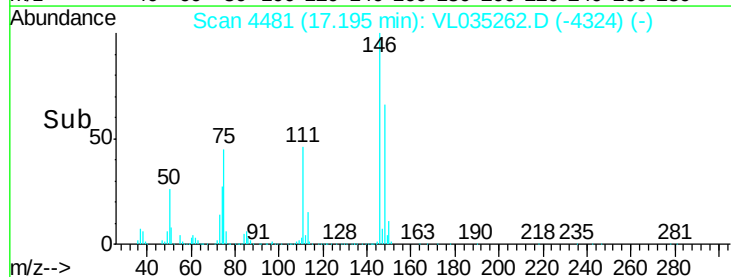
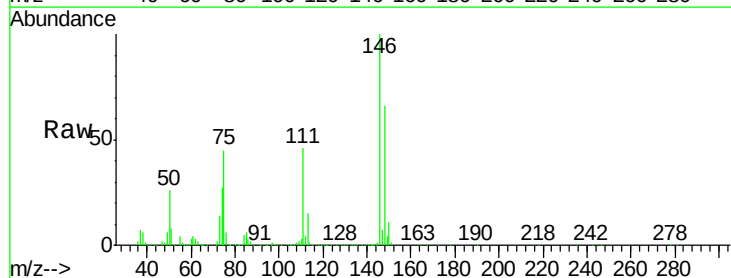
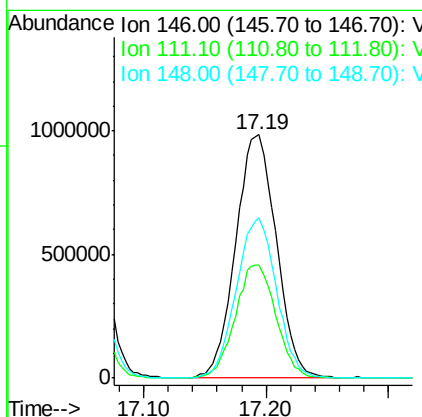
Manual Integrations
 APPROVED

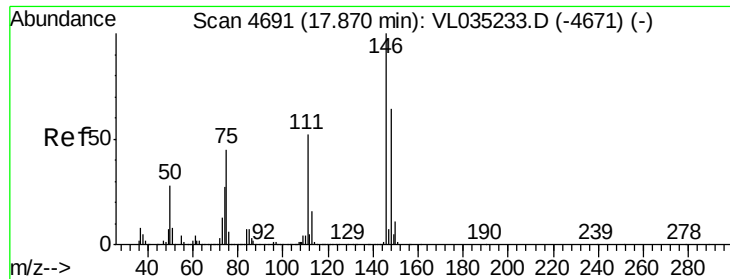
MMDadoda
 7/30/2020 6:11:36 PM



#76
 1,4-Dichlorobenzene
 Concen: 9.703 ppbv
 RT: 17.19 min Scan# 4481
 Delta R.T. 0.00 min
 Lab File: VL035262.D
 Acq: 30 Jul 2020 1:31

Tgt Ion:146 Resp: 2249129
 Ion Ratio Lower Upper
 146 100
 111 47.0 23.4 70.2
 148 65.7 32.2 96.6





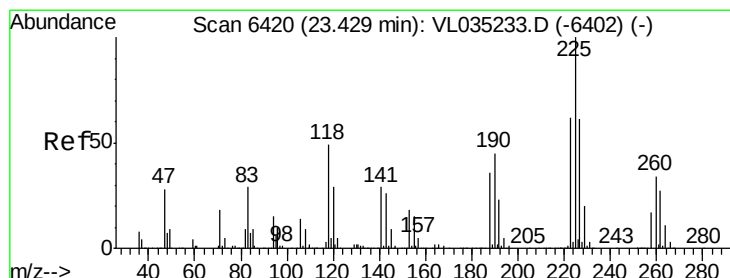
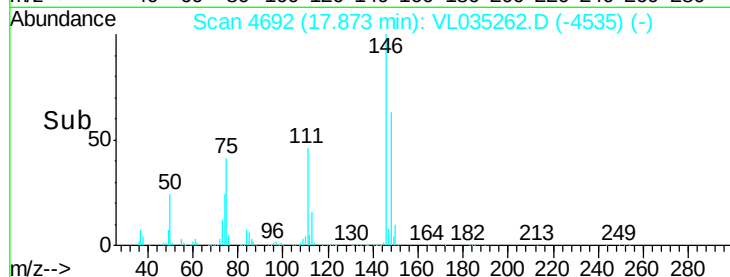
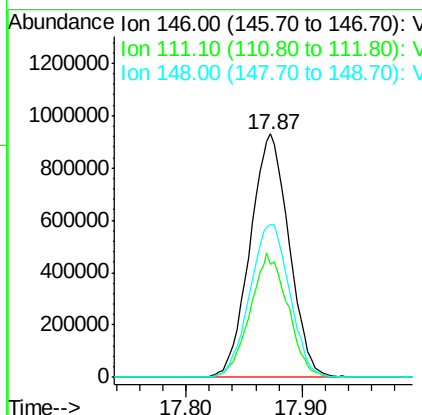
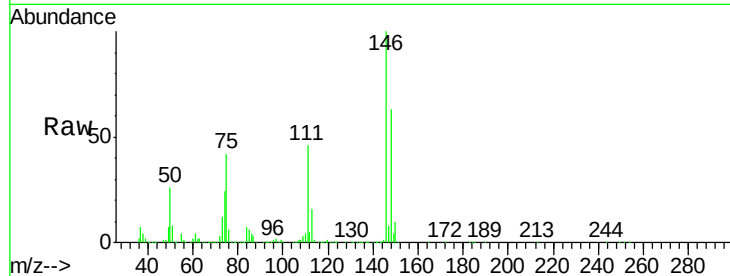
#77
 1,2-Dichlorobenzene
 Concen: 9.467 ppbv
 RT: 17.87 min Scan# 4692
 Delta R.T. 0.00 min
 Lab File: VL035262.D
 Acq: 30 Jul 2020 1:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 2172928
 Ion Ratio Lower Upper
 146 100
 111 49.2 24.6 73.8
 148 64.2 32.0 96.0

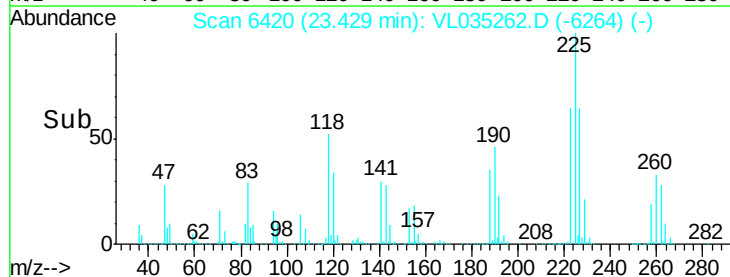
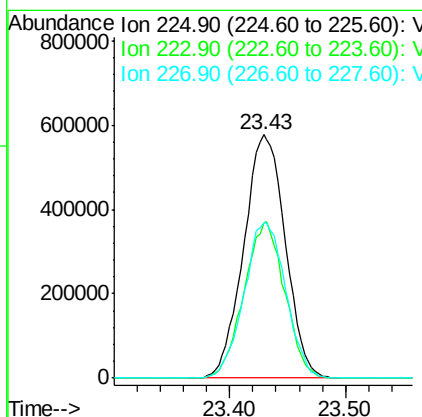
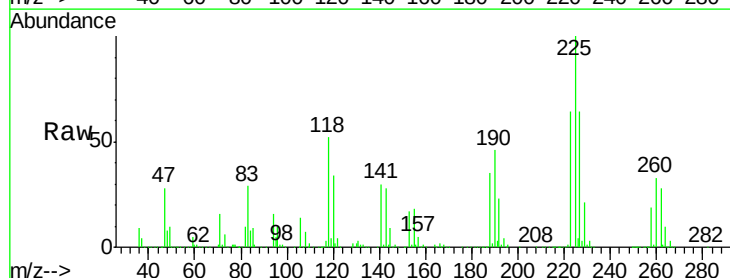
Manual Integrations
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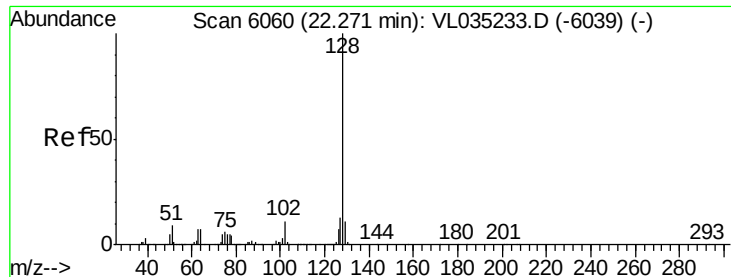
MMDadoda
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#78
 Hexachloro-1,3-Butadiene
 Concen: 7.652 ppbv
 RT: 23.43 min Scan# 6420
 Delta R.T. 0.00 min
 Lab File: VL035262.D
 Acq: 30 Jul 2020 1:31

Tgt Ion:225 Resp: 1437676
 Ion Ratio Lower Upper
 225 100
 223 62.7 51.3 76.9
 227 64.2 51.4 77.2





#79

Naphthalene

Concen: 9.704 ppbv

RT: 22.27 min Scan# 6060

Delta R.T. 0.00 min

Lab File: VL035262.D

Acq: 30 Jul 2020 1:31

Instrument :

MSVOA_L

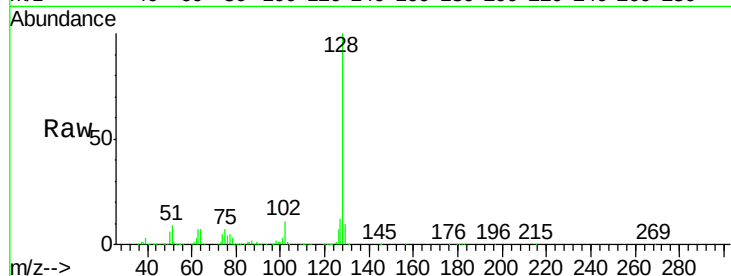
ClientSampleId :

VSTDCCC010EC

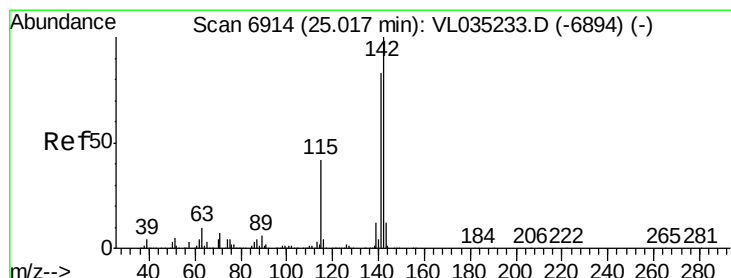
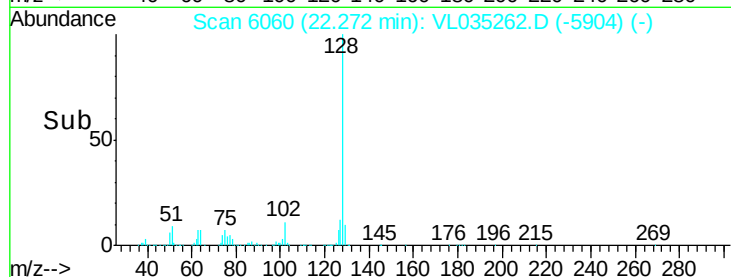
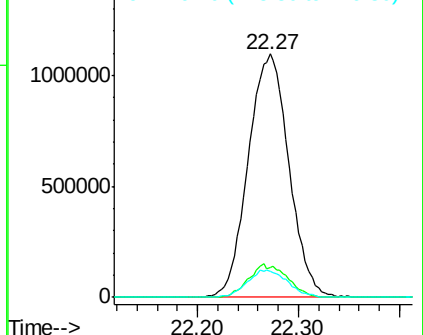
Tot Ion:	128	Resp:	3062366
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.4	15.6
129	10.5	8.5	12.7

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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 8.472 ppbv

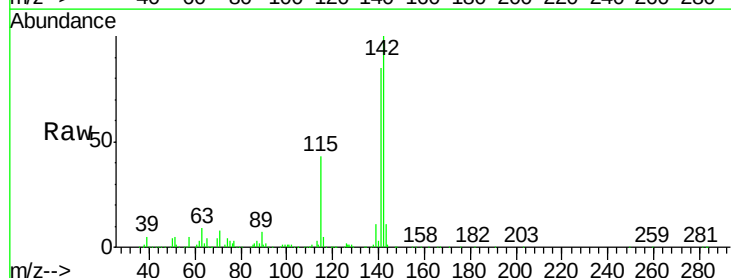
RT: 25.02 min Scan# 6915

Delta R.T. 0.00 min

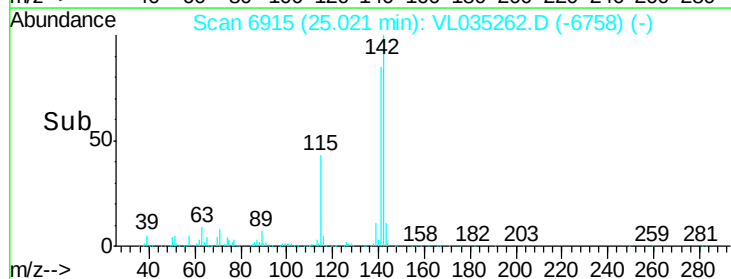
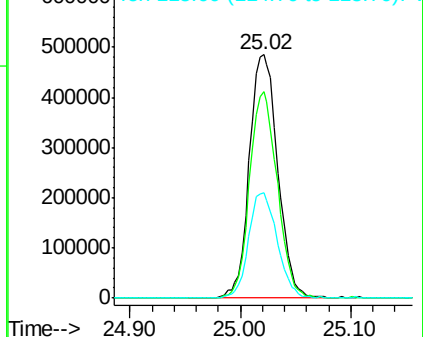
Lab File: VL035262.D

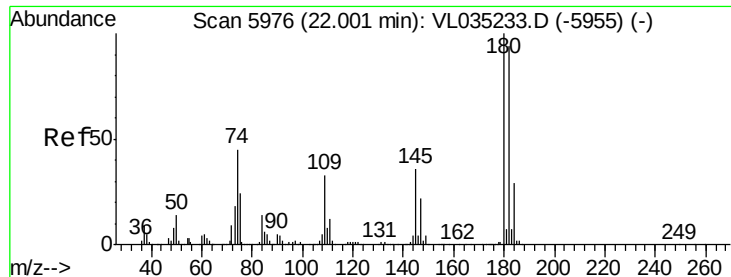
Acq: 30 Jul 2020 1:31

Tgt Ion:	142	Resp:	865299
Ion	Ratio	Lower	Upper
142	100		
141	83.1	68.6	103.0
115	43.7	34.5	51.7



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 9.137 ppbv
 RT: 22.00 min Scan# 5974
 Delta R.T. -0.01 min
 Lab File: VL035262.D
 Acq: 30 Jul 2020 1:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.7	115.1
184	31.1	24.7	37.1

Manual Integrations
 APPROVED

MMDadoda
 7/30/2020 6:11:36 PM

