

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020420\
 Data File : VL034579.D
 Acq On : 4 Feb 2020 13:56
 Operator : SY/AP
 Sample : VL0204ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

Manual Integrations
 APPROVED

MMDadoda
 2/5/2020 2:50:09 PM

Quant Time: Feb 05 06:06:48 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30

QLast Update : Thu Jan 30 17:16:44 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1156404	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2338807	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.13	117	2562070	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2072131	9.57	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.02	85	2175309	8.541 ppbv	97
3) Chlorodifluoromethane	2.96	51	1300223	9.305 ppbv	99
4) Chloromethane	3.11	50	692913	8.105 ppbv	96
5) Vinyl Chloride	3.23	62	687915	8.424 ppbv	98
6) Bromomethane	3.45	94	405845	9.555 ppbv	97
7) Chloroethane	3.53	64	262885	8.657 ppbv	99
8) Dichlorotetrafluoroethane	3.16	85	1697355	8.526 ppbv	99
9) Propene	2.98	41	467498	8.593 ppbv	98
10) Heptane	8.15	43	1293105	9.444 ppbv	100
11) Trichlorofluoromethane	3.93	101	2004284	8.662 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1337634	8.861 ppbv	99
13) Ethanol	3.58	45	122599	8.413 ppbv	97
14) Bromoethene	3.72	108	521524	8.807 ppbv	99
15) Acetone	3.83	43	1522651	8.959 ppbv	99
16) 1,3-Butadiene	3.30	39	618815	9.169 ppbv	99
17) tert-Butyl alcohol	4.28	59	1094596	8.758 ppbv	100
18) 1,1-Dichloroethene	4.28	96	596319	9.357 ppbv	100
19) Isopropyl Alcohol	3.95	45	848272	8.553 ppbv	99
20) Methylene Chloride	4.33	84	511769	7.908 ppbv	97
21) Allyl Chloride	4.40	41	948514	8.986 ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	581234	8.709 ppbv	95
23) Vinyl Acetate	5.07	43	1893660	9.766 ppbv	99
24) 1,1-Dichloroethane	5.01	63	1432851	8.851 ppbv	98
25) Ethyl Acetate	5.68	43	2332786	8.478 ppbv	99
26) Hexane	5.69	57	1016511	8.820 ppbv	97
27) Carbon Disulfide	4.54	76	1467490	9.437 ppbv	100
28) Methyl tert-Butyl Ether	5.03	73	1853767	9.432 ppbv	99
29) Chloroform	5.76	83	1760935	8.641 ppbv	97
30) Cyclohexane	7.15	84	808677m	9.469 ppbv	
31) cis-1,2-Dichloroethene	5.56	61	1092055	9.120 ppbv	96
32) 1,1,1-Trichloroethane	6.53	97	1866092	8.528 ppbv	99
34) 2-Butanone	5.24	43	1510928	8.897 ppbv	99
35) Carbon Tetrachloride	7.04	117	1985227	8.878 ppbv	96
36) Benzene	6.91	78	1936988	9.313 ppbv	98
37) 1,2-Dichloroethane	6.32	62	1543676	8.896 ppbv	100
38) Trichloroethene	7.86	130	807158	9.206 ppbv	96
39) 1,2-Dichloropropane	7.64	63	791496	9.180 ppbv	97
40) 1,4-Dioxane	7.86	88	298769m	9.014 ppbv	
41) Tetrahydrofuran	6.06	42	822300	9.282 ppbv	99
42) Bromodichloromethane	7.82	83	1956248	9.160 ppbv	98
43) Methyl Methacrylate	8.04	69	814910	9.741 ppbv	99

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Quant Time: Feb 05 06:06:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30
 QLast Update : Thu Jan 30 17:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3468238	9.191	ppbv	99
45) t-1,3-Dichloropropene	9.31	75	1106208	10.099	ppbv	96
46) cis-1,3-Dichloropropene	8.74	75	1227346	9.858	ppbv	97
47) 1,1,2-Trichloroethane	9.51	97	859836	9.207	ppbv	98
48) Dibromochloromethane	10.35	129	1663548	9.721	ppbv	100
49) Bromoform	13.10	173	1484051	9.878	ppbv	100
50) 4-Methyl-2-Pentanone	8.77	43	2263728	9.347	ppbv	100
51) 2-Hexanone	10.16	43	1847331	9.690	ppbv	100
52) Tetrachloroethene	11.27	164	763760	9.141	ppbv	98
53) Toluene	9.84	91	2260710	9.894	ppbv	100
54) 1,2-Dibromoethane	10.65	107	1358796	9.710	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.17	131	1130067	8.934	ppbv	96
57) Chlorobenzene	12.19	112	1792886	8.504	ppbv	98
58) Ethyl Benzene	12.75	91	3170283	9.247	ppbv	95
59) m/p-Xylene	13.04	91	5366828m	17.708	ppbv	
60) o-Xylene	13.74	91	2746906	9.025	ppbv	99
61) Styrene	13.57	104	1903174	9.378	ppbv	99
62) Isopropylbenzene	14.72	105	3583412	9.085	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.73	83	1961688	8.334	ppbv	99
64) n-propylbenzene	15.61	120	931606	9.181	ppbv	95
65) tert-Butylbenzene	16.80	119	3314456	9.276	ppbv	100
66) Benzyl Chloride	17.05	91	1573975	10.505	ppbv	100
67) sec-Butylbenzene	17.35	105	4516638	9.197	ppbv	99
69) p-Isopropyltoluene	17.71	119	3787017	9.497	ppbv	99
70) n-Butylbenzene	18.61	91	3948106	9.328	ppbv	100
71) 2-Chlorotoluene	15.51	91	2797134	9.343	ppbv	99
72) 4-Ethyltoluene	15.89	105	3060564	9.154	ppbv	100
73) 1,3,5-Trimethylbenzene	16.05	105	3022167	9.251	ppbv	98
74) 1,2,4-Trimethylbenzene	16.82	105	3162334	8.744	ppbv #	88
75) 1,3-Dichlorobenzene	17.06	146	1759631	8.450	ppbv	99
76) 1,4-Dichlorobenzene	17.20	146	1746012	8.507	ppbv	99
77) 1,2-Dichlorobenzene	17.88	146	1725986	8.628	ppbv	100
78) Hexachloro-1,3-Butadiene	23.44	225	1455311	7.608	ppbv	100
79) Naphthalene	22.28	128	2480323	8.711	ppbv	99
80) Naphthalene, 2-methyl-	25.02	142	563810	5.147	ppbv	99
81) 1,2,4-Trichlorobenzene	22.00	180	1422676	8.105	ppbv	99

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

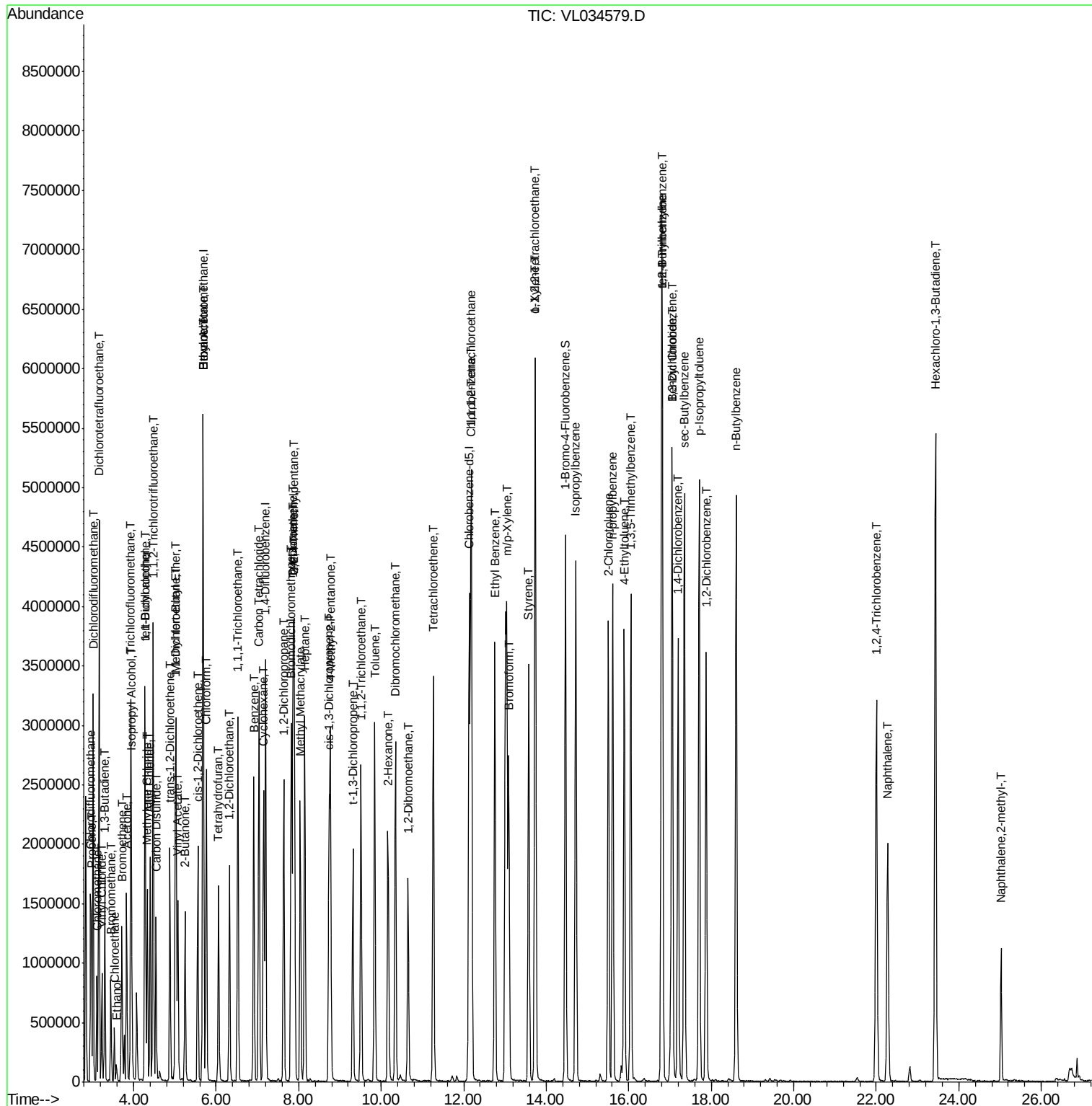
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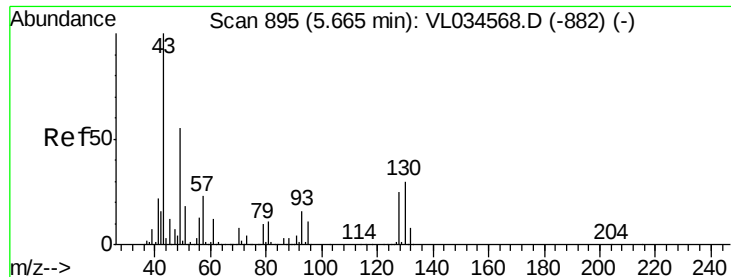
Instrument :
MSVOA_L
ClientSampleId :
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

Tot Ion: 49 Resp: 1156404

Ion Ratio Lower Upper

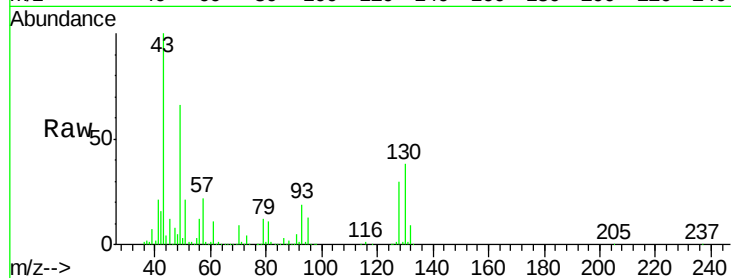
49 100

128 45.7 22.7 68.1

130 58.2 28.6 85.8

Manual Integrations
APPROVED

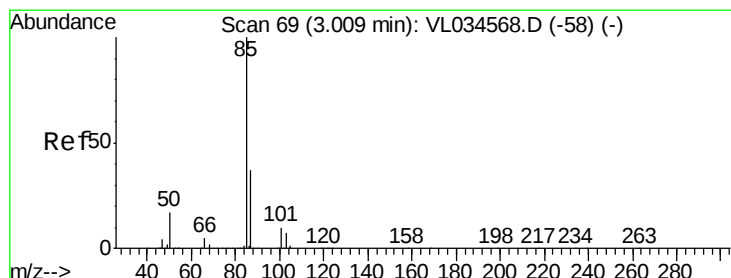
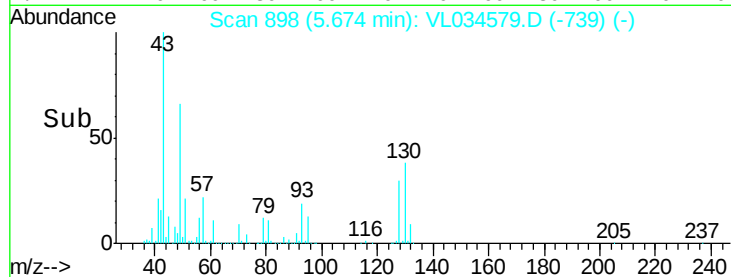
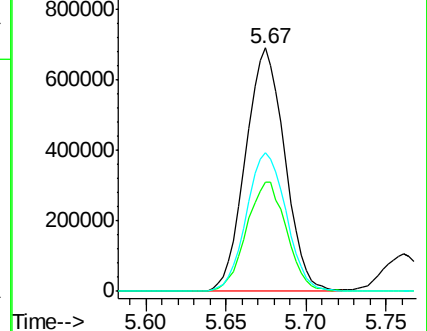
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 8.541 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL034579.D

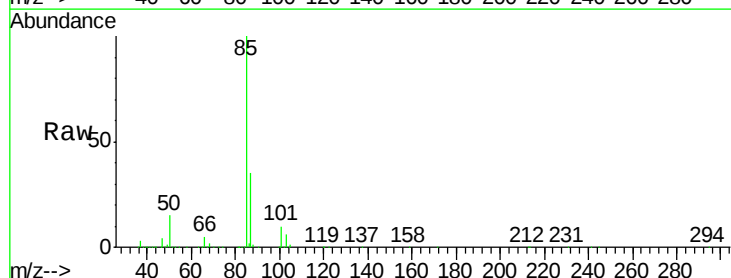
Acq: 4 Feb 2020 13:56

Tgt Ion: 85 Resp: 2175309

Ion Ratio Lower Upper

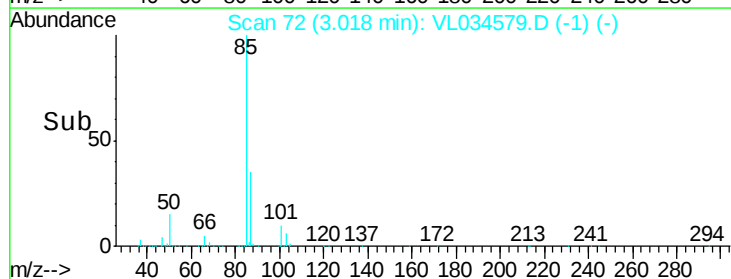
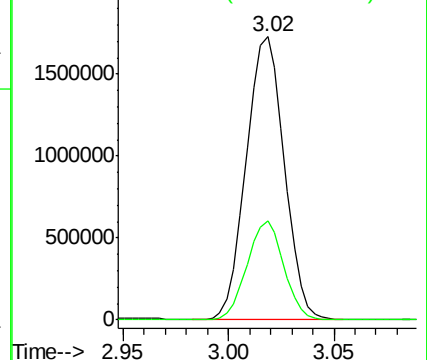
85 100

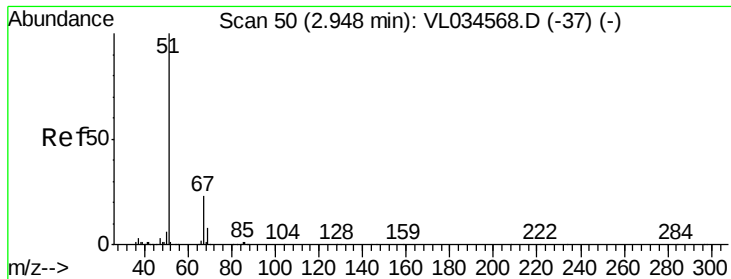
87 35.2 29.5 44.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

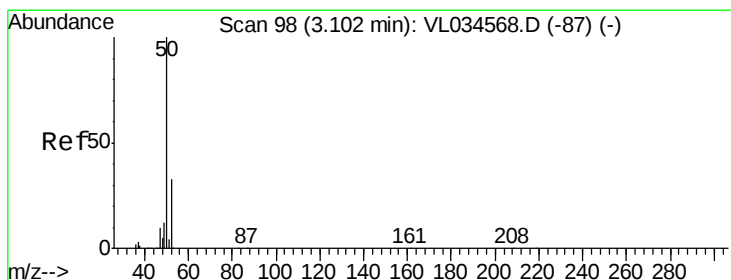
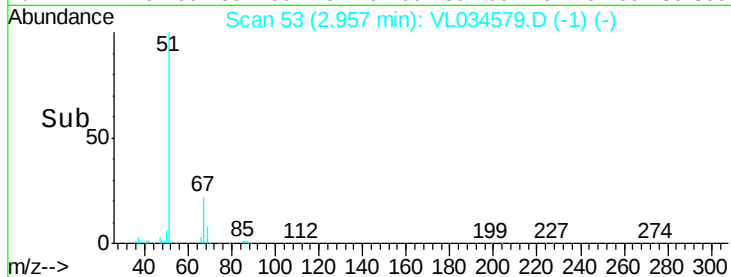
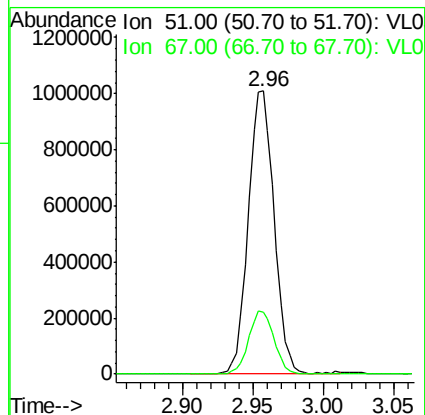
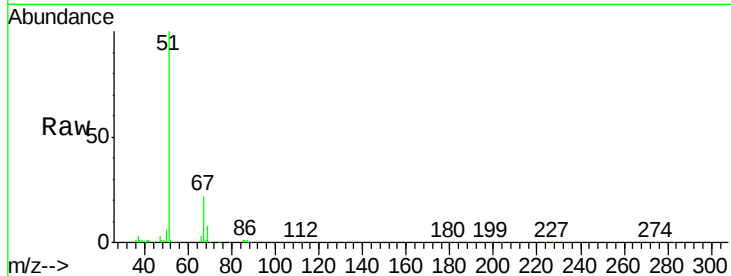
Chlorodifluoromethane
Concen: 9.305 ppbv
RT: 2.96 min Scan# 53
Delta R.T. 0.01 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL0204ABS01

Tot Ion: 51 Resp: 1300223
Ion Ratio Lower Upper
51 100
67 21.9 17.8 26.8

Manual Integrations
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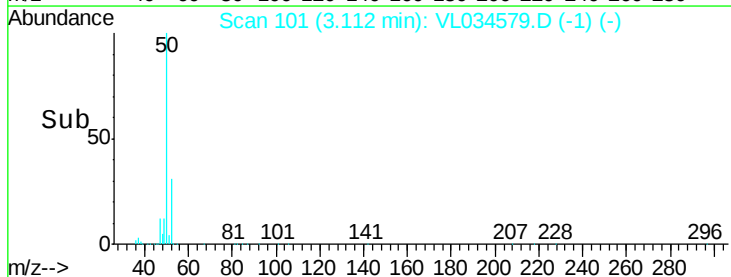
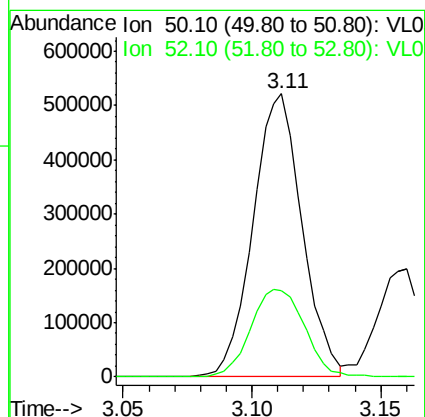
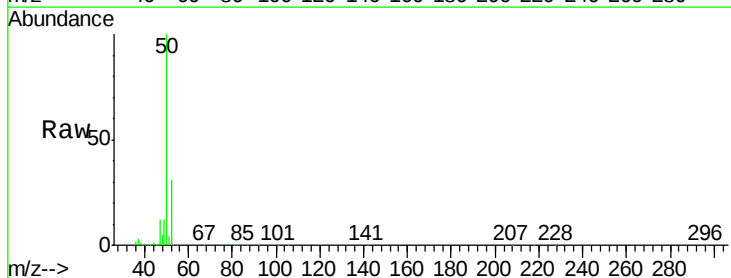
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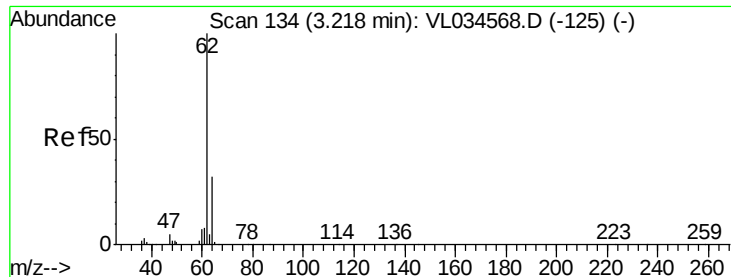


#4

Chloromethane
Concen: 8.105 ppbv
RT: 3.11 min Scan# 101
Delta R.T. 0.01 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Tgt Ion: 50 Resp: 692913
Ion Ratio Lower Upper
50 100
52 30.7 26.6 39.8





#5

Vinyl Chloride

Concen: 8.424 ppbv

RT: 3.23 min Scan# 137

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

Tot Ion: 62 Resp: 687915

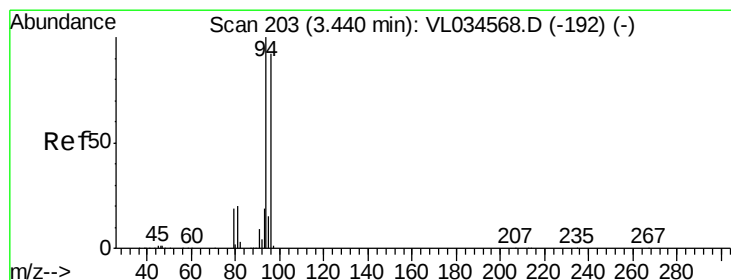
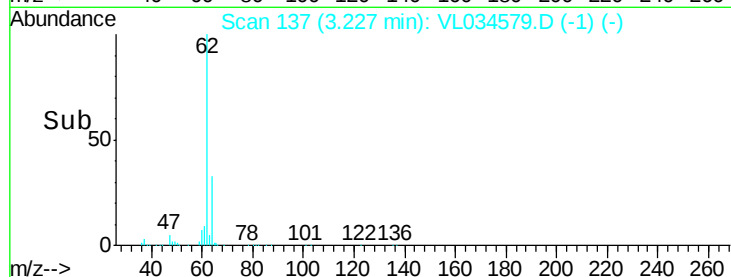
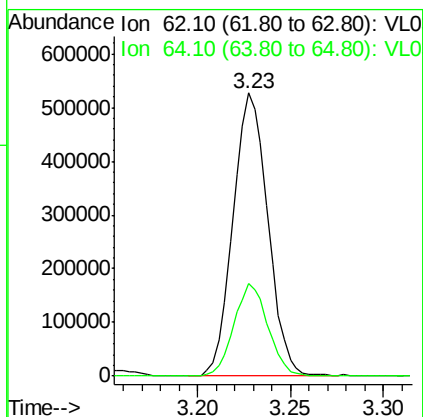
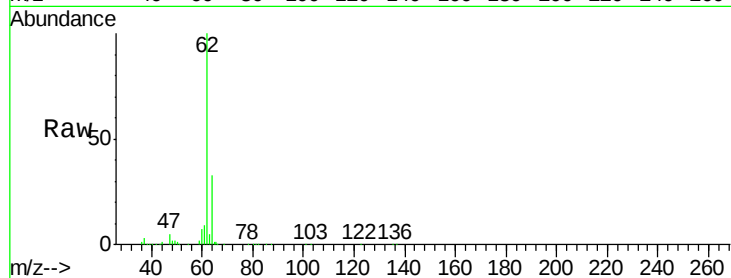
Ion Ratio Lower Upper

62 100

64 33.3 25.8 38.6

Manual Integrations
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#6

Bromomethane

Concen: 9.555 ppbv

RT: 3.45 min Scan# 206

Delta R.T. 0.01 min

Lab File: VL034579.D

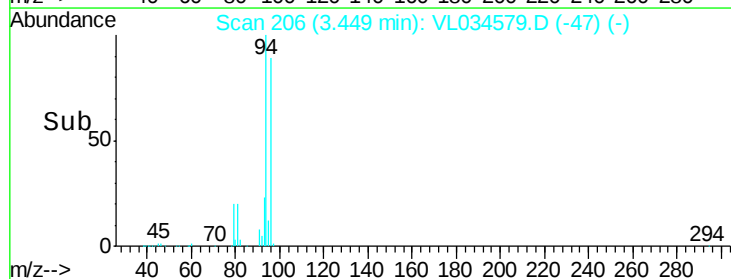
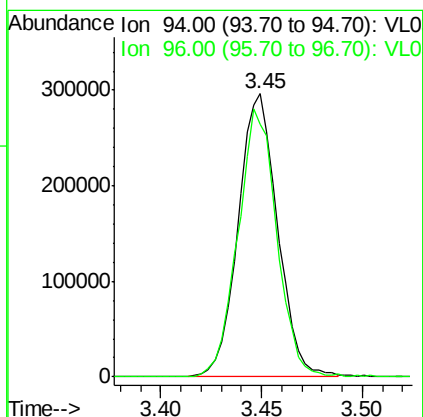
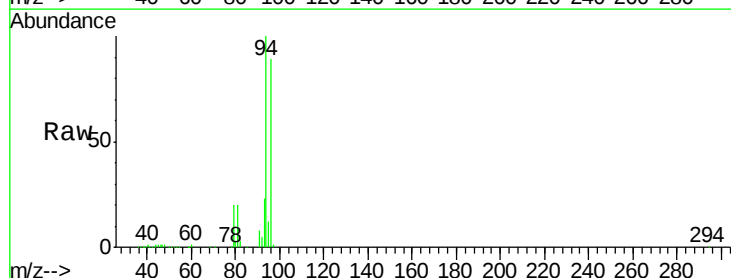
Acq: 4 Feb 2020 13:56

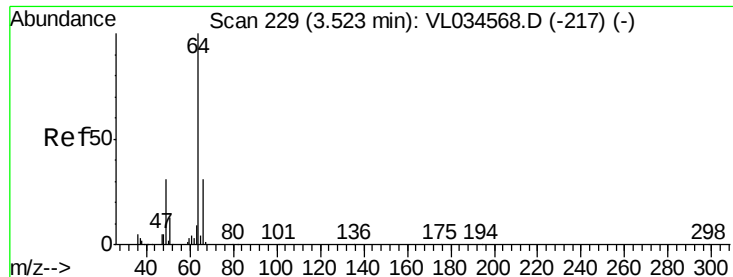
Tgt Ion: 94 Resp: 405845

Ion Ratio Lower Upper

94 100

96 89.4 73.8 110.8





#7

Chloroethane

Concen: 8.657 ppbv

RT: 3.53 min Scan# 232

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

Tot Ion: 64 Resp: 262885

Ion Ratio Lower Upper

64 100

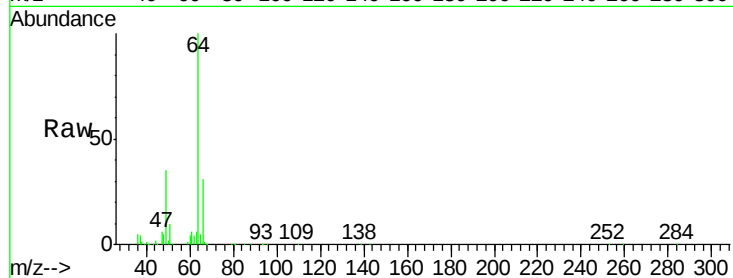
66 32.0 25.0 37.4

Manual Integrations

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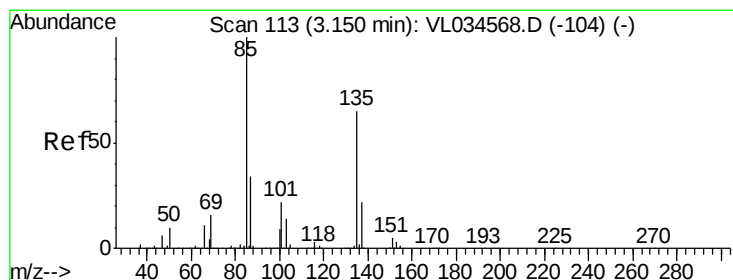
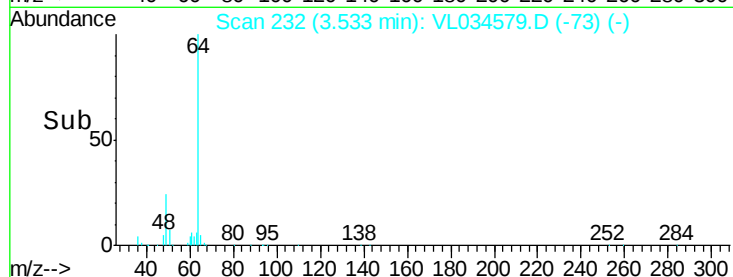
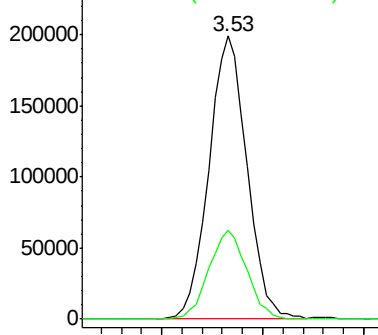
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 8.526 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.01 min

Lab File: VL034579.D

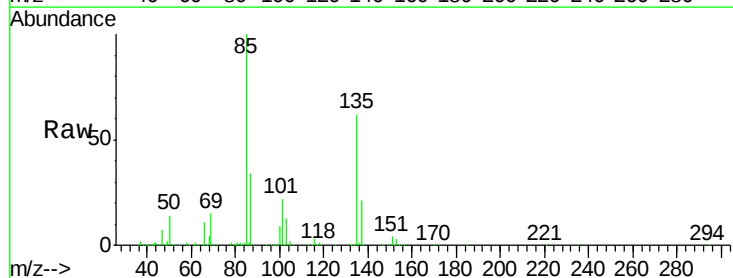
Acq: 4 Feb 2020 13:56

Tgt Ion: 85 Resp: 1697355

Ion Ratio Lower Upper

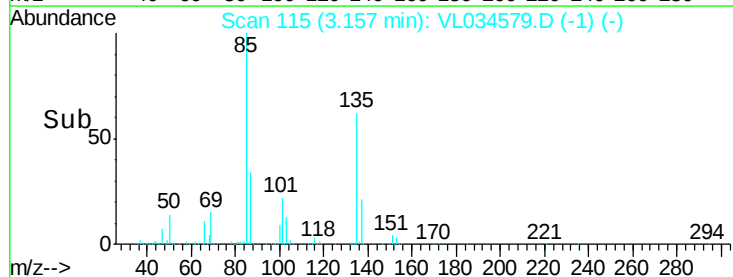
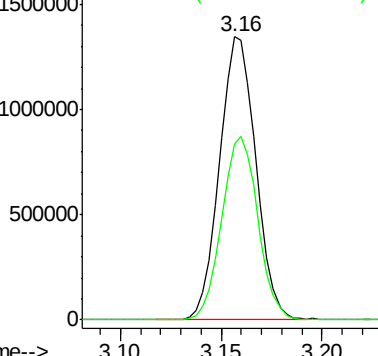
85 100

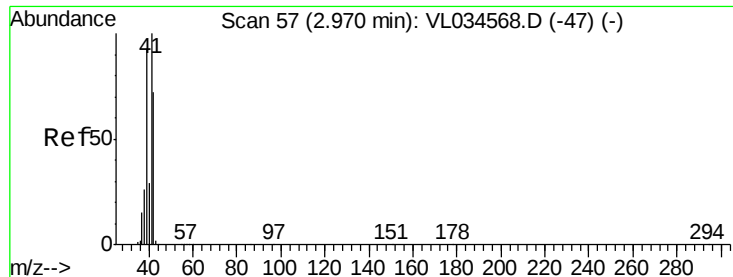
135 64.6 52.2 78.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 8.593 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

Tot Ion: 41 Resp: 467498

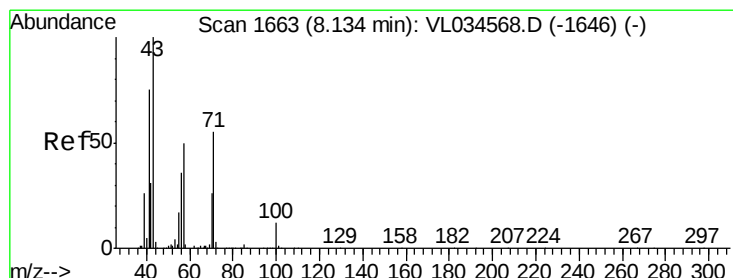
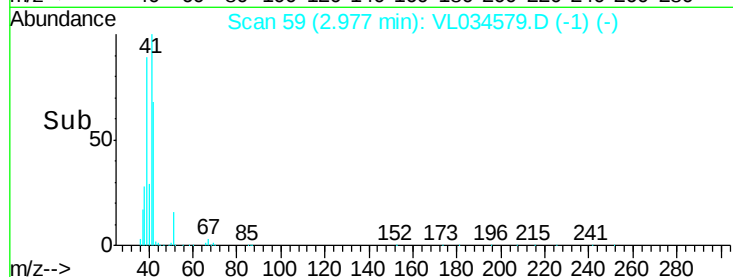
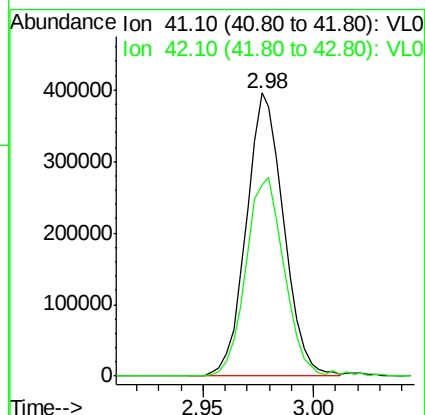
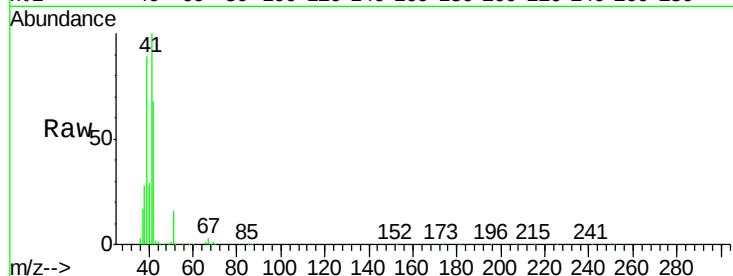
Ion Ratio Lower Upper

41 100

42 73.0 57.0 85.4

Manual Integrations
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#10

Heptane

Concen: 9.444 ppbv

RT: 8.15 min Scan# 1667

Delta R.T. 0.01 min

Lab File: VL034579.D

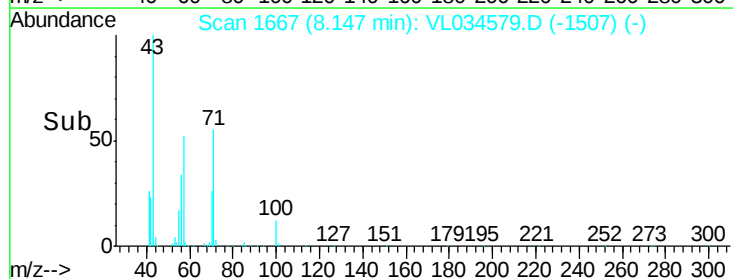
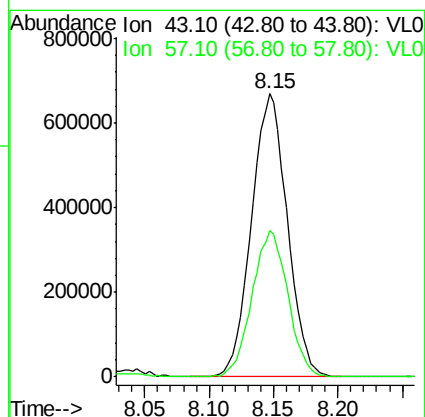
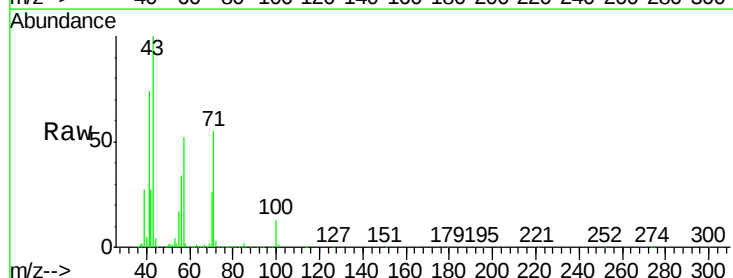
Acq: 4 Feb 2020 13:56

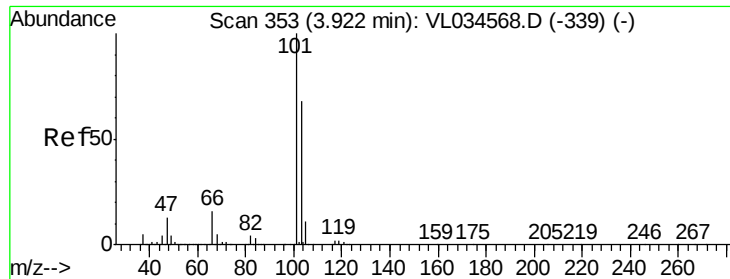
Tgt Ion: 43 Resp: 1293105

Ion Ratio Lower Upper

43 100

57 51.7 41.2 61.8





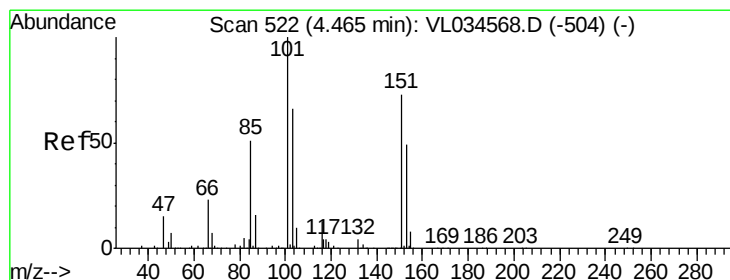
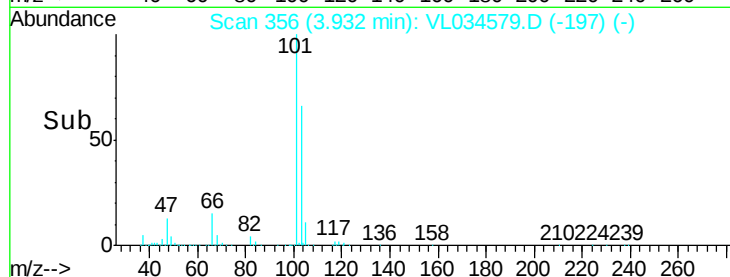
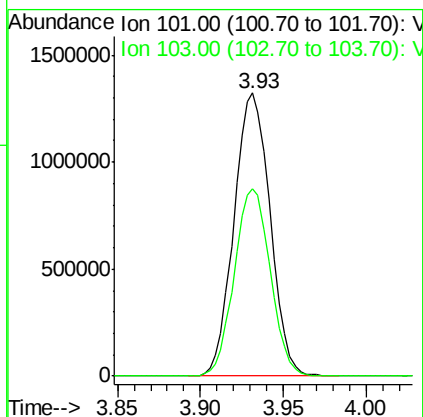
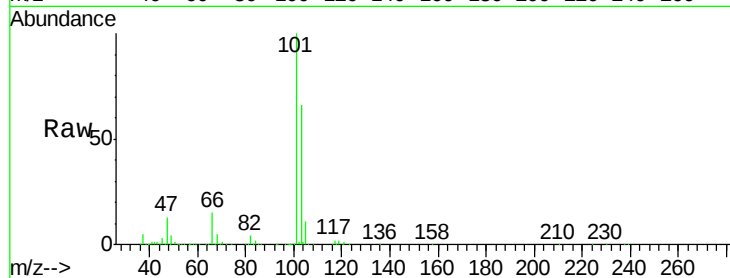
#11
 Trichlorofluoromethane
 Concen: 8.662 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. 0.01 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

Tot Ion:101 Resp: 2004284
 Ion Ratio Lower Upper
 101 100
 103 66.2 54.4 81.6

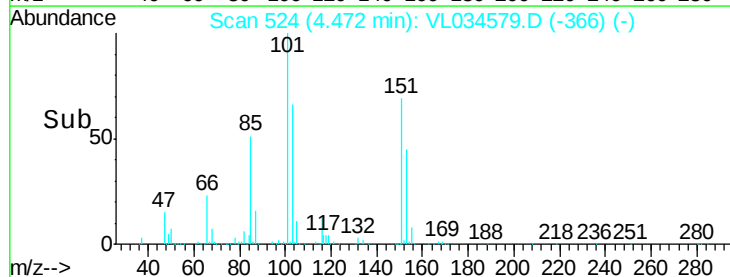
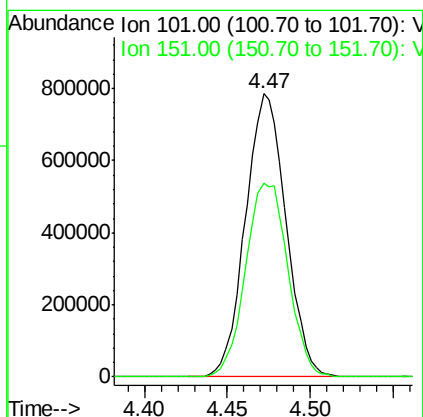
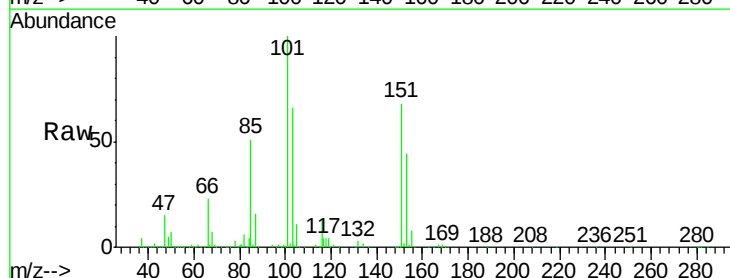
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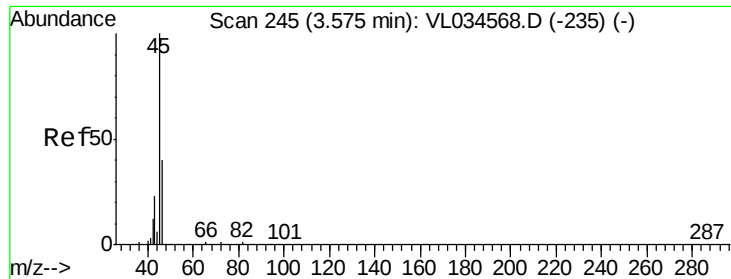
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.861 ppbv
 RT: 4.47 min Scan# 524
 Delta R.T. 0.01 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Tgt Ion:101 Resp: 1337634
 Ion Ratio Lower Upper
 101 100
 151 71.8 57.0 85.6





#13

Ethanol

Concen: 8.413 ppbv

RT: 3.58 min Scan# 248

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

Tot Ion: 45 Resp: 122599

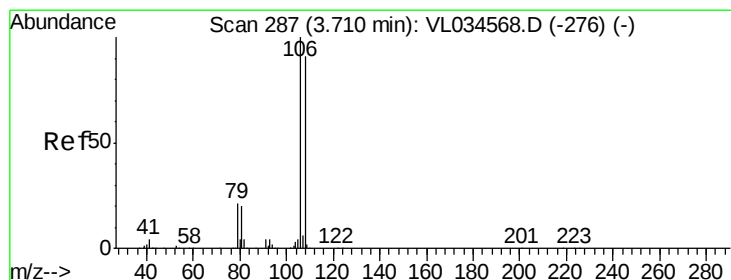
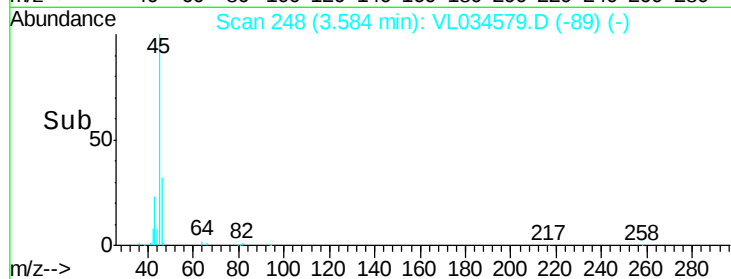
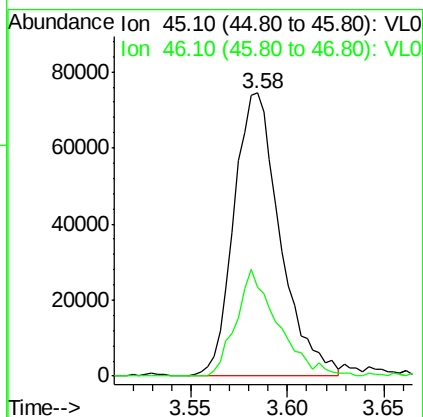
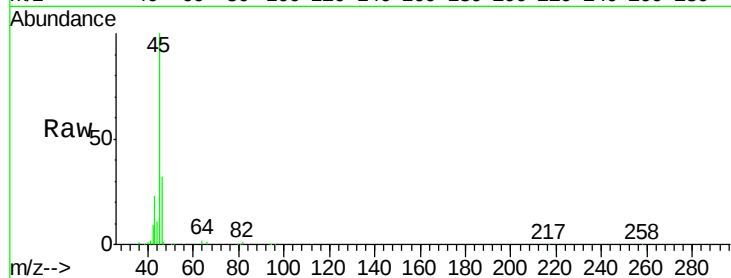
Ion Ratio Lower Upper

45 100

46 35.1 14.8 59.2

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#14

Bromoethene

Concen: 8.807 ppbv

RT: 3.72 min Scan# 289

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

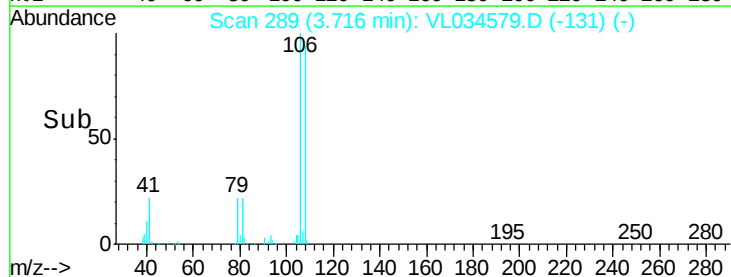
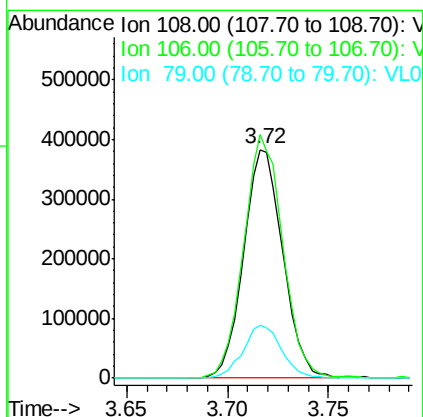
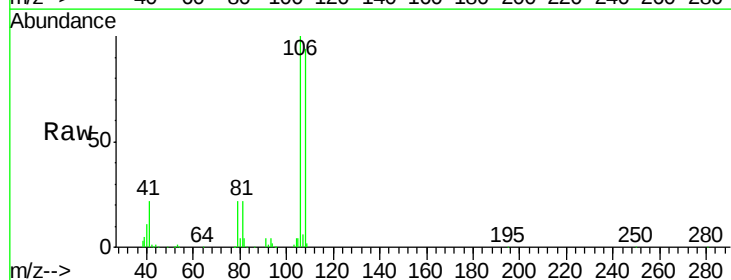
Tgt Ion: 108 Resp: 521524

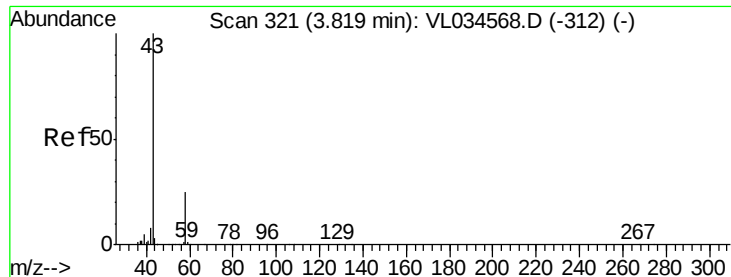
Ion Ratio Lower Upper

108 100

106 106.9 84.6 127.0

79 23.2 18.2 27.2





#15

Acetone

Concen: 8.959 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

Tot Ion: 43 Resp: 1522651

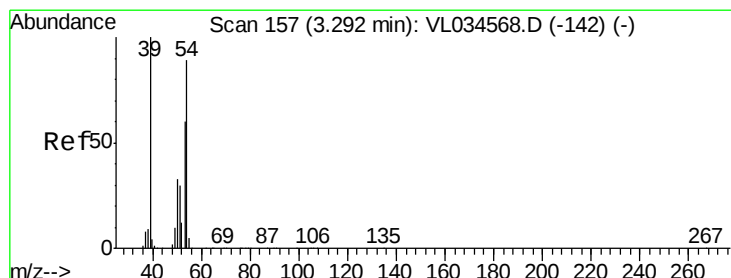
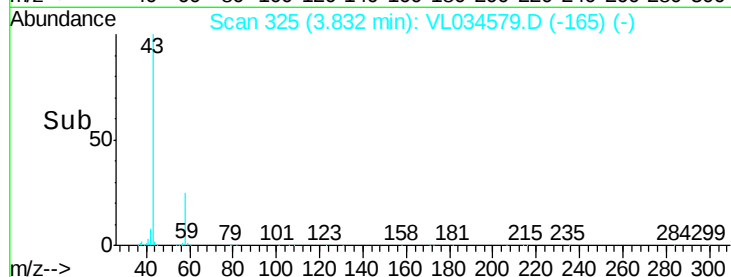
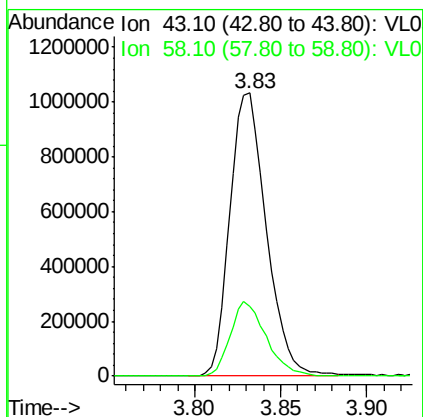
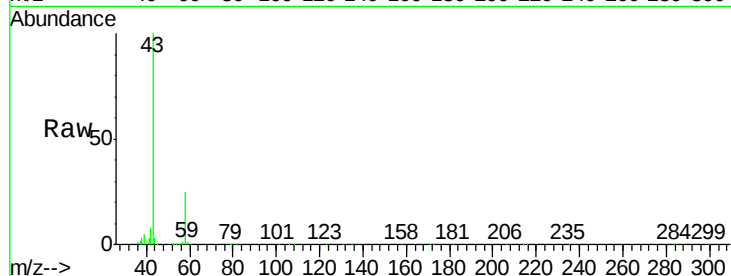
Ion Ratio Lower Upper

43 100

58 26.1 20.3 30.5

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#16

1,3-Butadiene

Concen: 9.169 ppbv

RT: 3.30 min Scan# 159

Delta R.T. 0.01 min

Lab File: VL034579.D

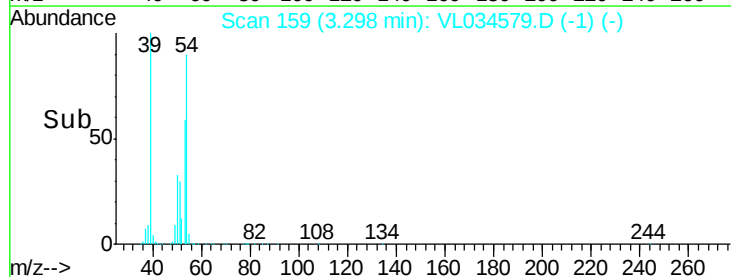
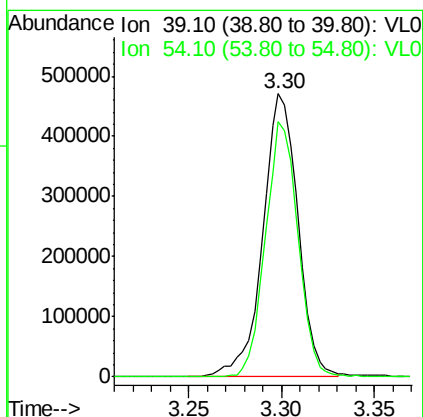
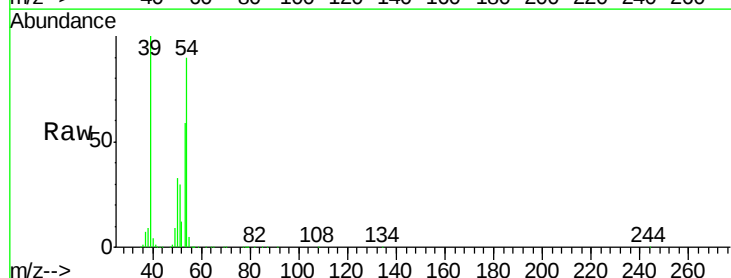
Acq: 4 Feb 2020 13:56

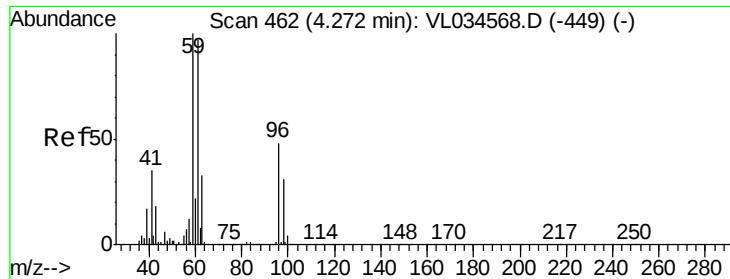
Tgt Ion: 39 Resp: 618815

Ion Ratio Lower Upper

39 100

54 84.3 66.7 100.1





#17

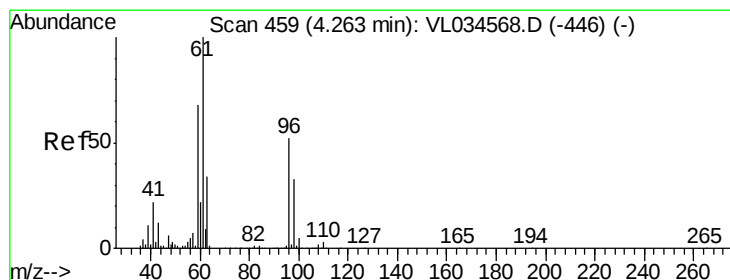
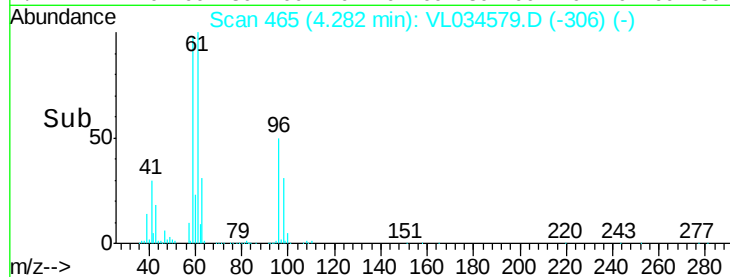
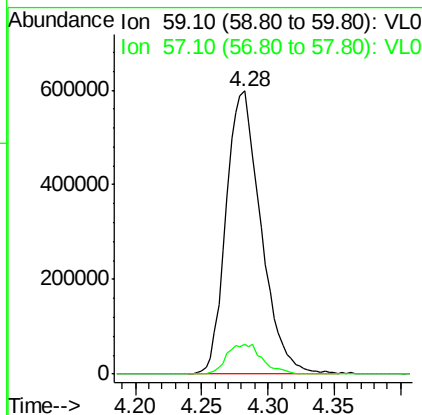
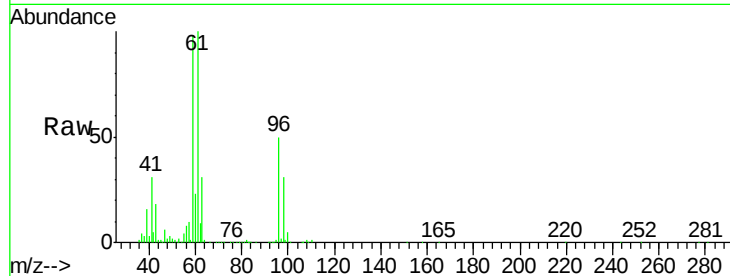
tert-Butyl alcohol
 Concen: 8.758 ppbv
 RT: 4.28 min Scan# 465
 Delta R.T. 0.01 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

Tot Ion: 59 Resp: 1094596
 Ion Ratio Lower Upper
 59 100
 57 11.0 8.7 13.1

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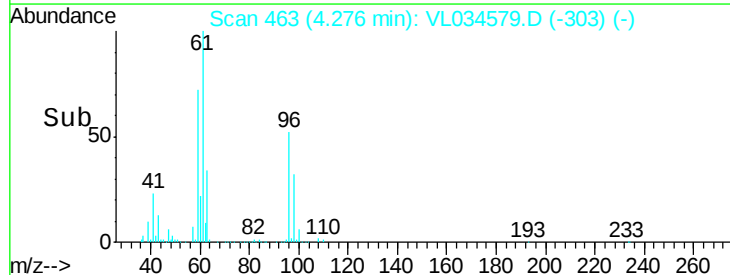
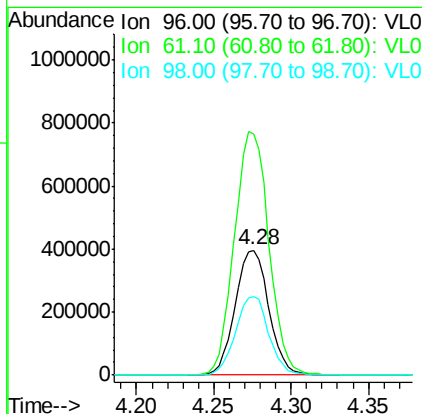
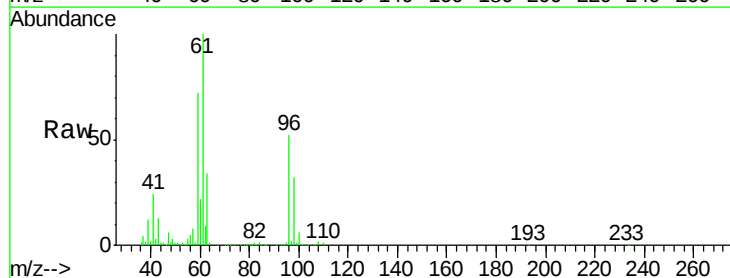
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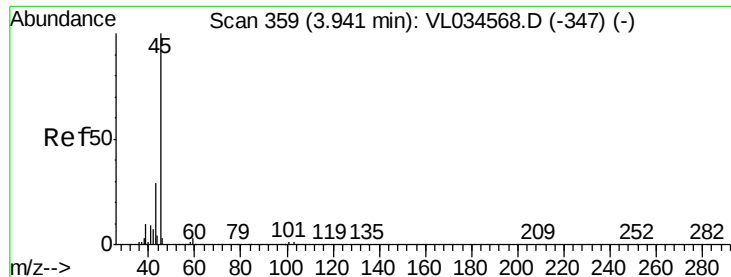


#18

1,1-Dichloroethene
 Concen: 9.357 ppbv
 RT: 4.28 min Scan# 463
 Delta R.T. 0.01 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Tgt Ion: 96 Resp: 596319
 Ion Ratio Lower Upper
 96 100
 61 193.7 154.5 231.7
 98 62.6 50.3 75.5





#19

Isopropyl Alcohol

Concen: 8.553 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

Tot Ion: 45 Resp: 848272

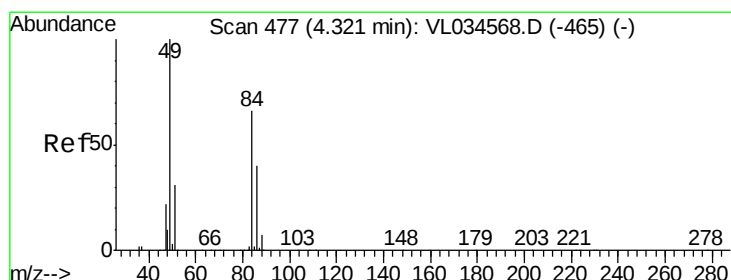
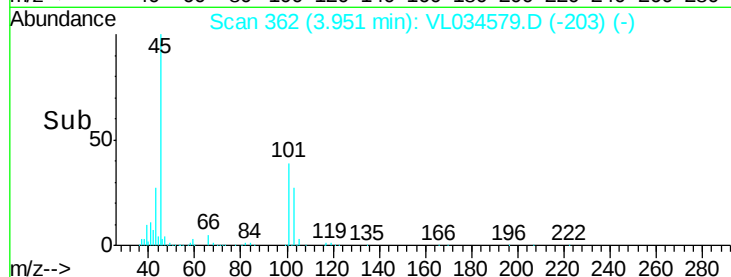
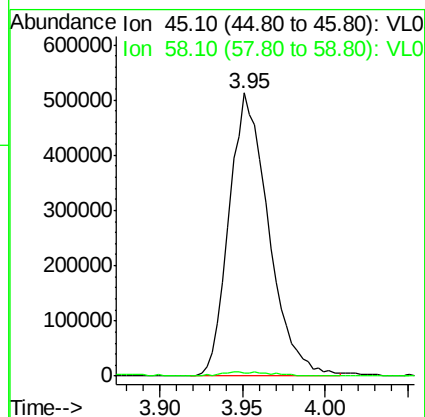
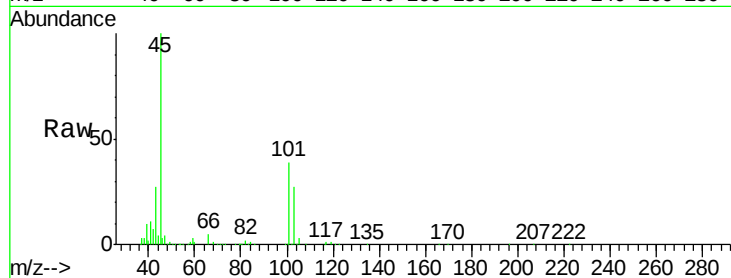
Ion Ratio Lower Upper

45 100

58 2.3 1.7 2.5

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#20

Methylene Chloride

Concen: 7.908 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Tgt Ion: 84 Resp: 511769

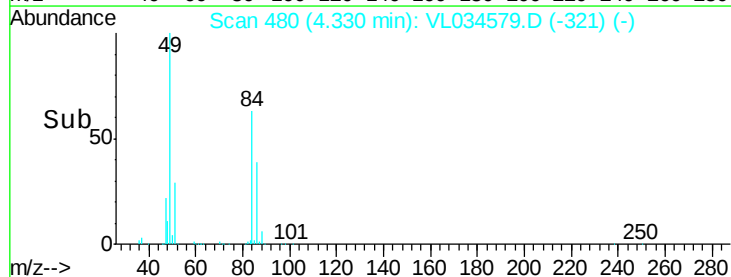
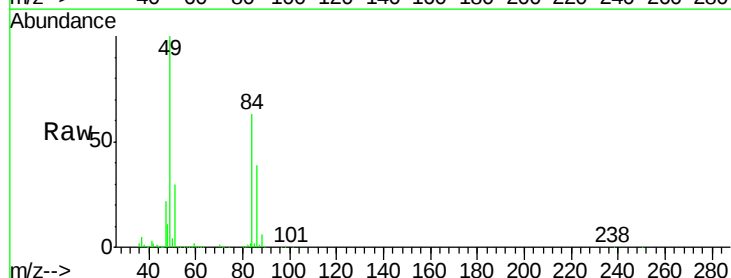
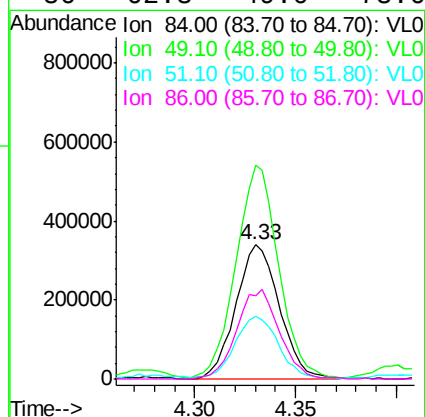
Ion Ratio Lower Upper

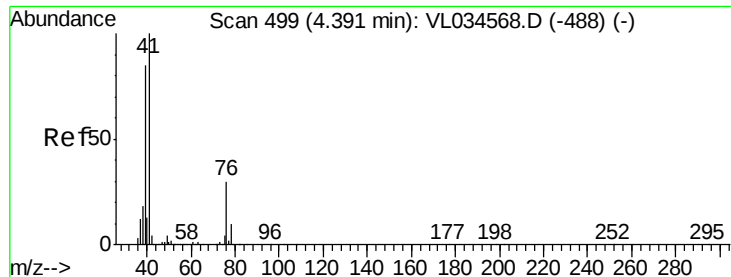
84 100

49 158.5 122.4 183.6

51 46.7 38.6 57.8

86 62.3 49.0 73.6





#21

Allvl Chloride

Concen: 8.986 ppbv

RT: 4.40 min Scan# 501

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Instrument :

MSVOA_L

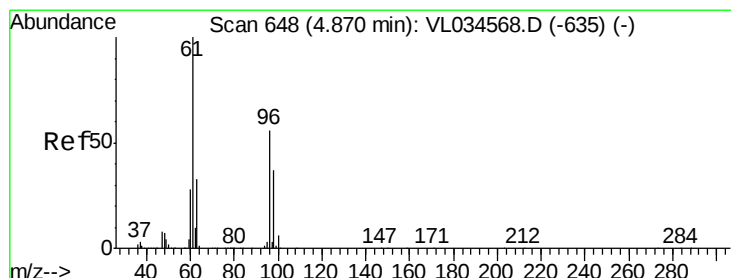
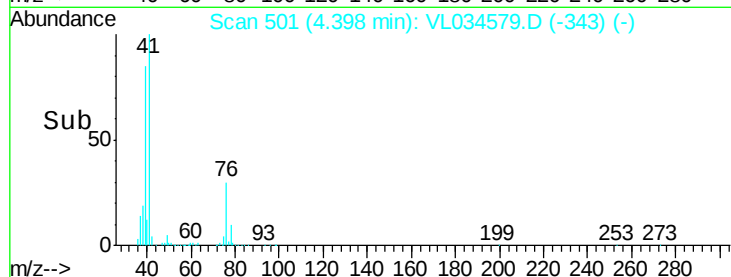
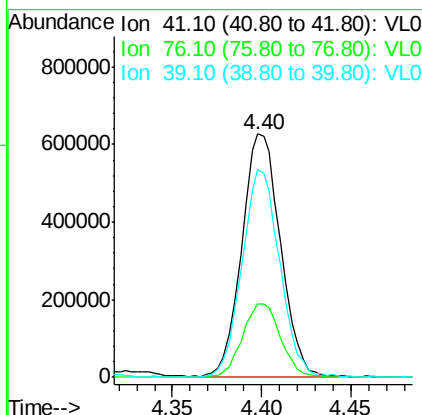
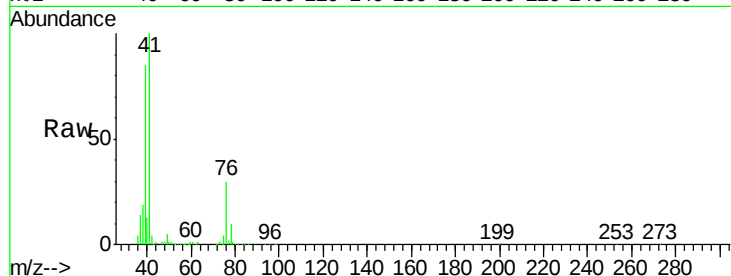
ClientSampleId :

VL0204ABS01

Tot Ion:	41	Resp:	948514
Ion Ratio		Lower	Upper
41	100		
76	30.2	24.2	36.2
39	84.2	68.3	102.5

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#22

trans-1,2-Dichloroethene

Concen: 8.709 ppbv

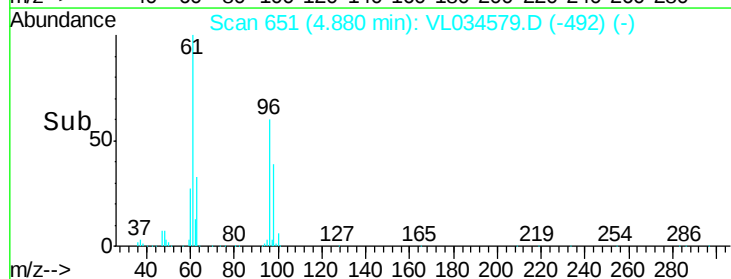
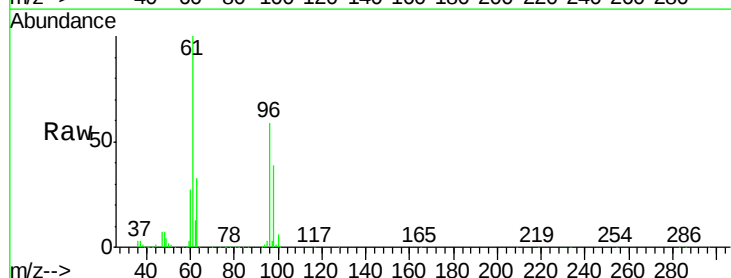
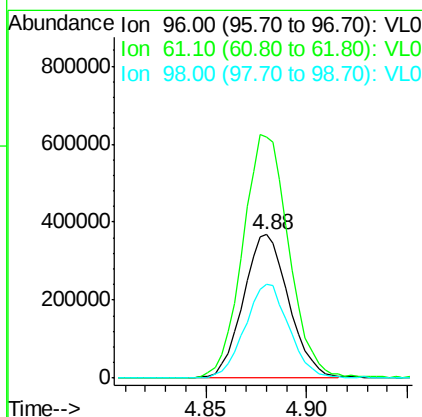
RT: 4.88 min Scan# 651

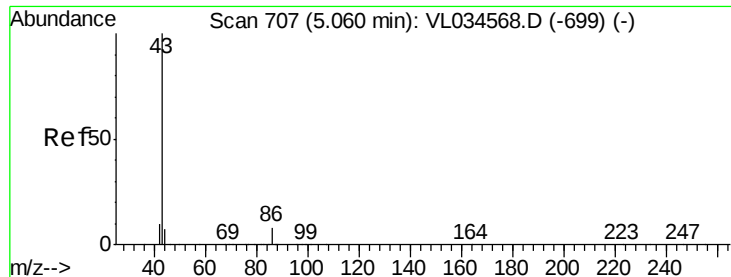
Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Tgt Ion:	96	Resp:	581234
Ion Ratio		Lower	Upper
96	100		
61	168.0	141.9	212.9
98	65.3	53.1	79.7





#23

Vinyl Acetate

Concen: 9.766 ppbv

RT: 5.07 min Scan# 711

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

Tot Ion: 43 Resp: 1893660

Ion Ratio Lower Upper

43 100

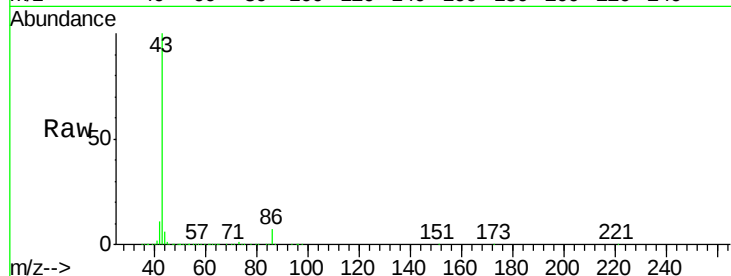
86 7.4 5.9 8.9

42 11.2 8.8 13.2

44 5.6 5.0 7.6

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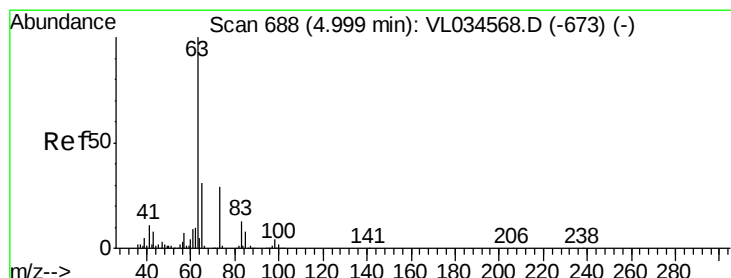
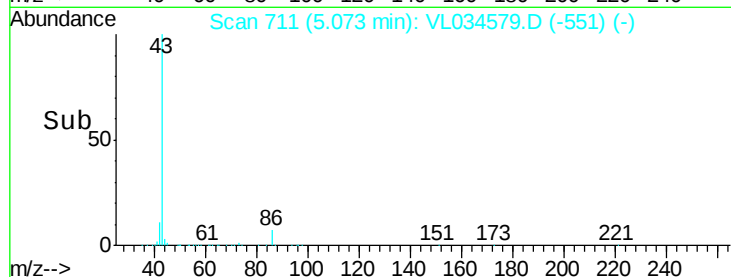
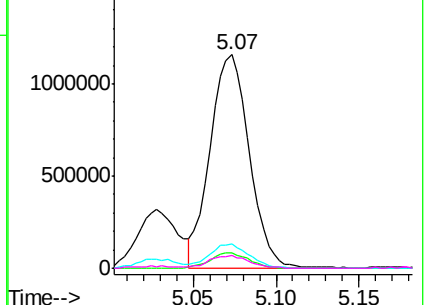


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.851 ppbv

RT: 5.01 min Scan# 691

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

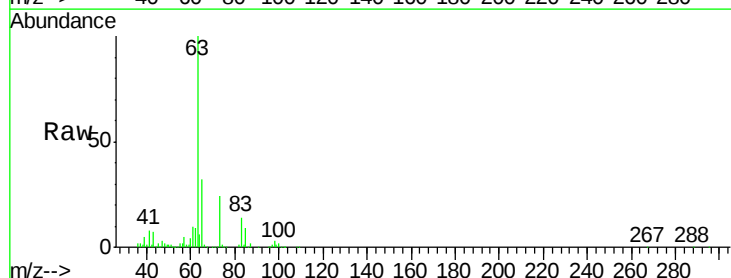
Tgt Ion: 63 Resp: 1432851

Ion Ratio Lower Upper

63 100

98 3.2 2.1 6.2

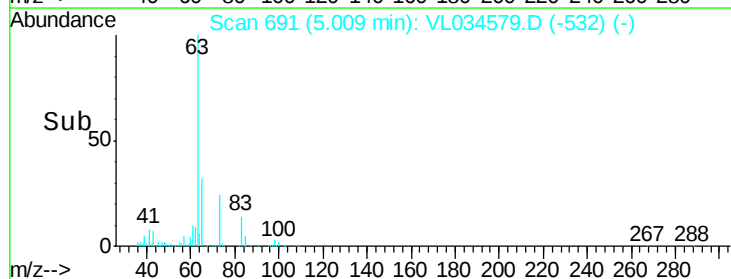
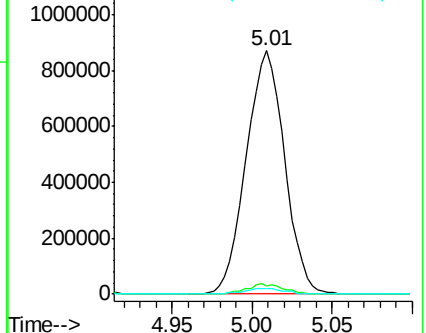
100 2.5 1.1 3.5

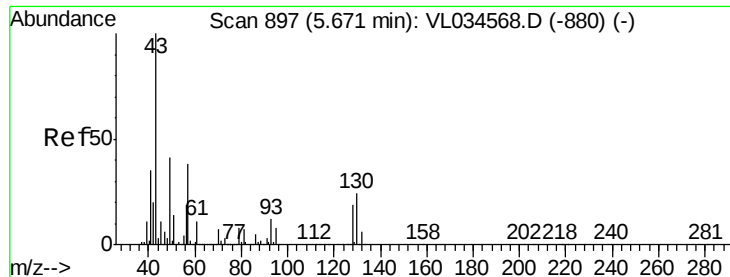


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 8.478 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Tot Ion: 43 Resp: 2332786

Ion Ratio Lower Upper

43 100

45 10.0 8.5 12.7

61 9.9 7.8 11.6

70 7.2 5.8 8.8

Instrument :

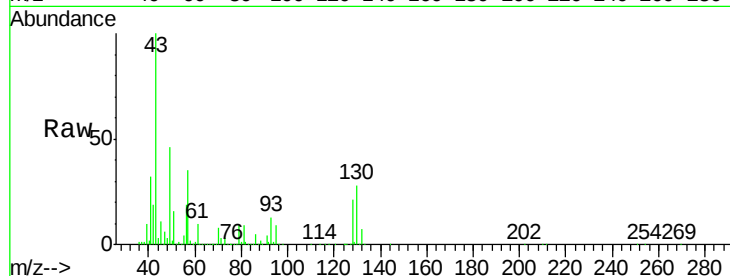
MSVOA_L

ClientSampleId :

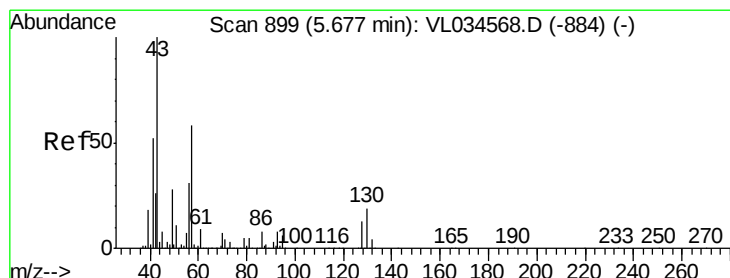
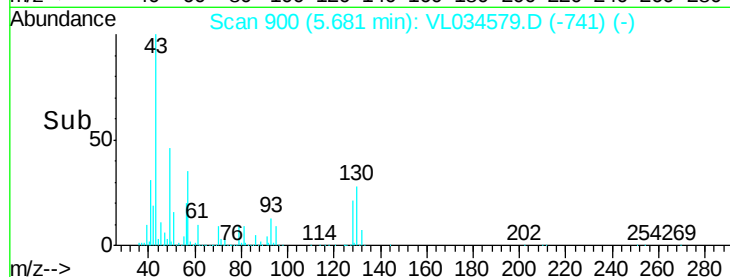
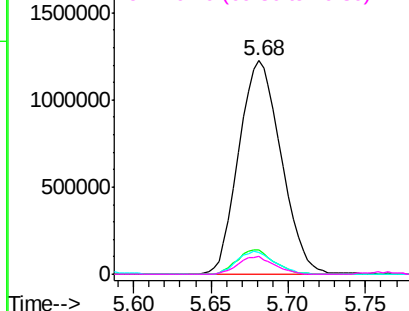
VL0204ABS01

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.820 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Tgt Ion: 57 Resp: 1016511

Ion Ratio Lower Upper

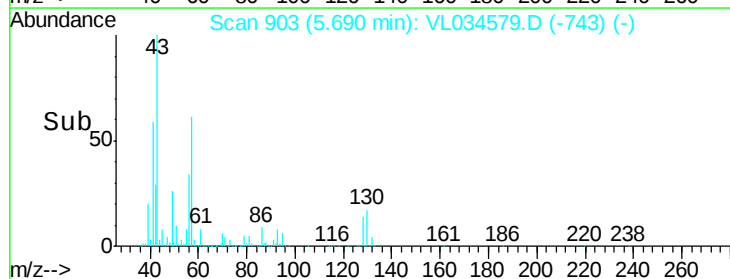
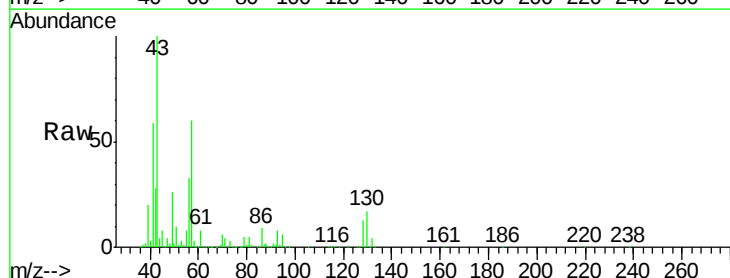
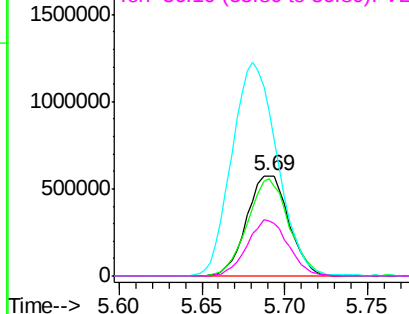
57 100

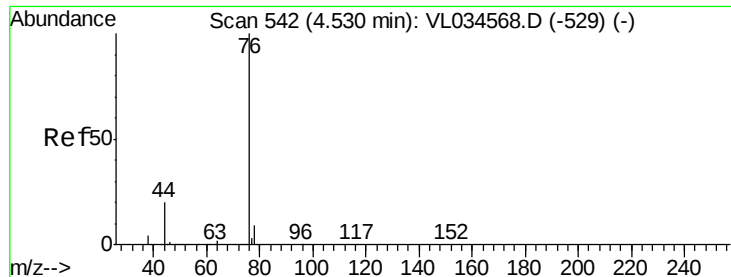
41 95.6 76.2 114.2

43 230.8 189.9 284.9

56 54.2 43.6 65.4

Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 9.437 ppbv

RT: 4.54 min Scan# 545

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

Tot Ion: 76 Resp: 1467490

Ion Ratio Lower Upper

76 100

44 20.2 16.3 24.5

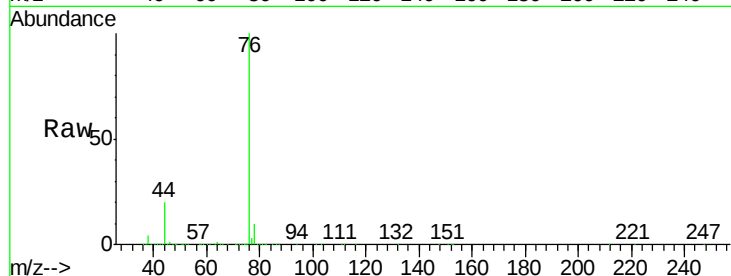
78 9.4 7.4 11.2

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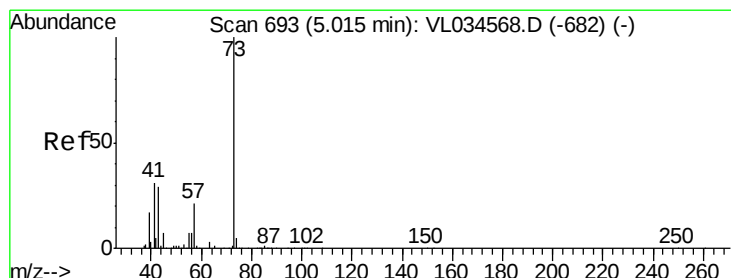
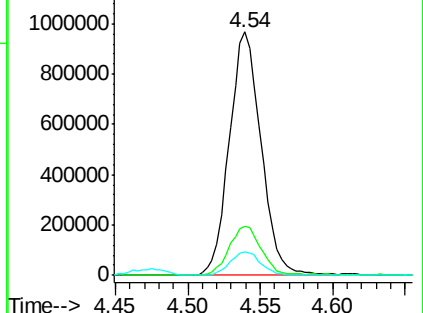
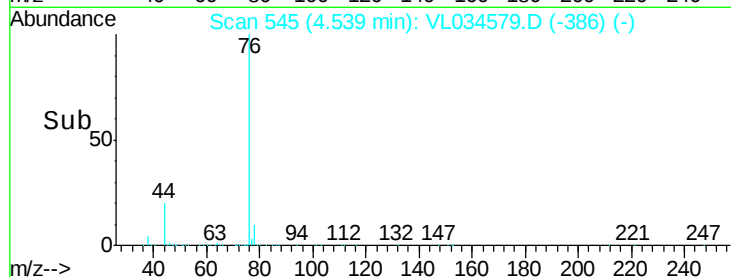
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Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.432 ppbv

RT: 5.03 min Scan# 697

Delta R.T. 0.01 min

Lab File: VL034579.D

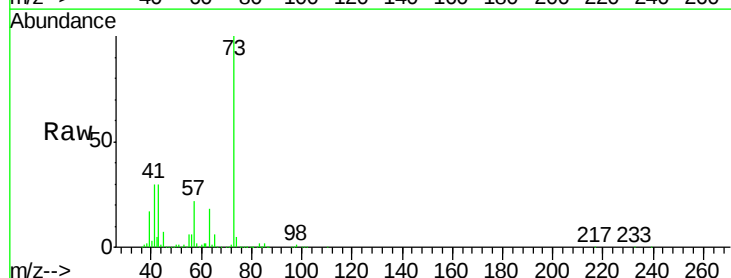
Acq: 4 Feb 2020 13:56

Tgt Ion: 73 Resp: 1853767

Ion Ratio Lower Upper

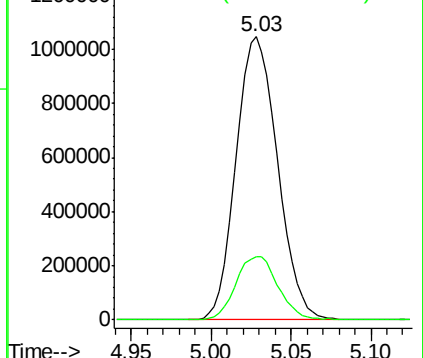
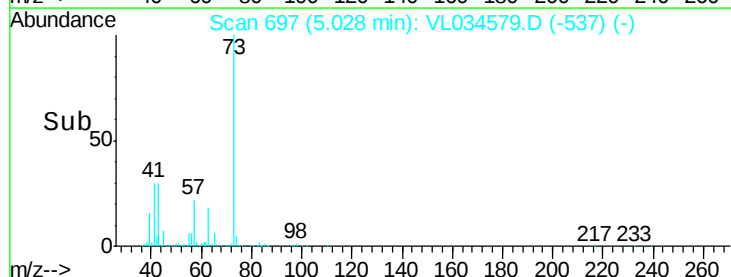
73 100

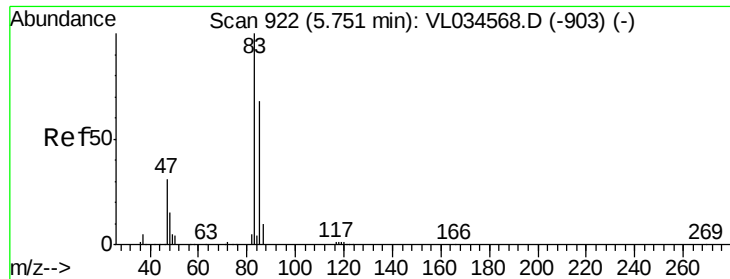
57 22.8 17.9 26.9



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





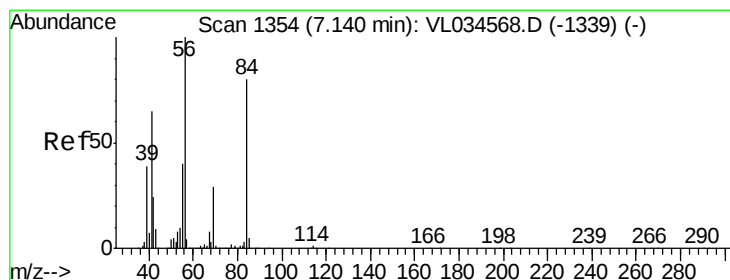
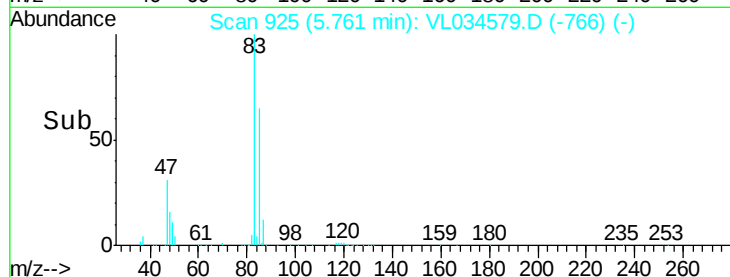
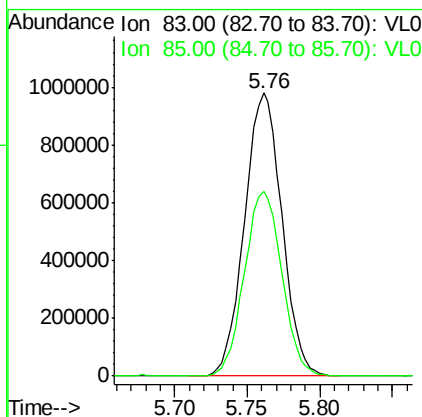
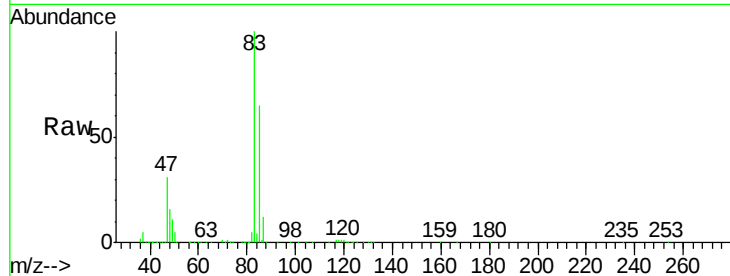
#29
Chloroform
Concen: 8.641 ppbv
RT: 5.76 min Scan# 925
Delta R.T. 0.01 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL0204ABS01

Tot Ion: 83 Resp: 1760935
Ion Ratio Lower Upper
83 100
85 65.2 54.0 81.0

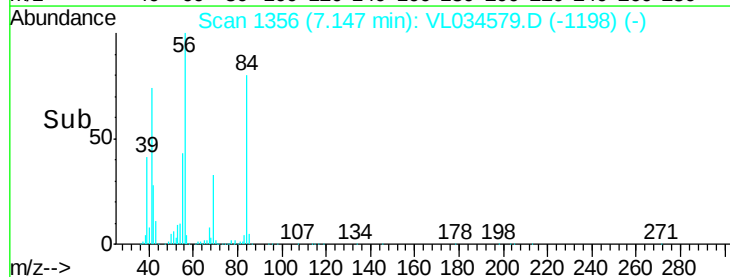
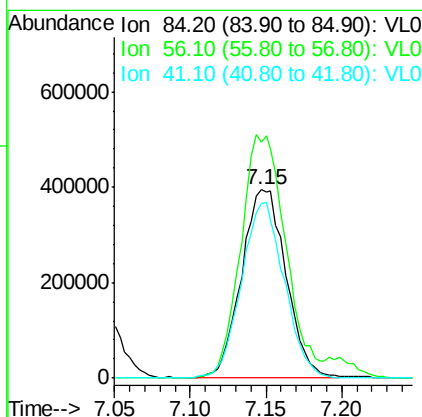
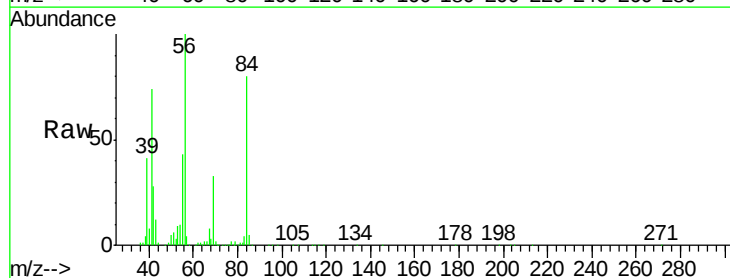
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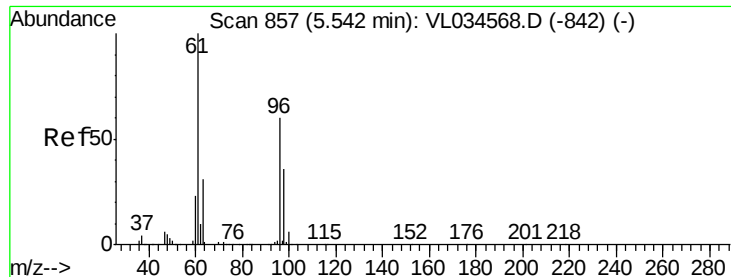
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#30
Cyclohexane
Concen: 9.469 ppbv m
RT: 7.15 min Scan# 1356
Delta R.T. 0.01 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Tgt Ion: 84 Resp: 808677
Ion Ratio Lower Upper
84 100
56 0.0 110.5 165.7#
41 89.9 71.9 107.9





#31

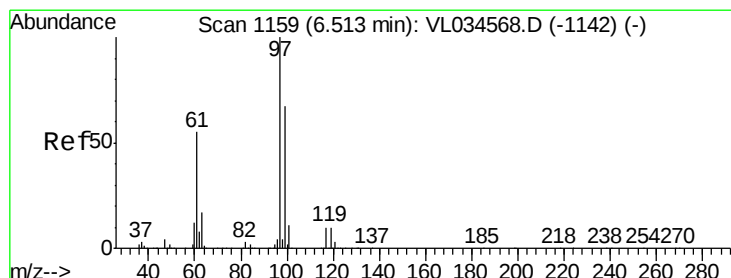
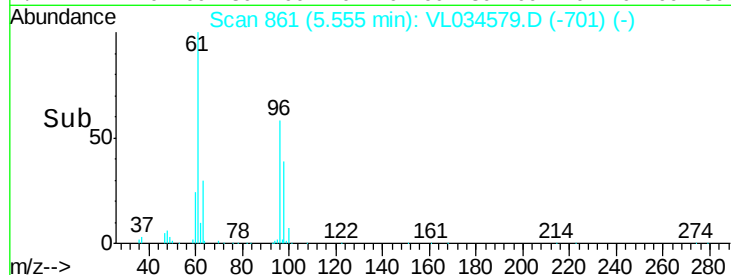
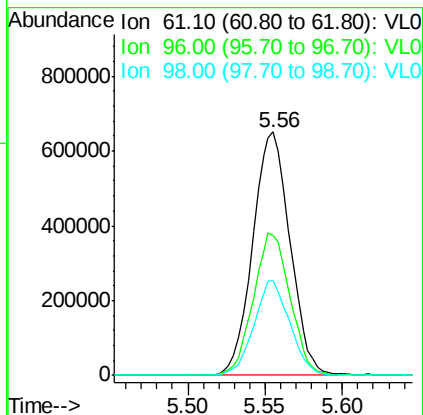
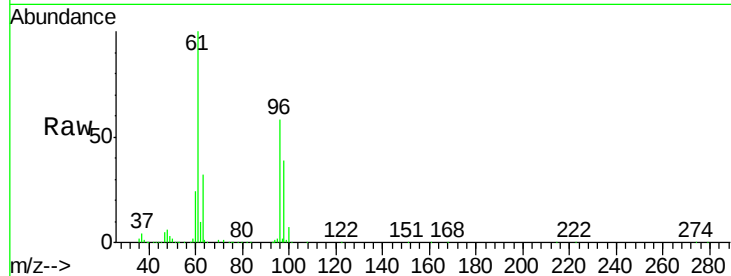
cis-1,2-Dichloroethene
 Concen: 9.120 ppbv
 RT: 5.56 min Scan# 861
 Delta R.T. 0.01 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	57.7	48.0	72.0
98	39.0	28.6	43.0

Manual Integrations
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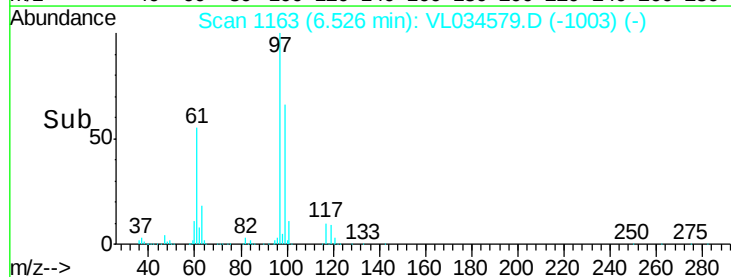
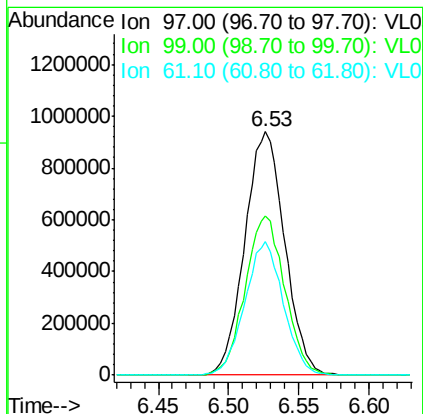
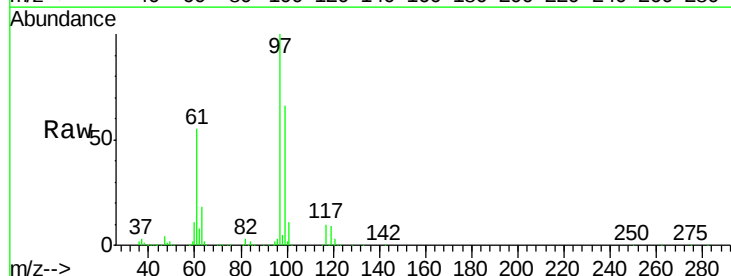
MMDadoda
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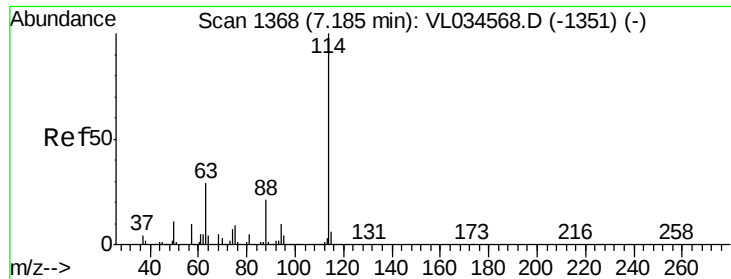


#32

1,1,1-Trichloroethane
 Concen: 8.528 ppbv
 RT: 6.53 min Scan# 1163
 Delta R.T. 0.01 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	52.2	78.2
61	53.0	43.0	64.4





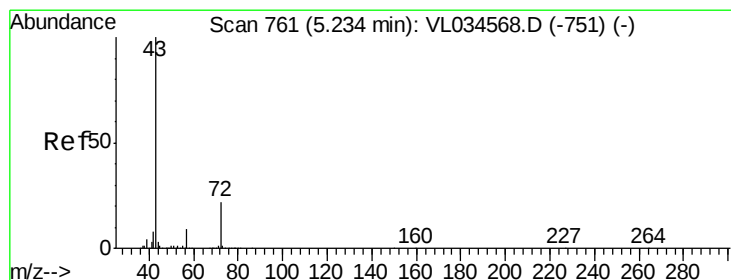
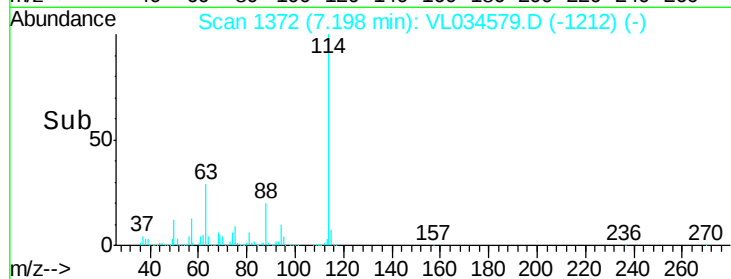
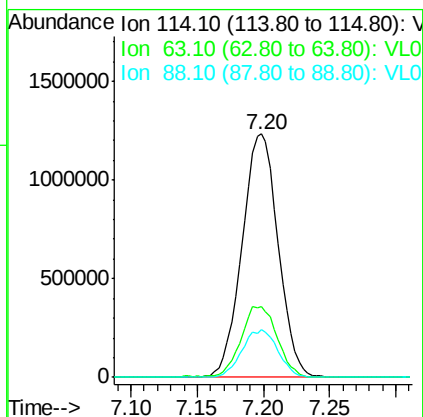
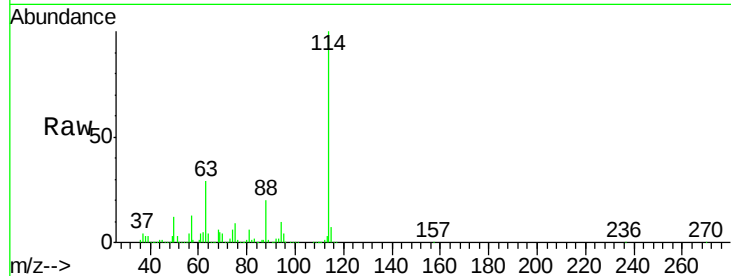
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. 0.01 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.8	24.1	36.1
88	19.5	15.9	23.9

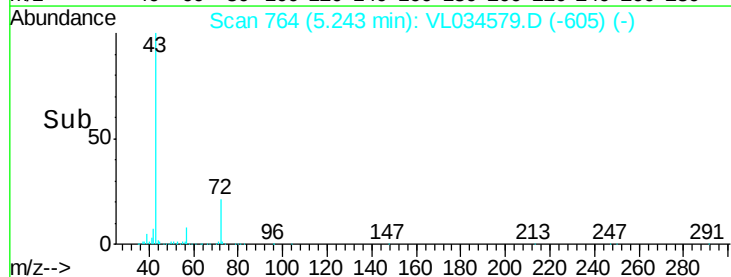
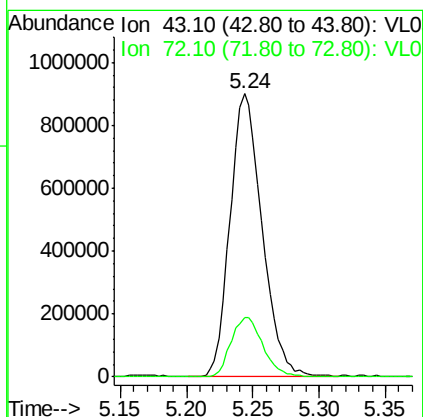
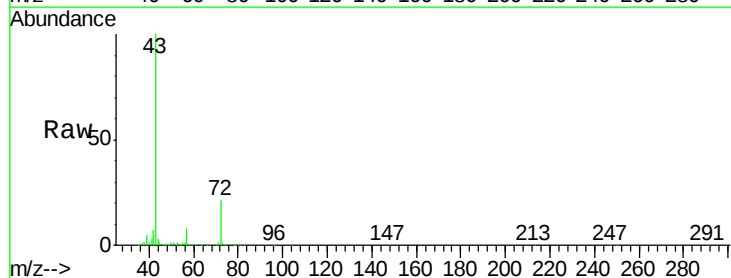
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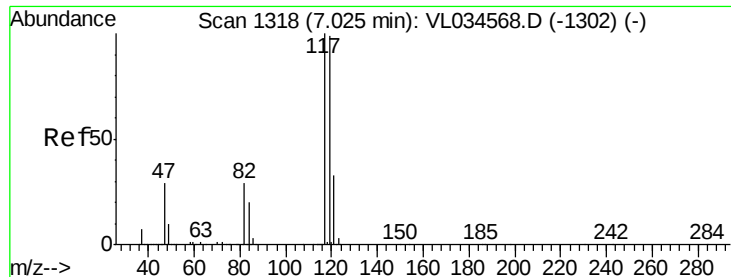
MMDadoda
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#34
 2-Butanone
 Concen: 8.897 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.01 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.2	17.2	25.8





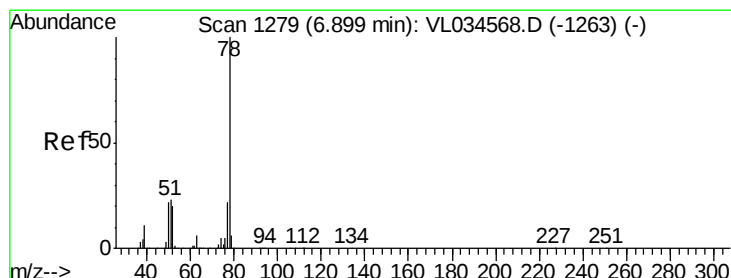
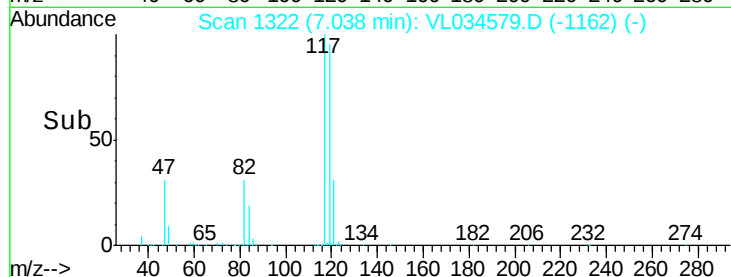
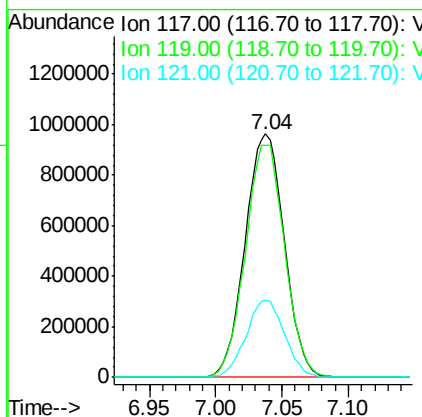
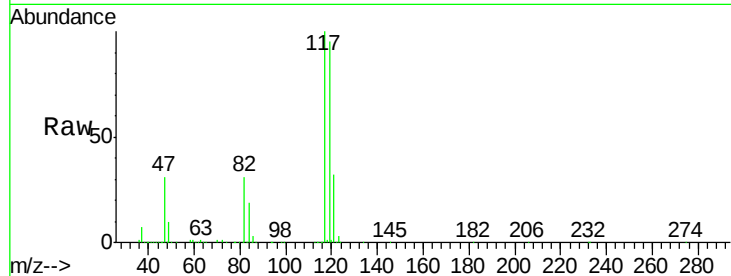
#35
Carbon Tetrachloride
Concen: 8.878 ppbv
RT: 7.04 min Scan# 1322
Delta R.T. 0.01 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL0204ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.3	79.5	119.3
121	31.7	26.2	39.2

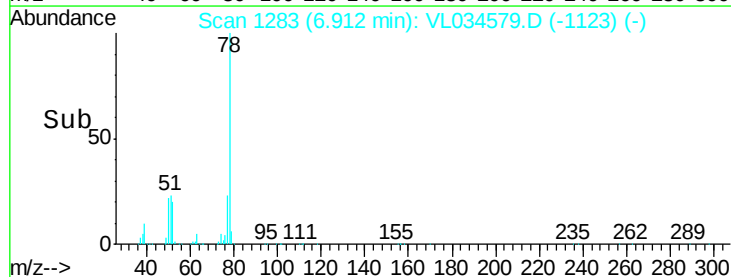
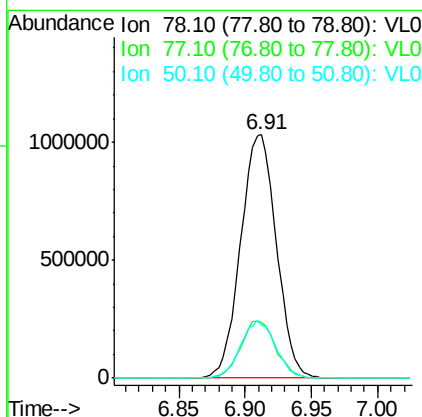
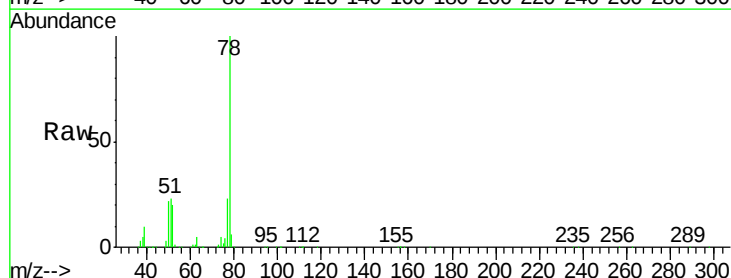
Manual Integrations
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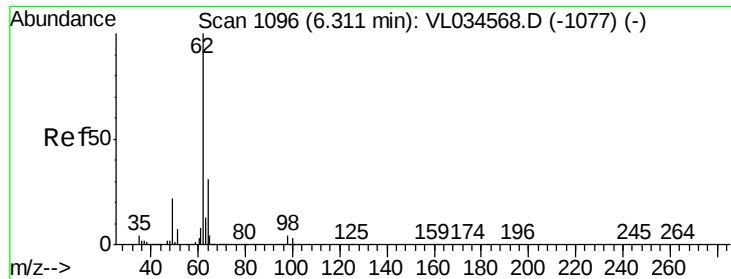
MMDadoda
2/5/2020 2:50:09 PM



#36
Benzene
Concen: 9.313 ppbv
RT: 6.91 min Scan# 1283
Delta R.T. 0.01 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.8	17.3	25.9
50	21.5	17.4	26.2





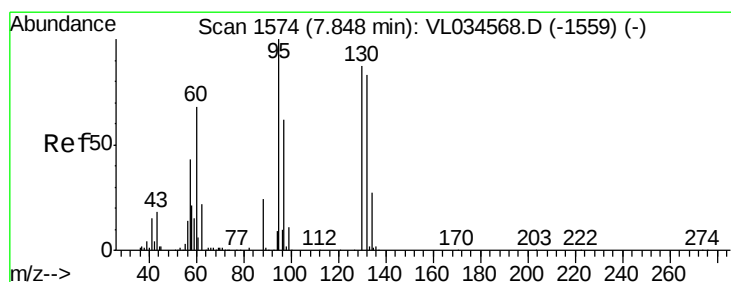
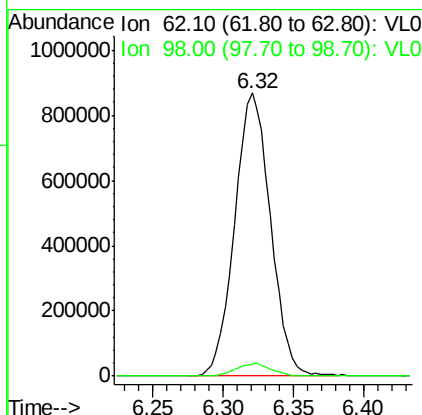
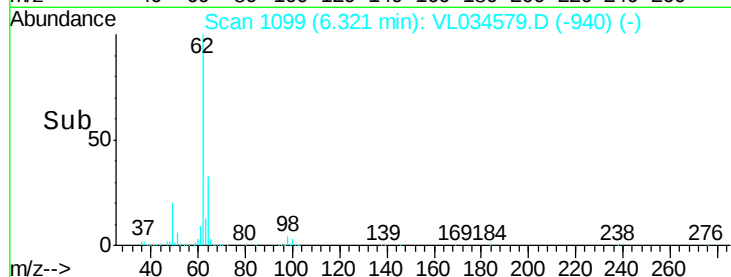
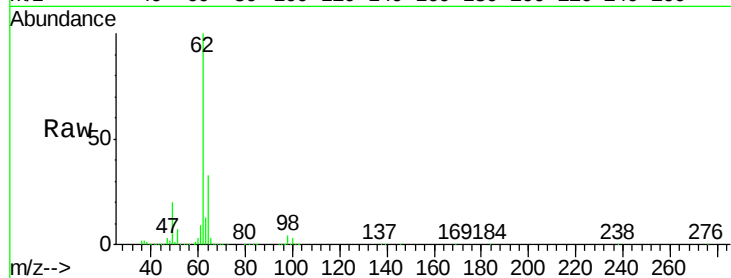
#37
 1,2-Dichloroethane
 Concen: 8.896 ppbv
 RT: 6.32 min Scan# 1099
 Delta R.T. 0.01 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

Tot Ion: 62 Resp: 1543676
 Ion Ratio Lower Upper
 62 100
 98 4.5 3.7 5.5

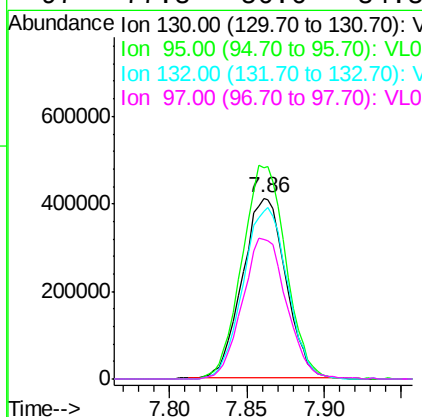
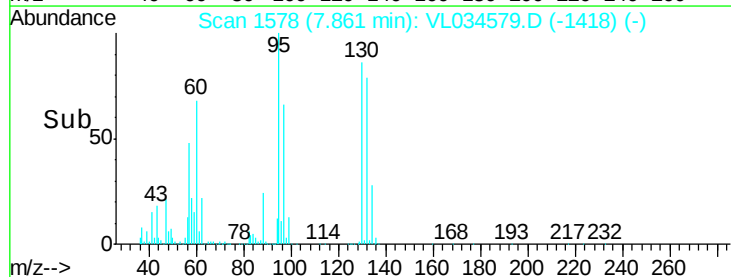
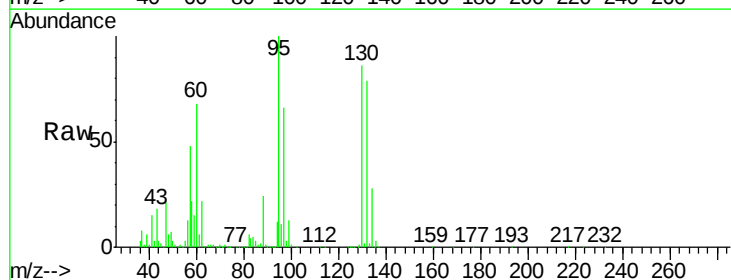
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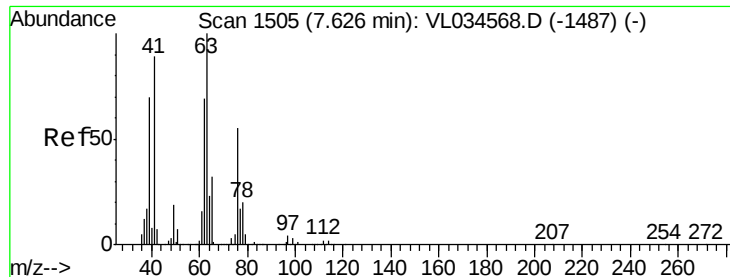
MMDadoda
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#38
 Trichloroethene
 Concen: 9.206 ppbv
 RT: 7.86 min Scan# 1578
 Delta R.T. 0.01 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Tgt Ion: 130 Resp: 807158
 Ion Ratio Lower Upper
 130 100
 95 117.1 91.6 137.4
 132 93.1 76.1 114.1
 97 77.8 56.6 84.8





#39

1,2-Dichloropropane

Concen: 9.180 ppbv

RT: 7.64 min Scan# 1508

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Instrument :

MSVOA_L

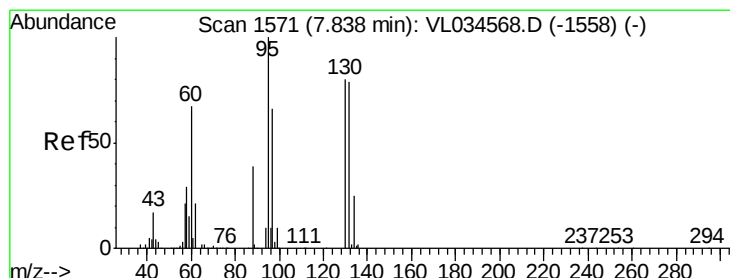
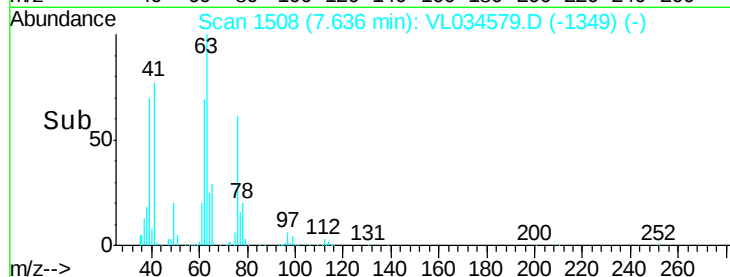
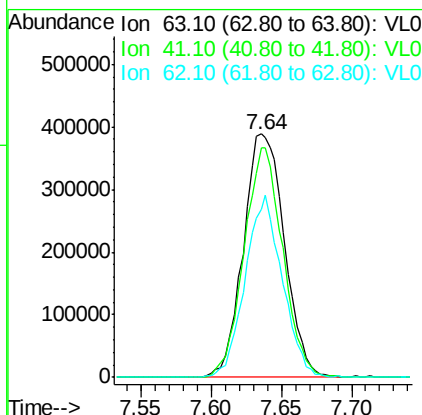
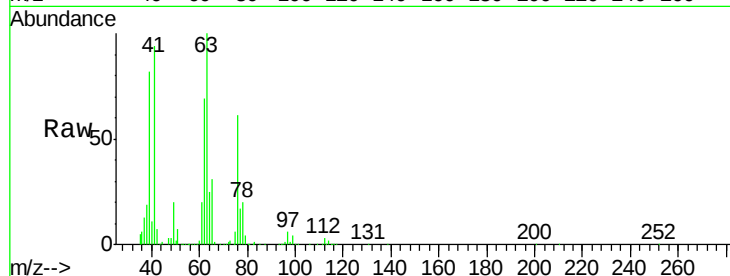
ClientSampleId :

VL0204ABS01

Tot Ion:	63	Resp:	791496
Ion Ratio	Lower	Upper	
63	100		
41	94.1	71.0	106.4
62	68.8	55.4	83.0

Manual Integrations
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#40

1,4-Dioxane

Concen: 9.014 ppbv m

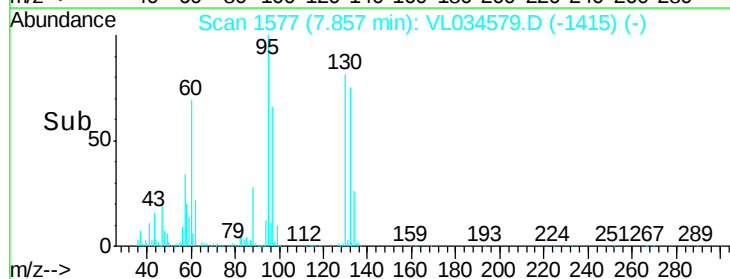
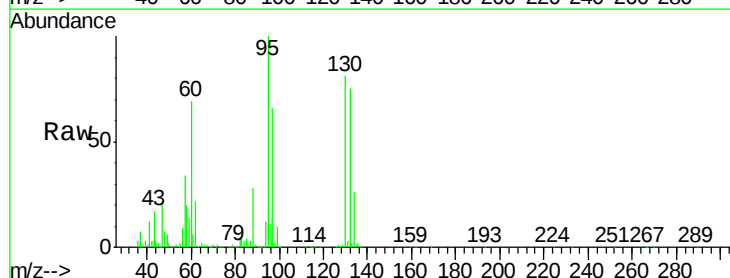
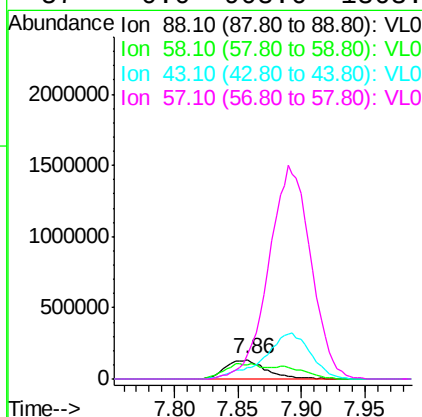
RT: 7.86 min Scan# 1577

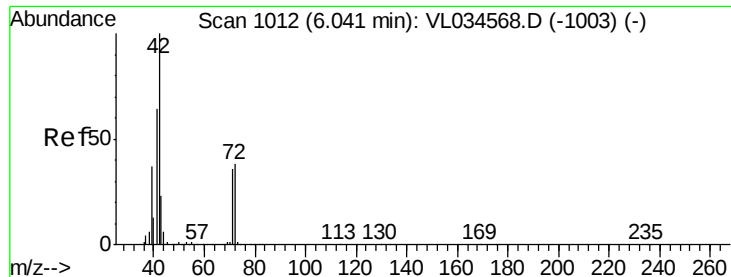
Delta R.T. 0.02 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Tgt Ion:	88	Resp:	298769
Ion Ratio	Lower	Upper	
88	100		
58	131.4	107.8	161.8
43	0.0	220.9	331.3#
57	0.0	908.6	1363.0#





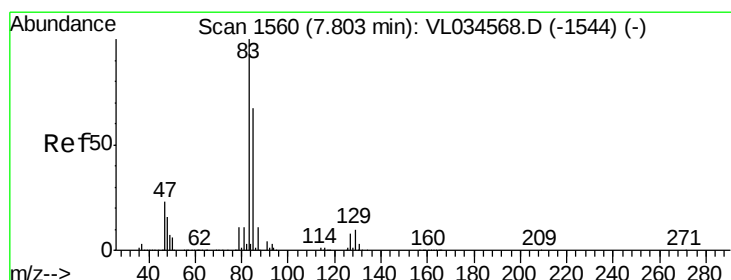
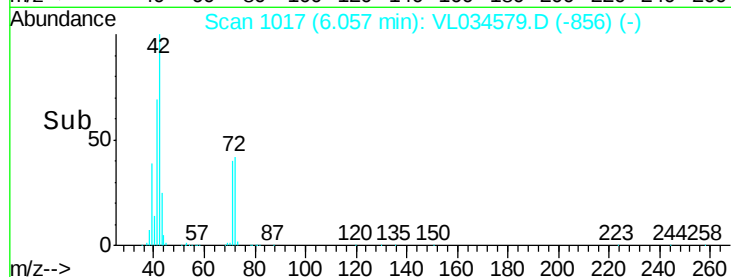
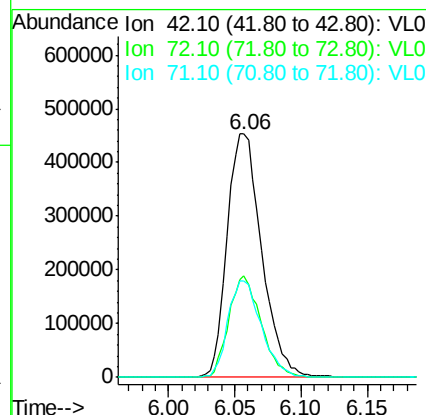
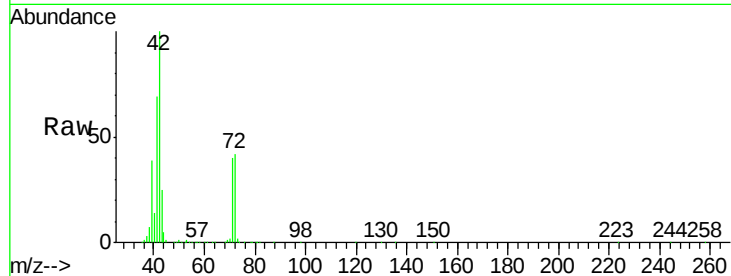
#41
Tetrahydrofuran
Concen: 9.282 ppbv
RT: 6.06 min Scan# 1017
Delta R.T. 0.02 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL0204ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.0	31.8	47.8
71	38.5	30.2	45.4

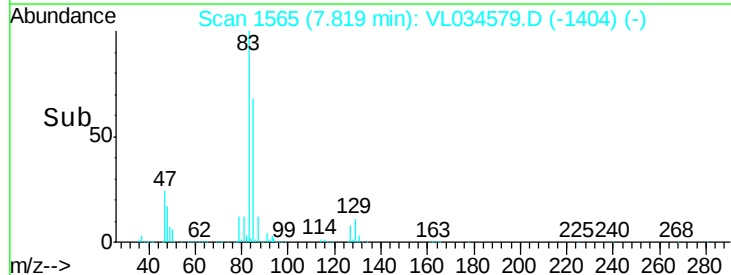
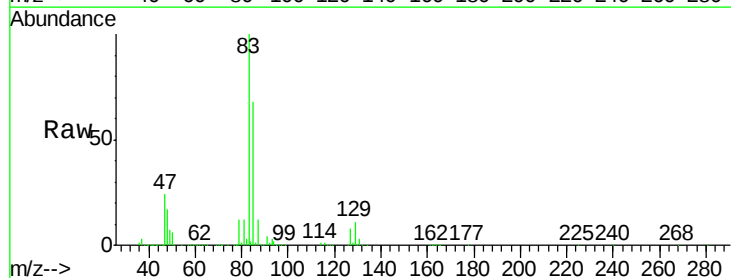
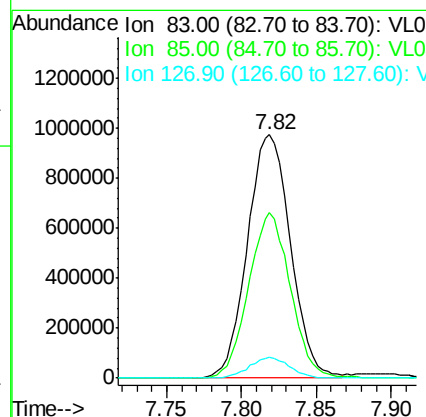
Manual Integrations
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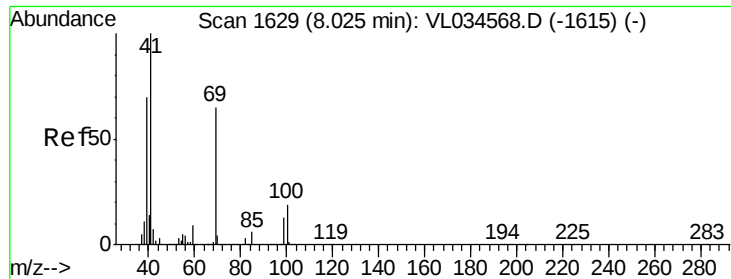
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2/5/2020 2:50:09 PM



#42
Bromodichloromethane
Concen: 9.160 ppbv
RT: 7.82 min Scan# 1565
Delta R.T. 0.02 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.0	53.2	79.8
127	8.5	6.5	9.7





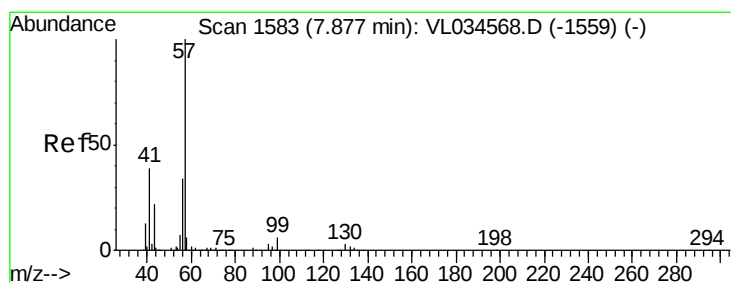
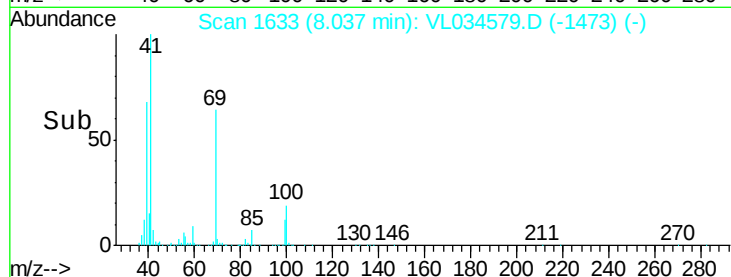
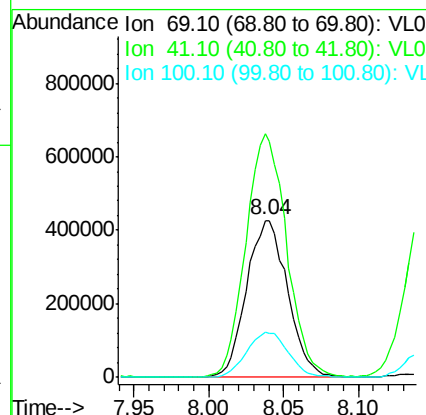
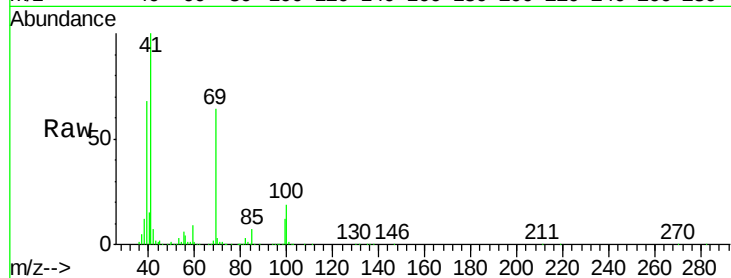
#43
Methvl Methacrylate
Concen: 9.741 ppbv
RT: 8.04 min Scan# 1633
Delta R.T. 0.01 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL0204ABS01

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	154.0	123.9	185.9	
100	29.4	24.1	36.1	

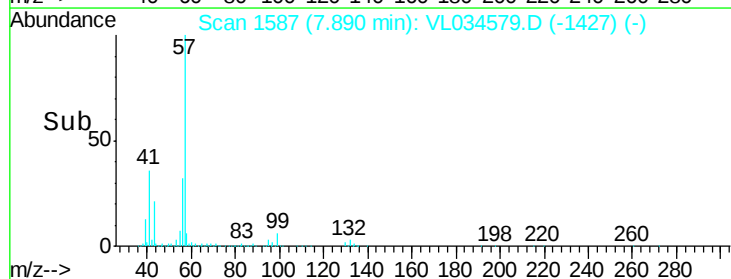
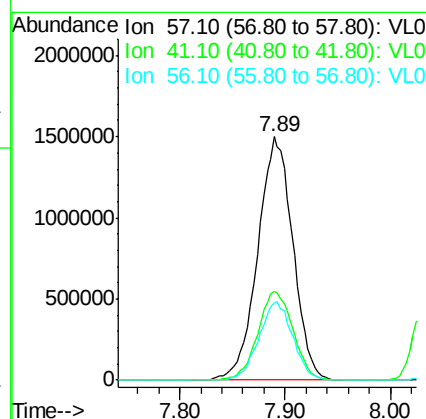
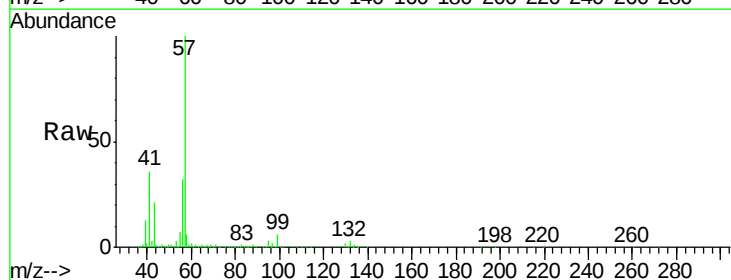
Manual Integrations
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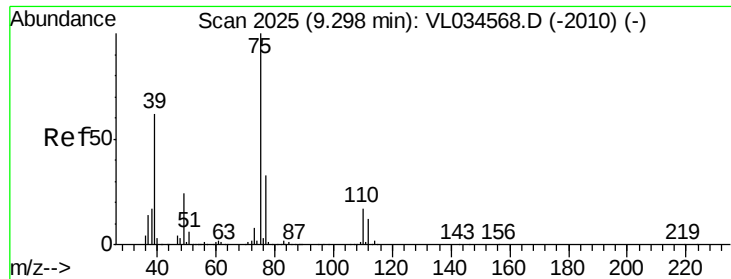
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 9.191 ppbv
RT: 7.89 min Scan# 1587
Delta R.T. 0.01 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	36.4	28.9	43.3	
56	31.1	25.5	38.3	





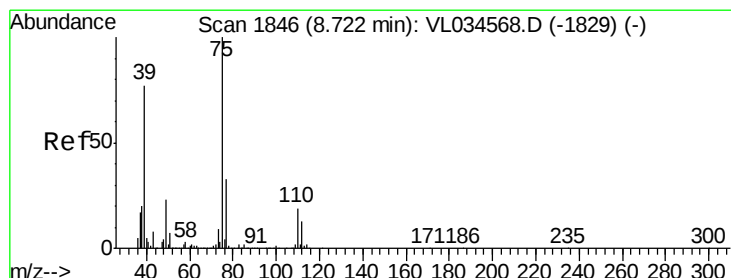
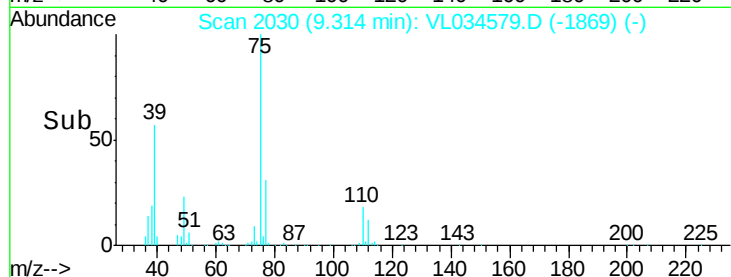
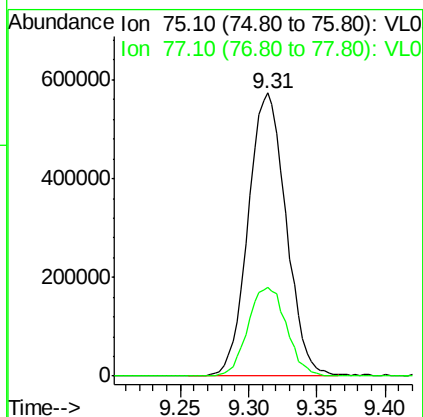
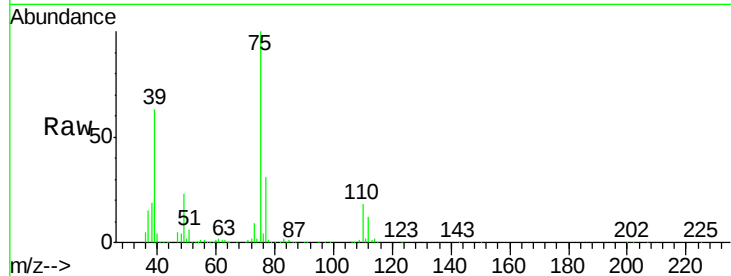
#45
 t-1,3-Dichloropropene
 Concen: 10.099 ppbv
 RT: 9.31 min Scan# 2030
 Delta R.T. 0.02 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

Tot Ion: 75 Resp: 1106208
 Ion Ratio Lower Upper
 75 100
 77 31.3 26.7 40.1

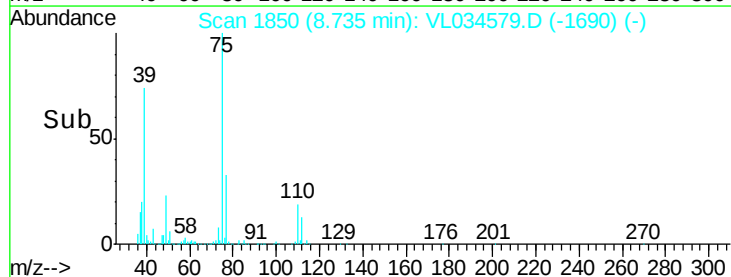
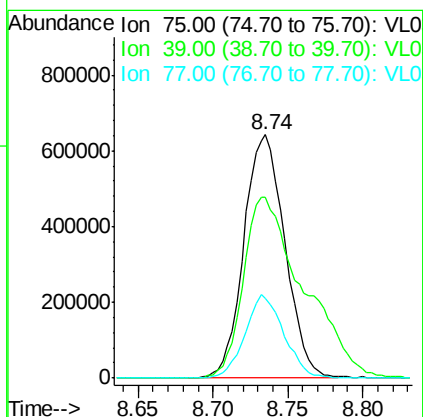
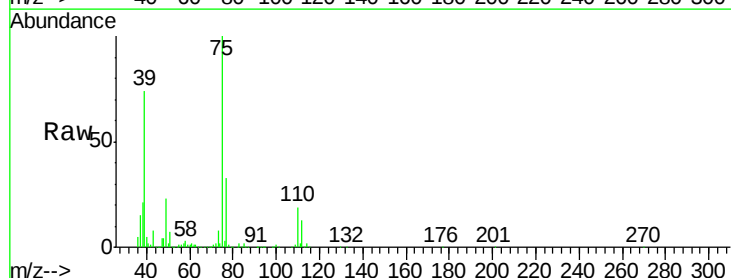
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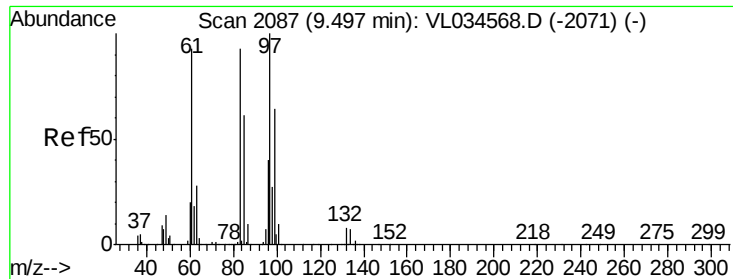
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#46
 cis-1,3-Dichloropropene
 Concen: 9.858 ppbv
 RT: 8.74 min Scan# 1850
 Delta R.T. 0.01 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Tgt Ion: 75 Resp: 1227346
 Ion Ratio Lower Upper
 75 100
 39 74.0 61.9 92.9
 77 32.7 26.1 39.1





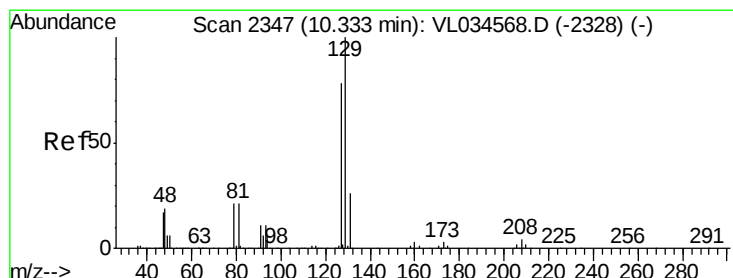
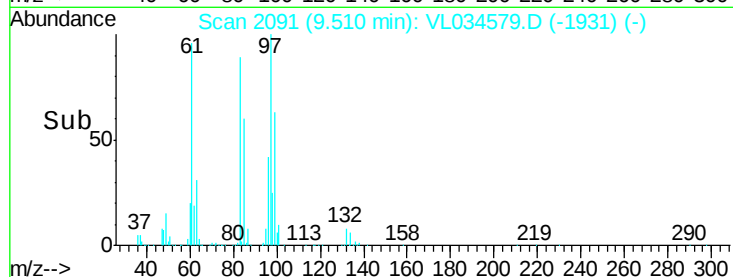
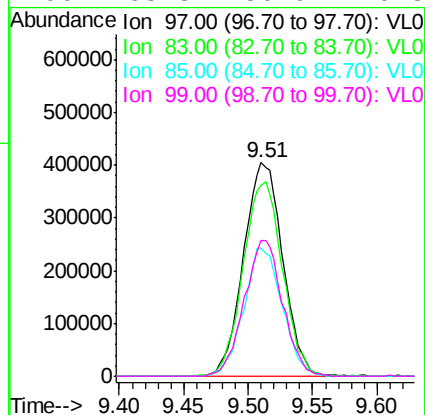
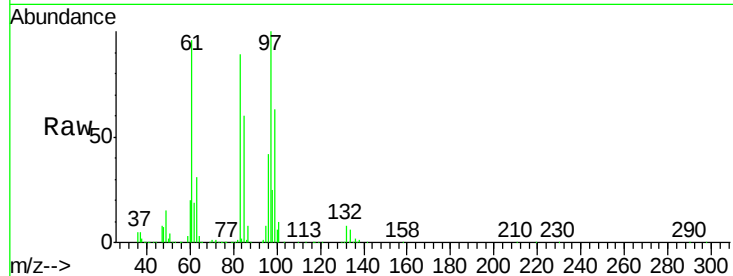
#47
 1,1,2-Trichloroethane
 Concen: 9.207 ppbv
 RT: 9.51 min Scan# 2091
 Delta R.T. 0.01 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		859836		
83	89.4	74.4	111.6		
85	59.8	49.2	73.8		
99	63.3	50.9	76.3		

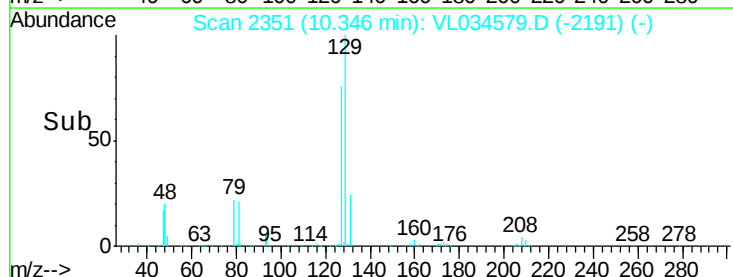
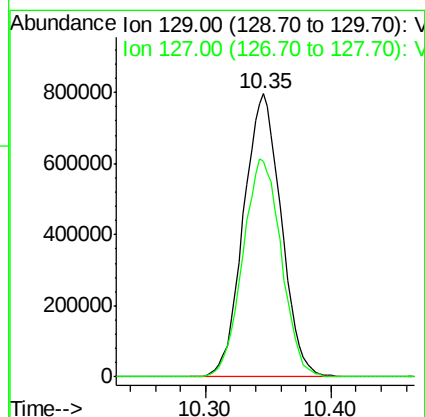
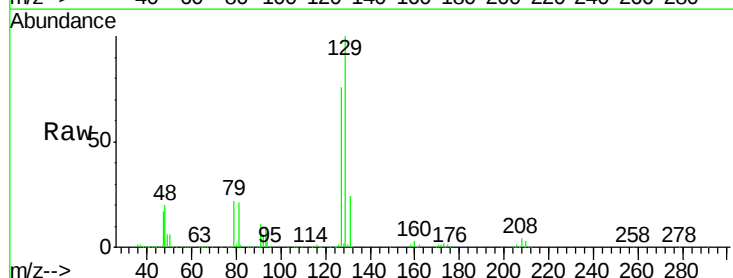
Manual Integrations
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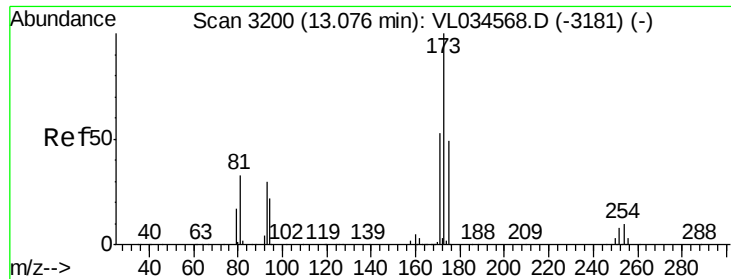
MMDadoda
 2/5/2020 2:50:09 PM



#48
 Dibromochloromethane
 Concen: 9.721 ppbv
 RT: 10.35 min Scan# 2351
 Delta R.T. 0.01 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1663548		
127	78.5	39.1	117.2		





#49

Bromoform

Concen: 9.878 ppbv

RT: 13.10 min Scan# 3206

Delta R.T. 0.02 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

Tot Ion:173 Resp: 1484051

Ion Ratio Lower Upper

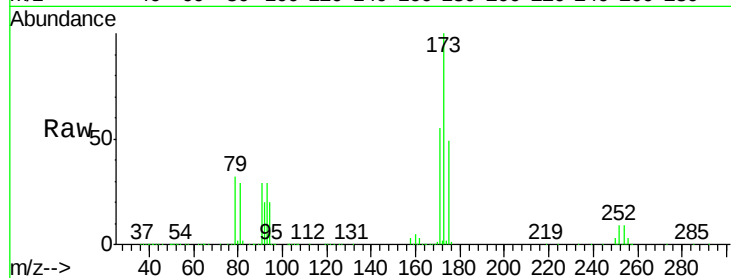
173 100

175 49.6 39.7 59.5

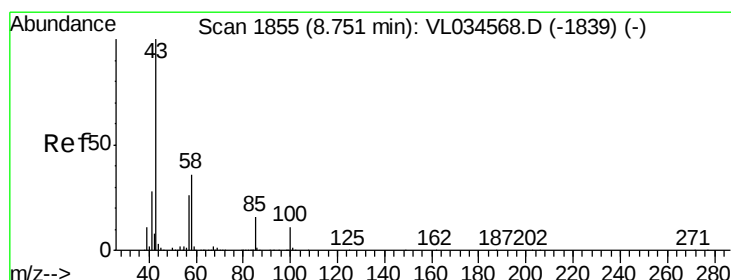
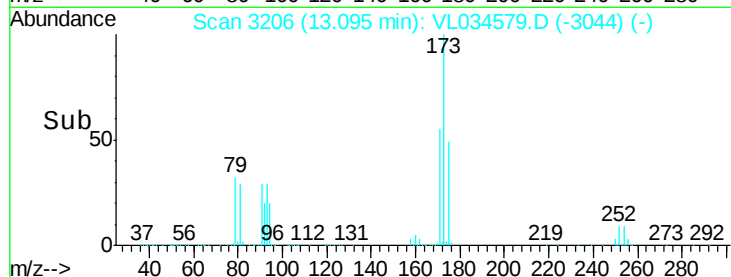
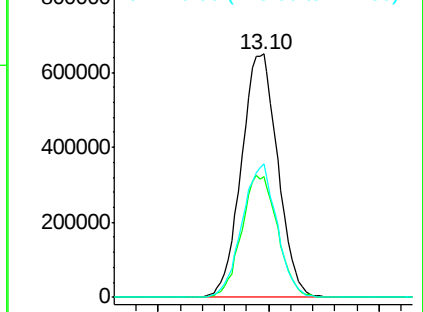
171 52.5 41.6 62.4

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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: 9.347 ppbv

RT: 8.77 min Scan# 1860

Delta R.T. 0.02 min

Lab File: VL034579.D

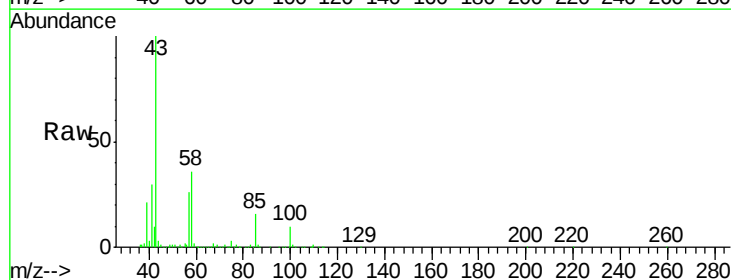
Acq: 4 Feb 2020 13:56

Tgt Ion: 43 Resp: 2263728

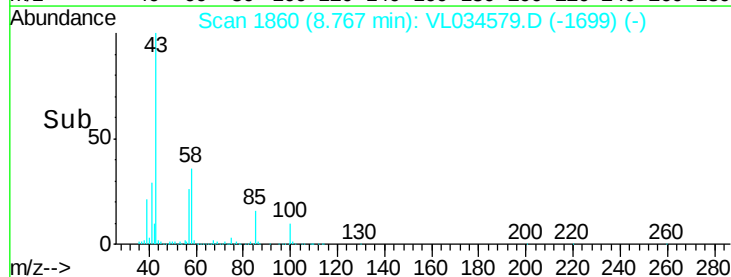
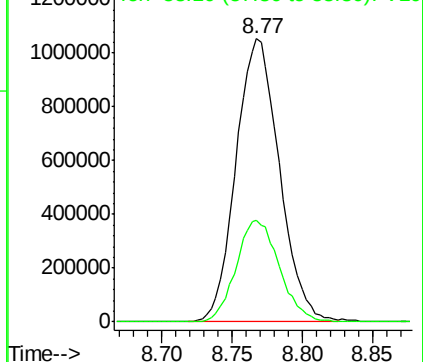
Ion Ratio Lower Upper

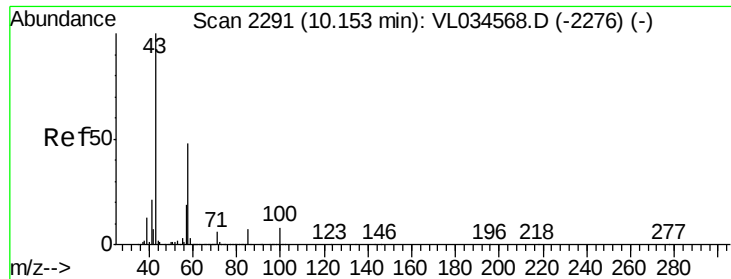
43 100

58 35.9 28.6 43.0



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





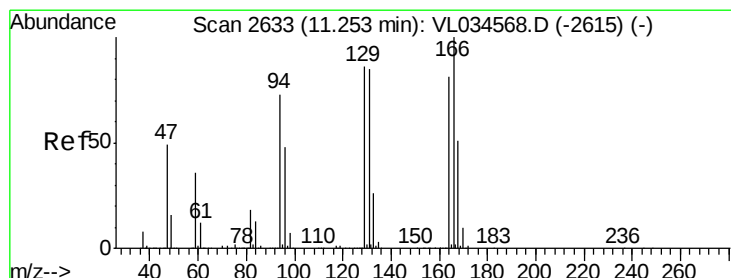
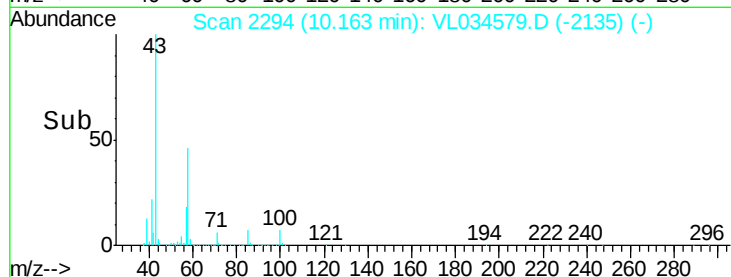
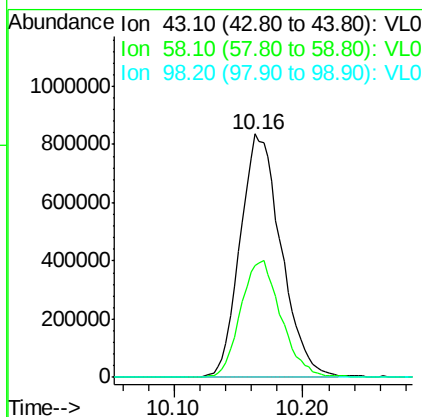
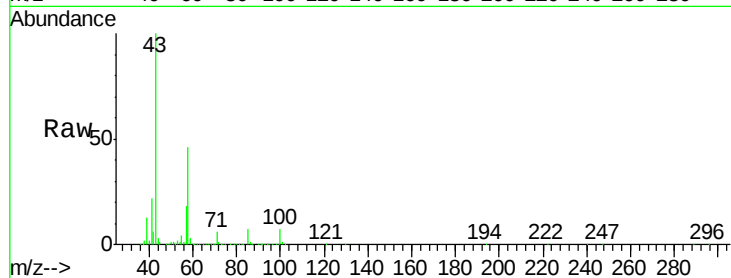
#51
2-Hexanone
Concen: 9.690 ppbv
RT: 10.16 min Scan# 2294
Delta R.T. 0.01 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL0204ABS01

Tot Ion: 43 Resp: 1847331
Ion Ratio Lower Upper
43 100
58 47.6 37.9 56.9
98 0.4 0.3 0.5

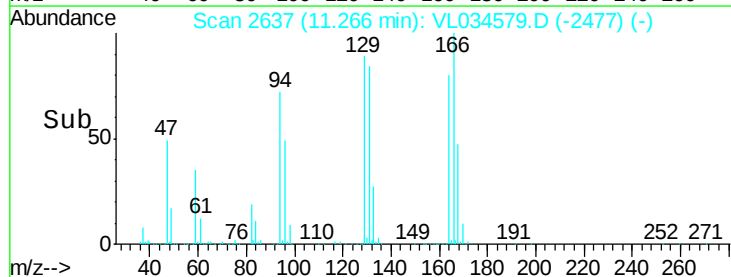
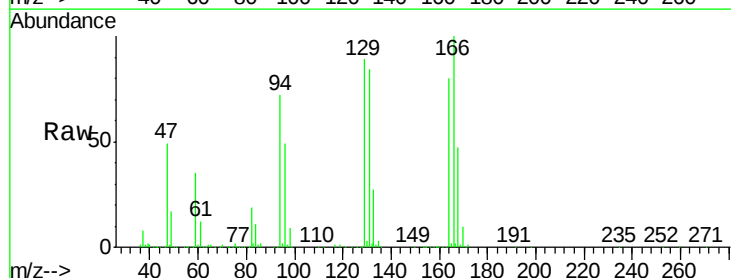
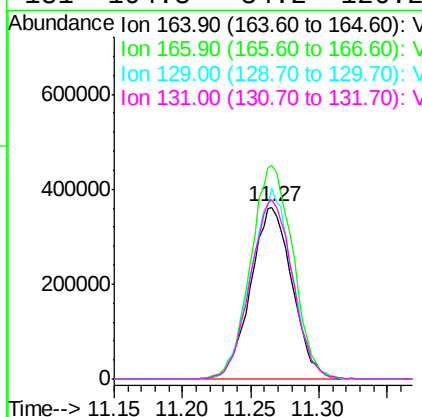
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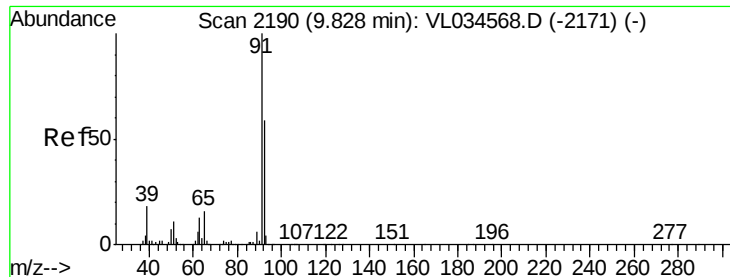
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#52
Tetrachloroethene
Concen: 9.141 ppbv
RT: 11.27 min Scan# 2637
Delta R.T. 0.01 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Tgt Ion: 164 Resp: 763760
Ion Ratio Lower Upper
164 100
166 124.5 99.0 148.4
129 111.1 85.3 127.9
131 104.3 84.2 126.2





#53

Toluene

Concen: 9.894 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

Tot Ion: 91 Resp: 2260710

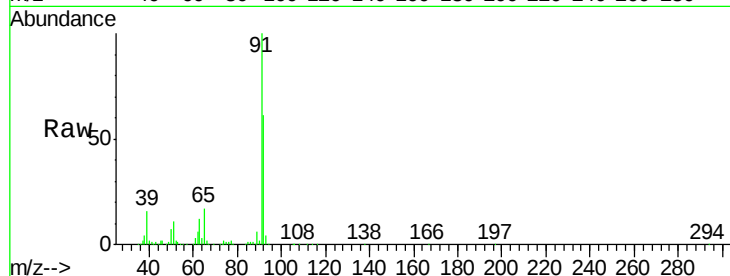
Ion Ratio Lower Upper

91 100

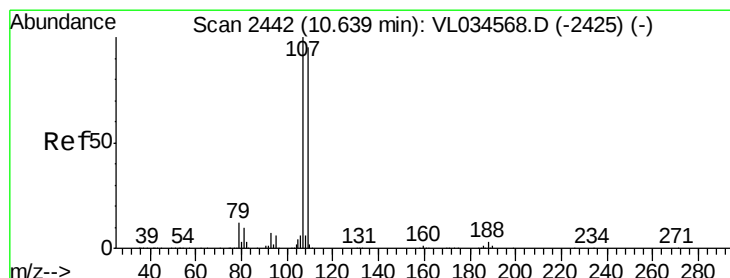
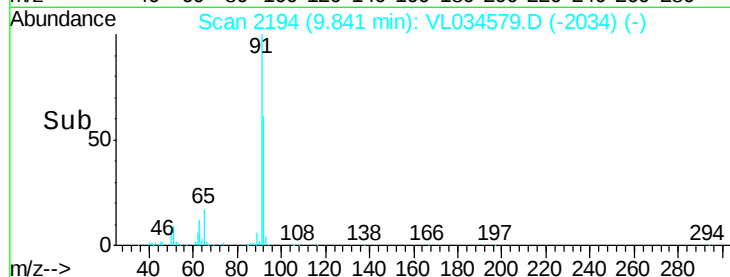
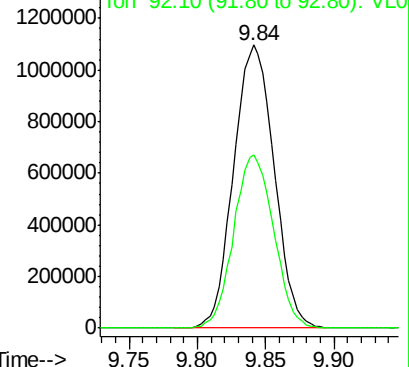
92 60.5 48.2 72.2

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Abundance Ion 91.10 (90.80 to 91.80): VL0



#54

1,2-Dibromoethane

Concen: 9.710 ppbv

RT: 10.65 min Scan# 2447

Delta R.T. 0.02 min

Lab File: VL034579.D

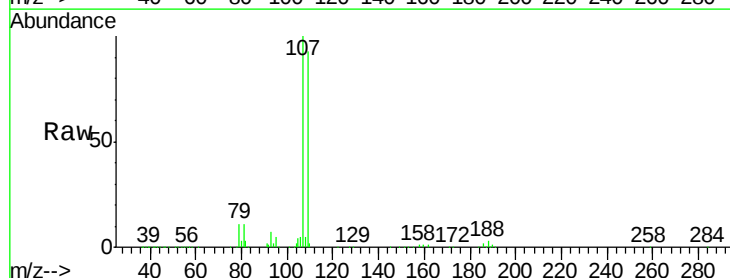
Acq: 4 Feb 2020 13:56

Tgt Ion: 107 Resp: 1358796

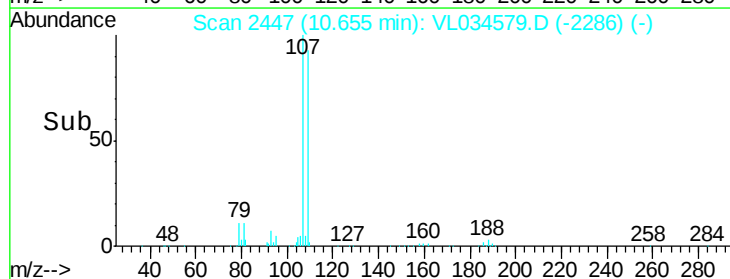
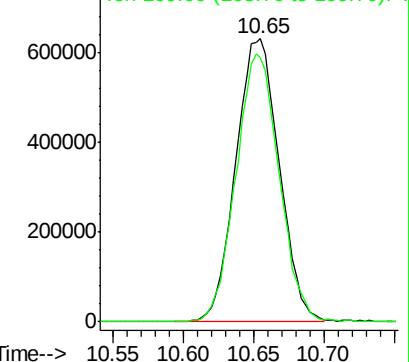
Ion Ratio Lower Upper

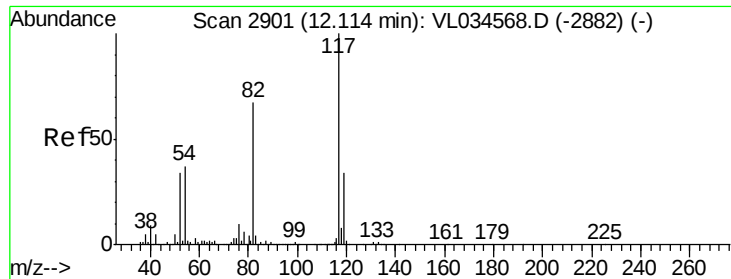
107 100

109 93.3 75.9 113.9



Abundance Ion 107.00 (106.70 to 107.70): V





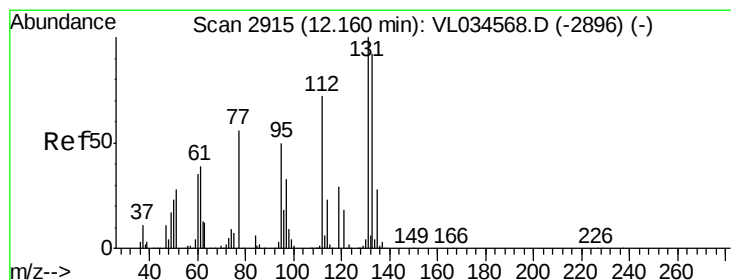
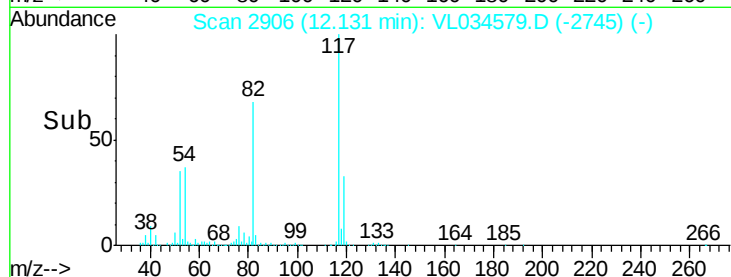
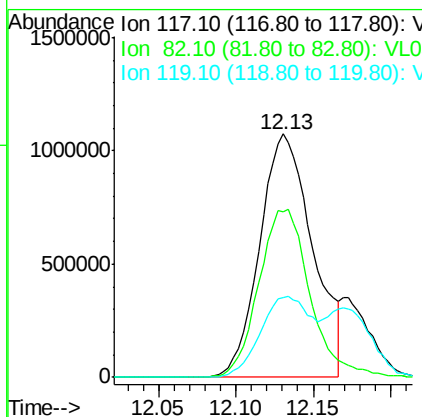
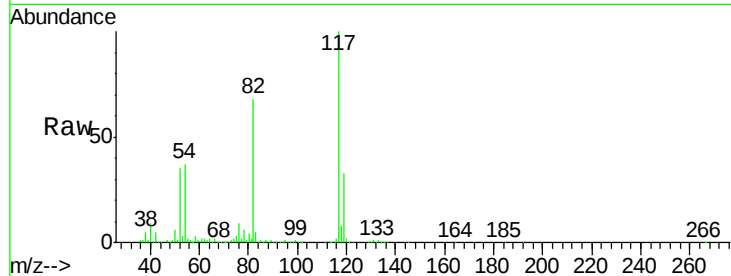
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2906
Delta R.T. 0.02 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL0204ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.2	54.2	81.4
119	33.7	26.1	39.1

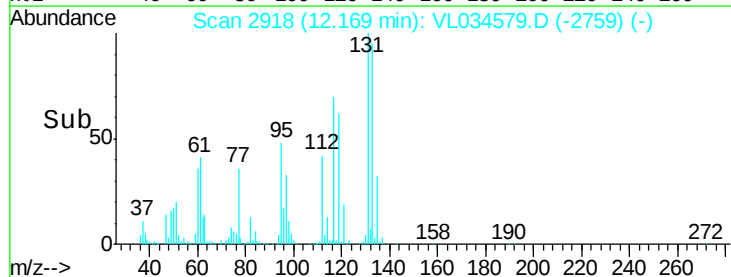
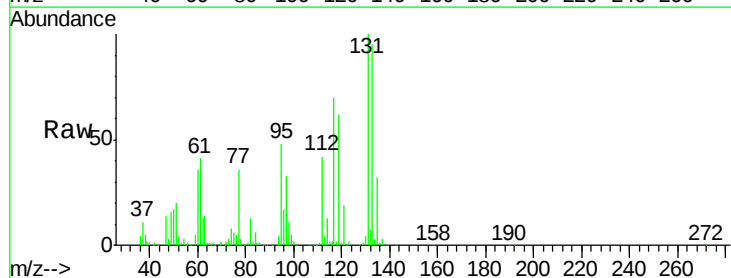
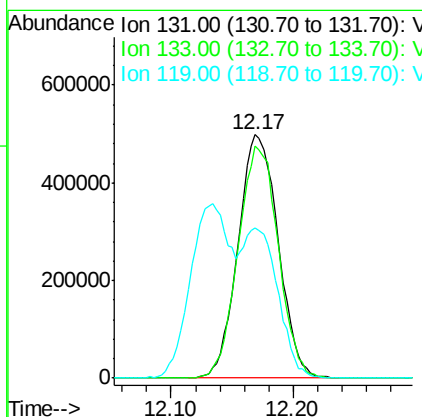
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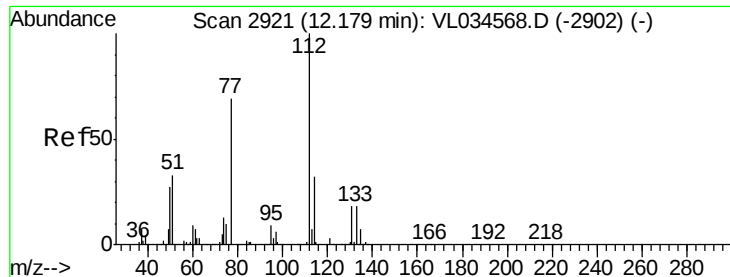
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.934 ppbv
RT: 12.17 min Scan# 2918
Delta R.T. 0.01 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.5	75.8	113.8
119	52.0	47.0	70.6





#57

Chlorobenzene

Concen: 8.504 ppbv

RT: 12.19 min Scan# 2926

Delta R.T. 0.02 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

Tot Ion:112 Resp: 1792886

Ion Ratio Lower Upper

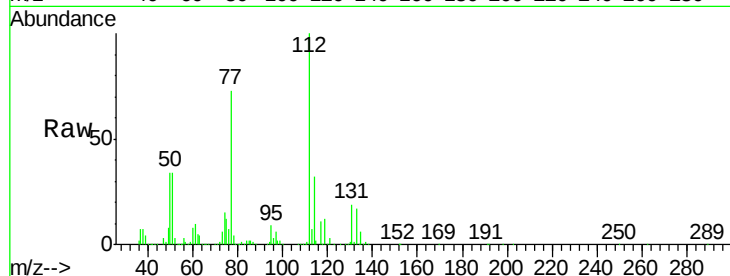
112 100

77 72.8 56.5 84.7

114 31.8 29.2 35.6

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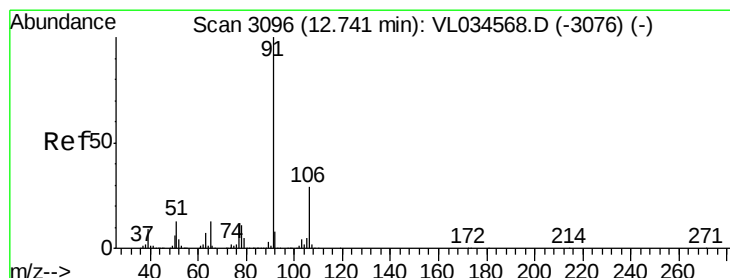
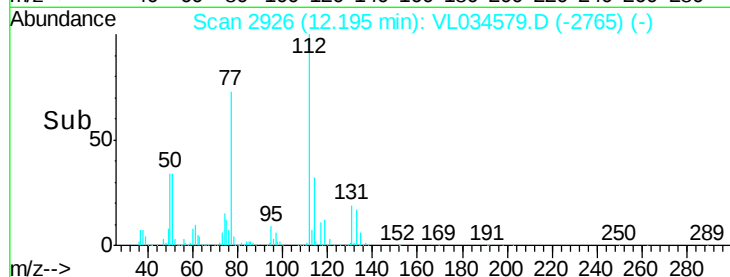
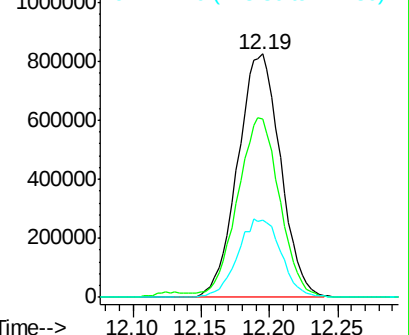
MMDadoda
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.247 ppbv

RT: 12.75 min Scan# 3100

Delta R.T. 0.01 min

Lab File: VL034579.D

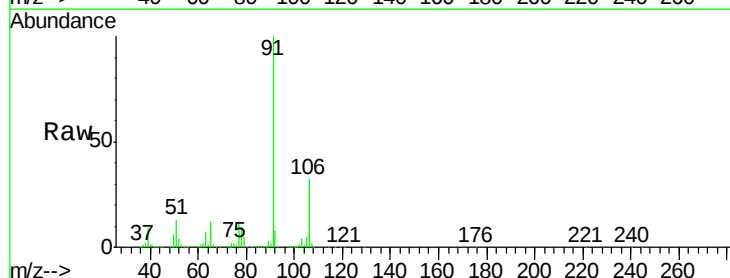
Acq: 4 Feb 2020 13:56

Tgt Ion: 91 Resp: 3170283

Ion Ratio Lower Upper

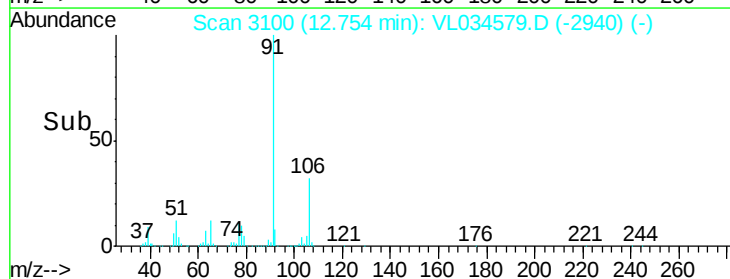
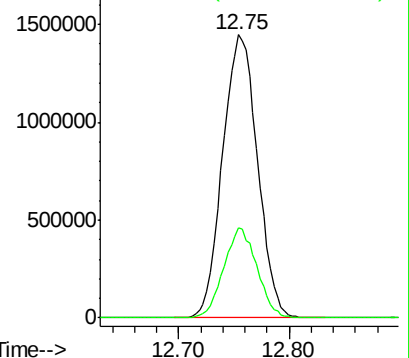
91 100

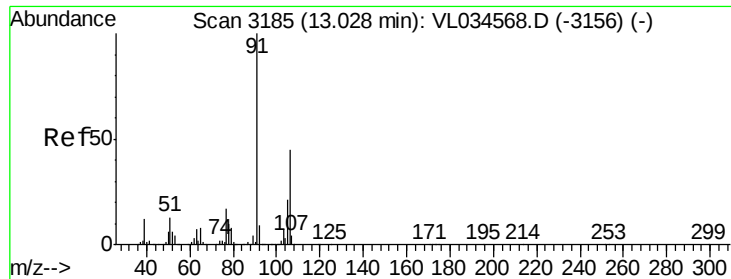
106 31.6 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





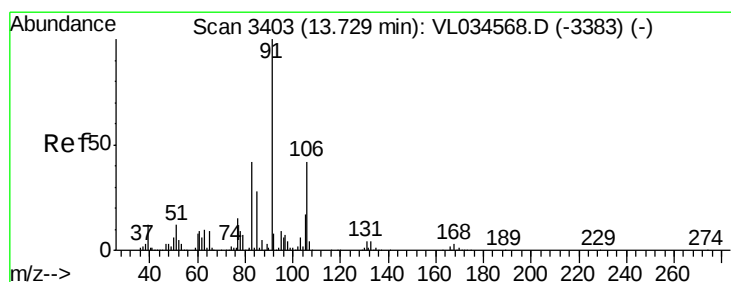
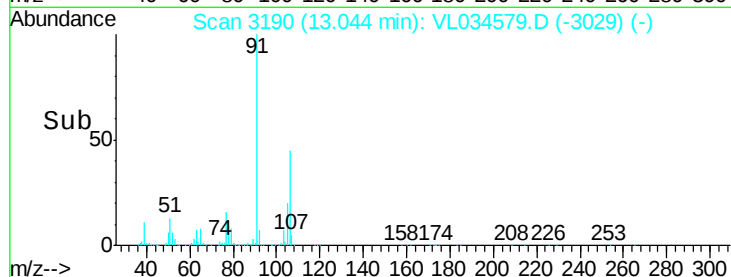
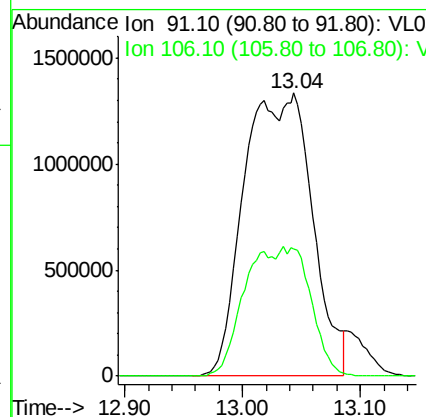
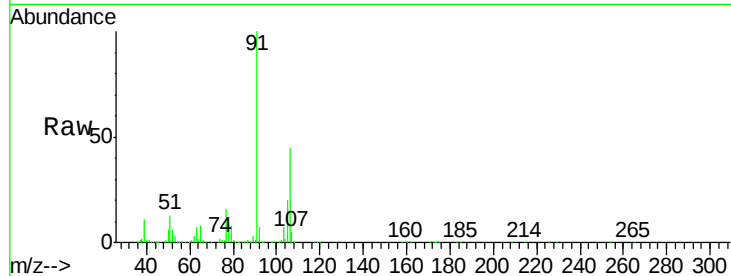
#59
m/p-Xylene
Concen: 17.708 ppbv m
RT: 13.04 min Scan# 3190
Delta R.T. 0.02 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL0204ABS01

Tot Ion: 91 Resp: 5366828
Ion Ratio Lower Upper
91 100
106 43.9 35.3 52.9

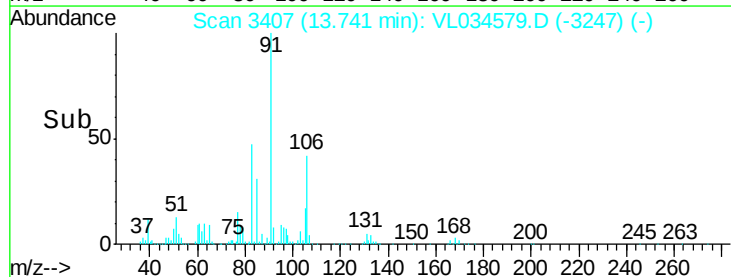
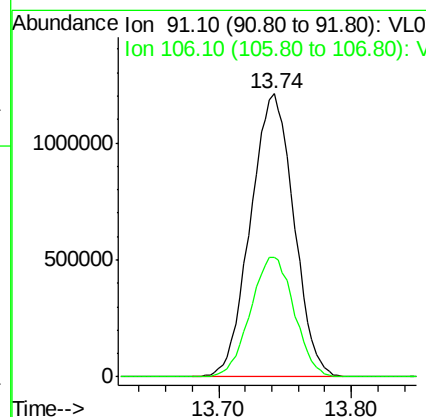
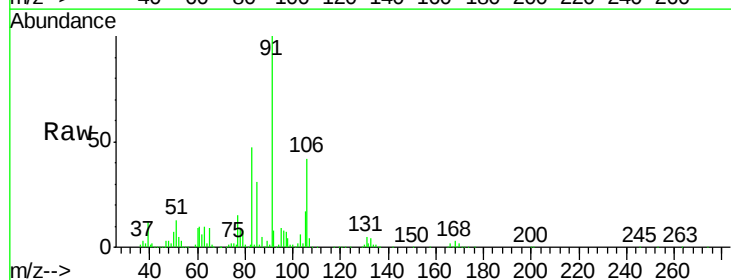
Manual Integrations
APPROVED

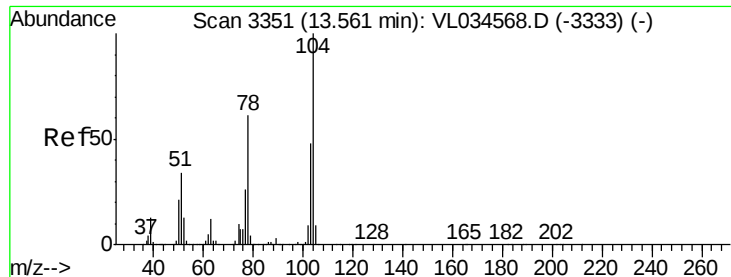
MMDadoda
2/5/2020 2:50:09 PM



#60
o-Xylene
Concen: 9.025 ppbv
RT: 13.74 min Scan# 3407
Delta R.T. 0.01 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Tgt Ion: 91 Resp: 2746906
Ion Ratio Lower Upper
91 100
106 42.7 21.6 65.0





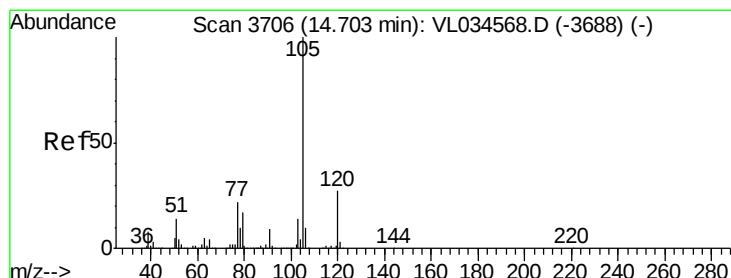
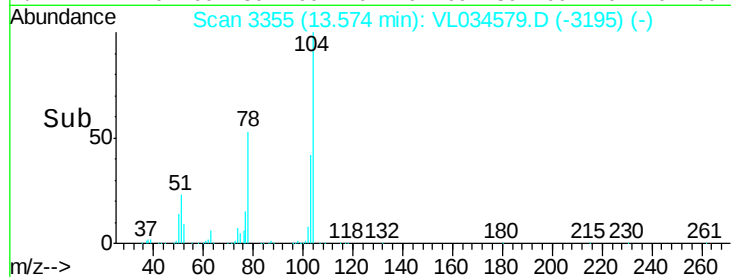
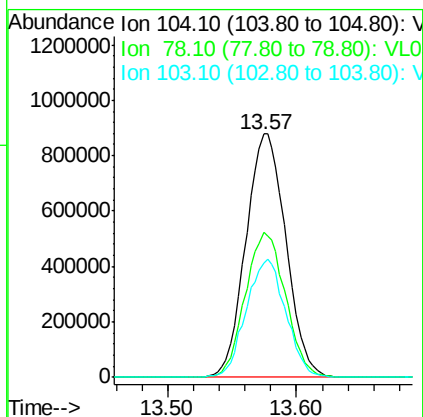
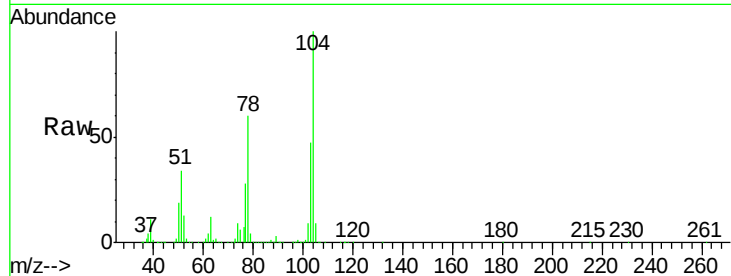
#61
Stvrene
Concen: 9.378 ppbv
RT: 13.57 min Scan# 3355
Delta R.T. 0.01 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL0204ABS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	59.8	47.0	70.6
103	47.9	38.5	57.7

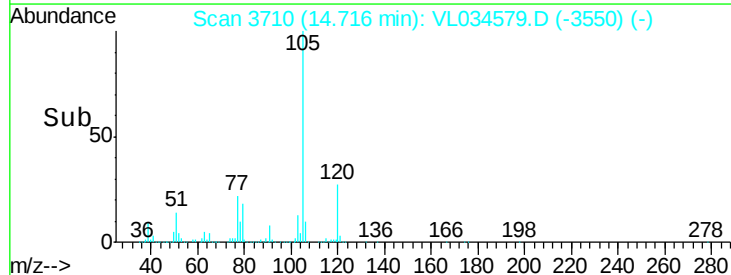
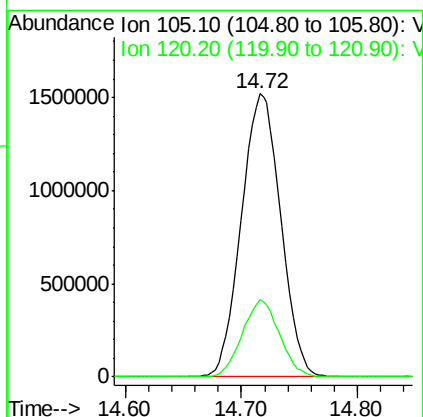
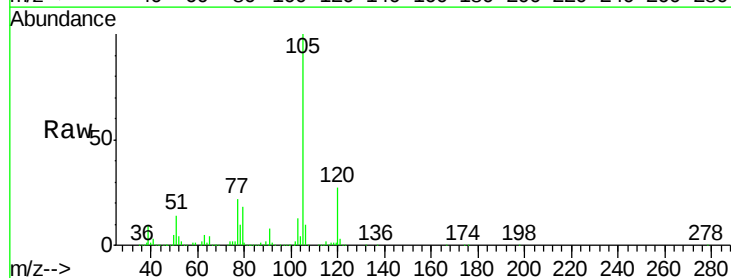
Manual Integrations
APPROVED

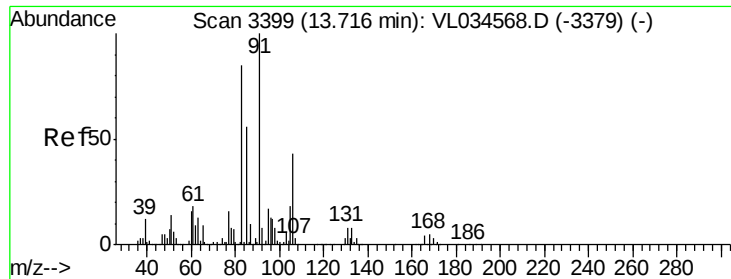
MMDadoda
2/5/2020 2:50:09 PM



#62
Isopropylbenzene
Concen: 9.085 ppbv
RT: 14.72 min Scan# 3710
Delta R.T. 0.01 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.9	20.7	31.1





#63

1,1,2,2-Tetrachloroethane

Concen: 8.334 ppbv

RT: 13.73 min Scan# 3402

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

Tot Ion: 83 Resp: 1961688

Ion Ratio Lower Upper

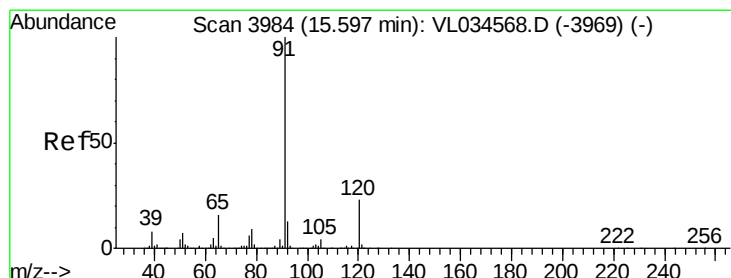
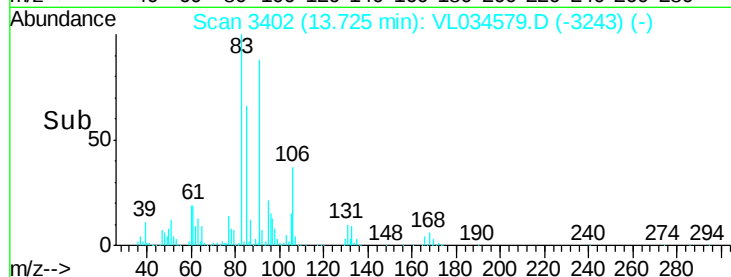
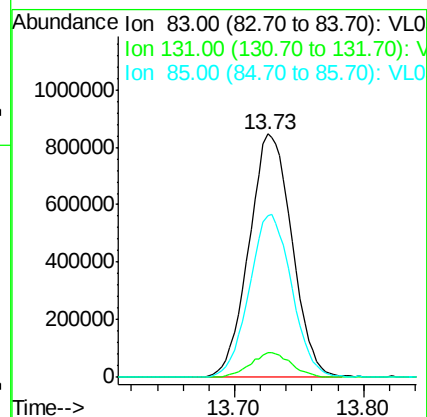
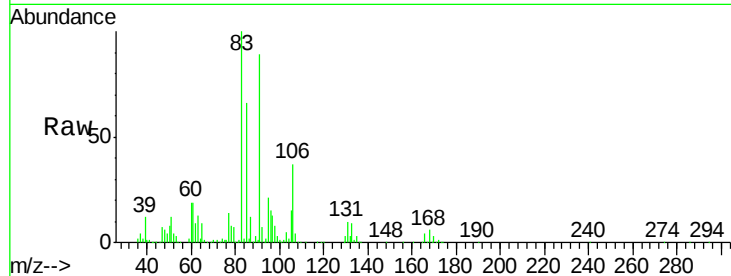
83 100

131 9.7 4.9 14.6

85 66.3 32.6 98.0

Manual Integrations
APPROVED

MMDadoda
2/5/2020 2:50:09 PM



#64

n-propylbenzene

Concen: 9.181 ppbv

RT: 15.61 min Scan# 3989

Delta R.T. 0.02 min

Lab File: VL034579.D

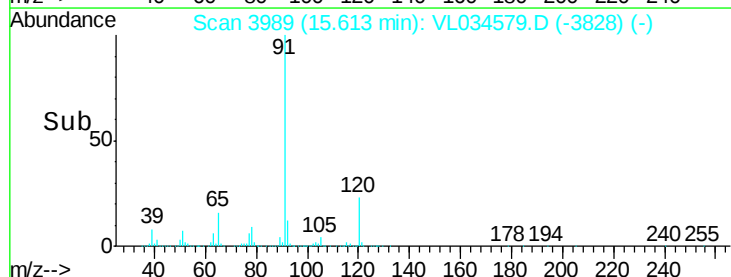
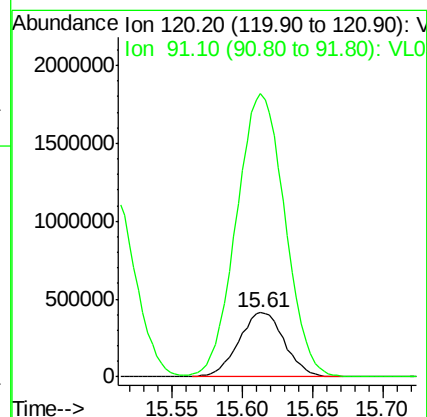
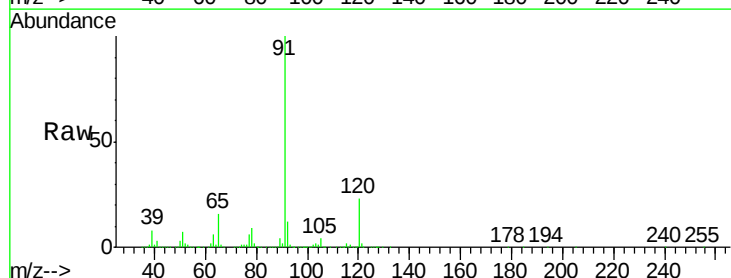
Acq: 4 Feb 2020 13:56

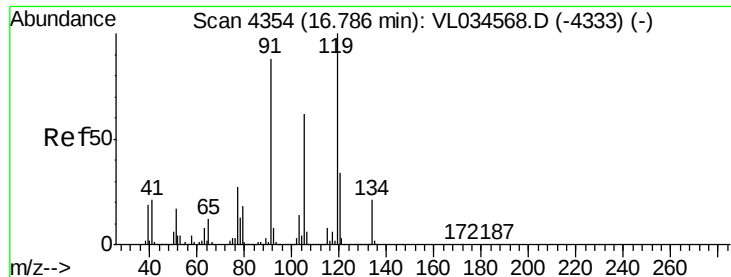
Tgt Ion: 120 Resp: 931606

Ion Ratio Lower Upper

120 100

91 469.8 365.3 547.9





#65

tert-Butylbenzene

Concen: 9.276 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

Tot Ion:119 Resp: 3314456

Ion Ratio Lower Upper

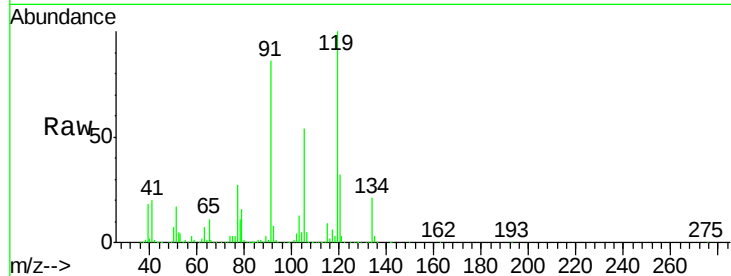
119 100

91 90.5 72.2 108.4

134 20.2 15.9 23.9

Manual Integrations
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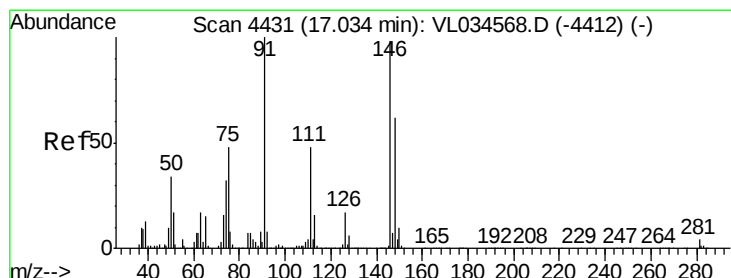
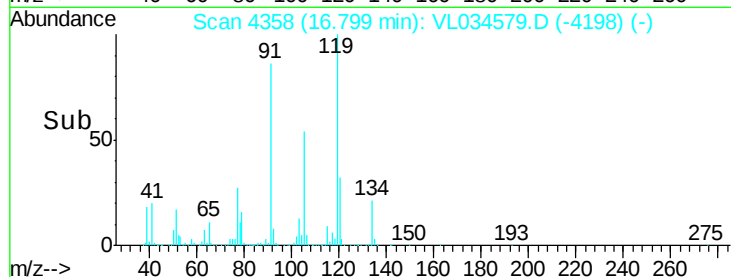
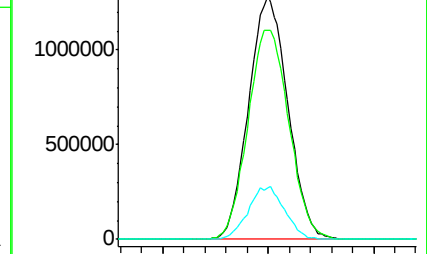
MMDadoda
2/5/2020 2:50:09 PM



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: 10.505 ppbv

RT: 17.05 min Scan# 4435

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

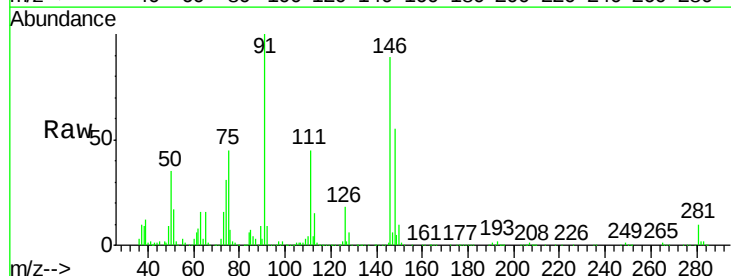
Tgt Ion: 91 Resp: 1573975

Ion Ratio Lower Upper

91 100

126 16.5 13.4 20.0

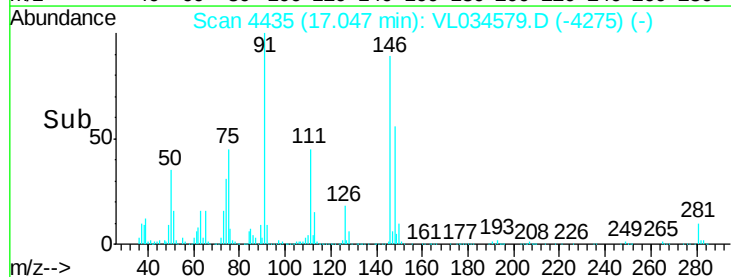
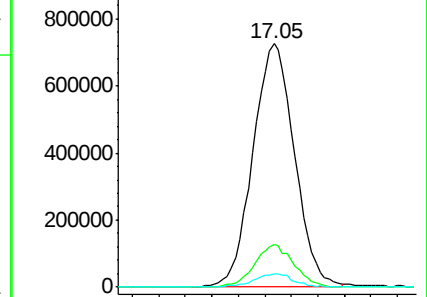
128 5.3 4.3 6.5

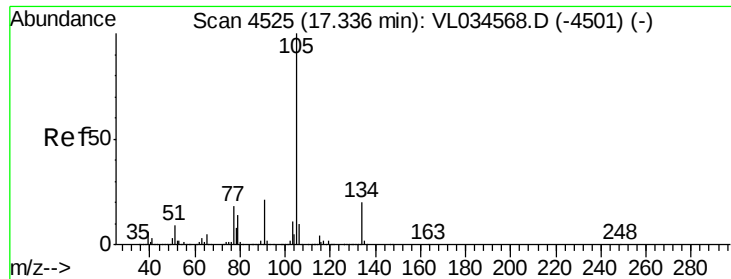


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





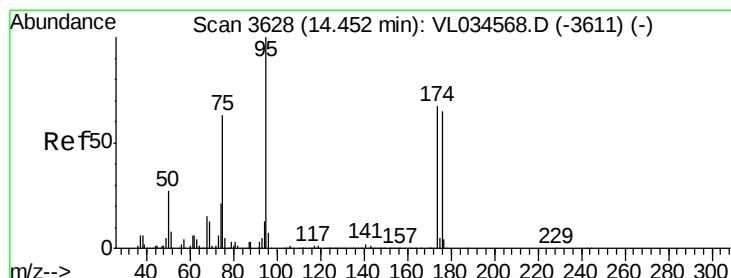
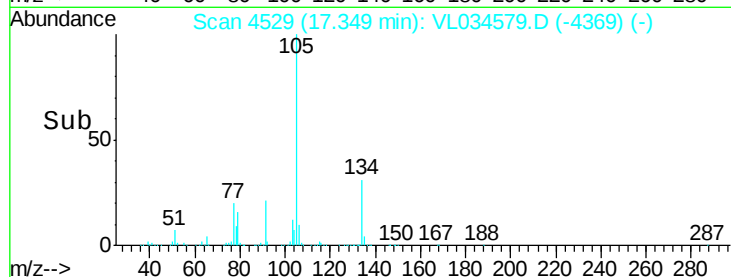
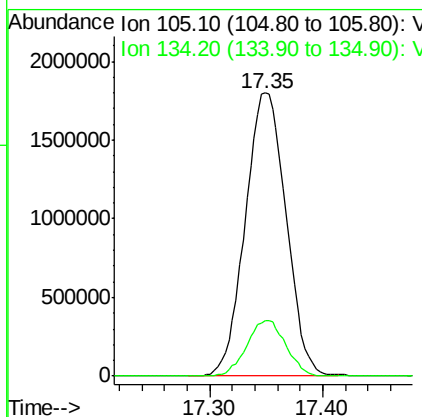
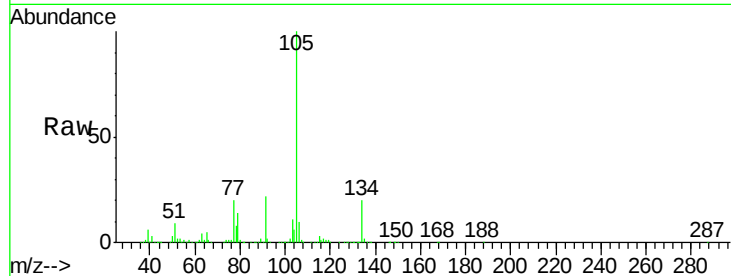
#67
 sec-Butylbenzene
 Concen: 9.197 ppbv
 RT: 17.35 min Scan# 4529
 Delta R.T. 0.01 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

Tot Ion: 105 Resp: 4516638
 Ion Ratio Lower Upper
 105 100
 134 18.9 15.5 23.3

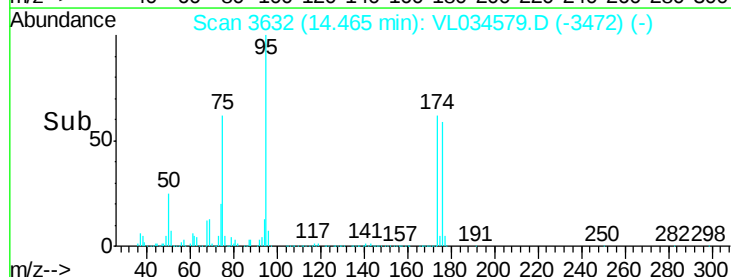
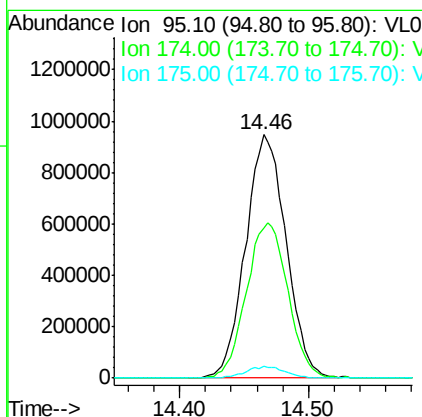
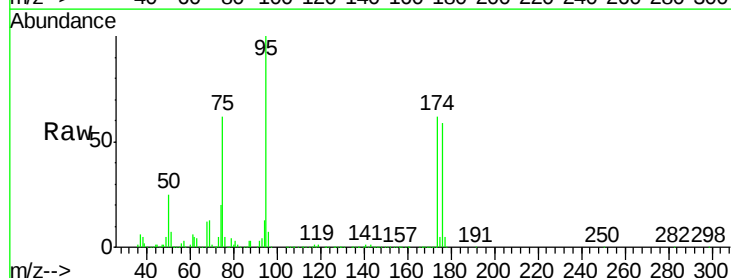
Manual Integrations
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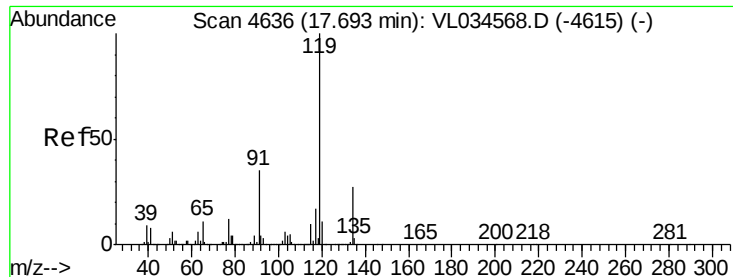
MMDadoda
 2/5/2020 2:50:09 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.570 ppbv
 RT: 14.46 min Scan# 3632
 Delta R.T. 0.01 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Tgt Ion: 95 Resp: 2072131
 Ion Ratio Lower Upper
 95 100
 174 65.5 52.3 78.5
 175 4.7 3.8 5.6





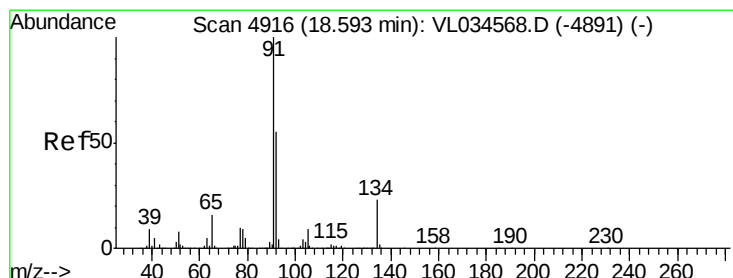
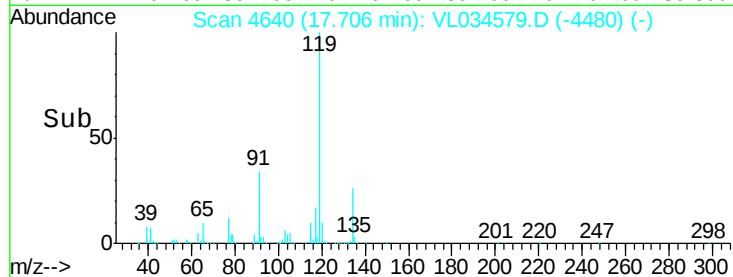
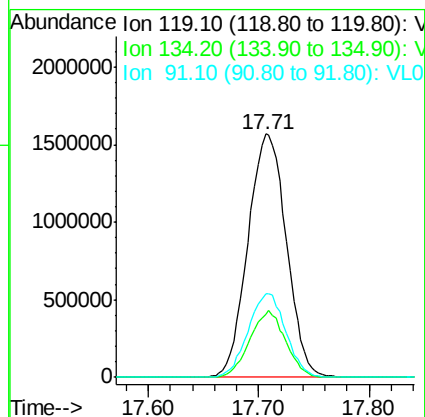
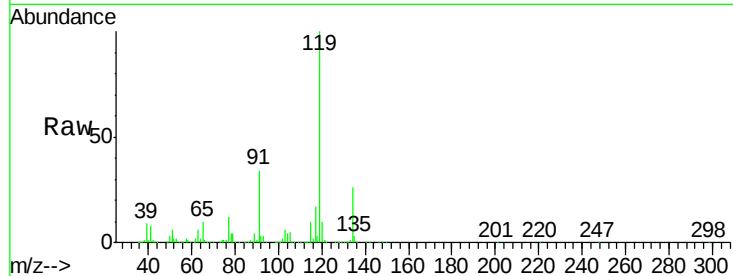
#69
 p-Isopropyltoluene
 Concen: 9.497 ppbv
 RT: 17.71 min Scan# 4640
 Delta R.T. 0.01 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.7	31.1
91	33.9	26.9	40.3

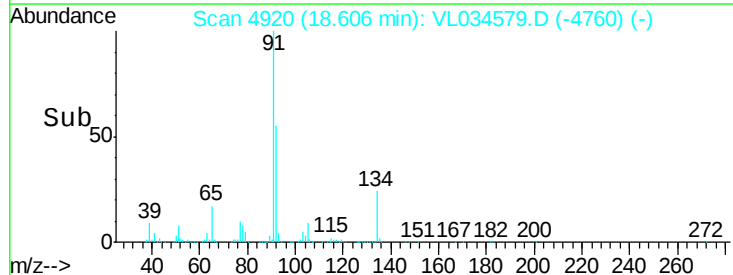
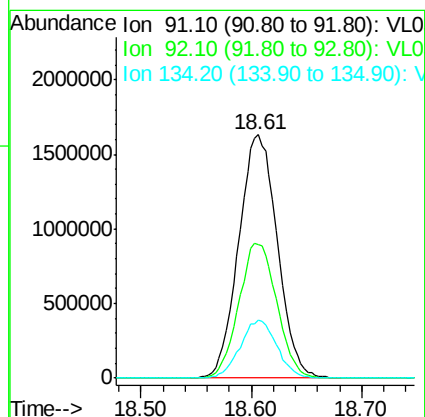
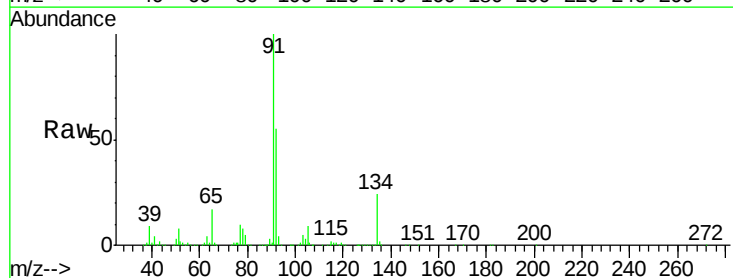
Manual Integrations
 APPROVED

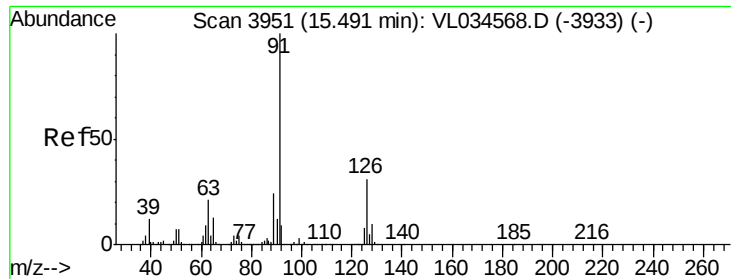
MMDadoda
 2/5/2020 2:50:09 PM



#70
 n-Butylbenzene
 Concen: 9.328 ppbv
 RT: 18.61 min Scan# 4920
 Delta R.T. 0.01 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.8	43.6	65.4
134	22.7	18.2	27.4





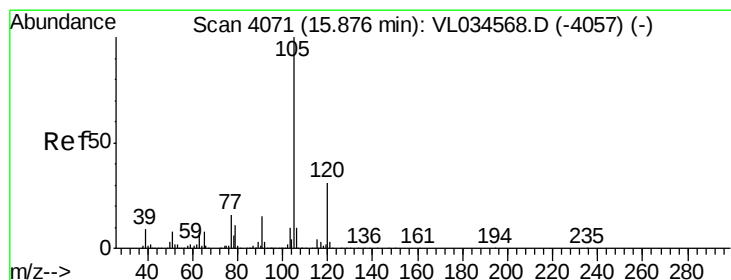
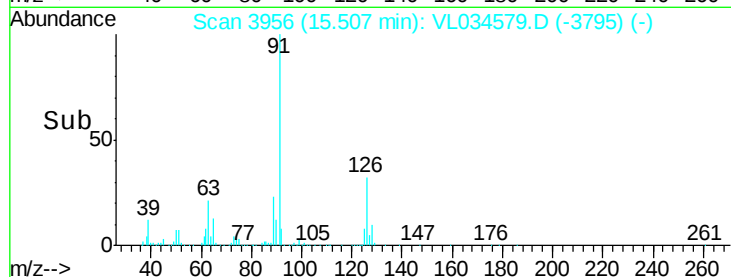
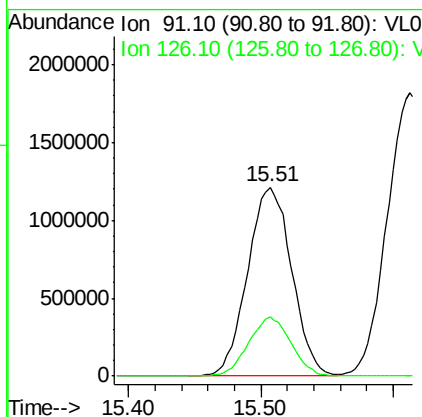
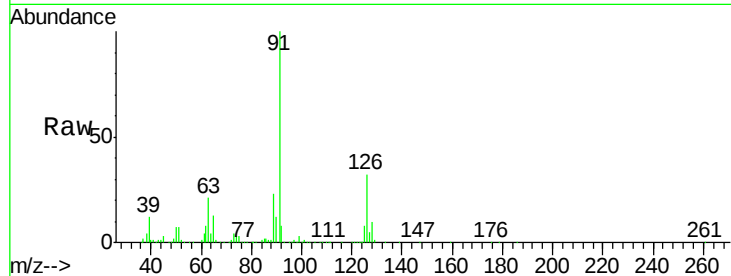
#71
2-Chlorotoluene
Concen: 9.343 ppbv
RT: 15.51 min Scan# 3956
Delta R.T. 0.02 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL0204ABS01

Tot Ion: 91 Resp: 2797134
Ion Ratio Lower Upper
91 100
126 30.2 12.0 47.8

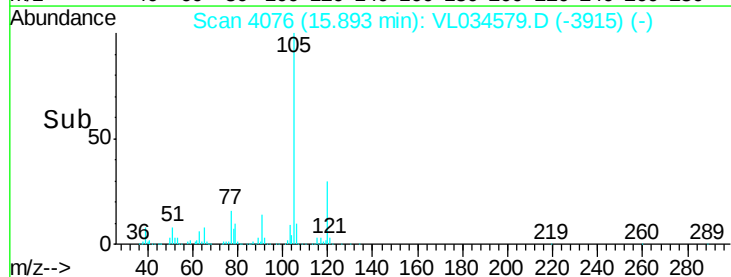
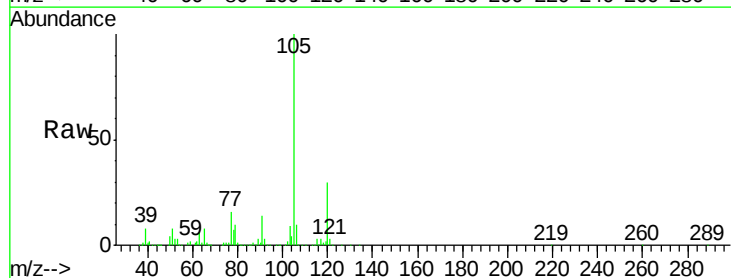
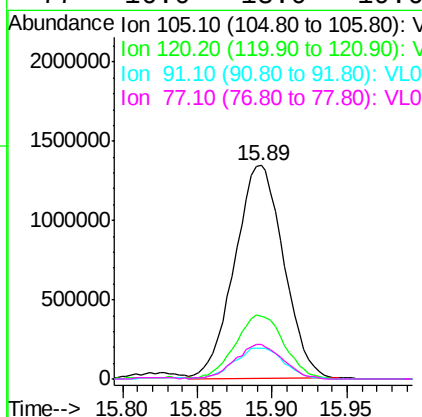
Manual Integrations
APPROVED

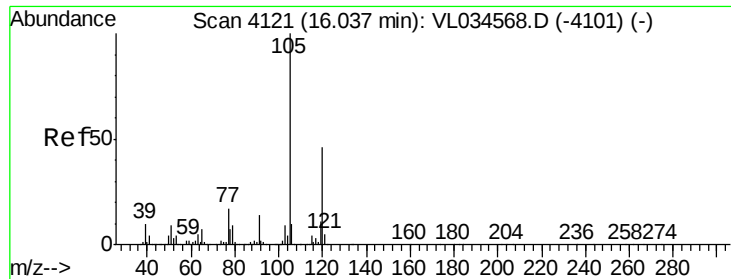
MMDadoda
2/5/2020 2:50:09 PM



#72
4-Ethyltoluene
Concen: 9.154 ppbv
RT: 15.89 min Scan# 4076
Delta R.T. 0.02 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Tgt Ion: 105 Resp: 3060564
Ion Ratio Lower Upper
105 100
120 30.0 23.8 35.6
91 14.9 11.8 17.8
77 16.0 13.0 19.6





#73

1,3,5-Trimethylbenzene

Concen: 9.251 ppbv

RT: 16.05 min Scan# 4124

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Instrument :

MSVOA_L

ClientSampleId :

VL0204ABS01

Tot Ion:105 Resp: 3022167

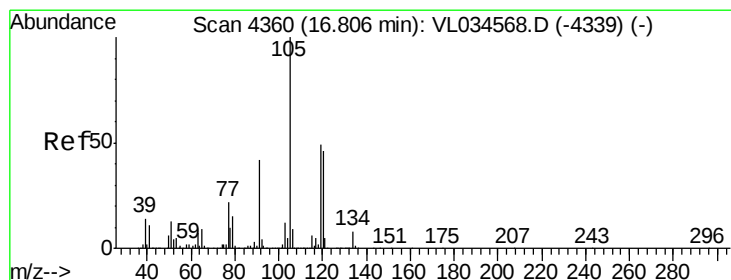
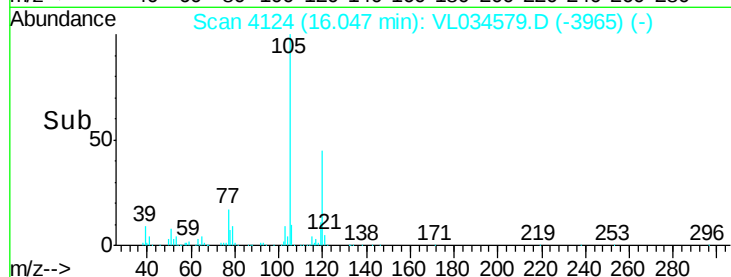
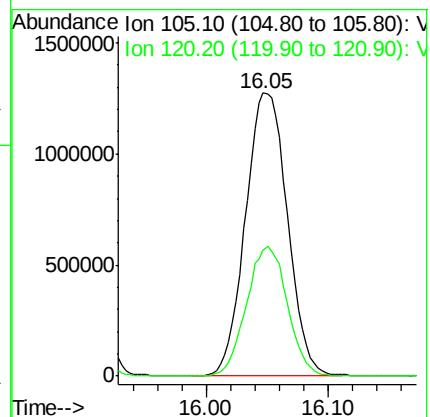
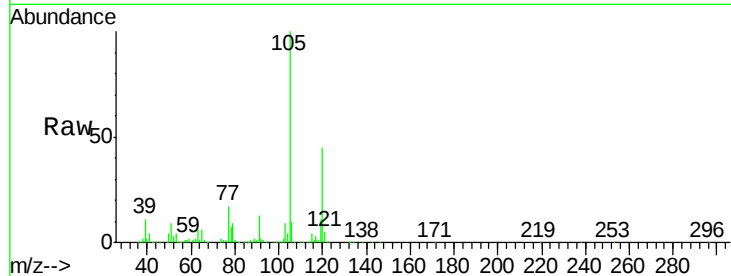
Ion Ratio Lower Upper

105 100

120 44.7 37.0 55.6

Manual Integrations
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2/5/2020 2:50:09 PM



#74

1,2,4-Trimethylbenzene

Concen: 8.744 ppbv

RT: 16.82 min Scan# 4363

Delta R.T. 0.01 min

Lab File: VL034579.D

Acq: 4 Feb 2020 13:56

Tgt Ion:105 Resp: 3162334

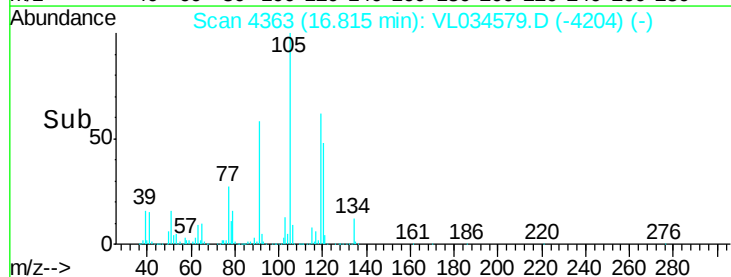
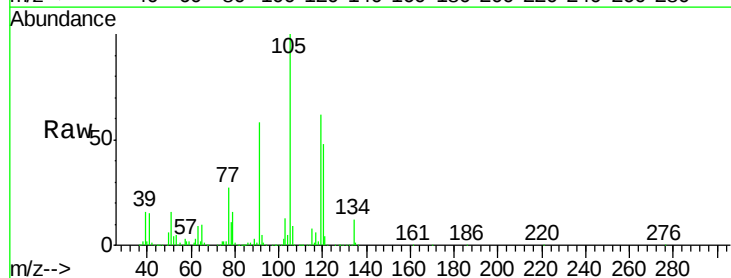
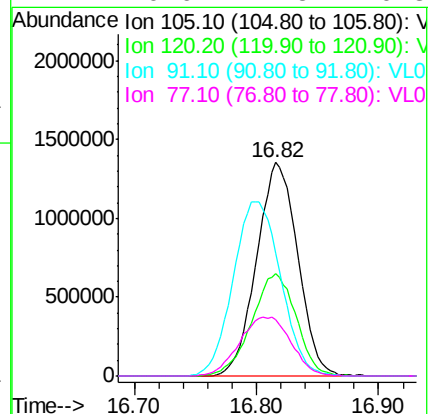
Ion Ratio Lower Upper

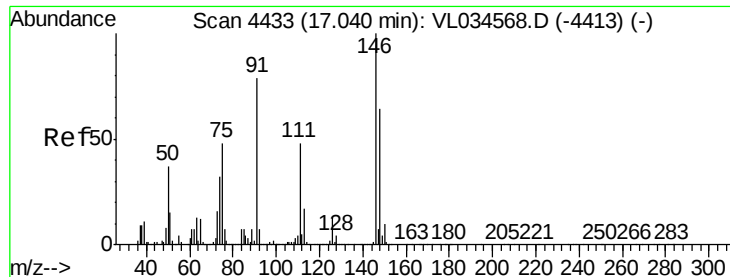
105 100

120 48.1 37.1 55.7

91 57.4 34.3 51.5#

77 26.6 17.5 26.3#





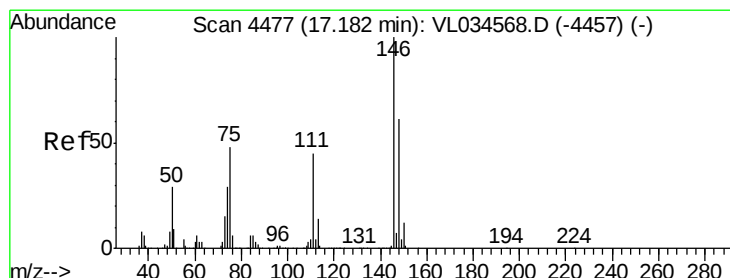
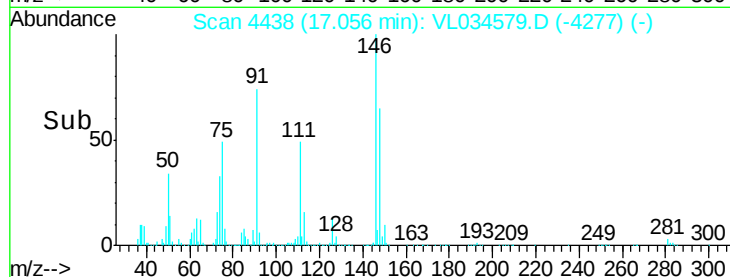
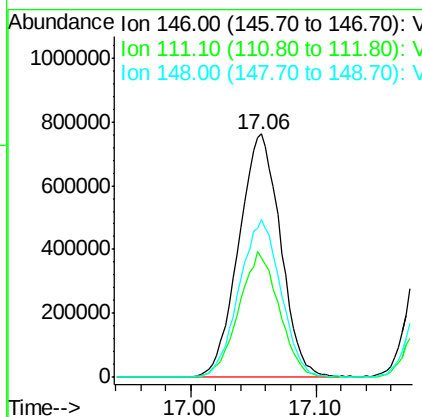
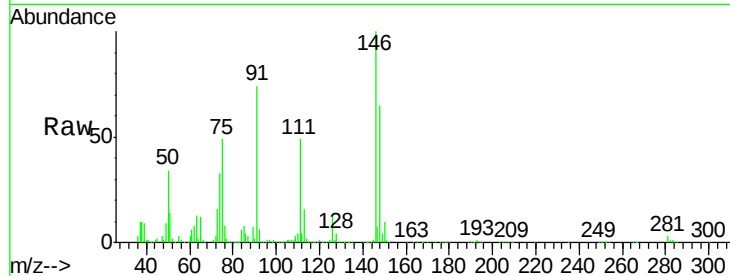
#75
 1,3-Dichlorobenzene
 Concen: 8.450 ppbv
 RT: 17.06 min Scan# 4438
 Delta R.T. 0.02 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.9	24.7	74.1
148	64.9	32.8	98.4

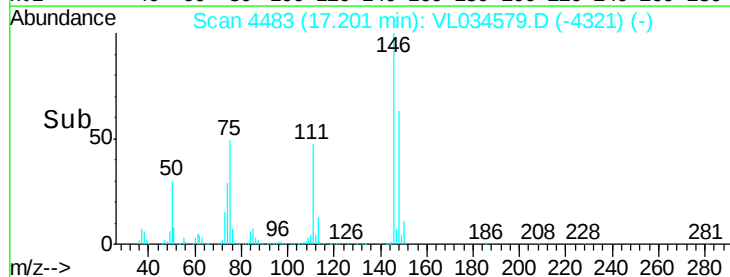
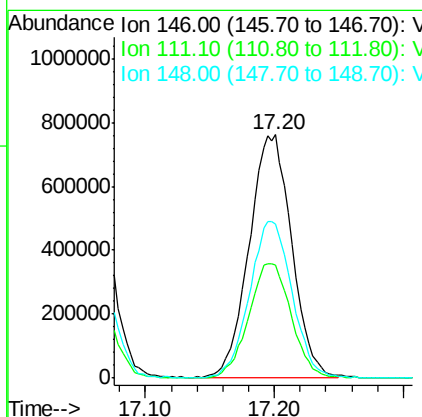
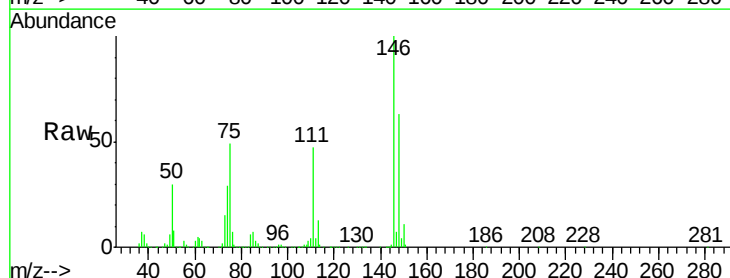
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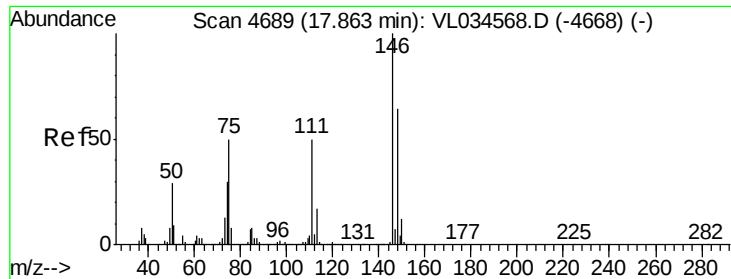
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#76
 1,4-Dichlorobenzene
 Concen: 8.507 ppbv
 RT: 17.20 min Scan# 4483
 Delta R.T. 0.02 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.5	24.1	72.2
148	64.5	32.6	98.0





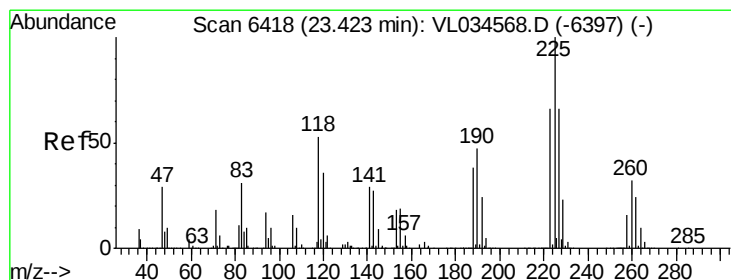
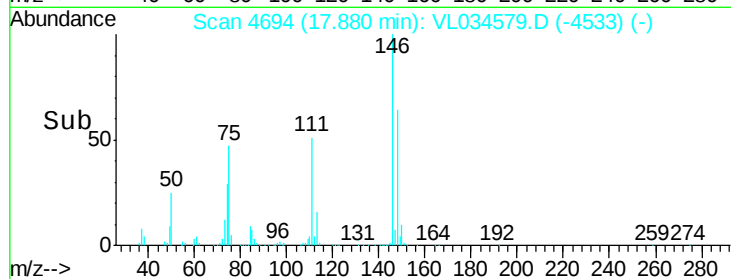
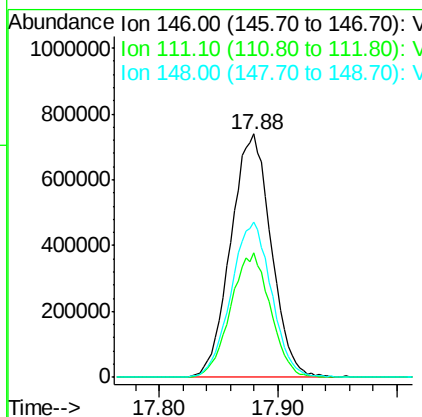
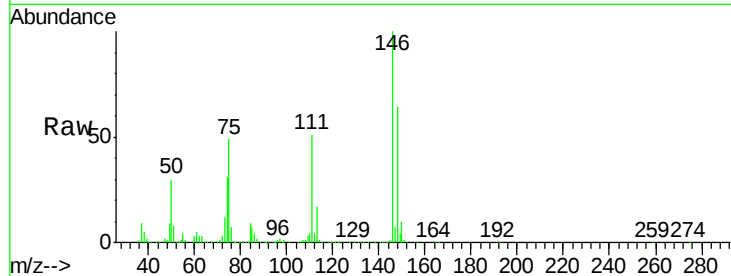
#77
 1,2-Dichlorobenzene
 Concen: 8.628 ppbv
 RT: 17.88 min Scan# 4694
 Delta R.T. 0.02 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

Tot Ion:146 Resp: 1725986
 Ion Ratio Lower Upper
 146 100
 111 50.7 25.1 75.3
 148 64.3 32.2 96.6

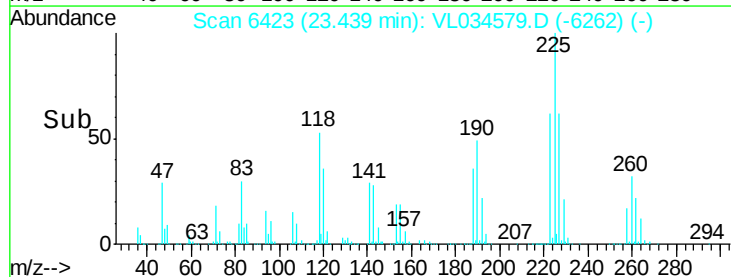
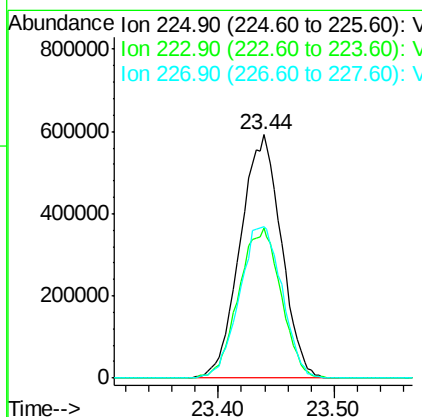
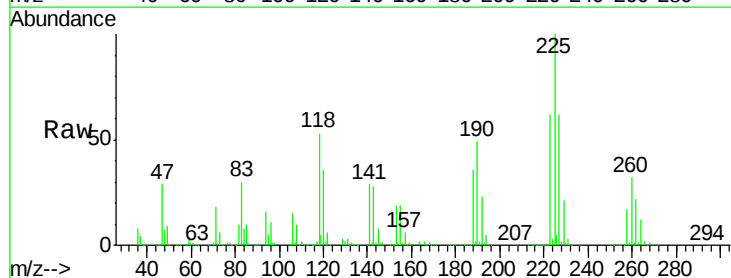
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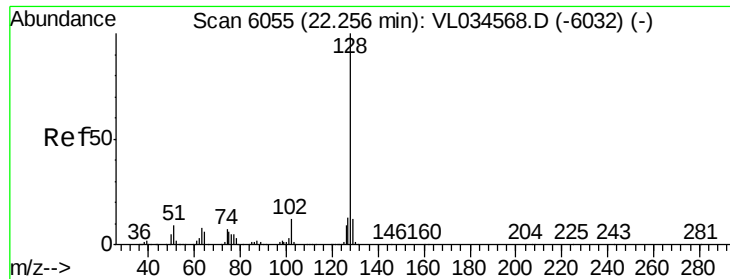
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#78
 Hexachloro-1,3-Butadiene
 Concen: 7.608 ppbv
 RT: 23.44 min Scan# 6423
 Delta R.T. 0.02 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Tgt Ion:225 Resp: 1455311
 Ion Ratio Lower Upper
 225 100
 223 63.3 50.9 76.3
 227 64.6 51.6 77.4





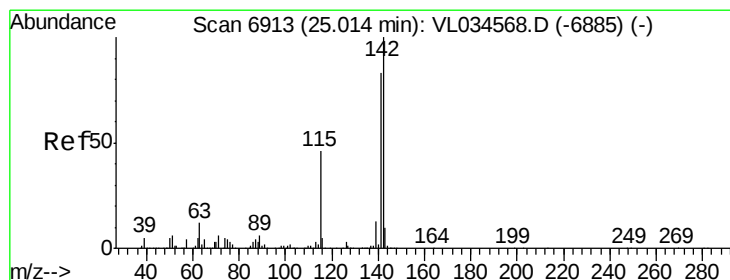
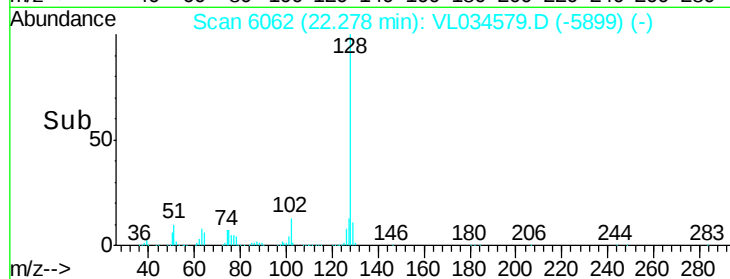
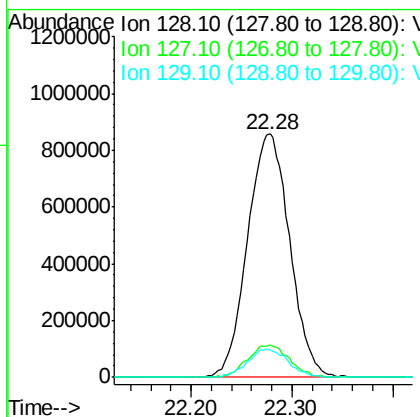
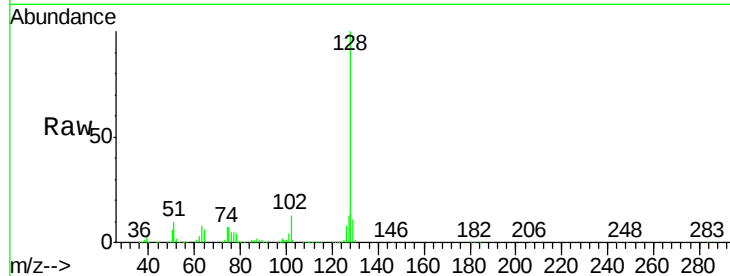
#79
Naphthalene
Concen: 8.711 ppbv
RT: 22.28 min Scan# 6062
Delta R.T. 0.02 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Instrument :
MSVOA_L
ClientSampleId :
VL0204ABS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.1	15.1
129	11.2	9.3	13.9

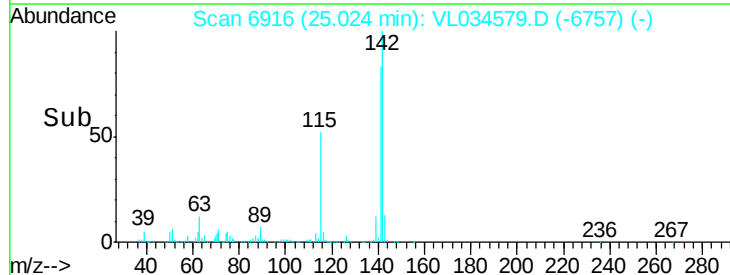
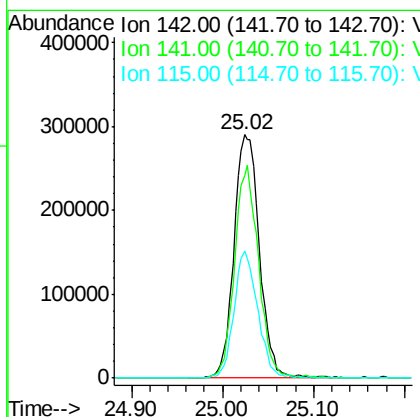
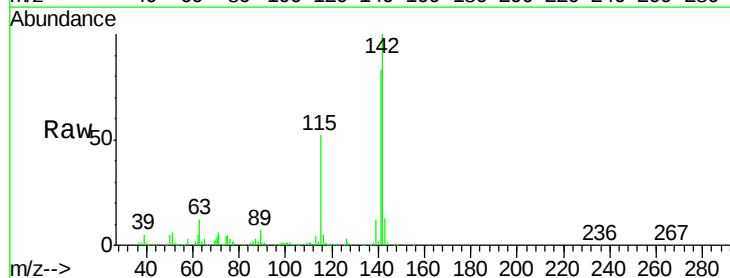
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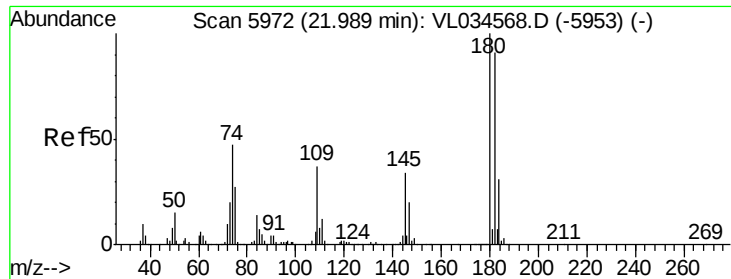
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#80
Naphthalene, 2-methyl-
Concen: 5.147 ppbv
RT: 25.02 min Scan# 6916
Delta R.T. 0.01 min
Lab File: VL034579.D
Acq: 4 Feb 2020 13:56

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.0	67.0	100.4
115	48.5	39.5	59.3





#81
 1,2,4-Trichlorobenzene
 Concen: 8.105 ppbv
 RT: 22.00 min Scan# 5977
 Delta R.T. 0.02 min
 Lab File: VL034579.D
 Acq: 4 Feb 2020 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0204ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.8	116.6
184	31.2	25.4	38.0

Manual Integrations
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