

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081219\
 Data File : VL034102.D
 Acq On : 12 Aug 2019 12:59
 Operator : SY/AP
 Sample : VL0812ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0812ABS01

Manual Integrations
 APPROVED

MMDadoda
 8/16/2019 8:54:18 AM

Quant Time: Aug 13 04:53:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 0
 QLast Update : Mon Aug 05 17:09:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1195894	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2387197	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2568528m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2114330	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	1453129	9.873	ppbv	98
3) Chlorodifluoromethane	2.98	51	1174019	8.490	ppbv	97
4) Chloromethane	3.14	50	764516	8.575	ppbv	99
5) Vinyl Chloride	3.26	62	675877	8.604	ppbv	100
6) Bromomethane	3.48	94	360544	8.882	ppbv	95
7) Chloroethane	3.56	64	245259	8.334	ppbv	99
8) Dichlorotetrafluoroethane	3.19	85	1398563	8.237	ppbv	94
9) Propene	3.01	41	684114	8.391	ppbv	99
10) Heptane	8.19	43	1749424	8.295	ppbv	98
11) Trichlorofluoromethane	3.97	101	1443399	8.272	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.51	101	1015836	8.250	ppbv	93
13) Ethanol	3.62	45	130555	5.682	ppbv	98
14) Bromoethene	3.75	108	452045	8.221	ppbv	98
15) Acetone	3.87	43	1249264	7.310	ppbv	99
16) 1,3-Butadiene	3.33	39	683224	8.221	ppbv	100
17) tert-Butyl alcohol	4.32	59	1232797	7.731	ppbv	100
18) 1,1-Dichloroethene	4.31	96	465815	7.999	ppbv	94
19) Isopropyl Alcohol	3.99	45	988447	7.428	ppbv #	46
20) Methylene Chloride	4.37	84	417509	8.147	ppbv	96
21) Allyl Chloride	4.44	41	953021	8.057	ppbv	98
22) trans-1,2-Dichloroethene	4.92	96	481859	8.515	ppbv	100
23) Vinyl Acetate	5.11	43	2254948	7.958	ppbv	99
24) 1,1-Dichloroethane	5.05	63	1444708	8.569	ppbv	99
25) Ethyl Acetate	5.72	43	2668502	7.939	ppbv	100
26) Hexane	5.73	57	1165615	8.181	ppbv	97
27) Carbon Disulfide	4.58	76	1284853	8.554	ppbv	99
28) Methyl tert-Butyl Ether	5.07	73	1948232	8.177	ppbv	99
29) Chloroform	5.80	83	1686497	8.708	ppbv	99
30) Cyclohexane	7.19	84	967534	8.597	ppbv	98
31) cis-1,2-Dichloroethene	5.60	61	1201946	8.541	ppbv	97
32) 1,1,1-Trichloroethane	6.57	97	1597653	8.335	ppbv	99
34) 2-Butanone	5.28	43	1889532	8.514	ppbv	98
35) Carbon Tetrachloride	7.08	117	1545143	8.433	ppbv	98
36) Benzene	6.96	78	2325212	8.570	ppbv	98
37) 1,2-Dichloroethane	6.36	62	1330732	9.116	ppbv	100
38) Trichloroethene	7.91	130	763128m	7.262	ppbv	
39) 1,2-Dichloropropane	7.69	63	975812	8.913	ppbv	99
40) 1,4-Dioxane	7.90	88	352659	8.537	ppbv #	96
41) Tetrahydrofuran	6.10	42	1181658	8.655	ppbv	99
42) Bromodichloromethane	7.87	83	1861433	9.095	ppbv	98
43) Methyl Methacrylate	8.08	69	974837	8.759	ppbv	99

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 VL0812ABS01

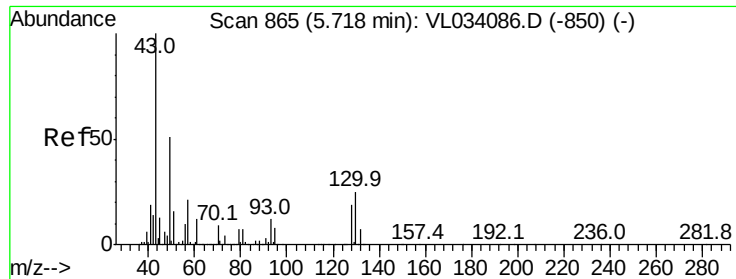
Manual Integrations
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Quant Time: Aug 13 04:53:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 0
 QLast Update : Mon Aug 05 17:09:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	3951925	8.135	ppbv	99
45) t-1,3-Dichloropropene	9.36	75	1278039	9.059	ppbv	99
46) cis-1,3-Dichloropropene	8.78	75	1442615	8.860	ppbv	98
47) 1,1,2-Trichloroethane	9.56	97	918998	8.781	ppbv	98
48) Dibromochloromethane	10.40	129	1436756	8.561	ppbv	100
49) Bromoform	13.14	173	1283259	8.552	ppbv	98
50) 4-Methyl-2-Pentanone	8.81	43	2795630	8.276	ppbv	100
51) 2-Hexanone	10.22	43	2417905	8.518	ppbv #	99
52) Tetrachloroethene	11.31	164	760328	7.256	ppbv	98
53) Toluene	9.89	91	2581202	8.244	ppbv	99
54) 1,2-Dibromoethane	10.70	107	1349244	8.509	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.22	131	933282	7.948	ppbv	95
57) Chlorobenzene	12.24	112	1806772	7.811	ppbv #	96
58) Ethyl Benzene	12.81	91	3476663	8.050	ppbv	98
59) m/p-Xylene	13.09	91	5554221m	16.021	ppbv	
60) o-Xylene	13.79	91	2725067	7.866	ppbv	98
61) Styrene	13.63	104	2184104	7.943	ppbv	97
62) Isopropylbenzene	14.77	105	3584437	7.707	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.78	83	1951509	7.798	ppbv	100
64) n-propylbenzene	15.66	120	960198	7.812	ppbv	93
65) tert-Butylbenzene	16.85	119	3071691	7.415	ppbv	96
66) Benzyl Chloride	17.10	91	1856212	8.095	ppbv	97
67) sec-Butylbenzene	17.40	105	4366341	7.468	ppbv	99
69) p-Isopropyltoluene	17.76	119	3625397	7.518	ppbv	98
70) n-Butylbenzene	18.66	91	4101473	7.885	ppbv	98
71) 2-Chlorotoluene	15.56	91	2960330	7.917	ppbv	98
72) 4-Ethyltoluene	15.94	105	3256921	7.987	ppbv	99
73) 1,3,5-Trimethylbenzene	16.10	105	3095956	7.892	ppbv	94
74) 1,2,4-Trimethylbenzene	16.87	105	3064246	7.509	ppbv	96
75) 1,3-Dichlorobenzene	17.11	146	1767170	7.732	ppbv	99
76) 1,4-Dichlorobenzene	17.25	146	1795063	7.686	ppbv	98
77) 1,2-Dichlorobenzene	17.93	146	1760657	7.814	ppbv	98
78) Hexachloro-1,3-Butadiene	23.49	225	1453022	8.134	ppbv	100
79) Naphthalene	22.34	128	3058034	7.216	ppbv	99
80) Naphthalene, 2-methyl-	25.06	142	1376499	10.357	ppbv	97
81) 1,2,4-Trichlorobenzene	22.06	180	1735429	7.377	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 865

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tot Ion: 49 Resp: 1195894

Ion Ratio Lower Upper

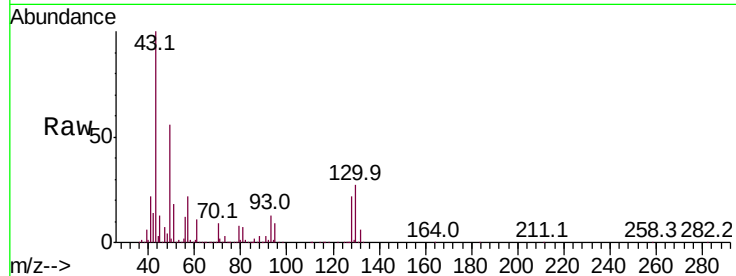
49 100

128 38.1 19.5 58.5

130 49.3 25.4 76.0

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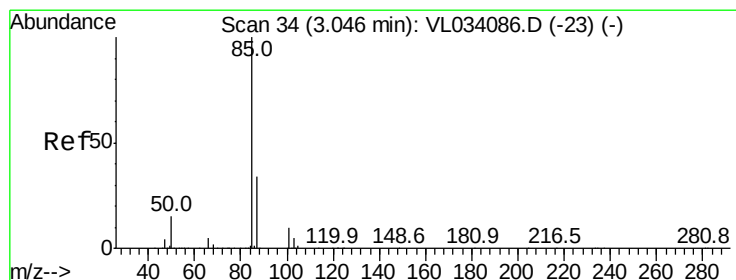
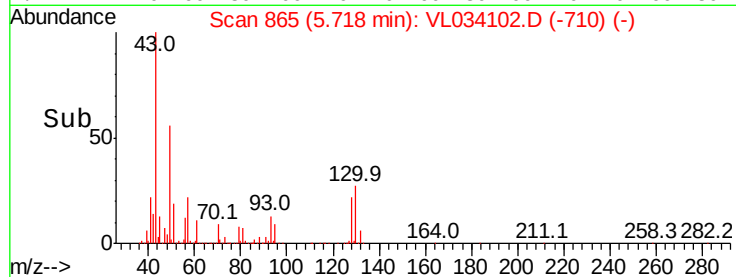
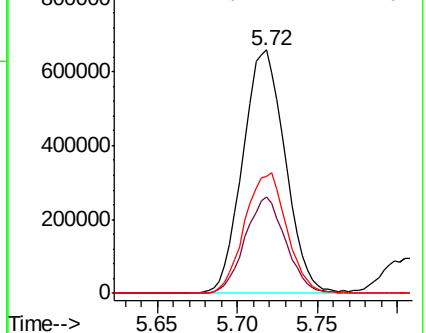
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 9.873 ppbv

RT: 3.05 min Scan# 34

Delta R.T. -0.00 min

Lab File: VL034102.D

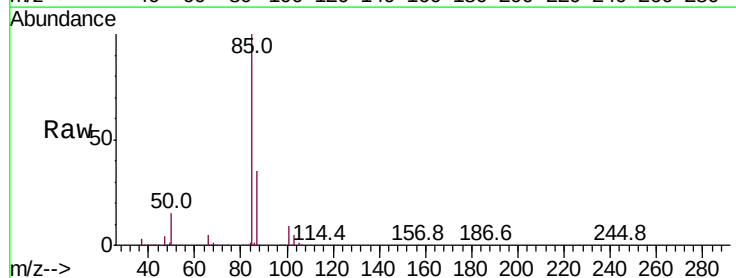
Acq: 12 Aug 2019 12:59

Tgt Ion: 85 Resp: 1453129

Ion Ratio Lower Upper

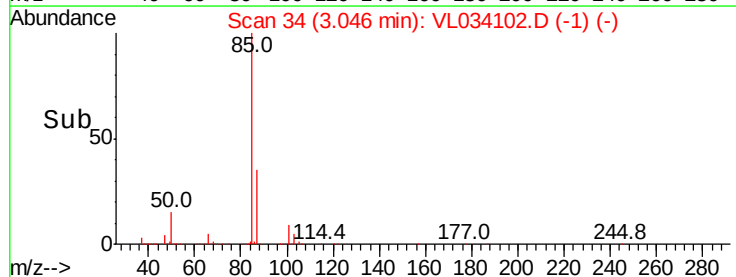
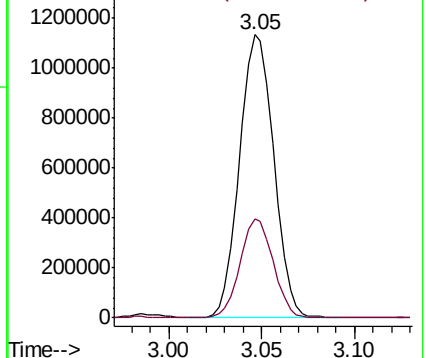
85 100

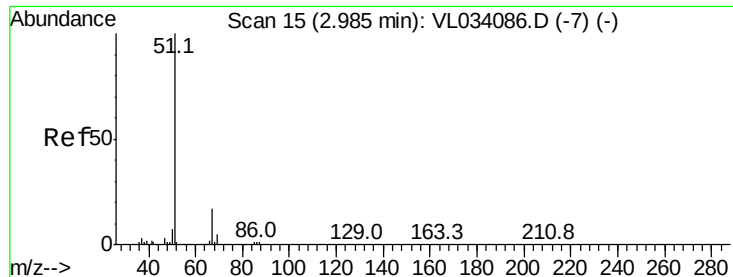
87 35.0 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





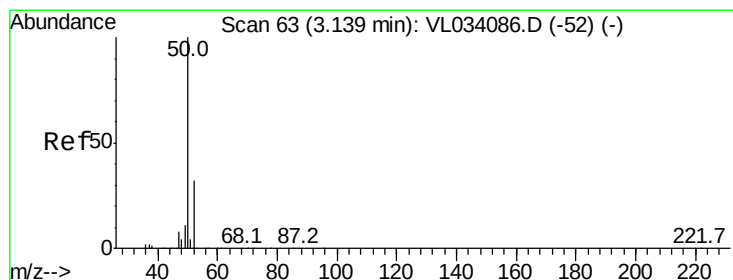
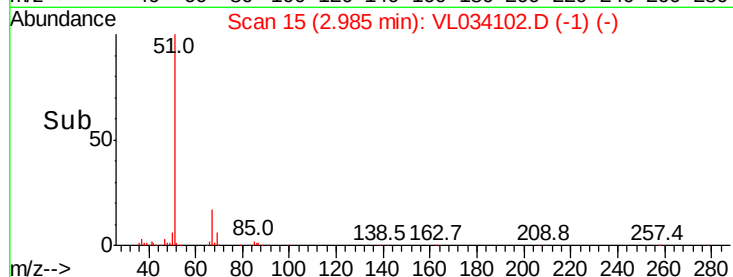
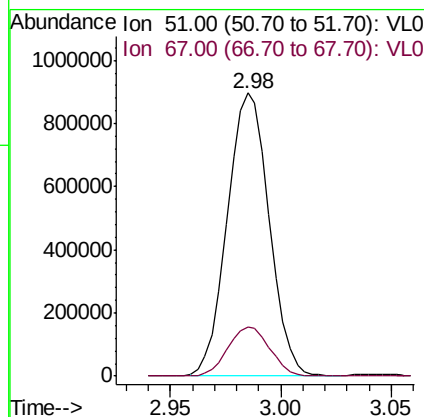
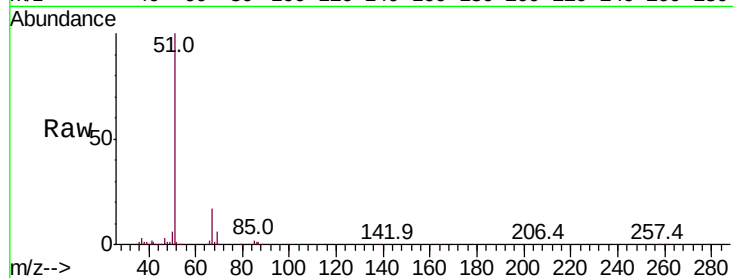
#3
Chlorodifluoromethane
Concen: 8.490 ppbv
RT: 2.98 min Scan# 15
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Instrument :
MSVOA_L
ClientSampleId :
VL0812ABS01

Tot Ion: 51 Resp: 1174019
Ion Ratio Lower Upper
51 100
67 17.7 13.3 19.9

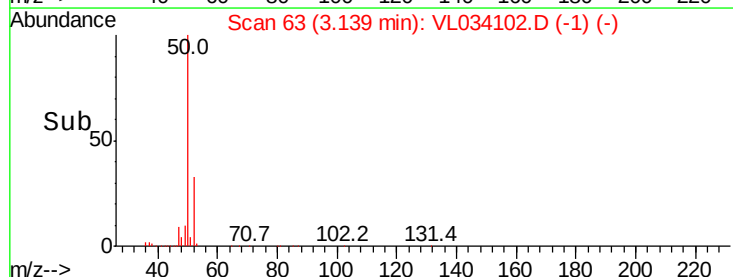
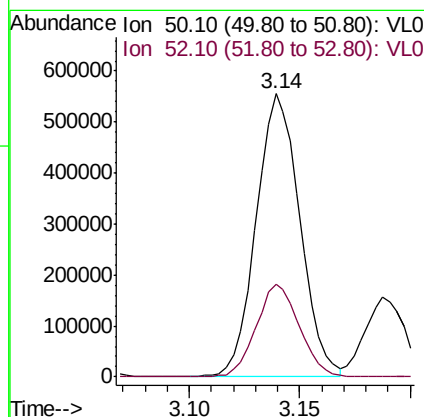
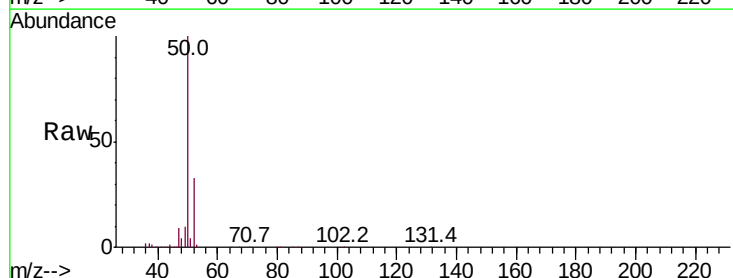
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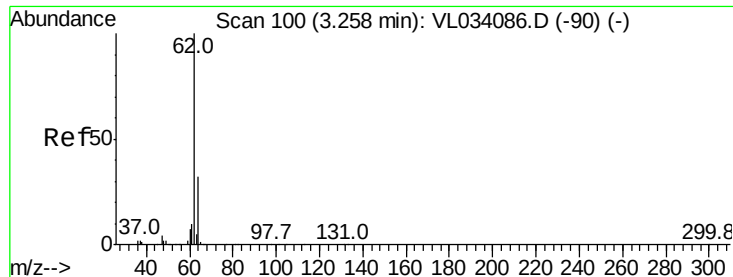
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#4
Chloromethane
Concen: 8.575 ppbv
RT: 3.14 min Scan# 63
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Tgt Ion: 50 Resp: 764516
Ion Ratio Lower Upper
50 100
52 32.5 25.7 38.5





#5

Vinyl Chloride

Concen: 8.604 ppbv

RT: 3.26 min Scan# 101

Delta R.T. 0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tot Ion: 62 Resp: 675877

Ion Ratio Lower Upper

62 100

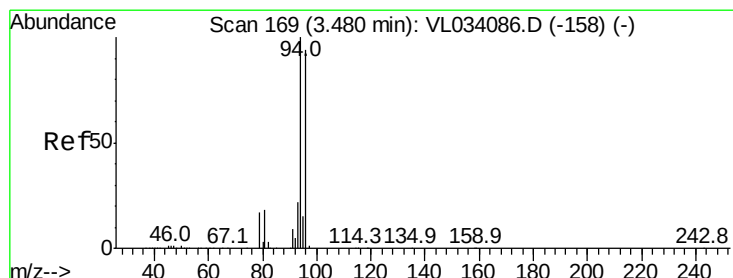
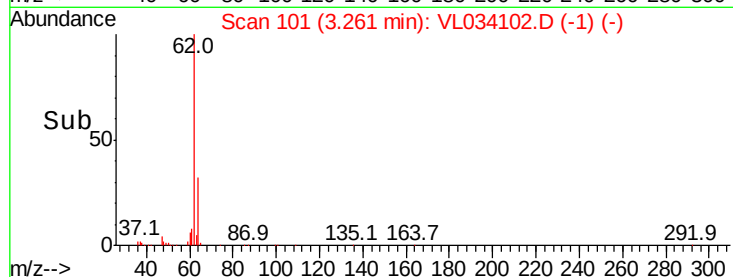
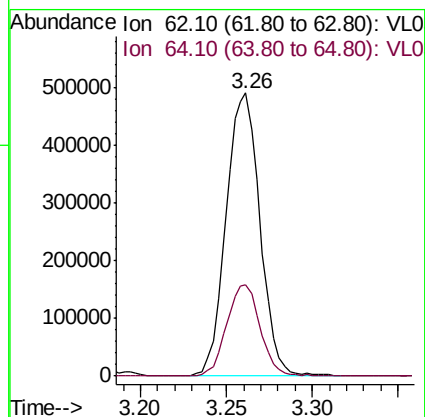
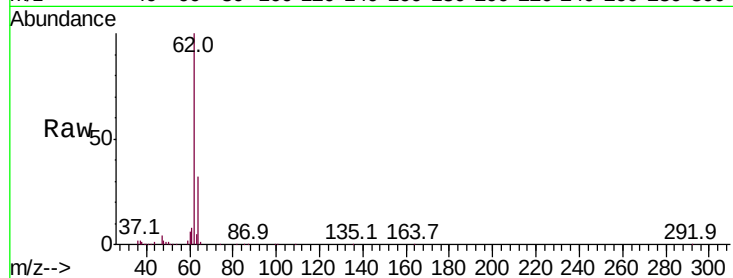
64 32.2 25.8 38.6

Manual Integrations

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#6

Bromomethane

Concen: 8.882 ppbv

RT: 3.48 min Scan# 169

Delta R.T. -0.00 min

Lab File: VL034102.D

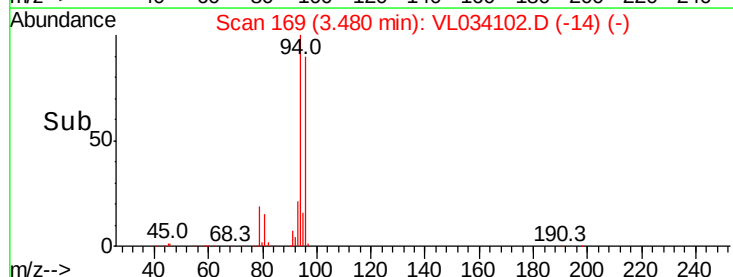
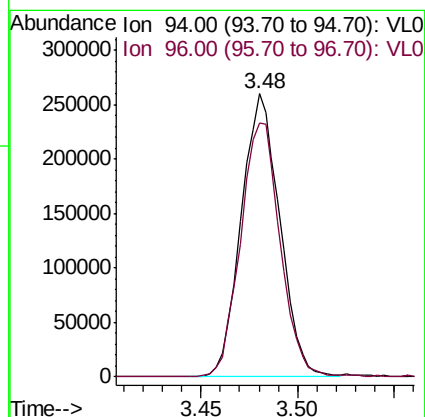
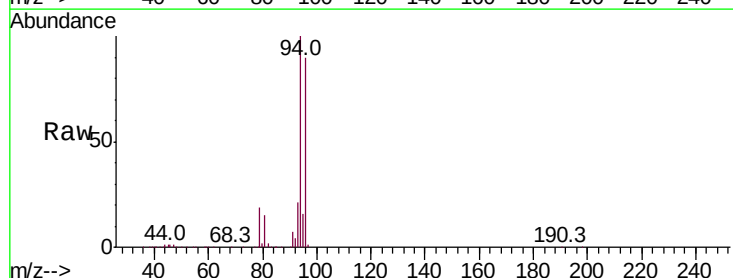
Acq: 12 Aug 2019 12:59

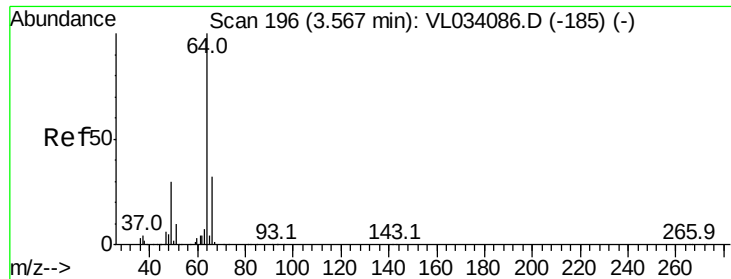
Tgt Ion: 94 Resp: 360544

Ion Ratio Lower Upper

94 100

96 89.5 75.3 112.9





#7

Chloroethane

Concen: 8.334 ppbv

RT: 3.56 min Scan# 195

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tot Ion: 64 Resp: 245259

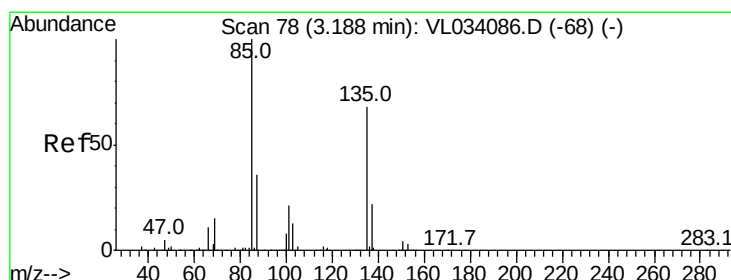
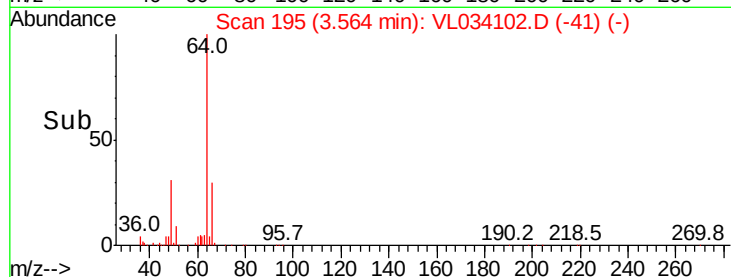
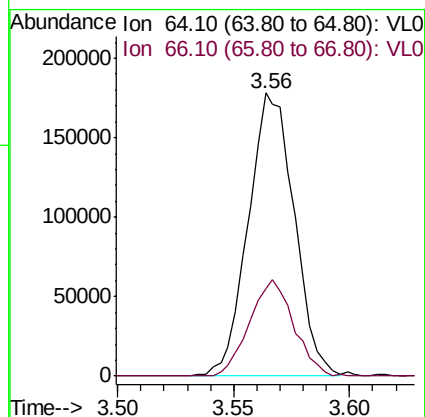
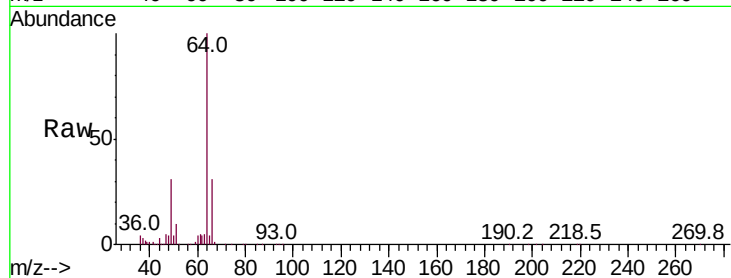
Ion Ratio Lower Upper

64 100

66 31.0 25.2 37.8

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#8

Dichlorotetrafluoroethane

Concen: 8.237 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.00 min

Lab File: VL034102.D

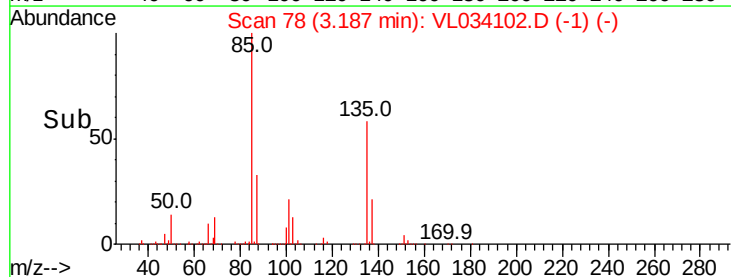
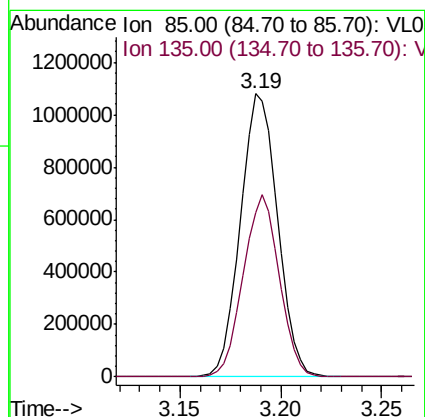
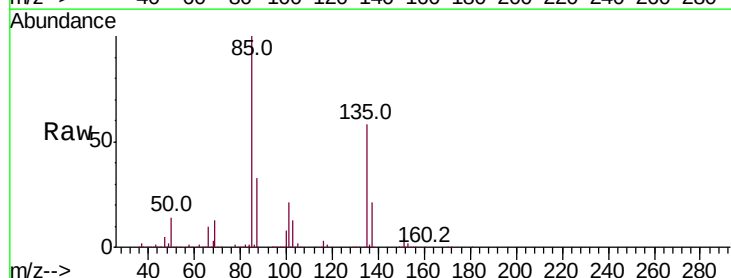
Acq: 12 Aug 2019 12:59

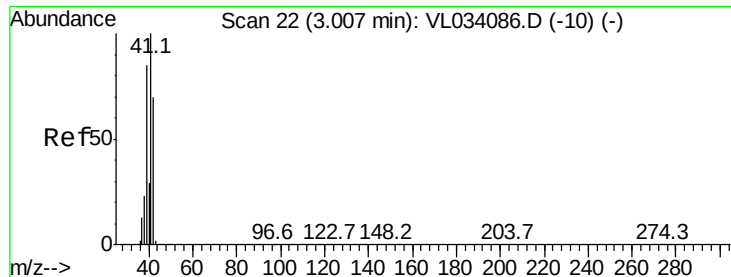
Tgt Ion: 85 Resp: 1398563

Ion Ratio Lower Upper

85 100

135 62.6 54.0 81.0





#9

Propene

Concen: 8.391 ppbv

RT: 3.01 min Scan# 22

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tot Ion: 41 Resp: 684114

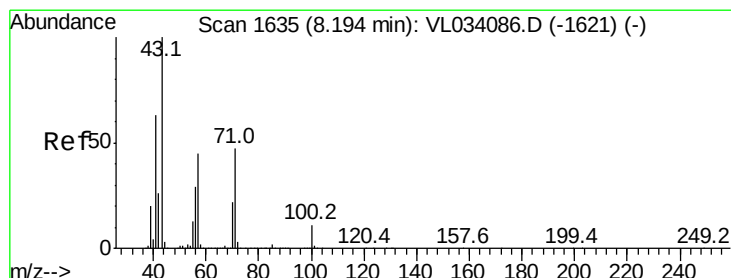
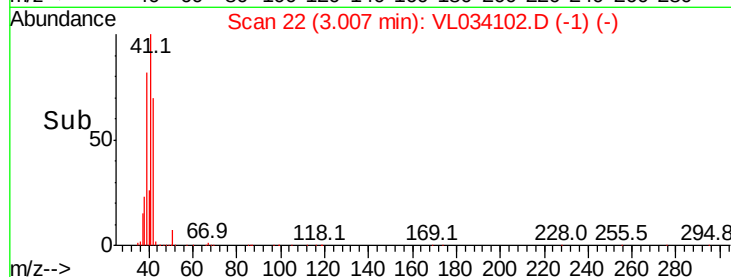
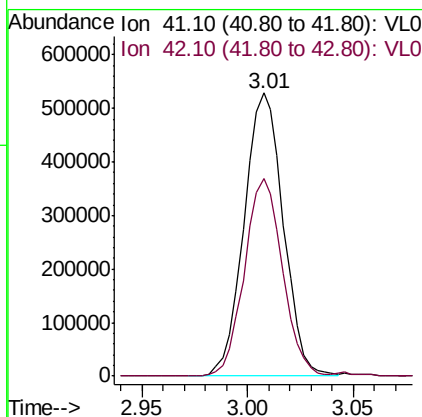
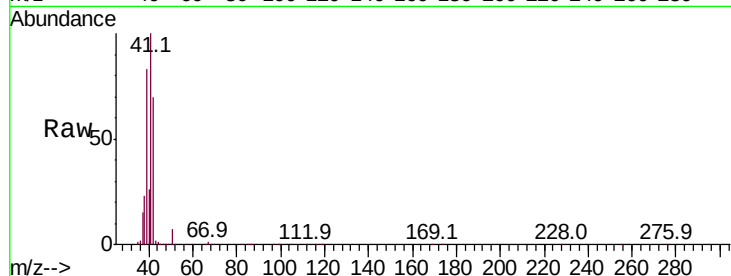
Ion Ratio Lower Upper

41 100

42 68.7 55.8 83.6

Manual Integrations
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#10

Heptane

Concen: 8.295 ppbv

RT: 8.19 min Scan# 1635

Delta R.T. -0.00 min

Lab File: VL034102.D

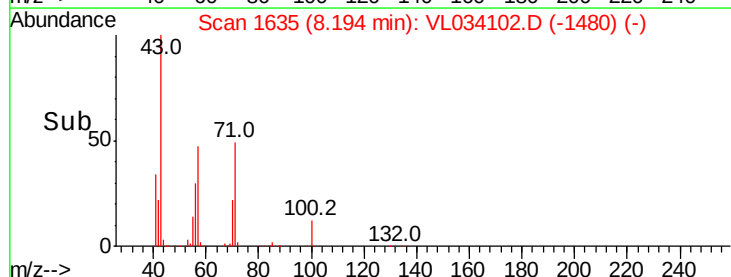
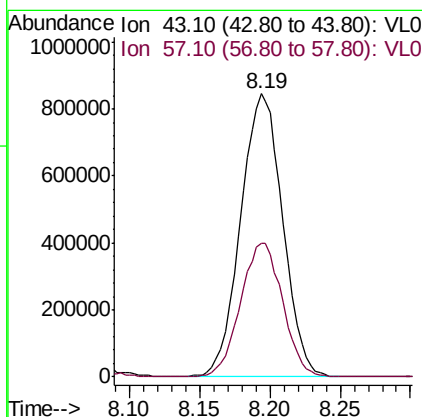
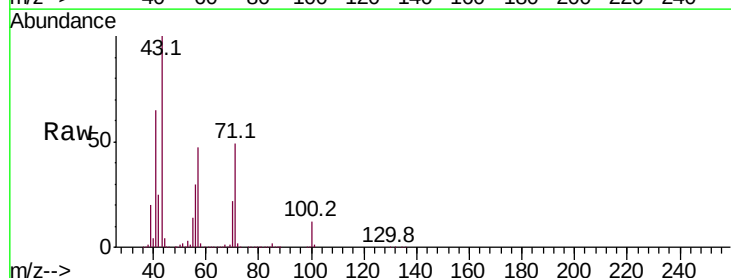
Acq: 12 Aug 2019 12:59

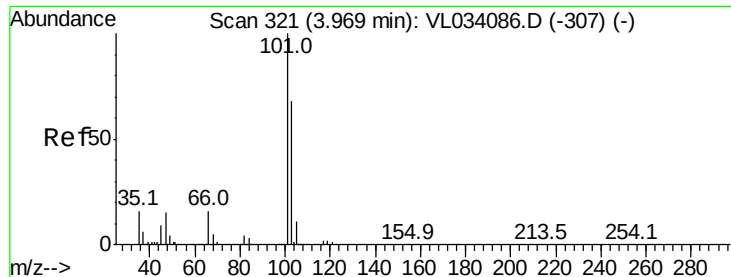
Tgt Ion: 43 Resp: 1749424

Ion Ratio Lower Upper

43 100

57 47.8 37.2 55.8





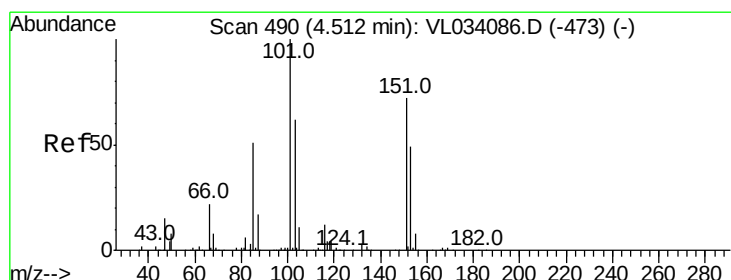
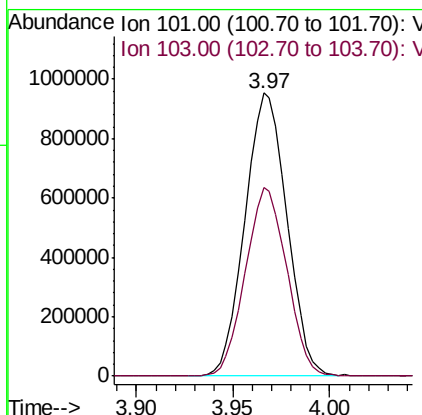
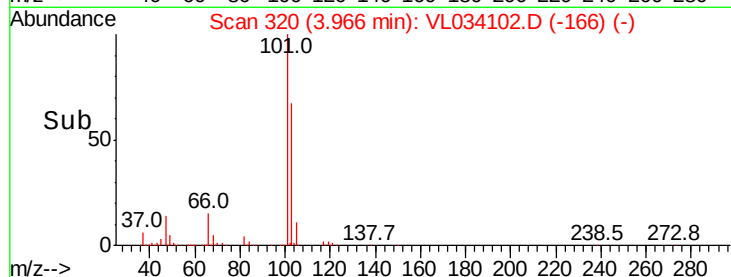
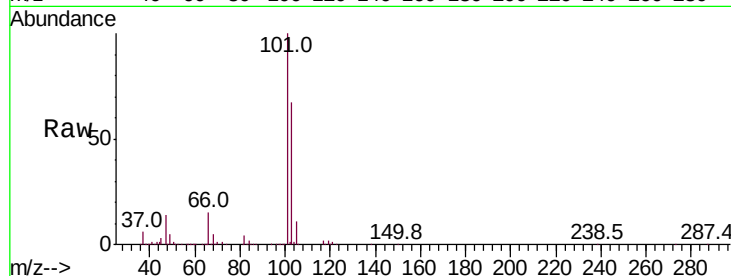
#11
 Trichlorofluoromethane
 Concen: 8.272 ppbv
 RT: 3.97 min Scan# 320
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0812ABS01

Tot Ion:101 Resp: 1443399
 Ion Ratio Lower Upper
 101 100
 103 66.7 54.3 81.5

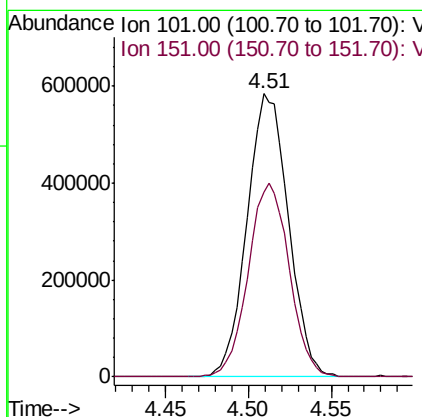
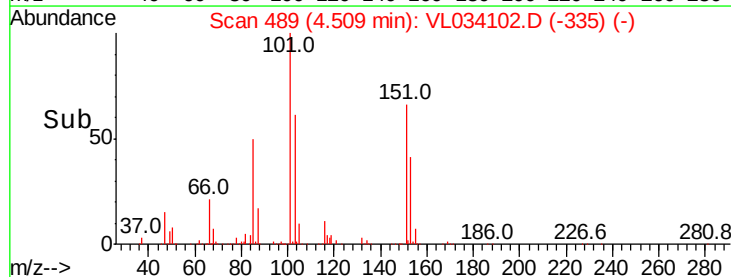
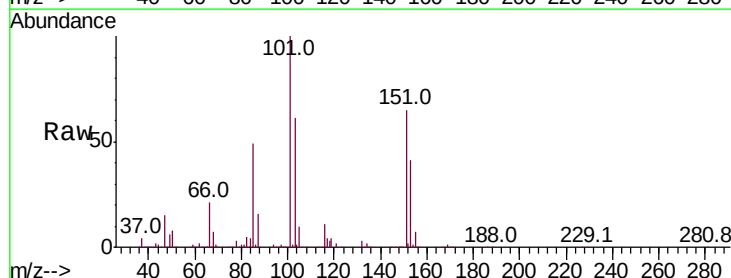
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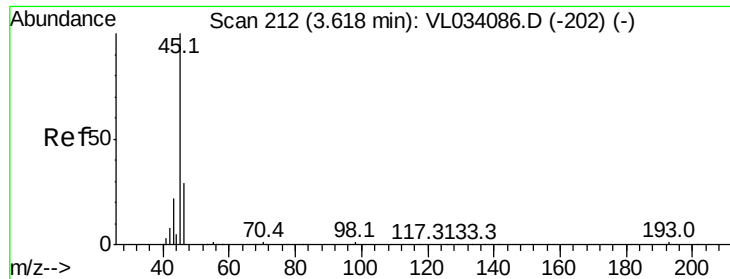
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.250 ppbv
 RT: 4.51 min Scan# 489
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Tgt Ion:101 Resp: 1015836
 Ion Ratio Lower Upper
 101 100
 151 68.2 59.4 89.0





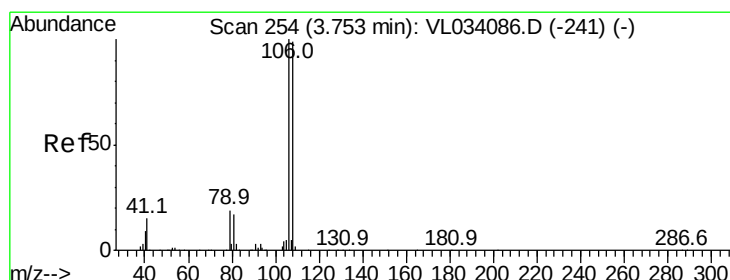
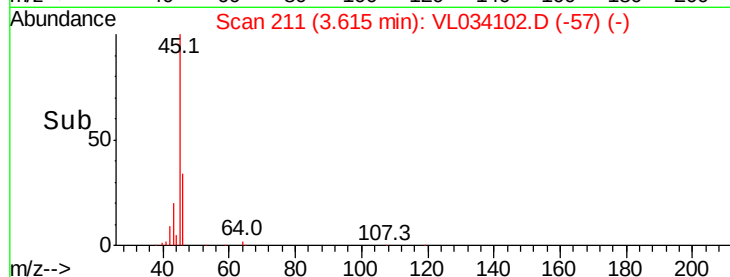
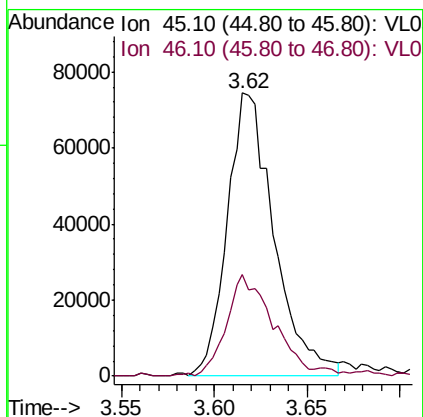
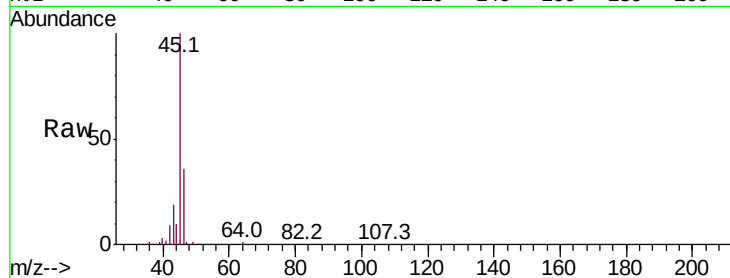
#13
Ethanol
Concen: 5.682 ppbv
RT: 3.62 min Scan# 211
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Instrument :
MSVOA_L
ClientSampleId :
VL0812ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.5	14.9	59.5

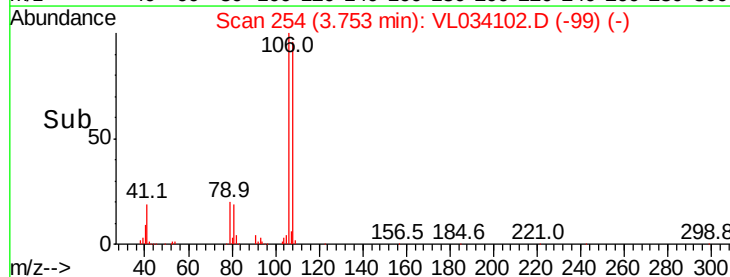
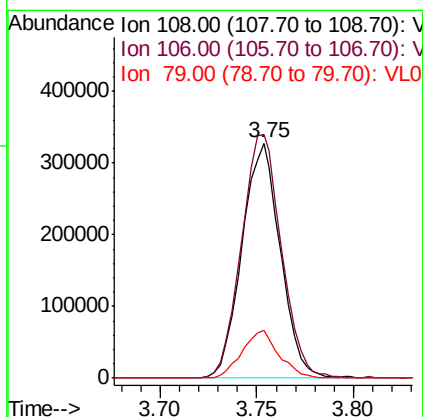
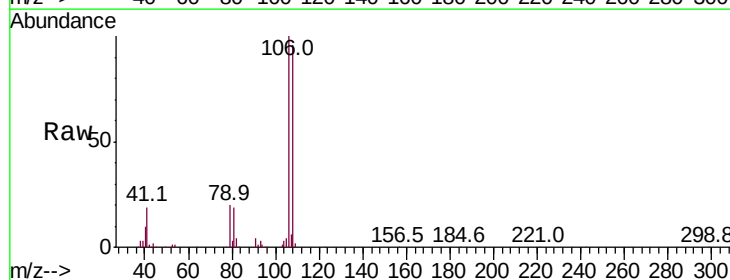
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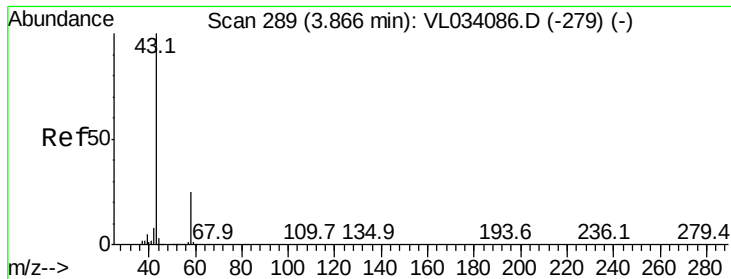
MMDadoda
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#14
Bromoethene
Concen: 8.221 ppbv
RT: 3.75 min Scan# 254
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Tgt Ion	Ratio	Lower	Upper
108	100		
106	108.8	85.0	127.6
79	19.8	15.8	23.8





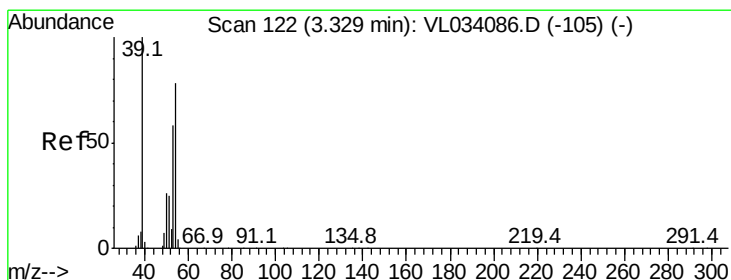
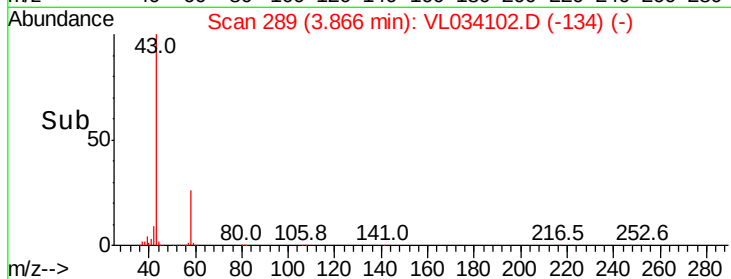
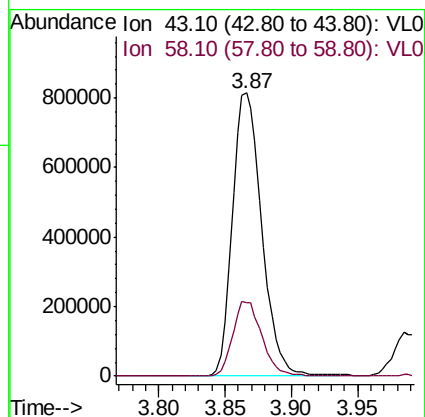
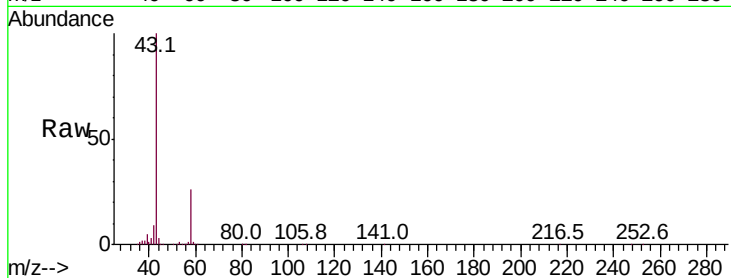
#15
Acetone
Concen: 7.310 ppbv
RT: 3.87 min Scan# 289
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Instrument :
MSVOA_L
ClientSampleId :
VL0812ABS01

Tot Ion: 43 Resp: 1249264
Ion Ratio Lower Upper
43 100
58 26.3 20.6 30.8

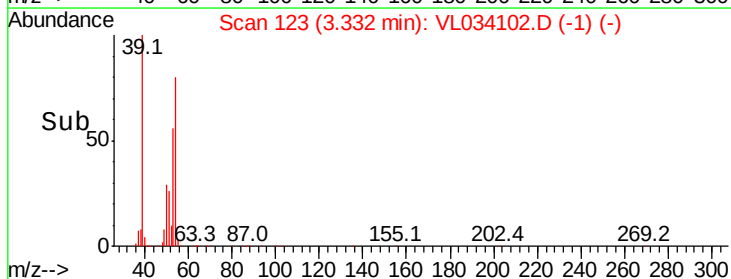
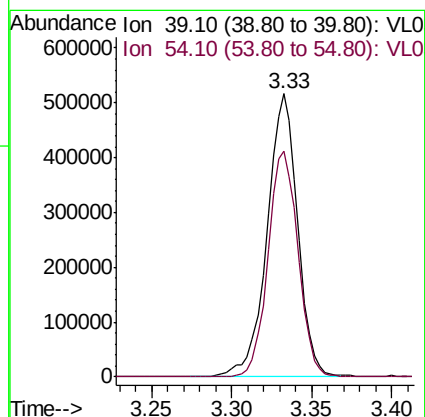
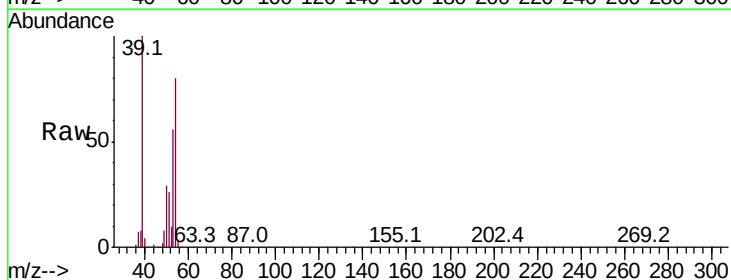
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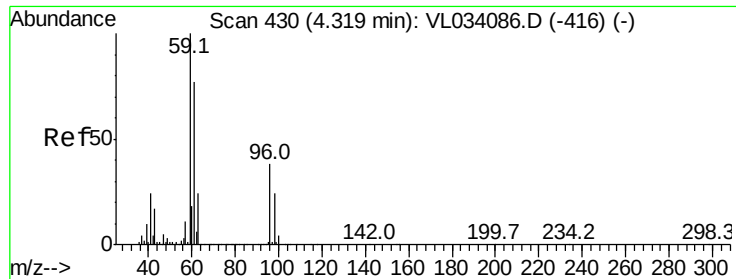
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#16
1,3-Butadiene
Concen: 8.221 ppbv
RT: 3.33 min Scan# 123
Delta R.T. 0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Tgt Ion: 39 Resp: 683224
Ion Ratio Lower Upper
39 100
54 78.6 62.7 94.1





#17

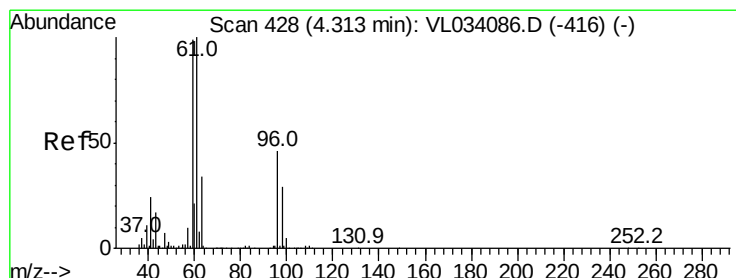
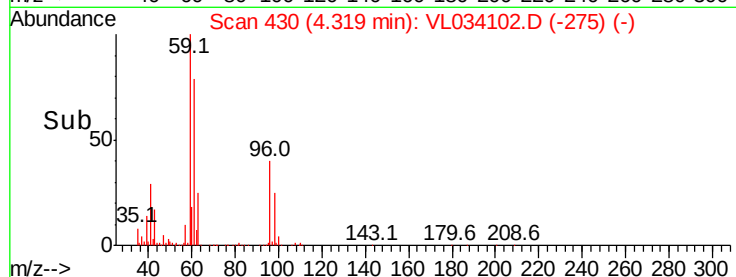
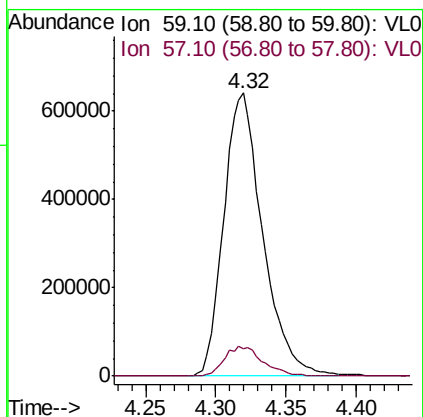
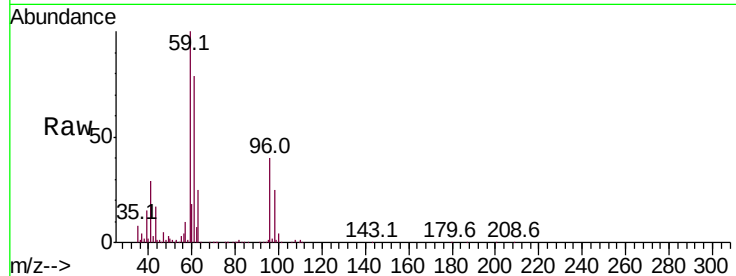
tert-Butyl alcohol
 Concen: 7.731 ppbv
 RT: 4.32 min Scan# 430
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0812ABS01

Tot Ion	59	Resp	1232797
Ion Ratio	100	Lower	Upper
57	10.7	8.4	12.6

Manual Integrations
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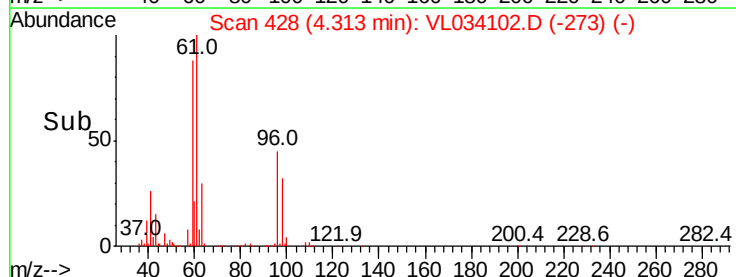
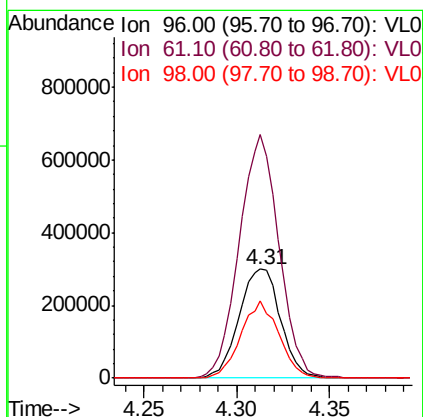
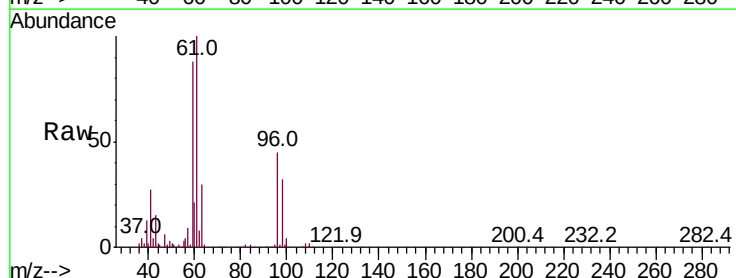
MMDadoda
 8/16/2019 8:54:18 AM

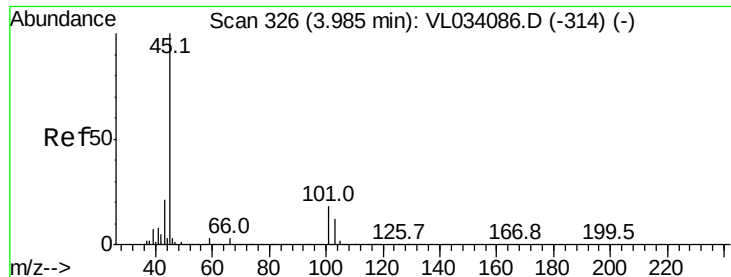


#18

1,1-Dichloroethene
 Concen: 7.999 ppbv
 RT: 4.31 min Scan# 428
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Tgt Ion	96	Resp	465815
Ion Ratio	100	Lower	Upper
61	224.2	173.1	259.7
98	71.1	50.3	75.5





#19

Isopropyl Alcohol

Concen: 7.428 ppbv

RT: 3.99 min Scan# 327

Delta R.T. 0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tot Ion: 45 Resp: 988447

Ion Ratio Lower Upper

45 100

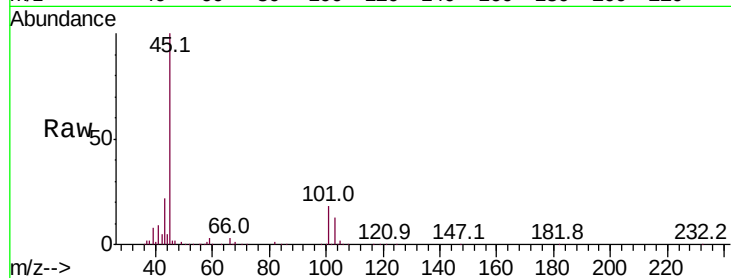
58 1.0 24.6 37.0#

Manual Integrations

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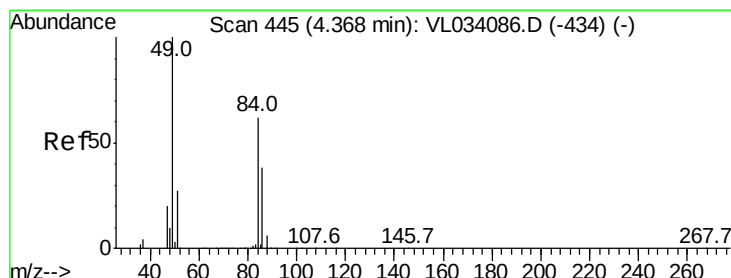
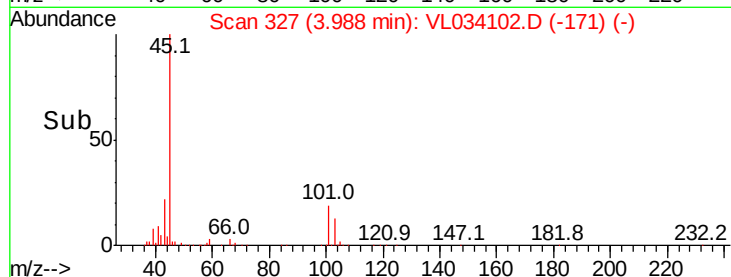
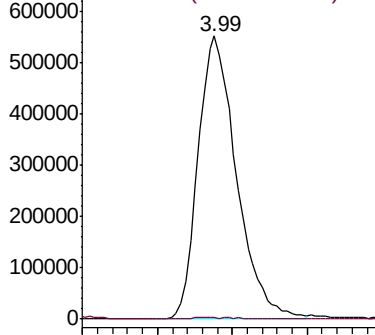
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.147 ppbv

RT: 4.37 min Scan# 445

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Tgt Ion: 84 Resp: 417509

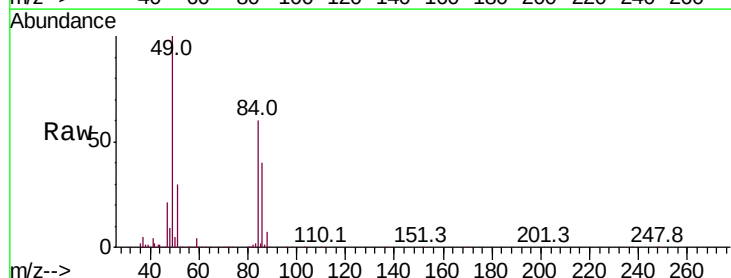
Ion Ratio Lower Upper

84 100

49 165.5 129.7 194.5

51 50.0 35.8 53.8

86 66.6 49.8 74.8

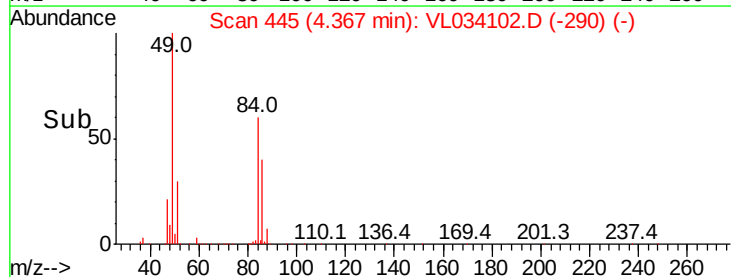
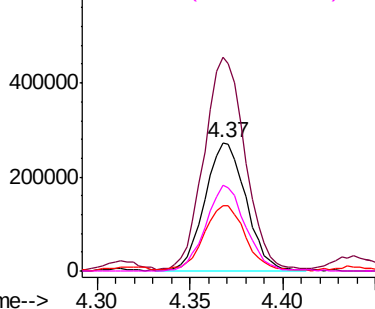


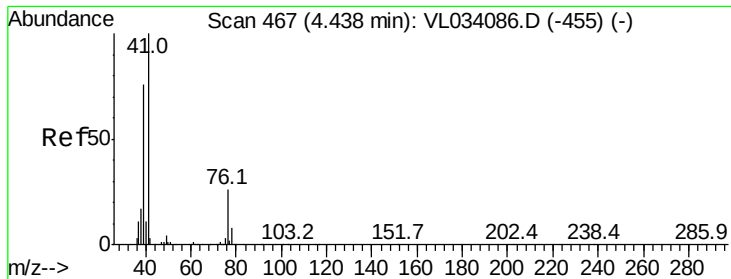
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#21

Allvl Chloride

Concen: 8.057 ppbv

RT: 4.44 min Scan# 467

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

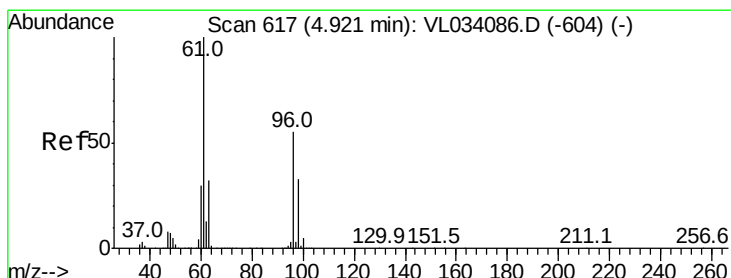
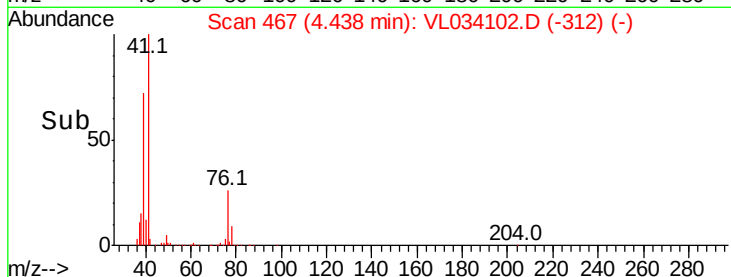
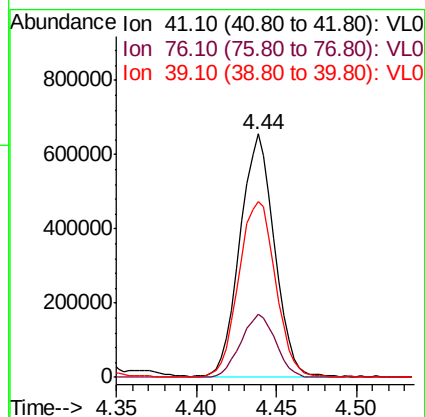
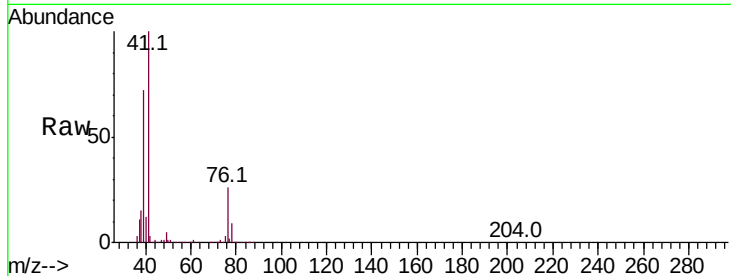
ClientSampleId :

VL0812ABS01

Tot Ion:	41	Resp:	953021
Ion Ratio		Lower	Upper
41	100		
76	26.5	20.8	31.2
39	78.5	61.3	91.9

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#22

trans-1,2-Dichloroethene

Concen: 8.515 ppbv

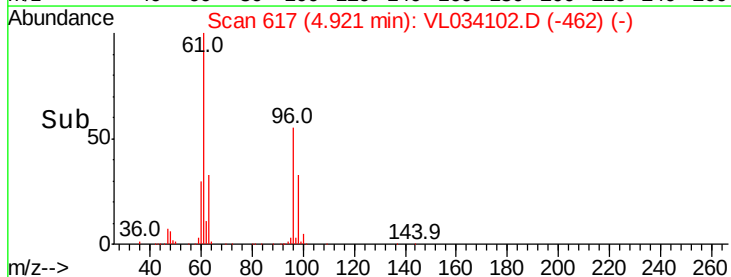
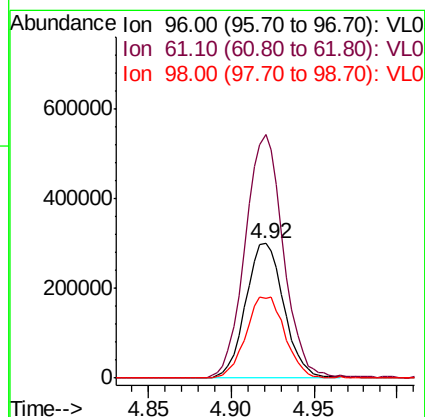
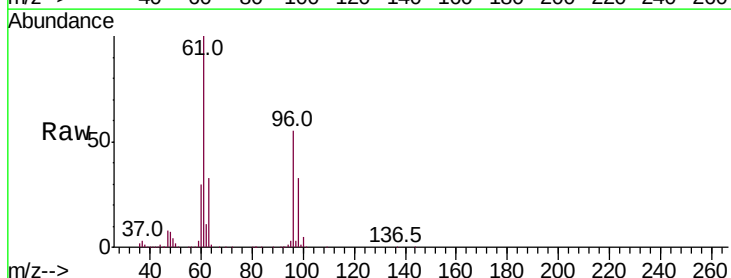
RT: 4.92 min Scan# 617

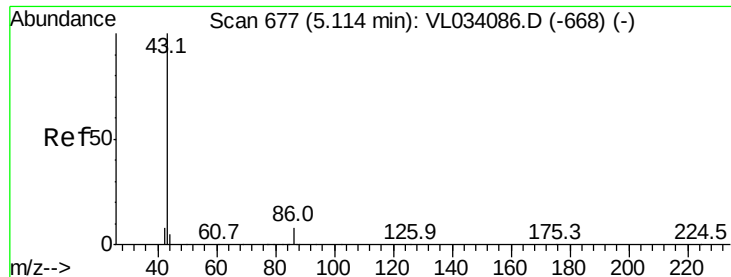
Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Tgt Ion:	96	Resp:	481859
Ion Ratio		Lower	Upper
96	100		
61	180.7	144.2	216.2
98	59.6	48.0	72.0





#23

Vinyl Acetate

Concen: 7.958 ppbv

RT: 5.11 min Scan# 677

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tot Ion: 43 Resp: 2254948

Ion Ratio Lower Upper

43 100

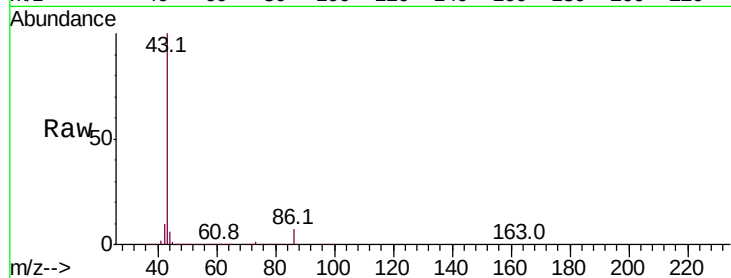
86 7.2 5.4 8.0

42 9.9 7.9 11.9

44 5.5 4.0 6.0

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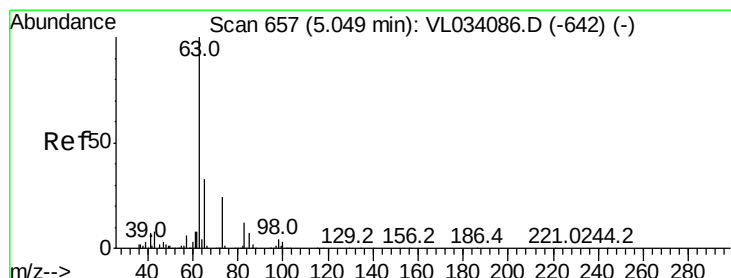
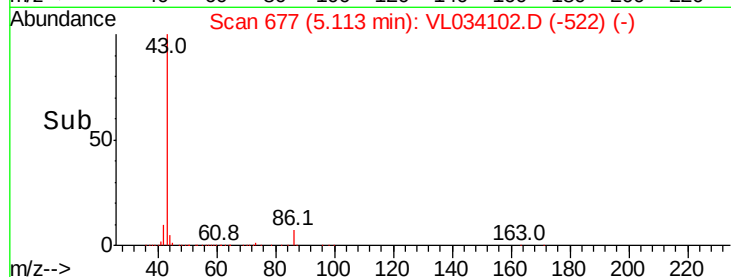
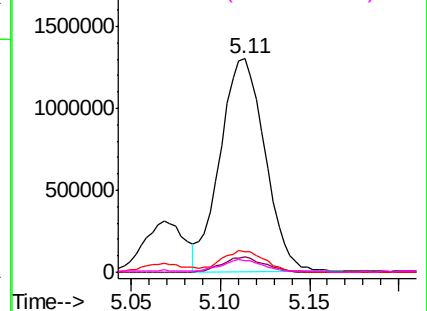


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.569 ppbv

RT: 5.05 min Scan# 657

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

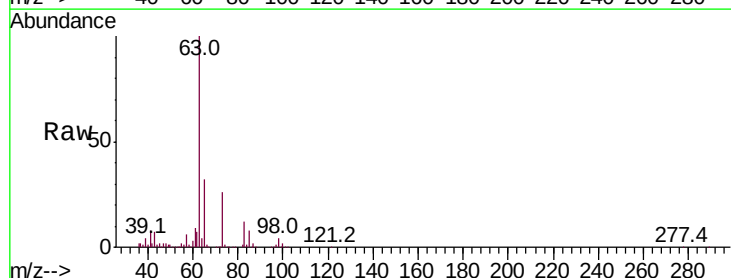
Tgt Ion: 63 Resp: 1444708

Ion Ratio Lower Upper

63 100

98 4.1 2.0 6.0

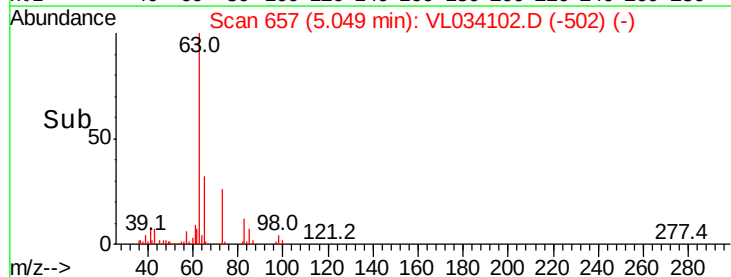
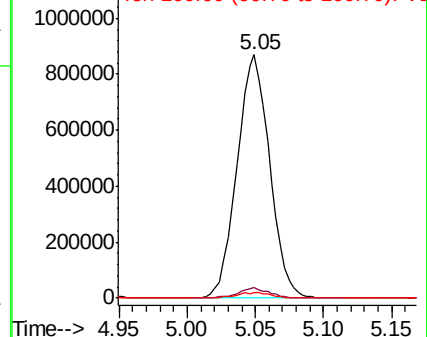
100 2.1 1.3 3.8

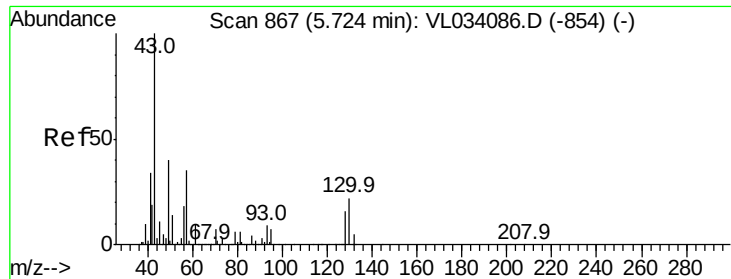


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 7.939 ppbv

RT: 5.72 min Scan# 866

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tot Ion: 43 Resp: 2668502

Ion Ratio Lower Upper

43 100

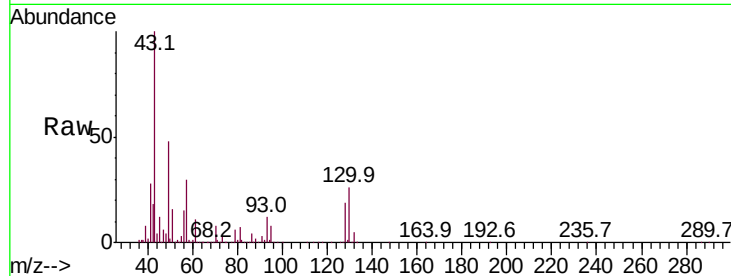
45 10.4 8.4 12.6

61 9.2 7.3 10.9

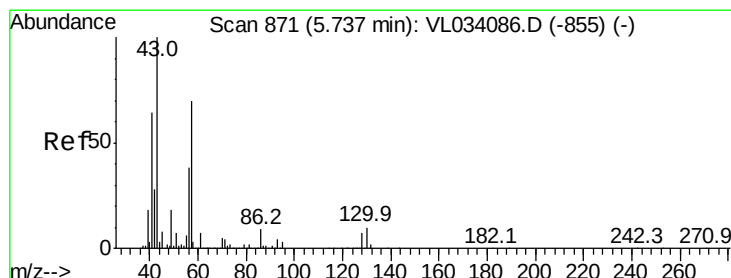
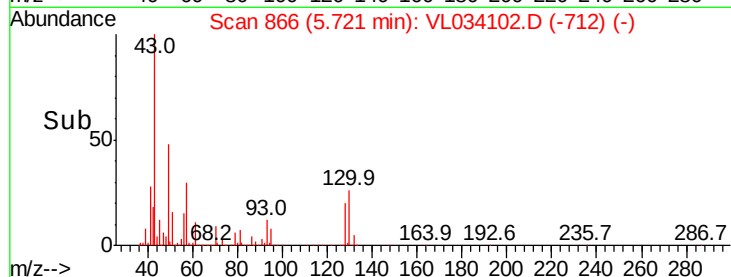
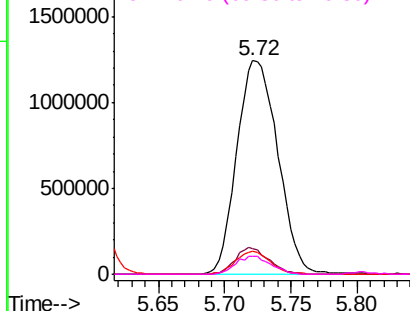
70 7.3 5.8 8.6

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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: 8.181 ppbv

RT: 5.73 min Scan# 870

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Tgt Ion: 57 Resp: 1165615

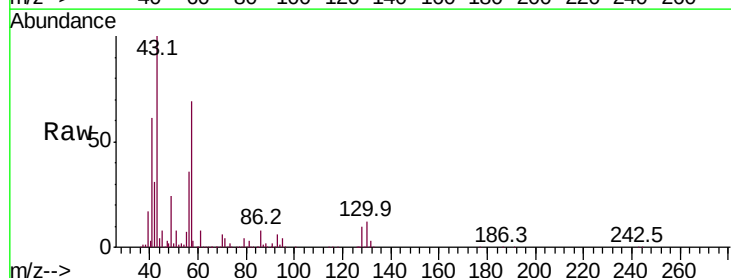
Ion Ratio Lower Upper

57 100

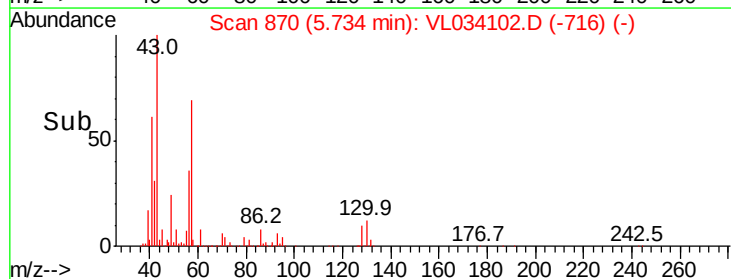
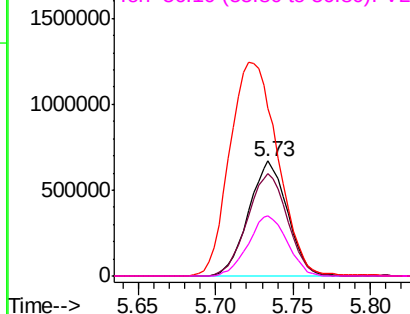
41 92.1 75.7 113.5

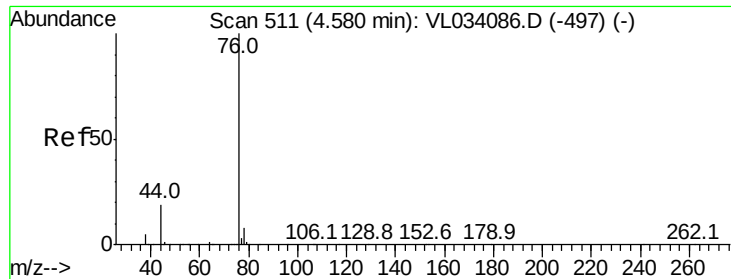
43 229.8 189.8 284.8

56 52.8 42.7 64.1



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: 8.554 ppbv

RT: 4.58 min Scan# 511

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tot Ion: 76 Resp: 1284853

Ion Ratio Lower Upper

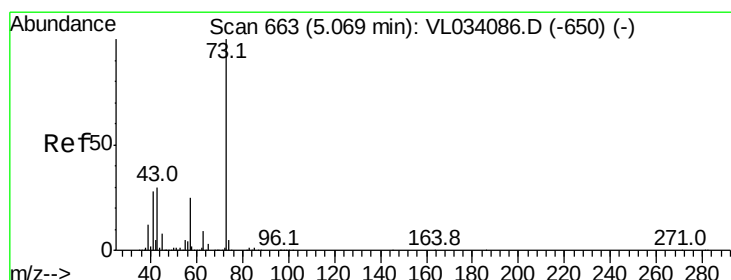
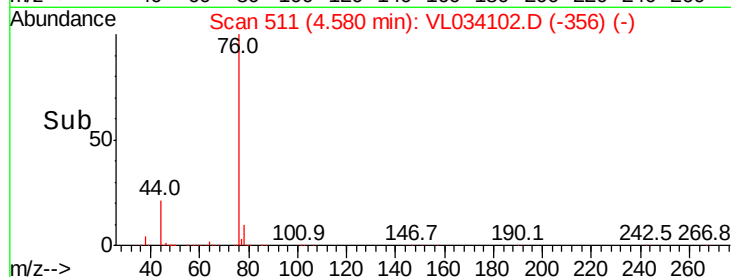
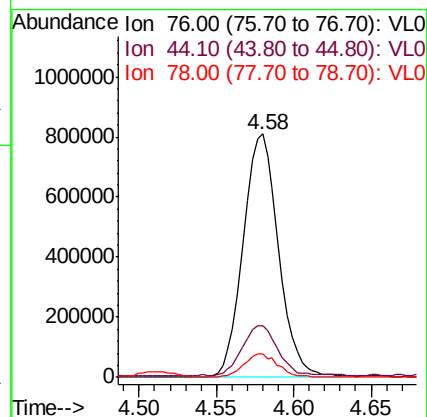
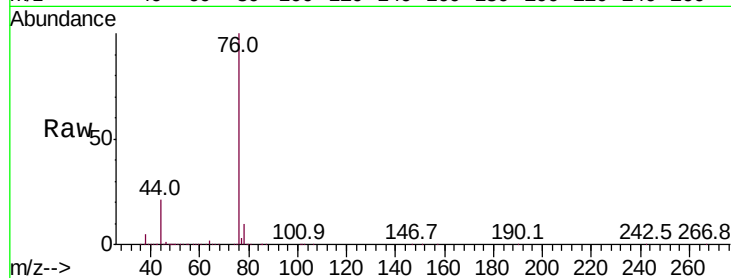
76 100

44 21.5 17.8 26.6

78 9.3 7.7 11.5

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#28

Methyl tert-Butyl Ether

Concen: 8.177 ppbv

RT: 5.07 min Scan# 663

Delta R.T. -0.00 min

Lab File: VL034102.D

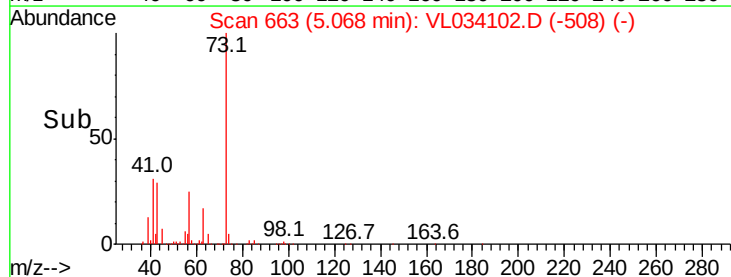
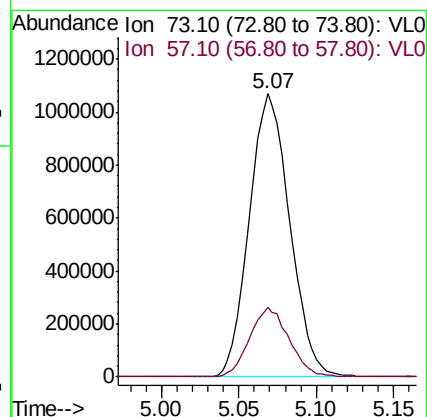
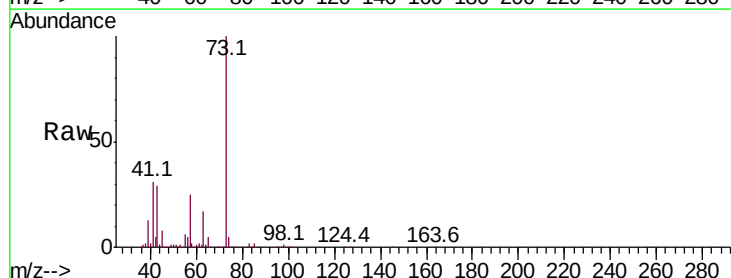
Acq: 12 Aug 2019 12:59

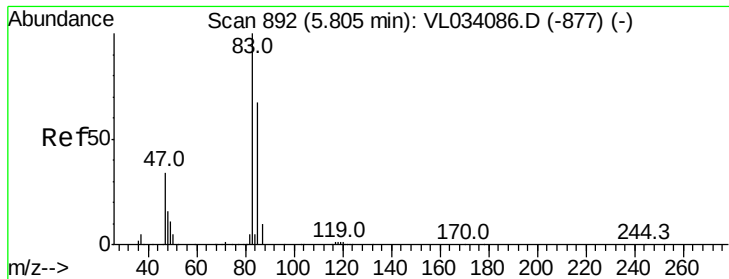
Tgt Ion: 73 Resp: 1948232

Ion Ratio Lower Upper

73 100

57 24.0 19.5 29.3





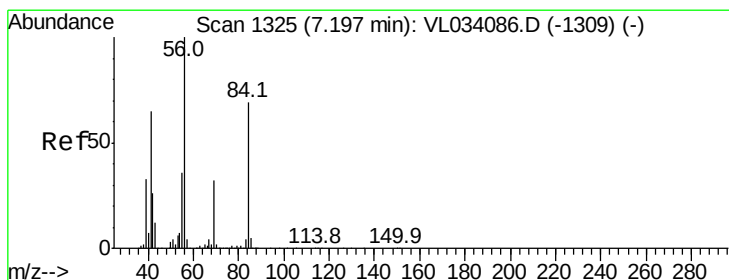
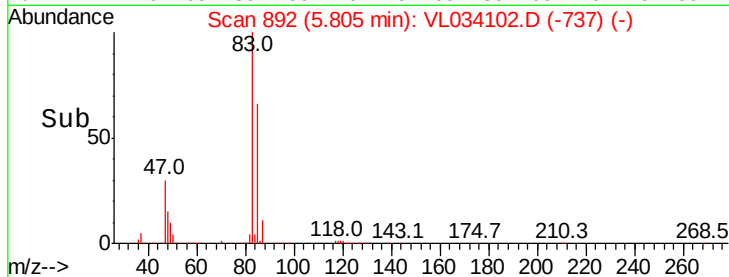
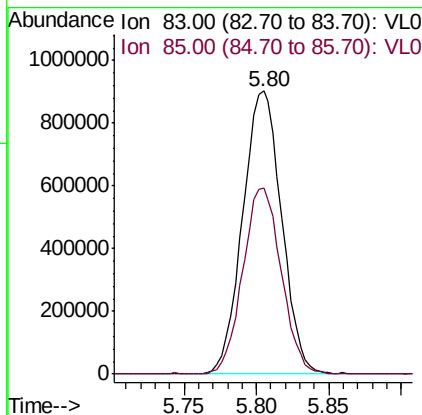
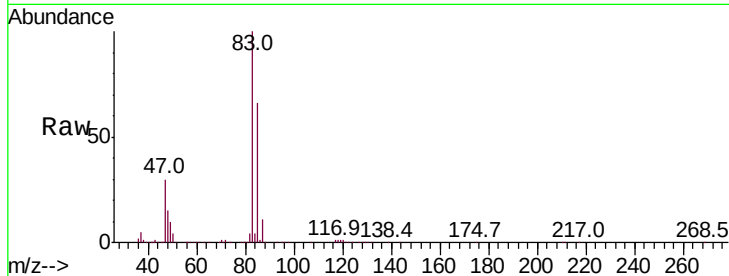
#29
Chloroform
Concen: 8.708 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Instrument :
MSVOA_L
ClientSampleId :
VL0812ABS01

Tot Ion: 83 Resp: 1686497
Ion Ratio Lower Upper
83 100
85 65.7 53.2 79.8

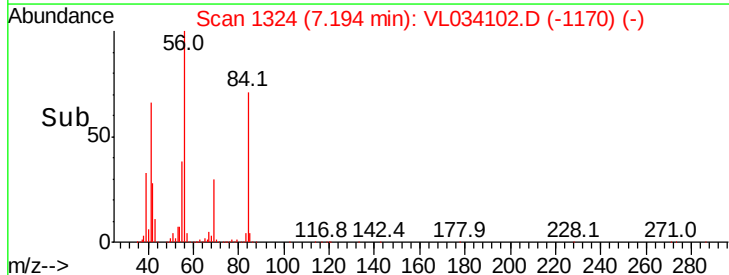
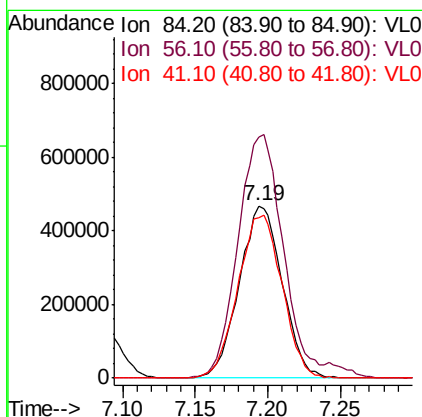
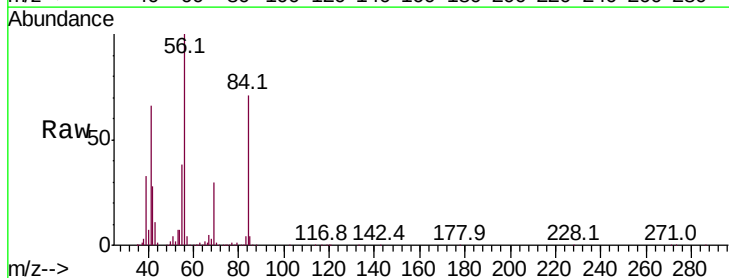
Manual Integrations
APPROVED

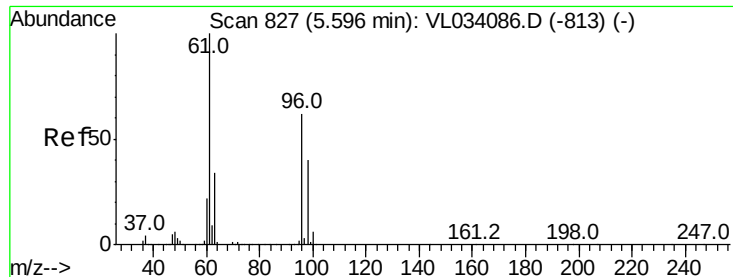
MMDadoda
8/16/2019 8:54:18 AM



#30
Cyclohexane
Concen: 8.597 ppbv
RT: 7.19 min Scan# 1324
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Tgt Ion: 84 Resp: 967534
Ion Ratio Lower Upper
84 100
56 152.2 122.6 184.0
41 97.0 80.1 120.1





#31

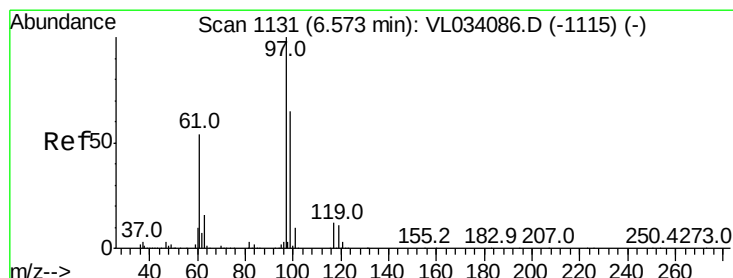
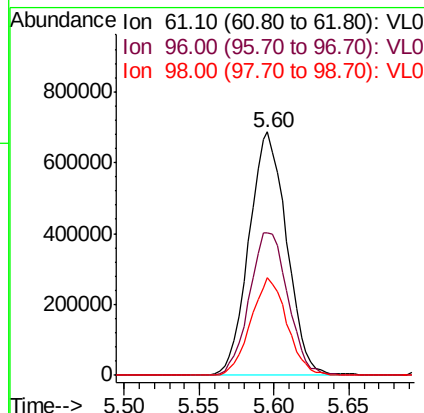
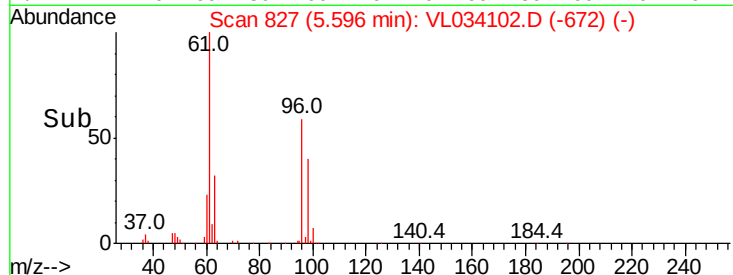
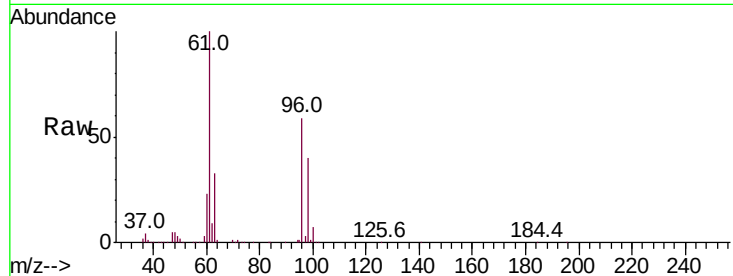
cis-1,2-Dichloroethene
 Concen: 8.541 ppbv
 RT: 5.60 min Scan# 827
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0812ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	58.8	49.3	73.9
98	39.9	32.4	48.6

Manual Integrations
 APPROVED

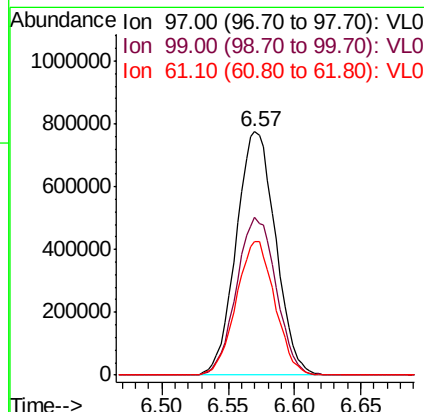
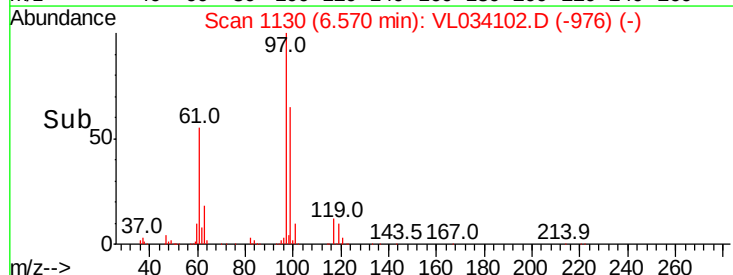
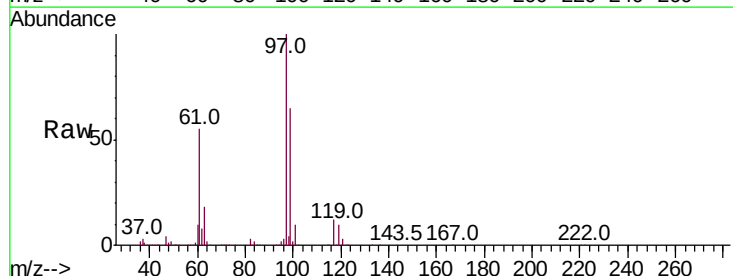
MMDadoda
 8/16/2019 8:54:18 AM

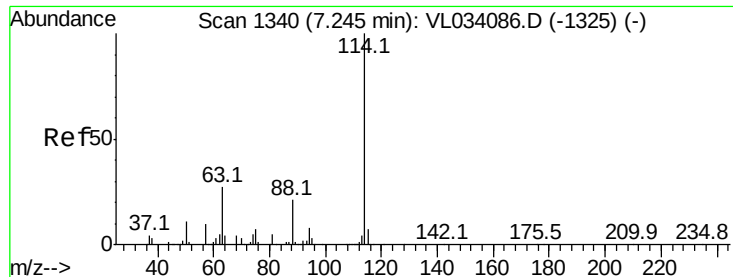


#32

1,1,1-Trichloroethane
 Concen: 8.335 ppbv
 RT: 6.57 min Scan# 1130
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	52.2	78.4
61	54.1	42.0	63.0





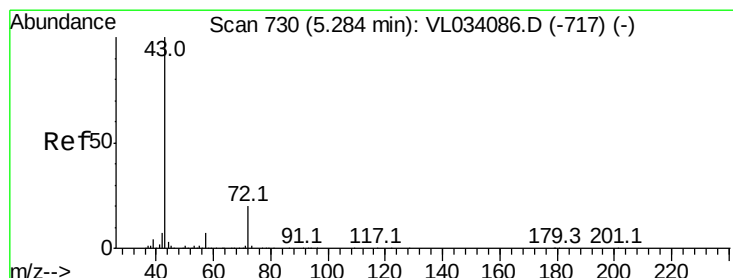
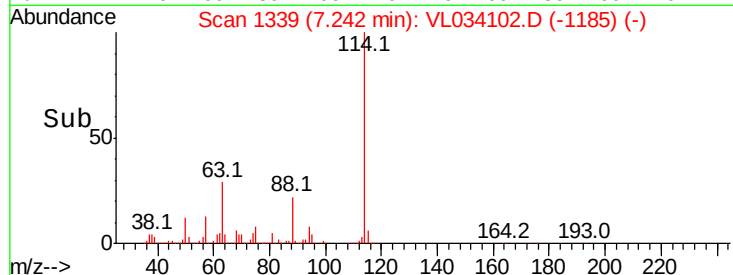
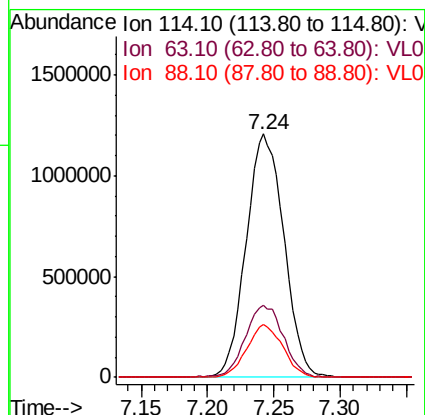
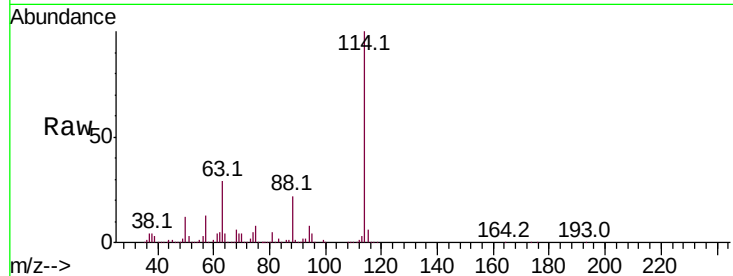
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1339
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0812ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.3	22.5	33.7
88	20.7	15.7	23.5

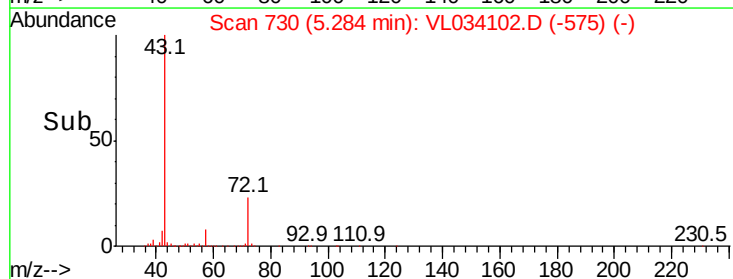
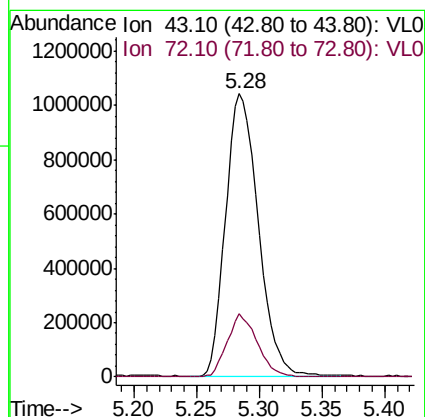
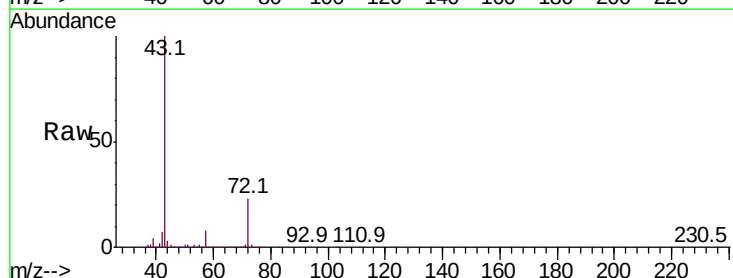
Manual Integrations
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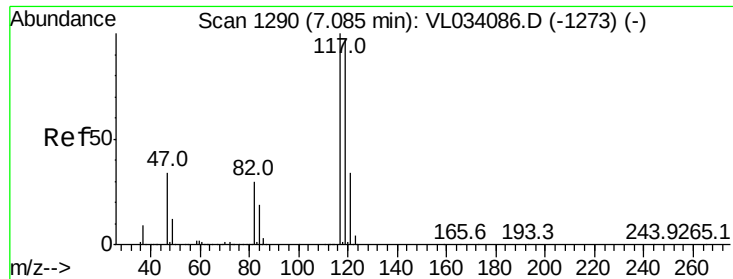
MMDadoda
 8/16/2019 8:54:18 AM



#34
 2-Butanone
 Concen: 8.514 ppbv
 RT: 5.28 min Scan# 730
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.9	16.0	24.0





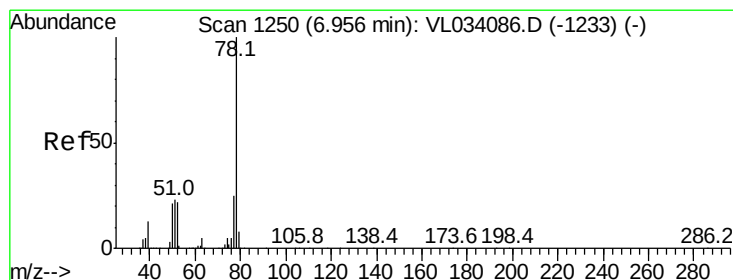
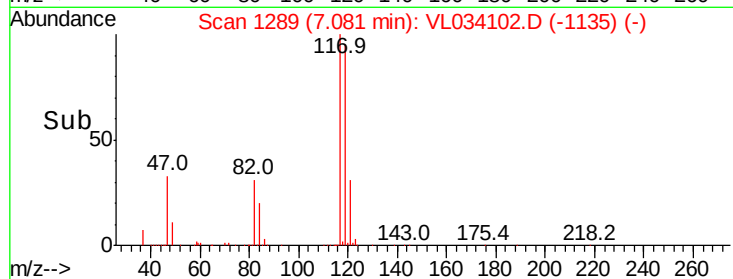
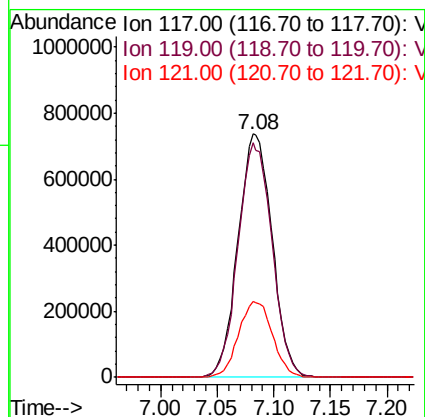
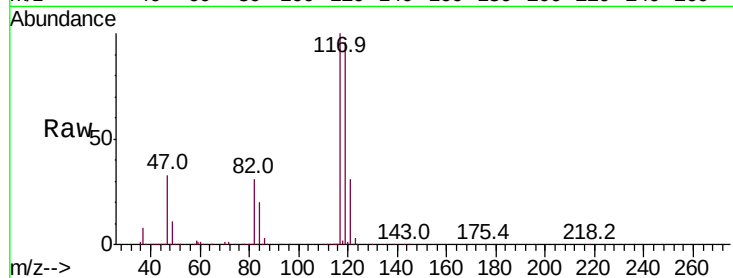
#35
Carbon Tetrachloride
Concen: 8.433 ppbv
RT: 7.08 min Scan# 1289
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Instrument :
MSVOA_L
ClientSampleId :
VL0812ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.3	77.8	116.6
121	31.0	27.4	41.2

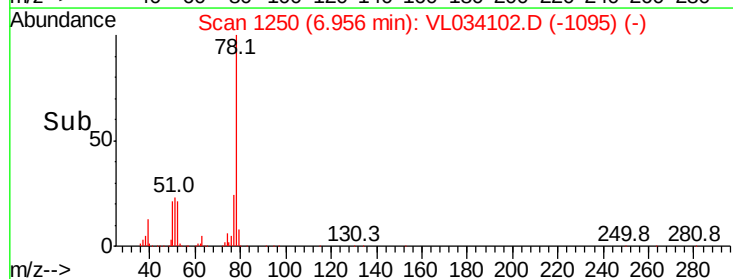
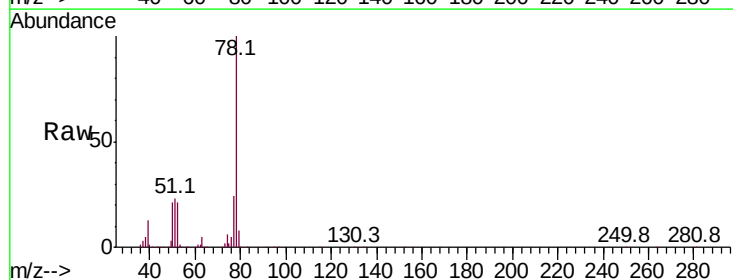
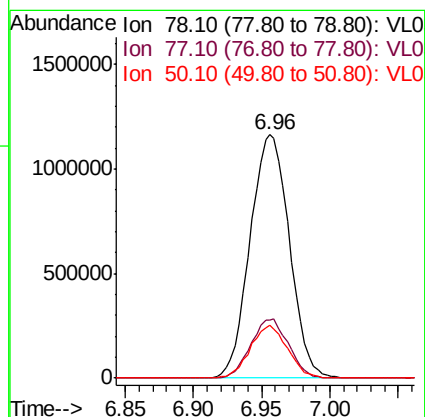
Manual Integrations
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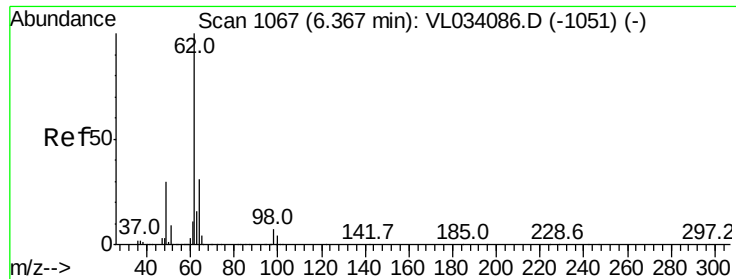
MMDadoda
8/16/2019 8:54:18 AM



#36
Benzene
Concen: 8.570 ppbv
RT: 6.96 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.9	29.9
50	21.5	16.7	25.1





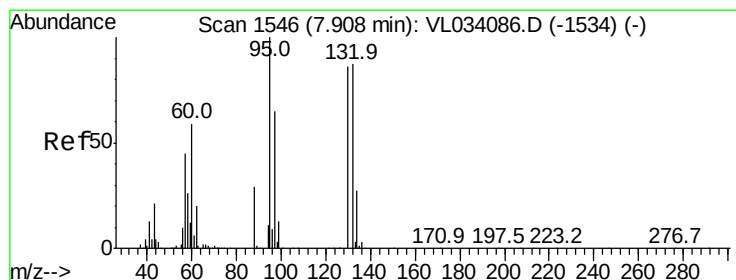
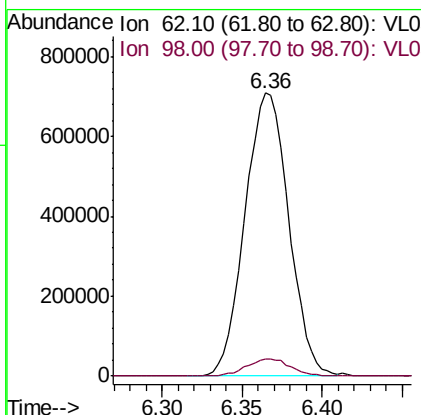
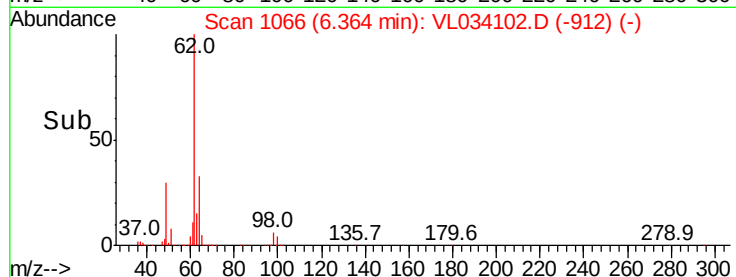
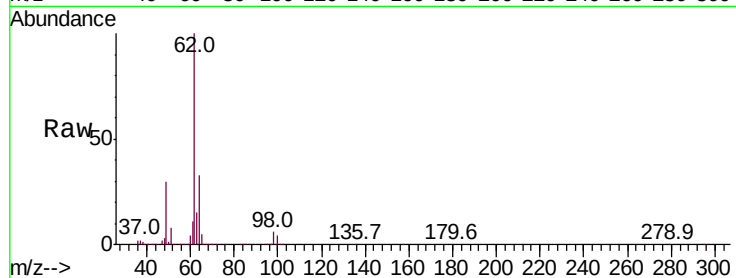
#37
 1,2-Dichloroethane
 Concen: 9.116 ppbv
 RT: 6.36 min Scan# 1066
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0812ABS01

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.2	4.9	7.3

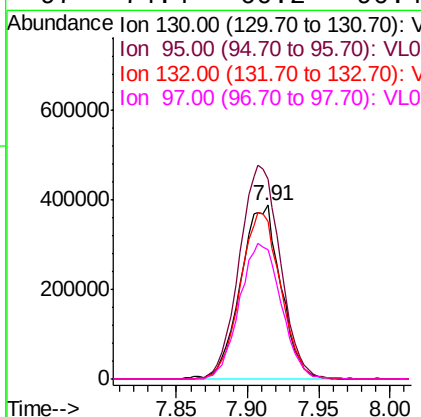
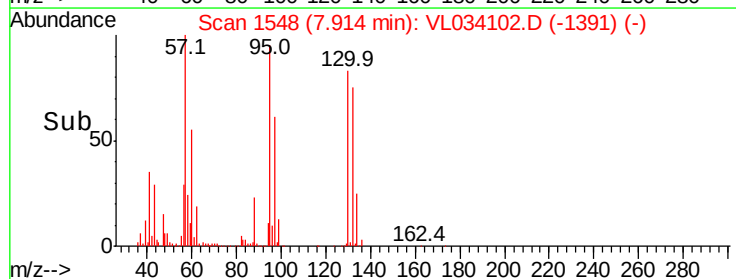
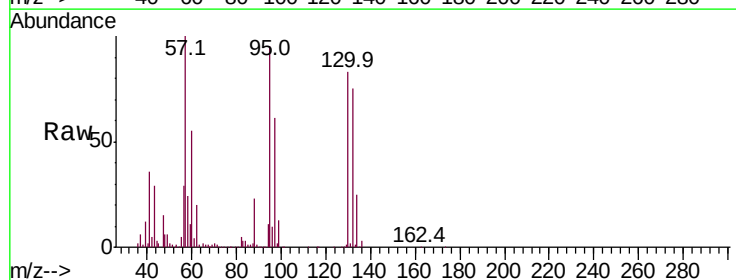
Manual Integrations
 APPROVED

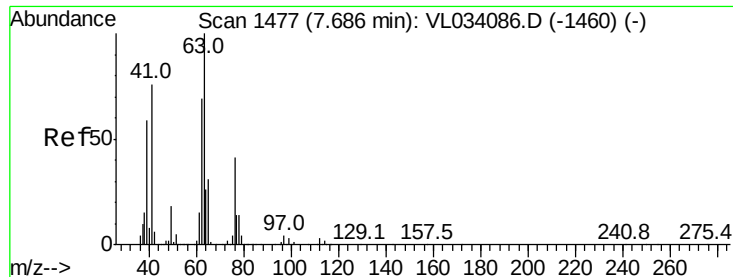
MMDadoda
 8/16/2019 8:54:18 AM



#38
 Trichloroethene
 Concen: 7.262 ppbv m
 RT: 7.91 min Scan# 1548
 Delta R.T. 0.01 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Tgt Ion	Ratio	Lower	Upper
130	100		
95	115.2	92.1	138.1
132	90.9	79.7	119.5
97	74.4	60.2	90.4





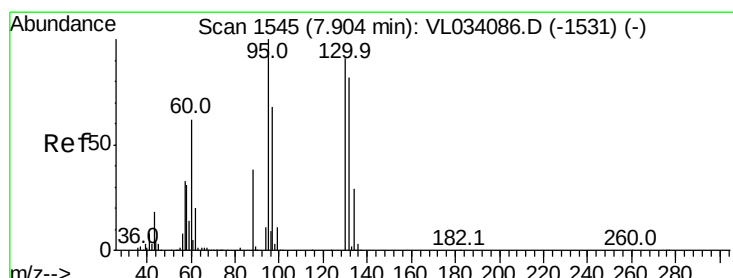
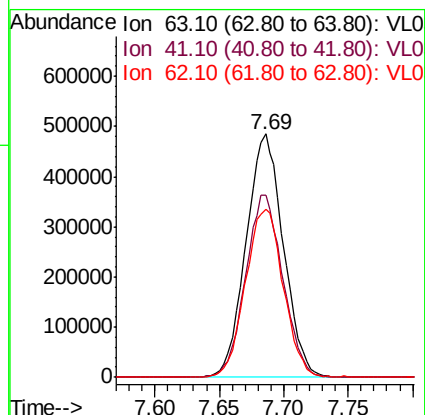
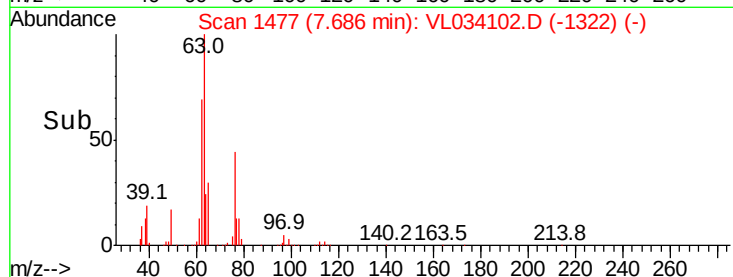
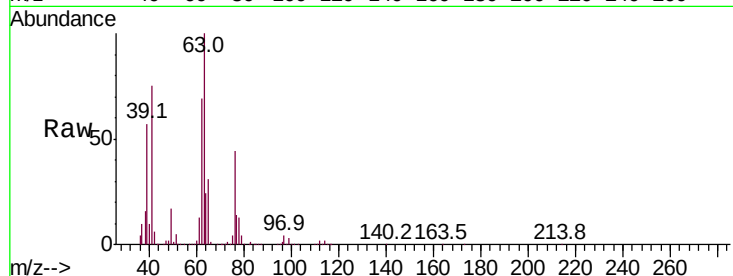
#39
 1,2-Dichloropropane
 Concen: 8.913 ppbv
 RT: 7.69 min Scan# 1477
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0812ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	74.6	60.6	91.0
62	69.0	55.0	82.6

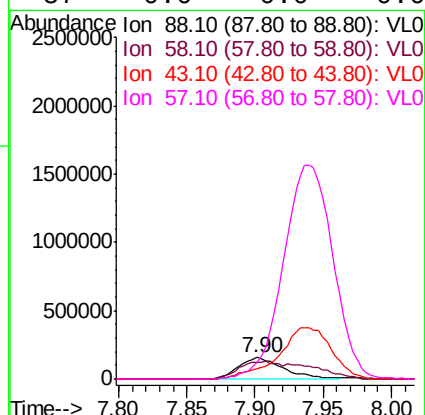
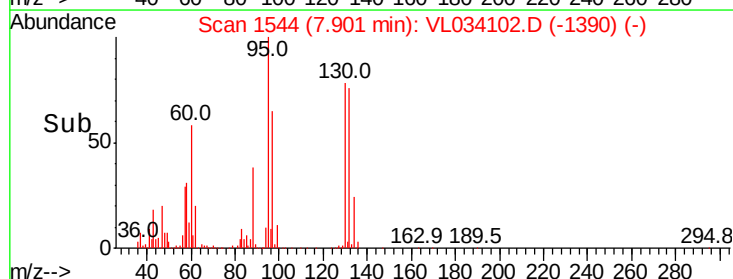
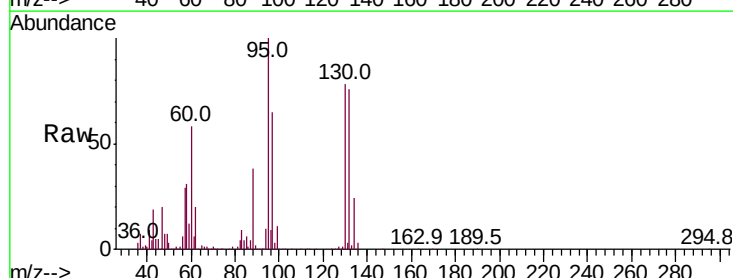
Manual Integrations
 APPROVED

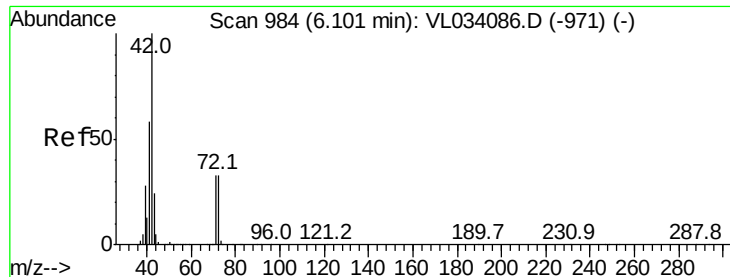
MMDadoda
 8/16/2019 8:54:18 AM



#40
 1,4-Dioxane
 Concen: 8.537 ppbv
 RT: 7.90 min Scan# 1544
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Tgt Ion	Ratio	Lower	Upper
88	100		
58	136.8	113.0	169.4
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 8.655 ppbv

RT: 6.10 min Scan# 983

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tot Ion: 42 Resp: 1181658

Ion Ratio Lower Upper

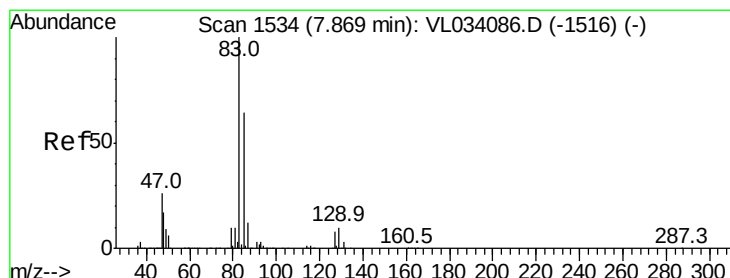
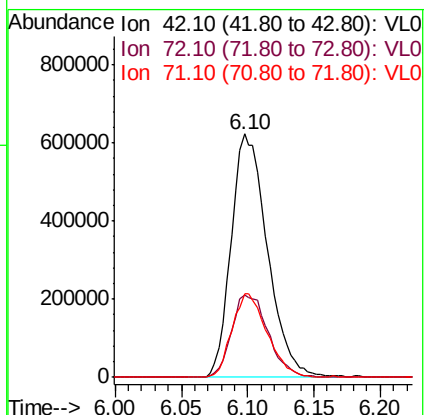
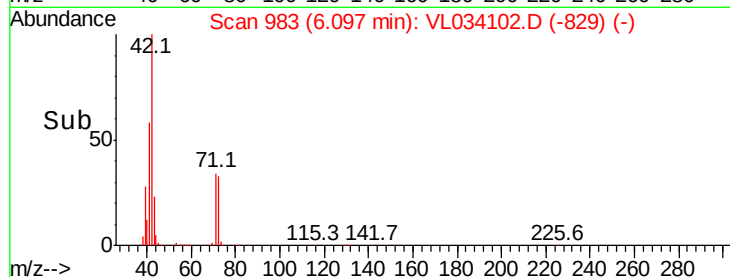
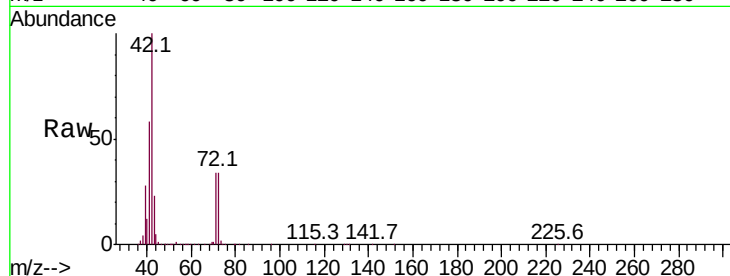
42 100

72 34.4 26.9 40.3

71 33.6 26.5 39.7

Manual Integrations
APPROVED

MMDadoda
8/16/2019 8:54:18 AM



#42

Bromodichloromethane

Concen: 9.095 ppbv

RT: 7.87 min Scan# 1534

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

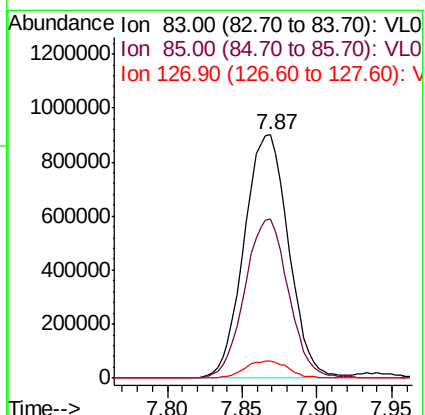
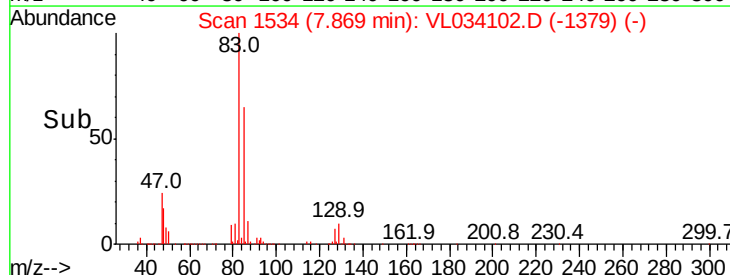
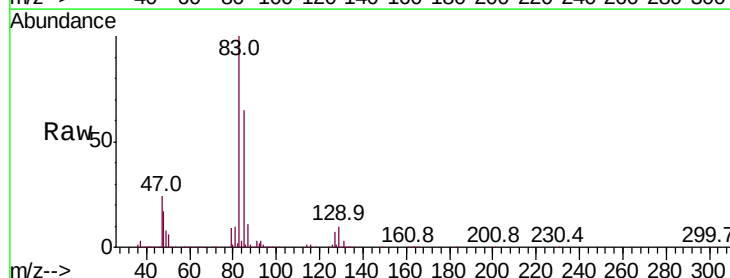
Tgt Ion: 83 Resp: 1861433

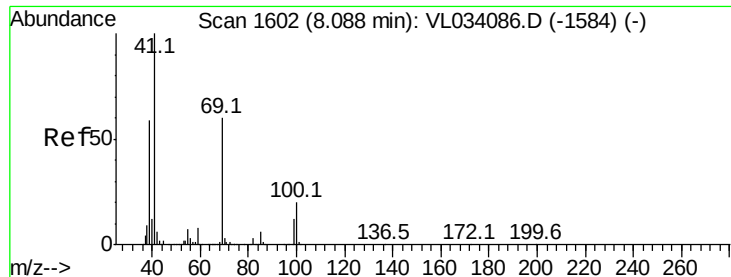
Ion Ratio Lower Upper

83 100

85 65.2 50.9 76.3

127 6.9 6.1 9.1





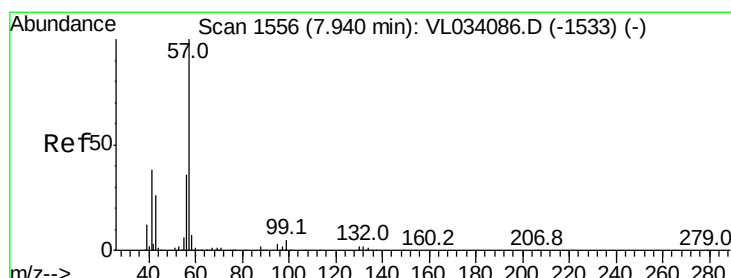
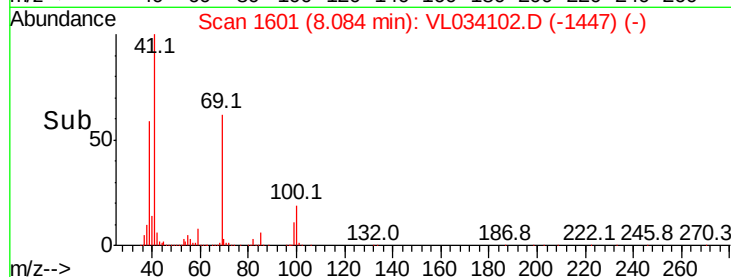
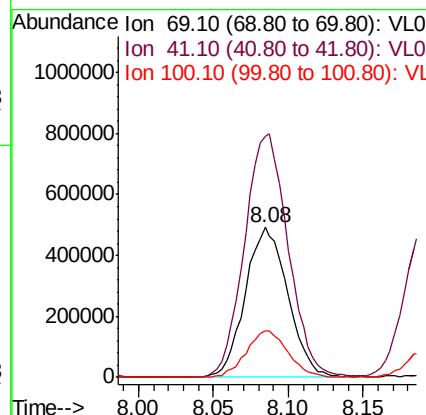
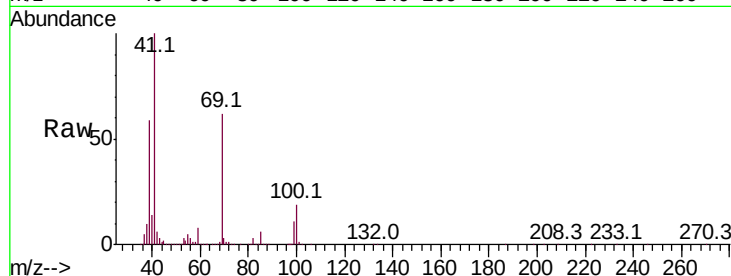
#43
Methyl Methacrylate
Concen: 8.759 ppbv
RT: 8.08 min Scan# 1601
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Instrument :
MSVOA_L
ClientSampleId :
VL0812ABS01

Tot Ion	Ratio	Lower	Upper
69	100		
41	165.7	132.9	199.3
100	30.4	25.8	38.8

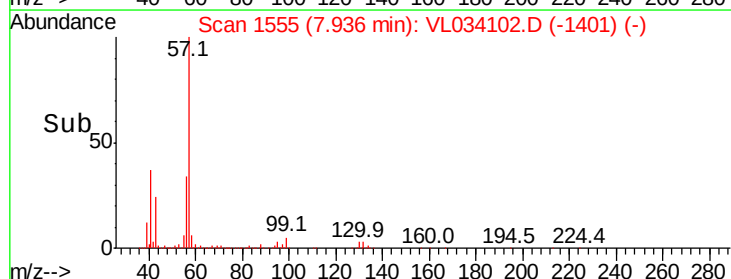
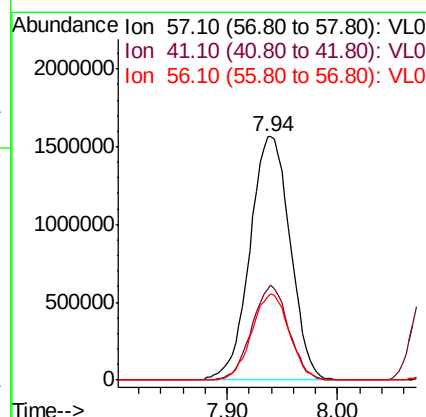
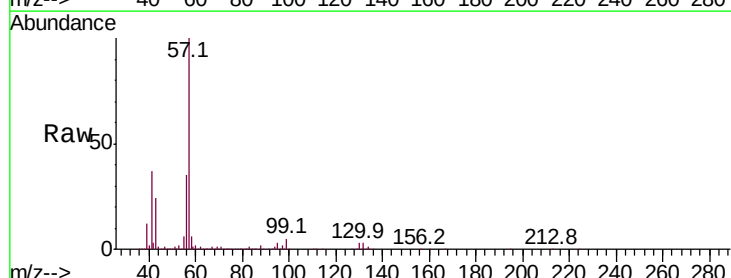
Manual Integrations
APPROVED

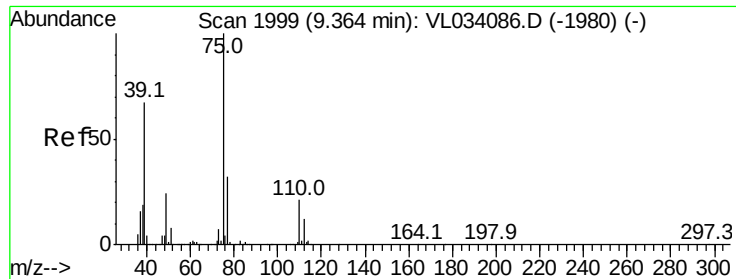
MMDadoda
8/16/2019 8:54:18 AM



#44
2,2,4-Trimethylpentane
Concen: 8.135 ppbv
RT: 7.94 min Scan# 1555
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Tgt Ion	Ratio	Lower	Upper
57	100		
41	35.8	29.2	43.8
56	33.0	26.7	40.1





#45

t-1,3-Dichloropropene

Concen: 9.059 ppbv

RT: 9.36 min Scan# 1997

Delta R.T. -0.01 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tot Ion: 75 Resp: 1278039

Ion Ratio Lower Upper

75 100

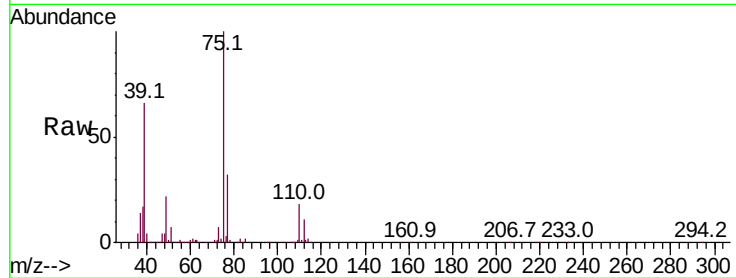
77 31.5 25.7 38.5

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

600000

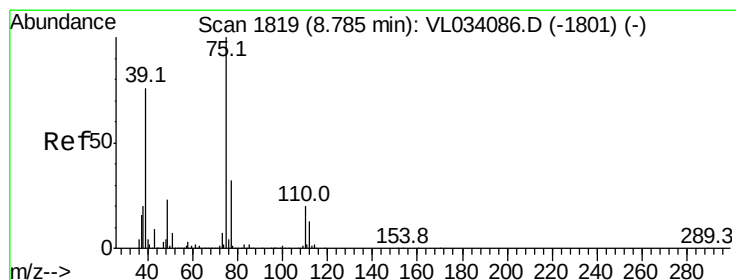
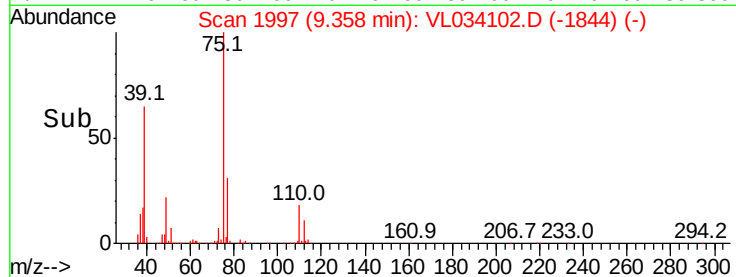
400000

200000

0

9.30 9.35 9.40

Time-->



#46

cis-1,3-Dichloropropene

Concen: 8.860 ppbv

RT: 8.78 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

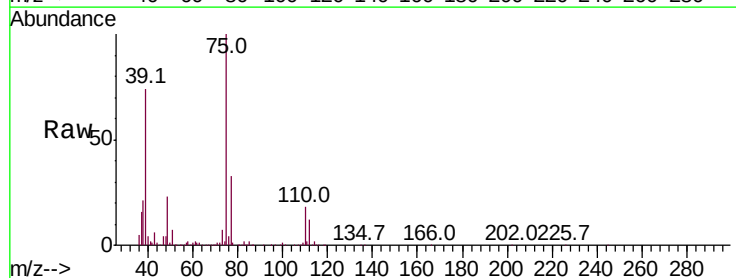
Tgt Ion: 75 Resp: 1442615

Ion Ratio Lower Upper

75 100

39 74.2 61.0 91.4

77 33.0 25.6 38.4



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

1000000

800000

600000

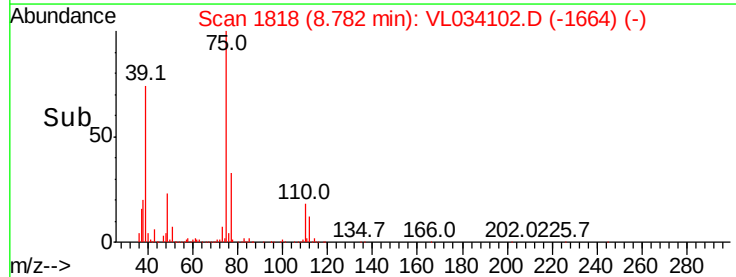
400000

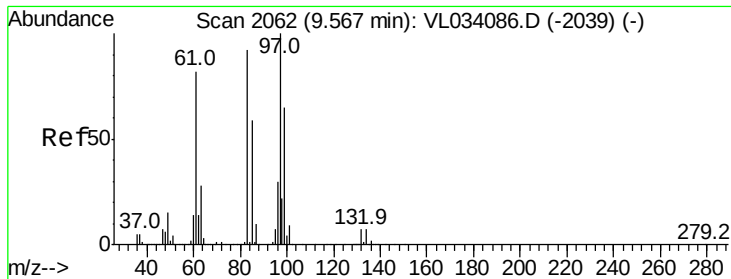
200000

0

8.70 8.75 8.80 8.85

Time-->





#47

1,1,2-Trichloroethane

Concen: 8.781 ppbv

RT: 9.56 min Scan# 2061

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tot Ion: 97 Resp: 918998

Ion Ratio Lower Upper

97 100

83 95.2 74.0 111.0

85 59.7 47.1 70.7

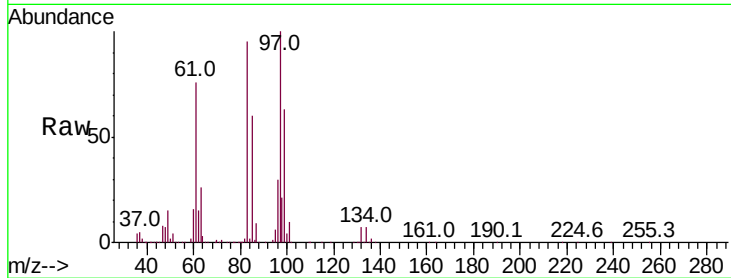
99 63.5 51.9 77.9

Manual Integrations

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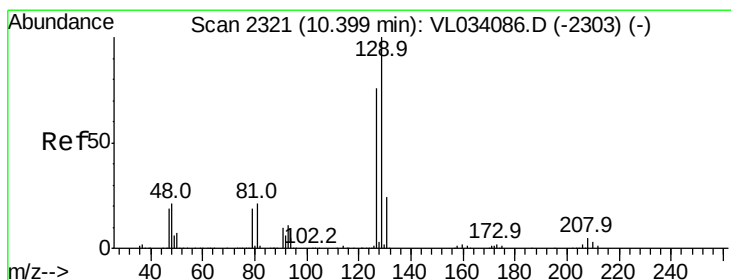
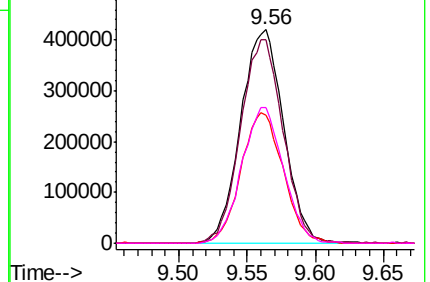
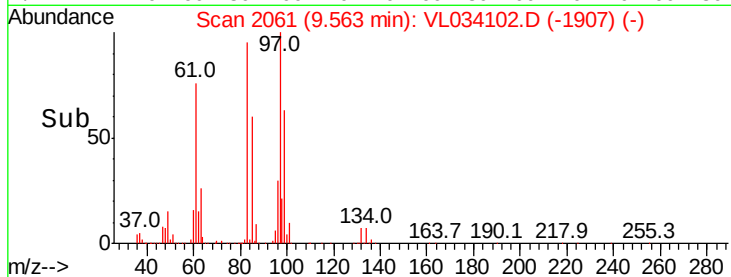


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 8.561 ppbv

RT: 10.40 min Scan# 2320

Delta R.T. -0.00 min

Lab File: VL034102.D

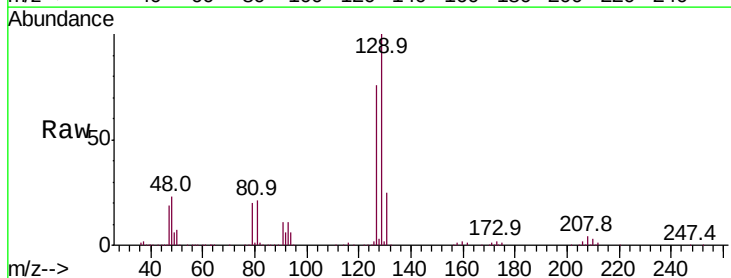
Acq: 12 Aug 2019 12:59

Tgt Ion: 129 Resp: 1436756

Ion Ratio Lower Upper

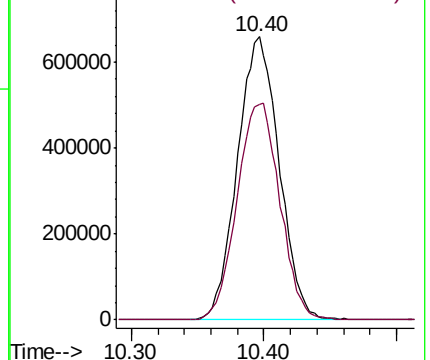
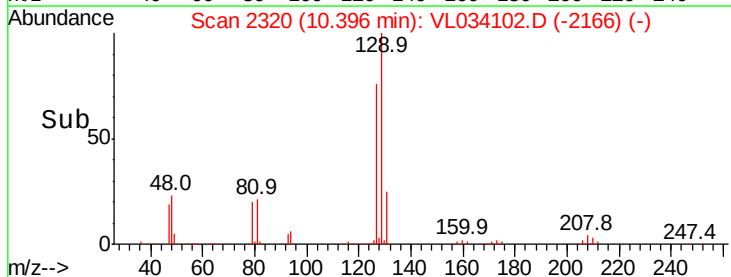
129 100

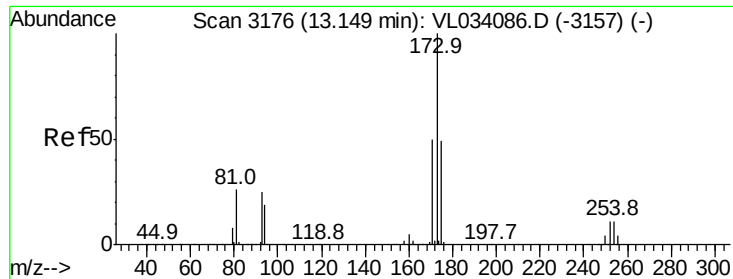
127 78.9 39.4 118.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 8.552 ppbv

RT: 13.14 min Scan# 3174

Delta R.T. -0.01 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tot Ion:173 Resp: 1283259

Ion Ratio Lower Upper

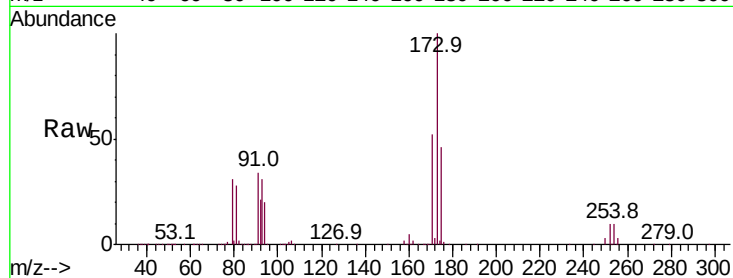
173 100

175 49.1 39.8 59.8

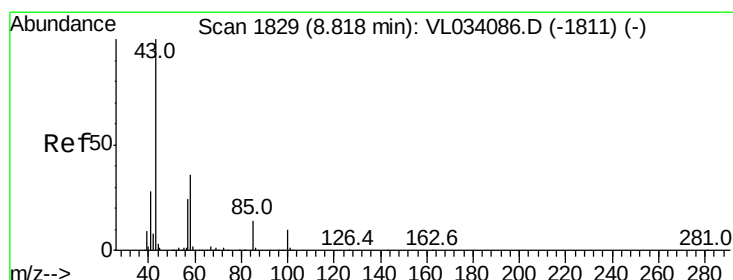
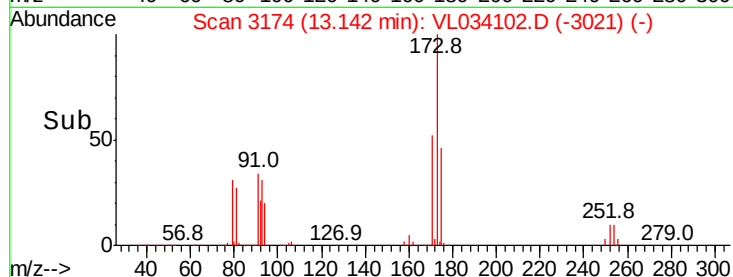
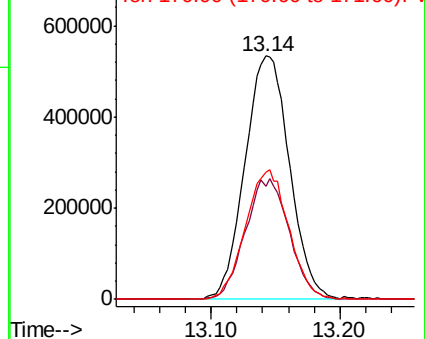
171 51.9 42.7 64.1

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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 8.276 ppbv

RT: 8.81 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VL034102.D

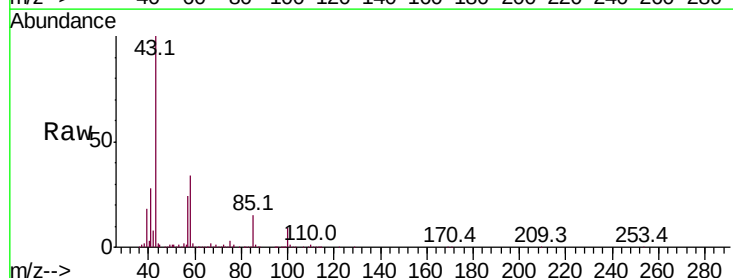
Acq: 12 Aug 2019 12:59

Tgt Ion: 43 Resp: 2795630

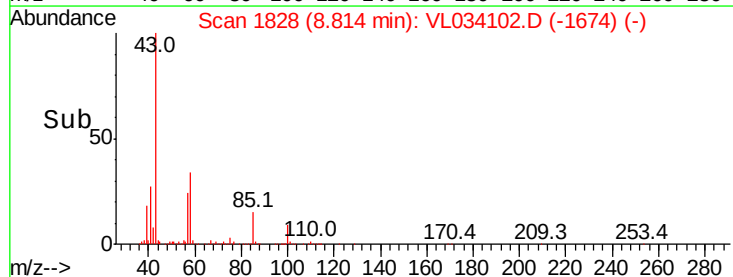
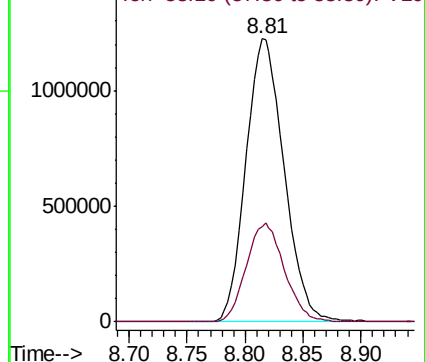
Ion Ratio Lower Upper

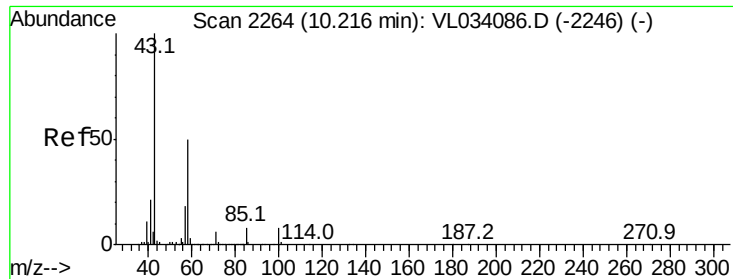
43 100

58 35.0 28.2 42.2



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





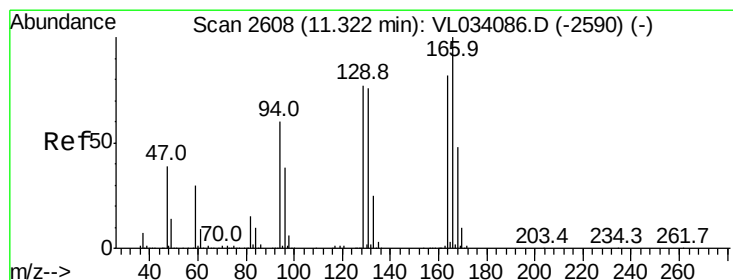
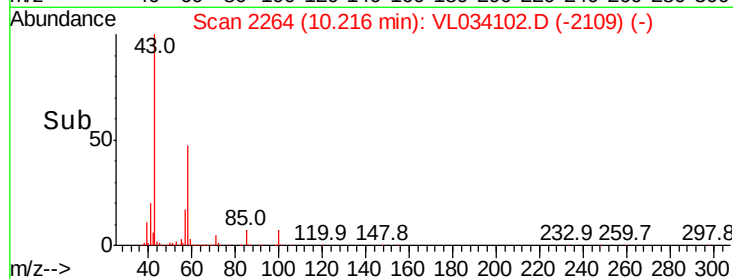
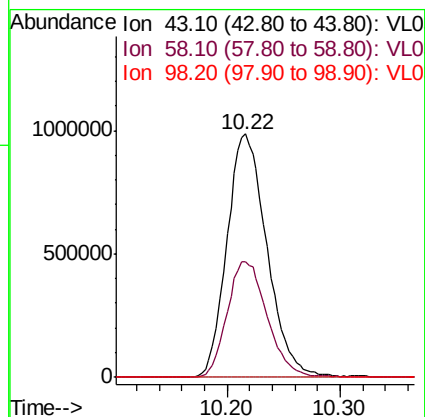
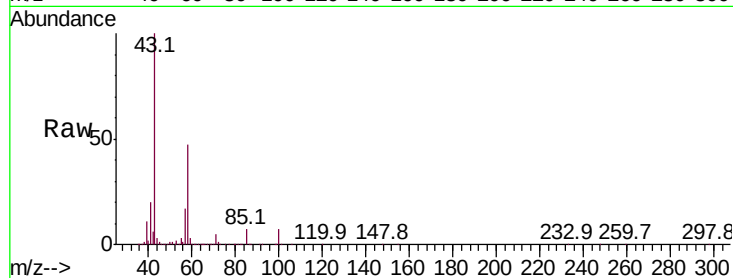
#51
2-Hexanone
Concen: 8.518 ppbv
RT: 10.22 min Scan# 2264
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Instrument :
MSVOA_L
ClientSampleId :
VL0812ABS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	47.7	38.5	57.7
98	0.1	0.0	0.0#

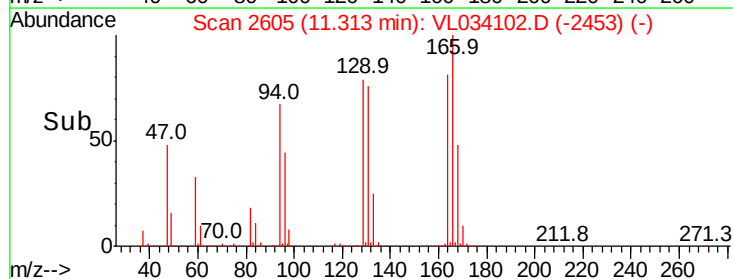
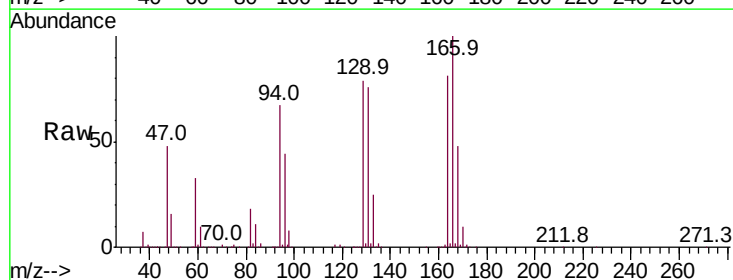
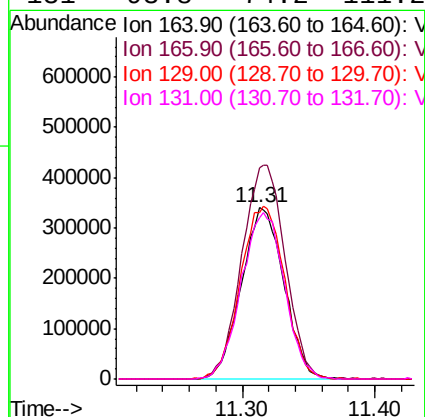
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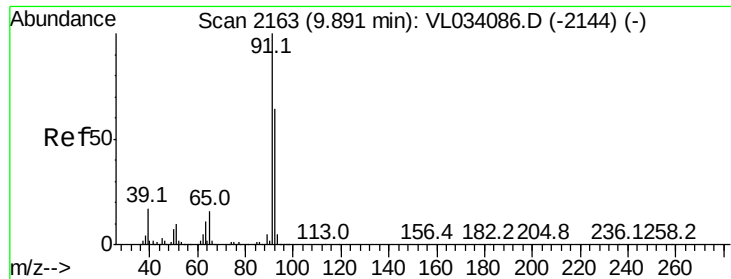
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#52
Tetrachloroethene
Concen: 7.256 ppbv
RT: 11.31 min Scan# 2605
Delta R.T. -0.01 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.6	96.8	145.2
129	97.3	74.9	112.3
131	93.8	74.2	111.2





#53

Toluene

Concen: 8.244 ppbv

RT: 9.89 min Scan# 2162

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tot Ion: 91 Resp: 2581202

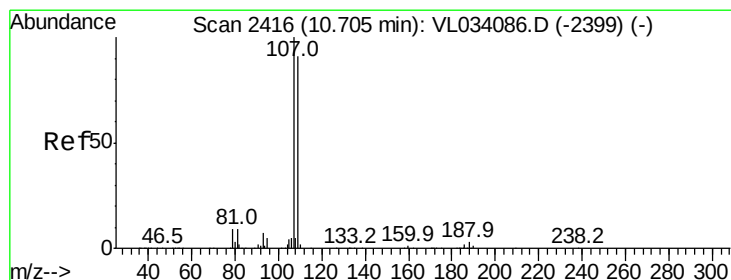
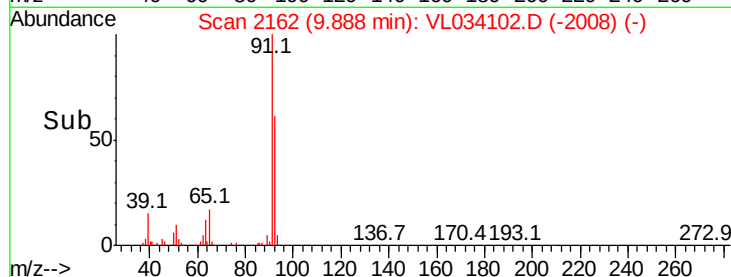
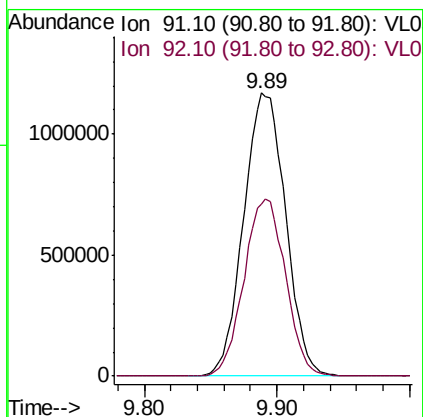
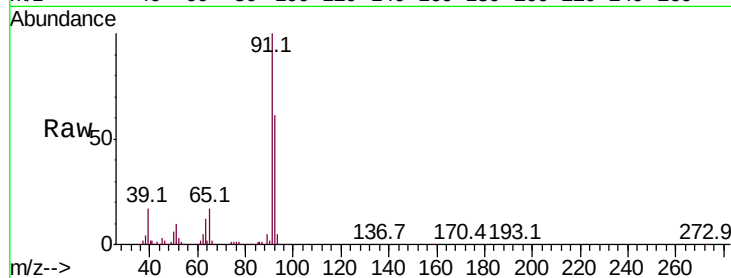
Ion Ratio Lower Upper

91 100

92 62.0 50.3 75.5

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#54

1,2-Dibromoethane

Concen: 8.509 ppbv

RT: 10.70 min Scan# 2416

Delta R.T. -0.00 min

Lab File: VL034102.D

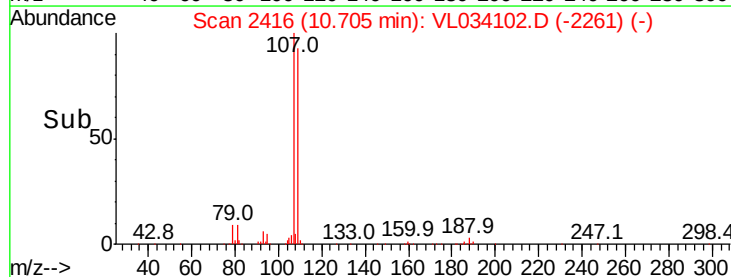
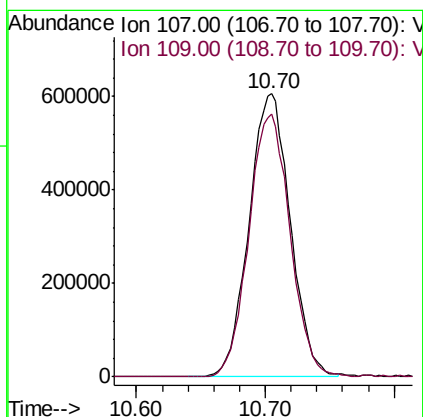
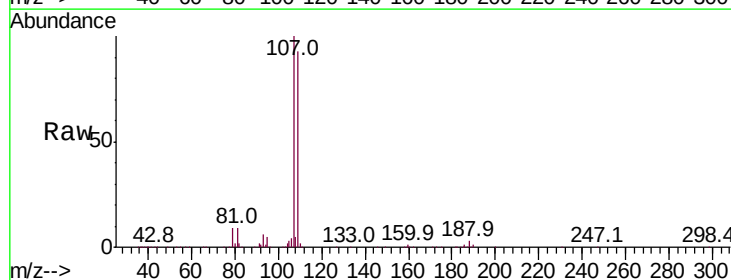
Acq: 12 Aug 2019 12:59

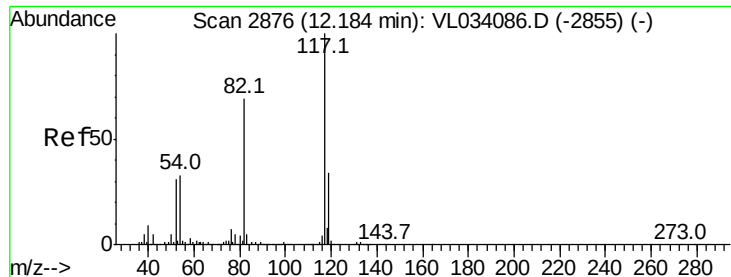
Tgt Ion: 107 Resp: 1349244

Ion Ratio Lower Upper

107 100

109 93.1 72.9 109.3





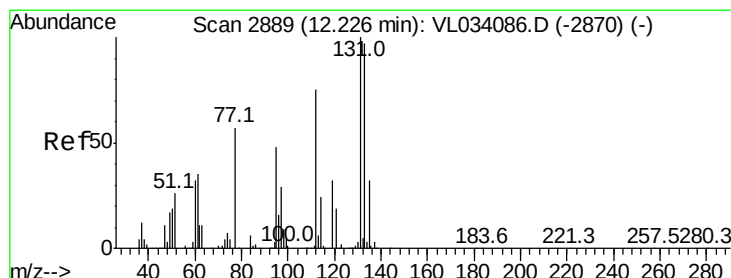
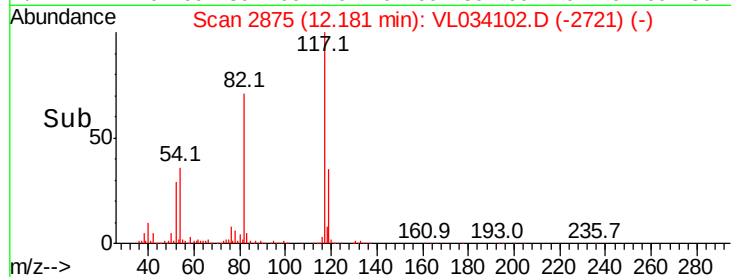
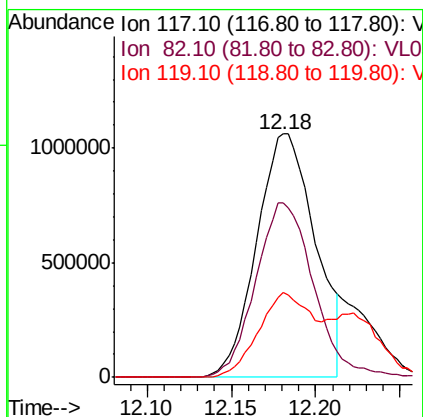
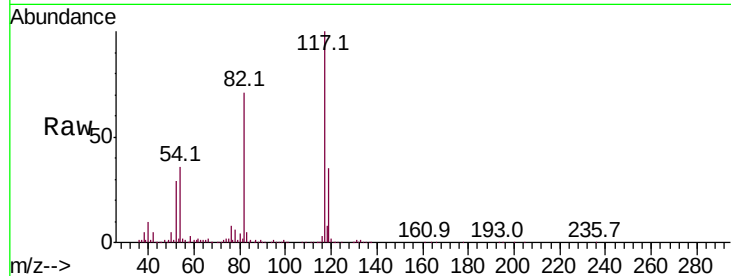
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.18 min Scan# 2875
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Instrument :
MSVOA_L
ClientSampleId :
VL0812ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.7	52.2	78.4
119	55.1	44.8	67.2

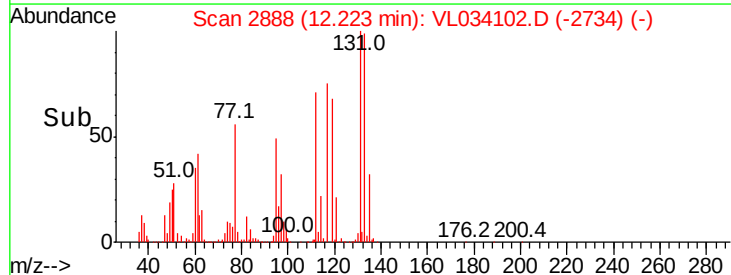
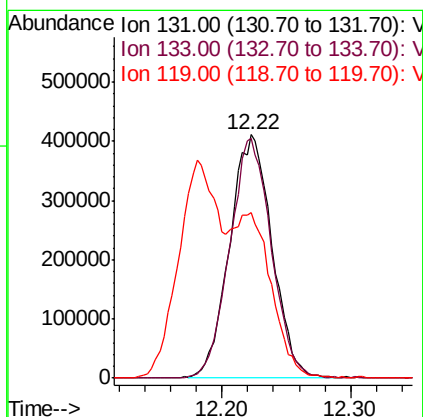
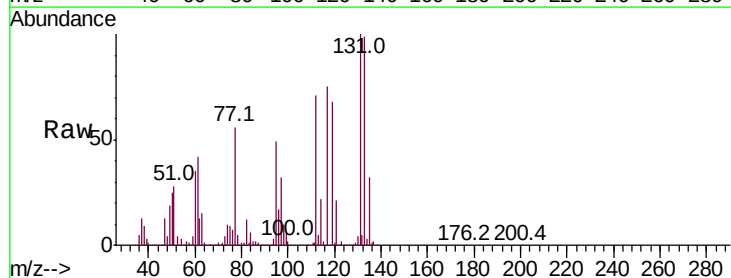
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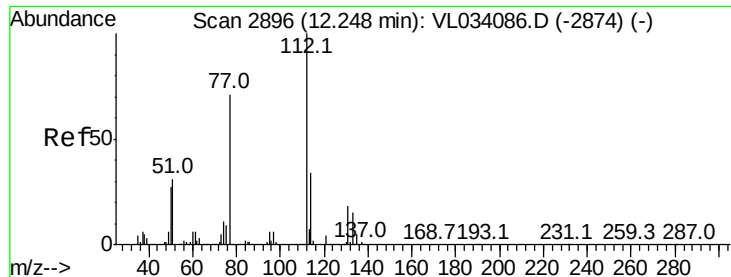
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 7.948 ppbv
RT: 12.22 min Scan# 2888
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.4	76.5	114.7
119	152.0	114.7	172.1





#57

Chlorobenzene

Concen: 7.811 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.01 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

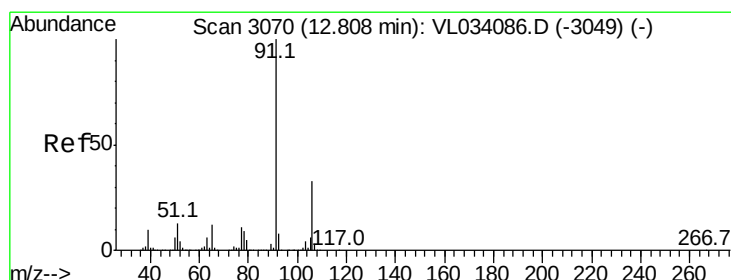
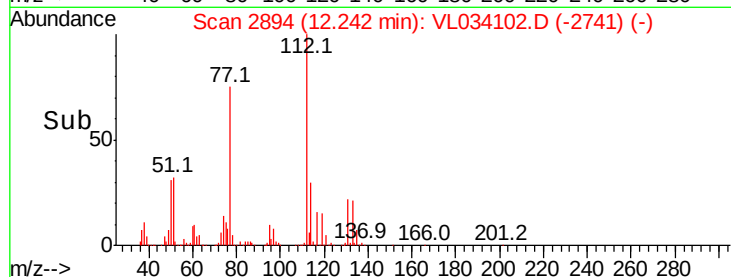
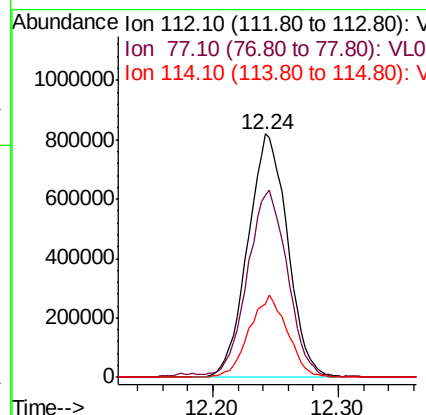
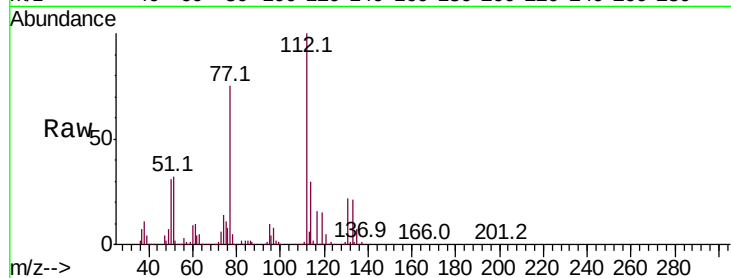
ClientSampleId :

VL0812ABS01

Tot Ion	Ratio	Lower	Upper
112	100		
77	74.2	57.8	86.6
114	29.8	30.3	37.1#

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#58

Ethyl Benzene

Concen: 8.050 ppbv

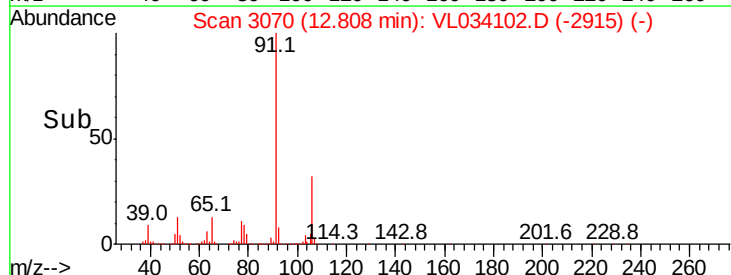
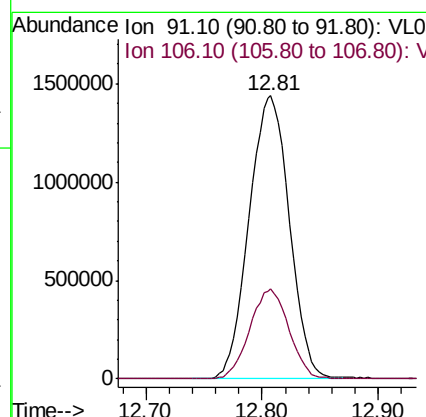
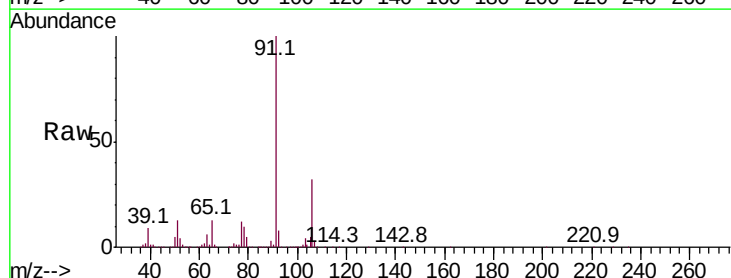
RT: 12.81 min Scan# 3070

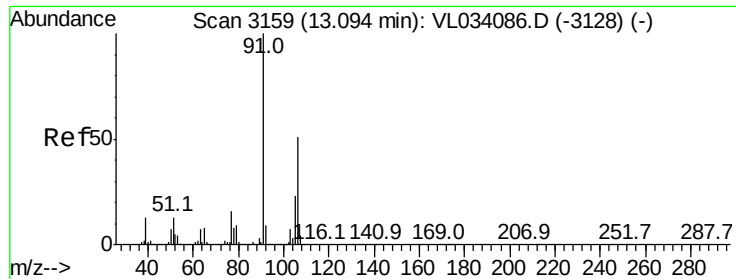
Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.6	26.0	39.0





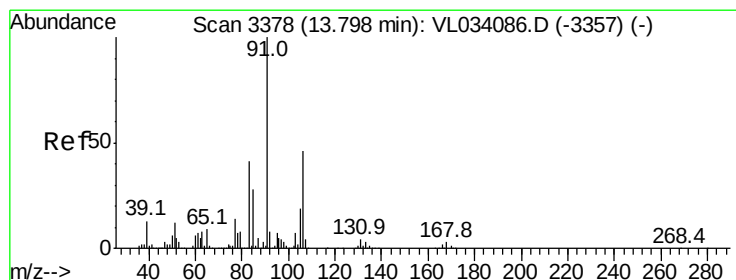
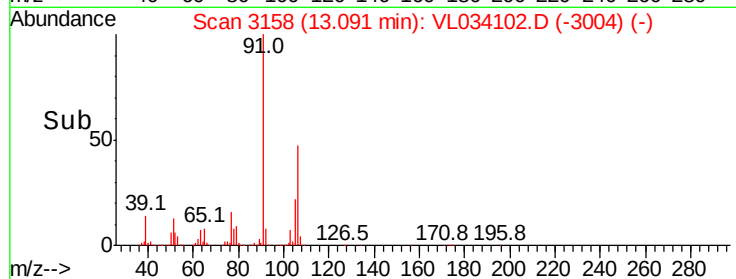
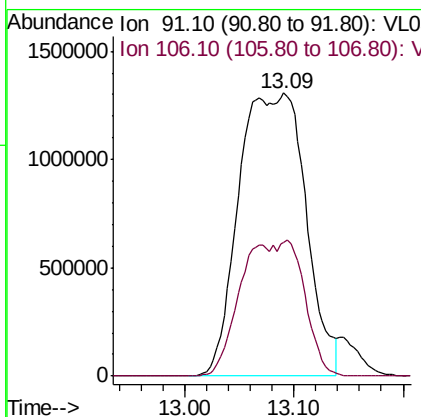
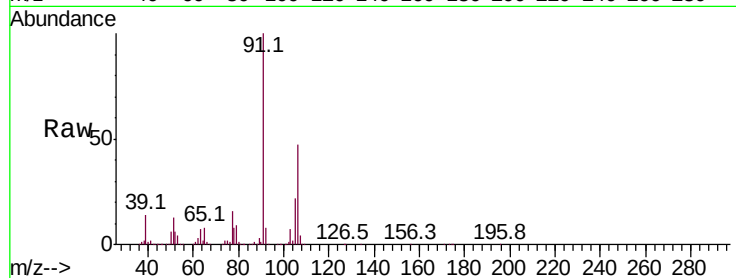
#59
m/p-Xylene
Concen: 16.021 ppbv m
RT: 13.09 min Scan# 3158
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Instrument :
MSVOA_L
ClientSampleId :
VL0812ABS01

Tot Ion: 91 Resp: 5554221
Ion Ratio Lower Upper
91 100
106 45.4 38.7 58.1

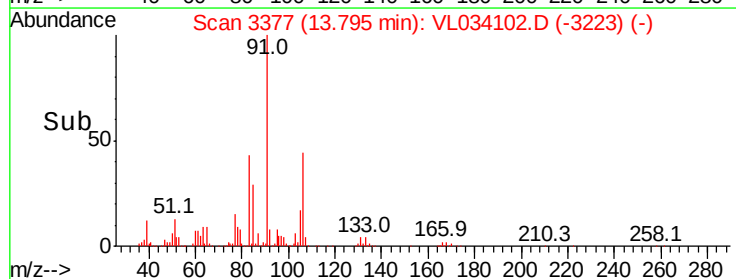
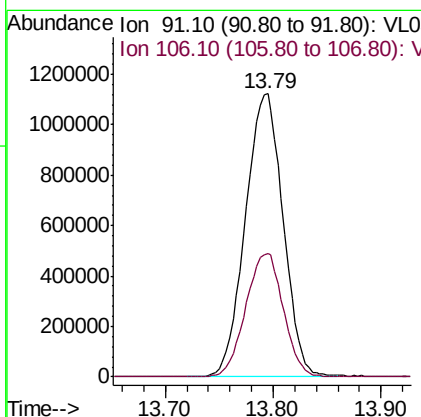
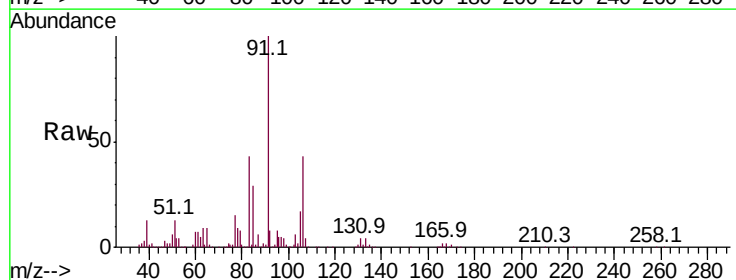
Manual Integrations
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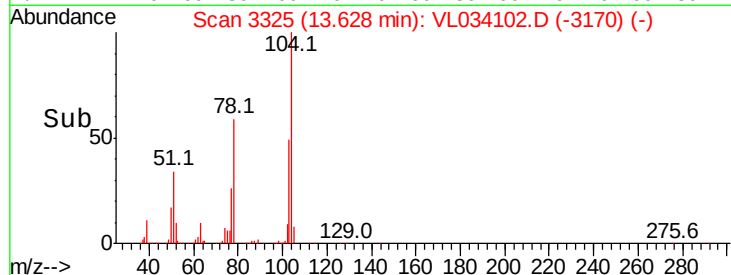
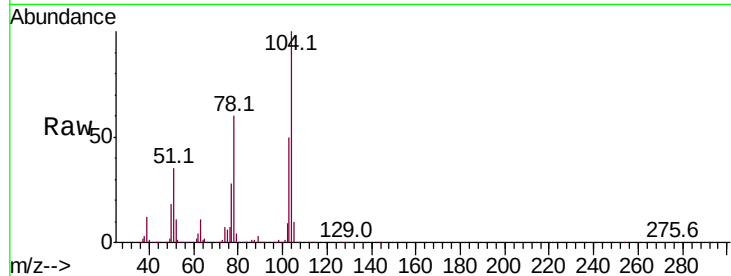
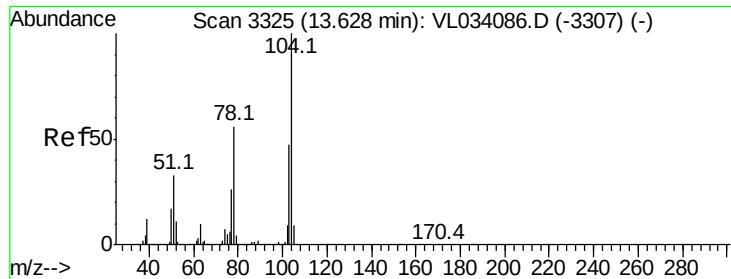
MMDadoda
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#60
o-Xylene
Concen: 7.866 ppbv
RT: 13.79 min Scan# 3377
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Tgt Ion: 91 Resp: 2725067
Ion Ratio Lower Upper
91 100
106 43.5 22.6 67.7





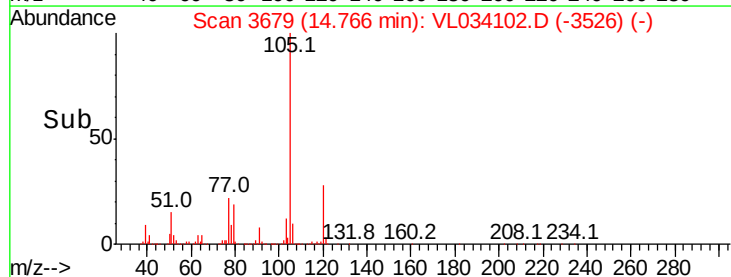
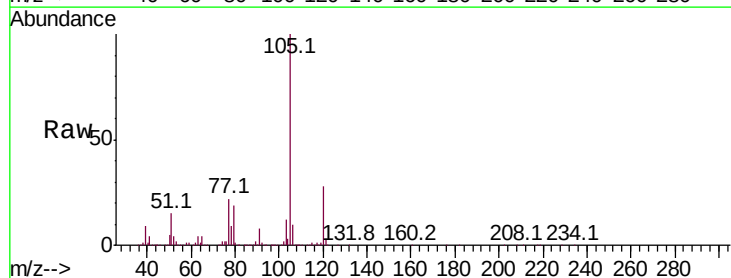
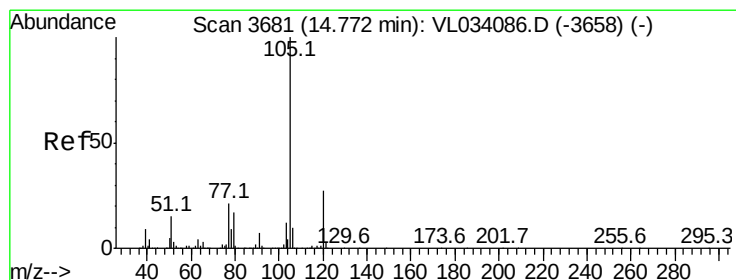
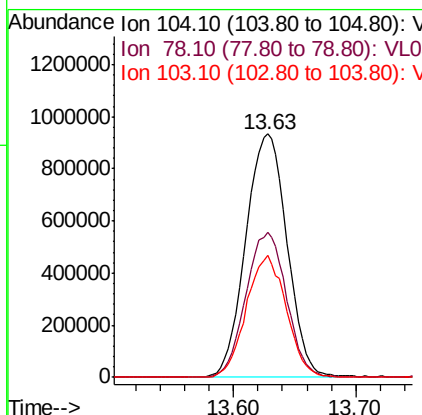
#61
Stvrene
Concen: 7.943 ppbv
RT: 13.63 min Scan# 3325
Delta R.T. -0.00 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Tot Ion	Ratio	Lower	Upper
104	100		
78	58.6	44.2	66.4
103	48.7	38.3	57.5

Instrument :
MSVOA_L
ClientSampleId :
VL0812ABS01

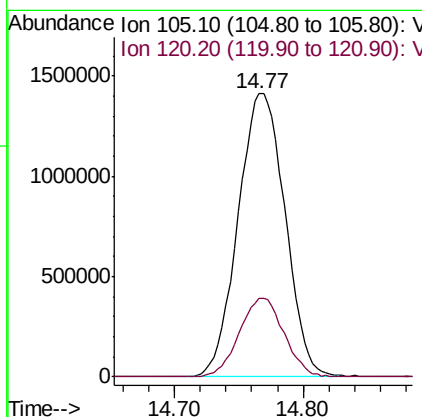
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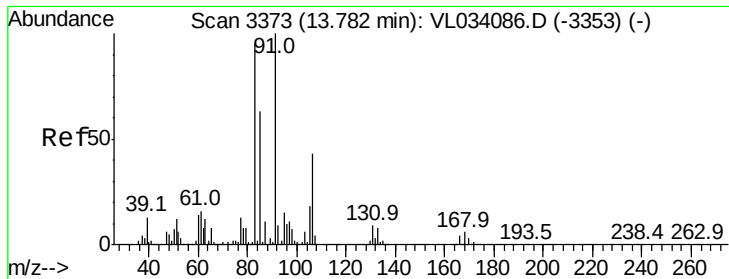
MMDadoda
8/16/2019 8:54:18 AM



#62
Isopropylbenzene
Concen: 7.707 ppbv
RT: 14.77 min Scan# 3679
Delta R.T. -0.01 min
Lab File: VL034102.D
Acq: 12 Aug 2019 12:59

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.6	21.4	32.2





#63

1,1,2,2-Tetrachloroethane

Concen: 7.798 ppbv

RT: 13.78 min Scan# 3373

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tot Ion: 83 Resp: 1951509

Ion Ratio Lower Upper

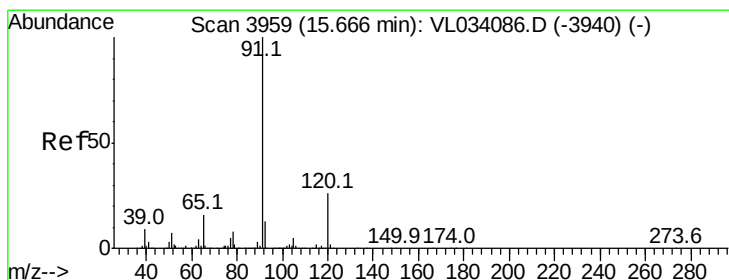
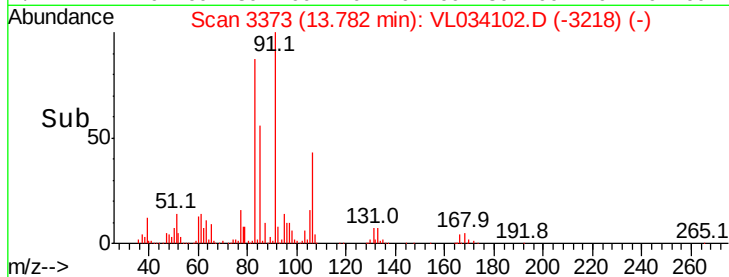
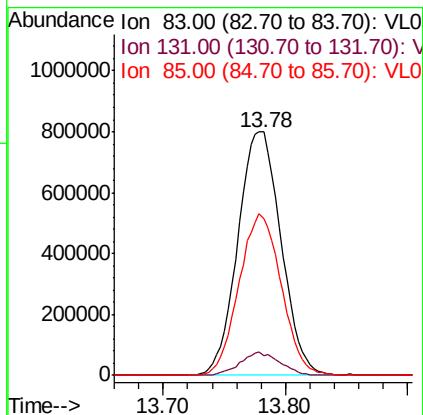
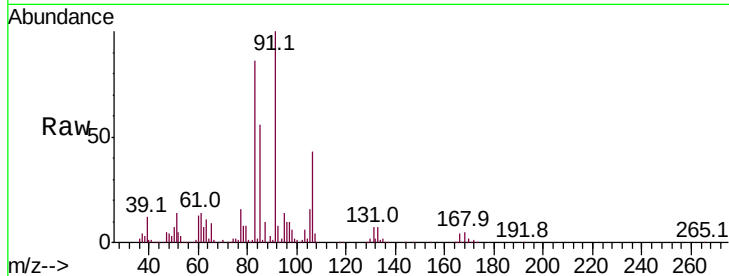
83 100

131 8.7 4.6 13.8

85 65.2 32.6 97.8

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#64

n-propylbenzene

Concen: 7.812 ppbv

RT: 15.66 min Scan# 3958

Delta R.T. -0.00 min

Lab File: VL034102.D

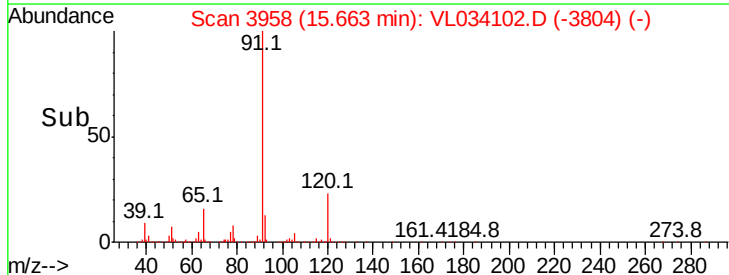
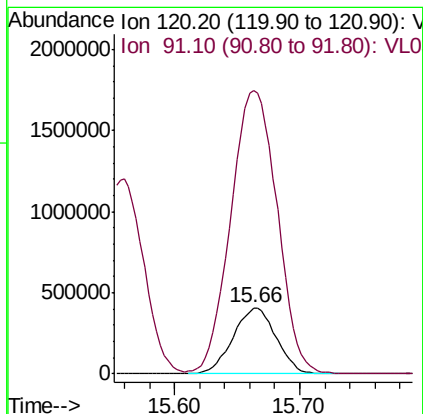
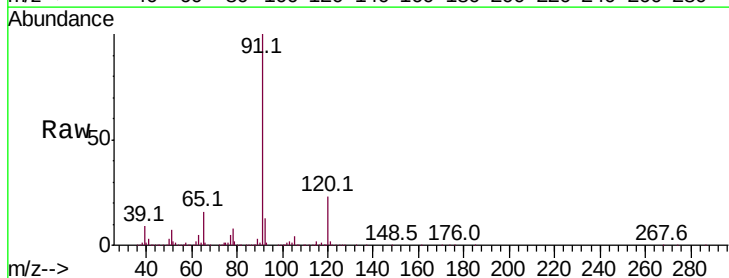
Acq: 12 Aug 2019 12:59

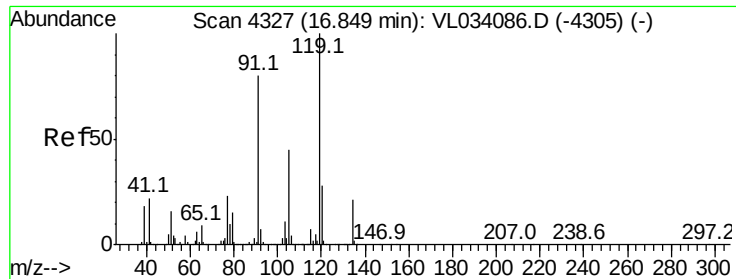
Tgt Ion: 120 Resp: 960198

Ion Ratio Lower Upper

120 100

91 468.4 359.7 539.5





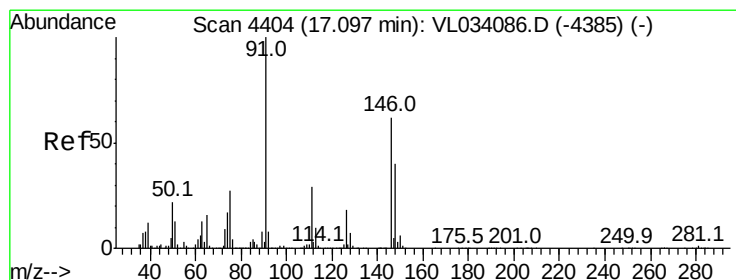
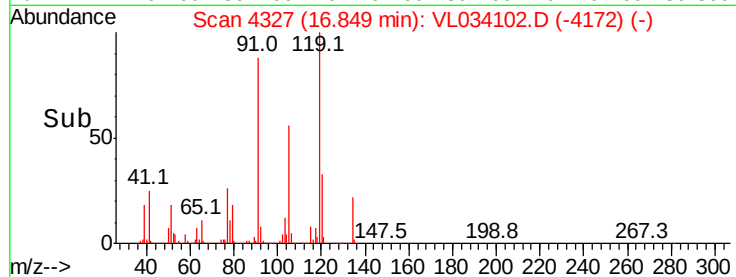
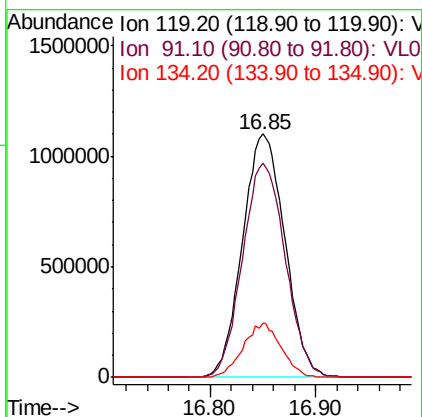
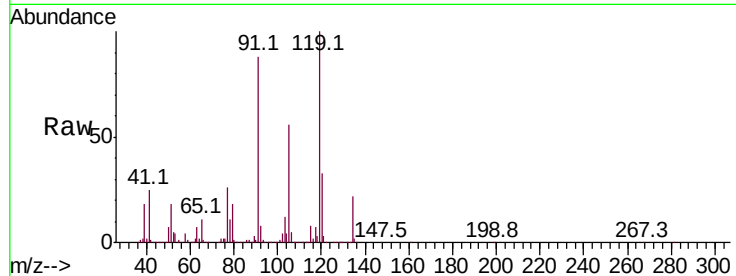
#65
 tert-Butylbenzene
 Concen: 7.415 ppbv
 RT: 16.85 min Scan# 4327
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0812ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	89.1	67.6	101.4
134	20.1	16.0	24.0

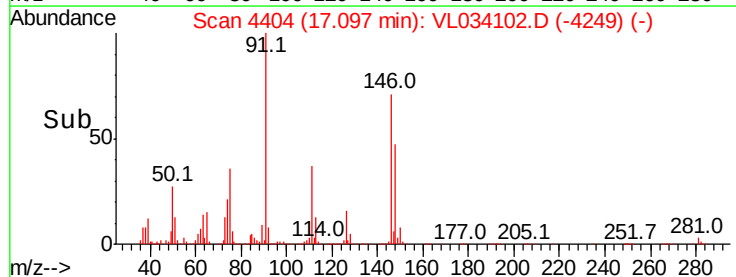
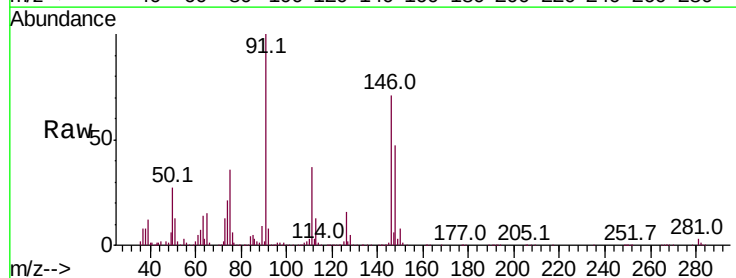
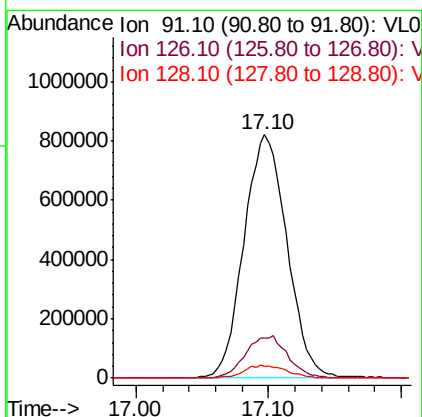
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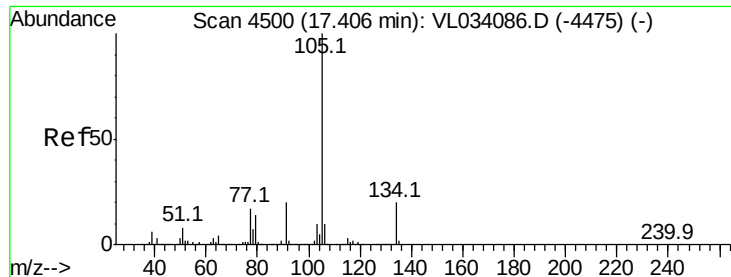
MMDadoda
 8/16/2019 8:54:18 AM



#66
 Benzyl Chloride
 Concen: 8.095 ppbv
 RT: 17.10 min Scan# 4404
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.1	14.8	22.2
128	5.2	4.8	7.2





#67

sec-Butylbenzene

Concen: 7.468 ppbv

RT: 17.40 min Scan# 4498

Delta R.T. -0.01 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tot Ion:105 Resp: 4366341

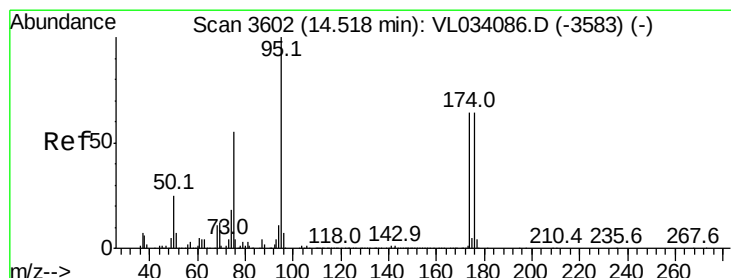
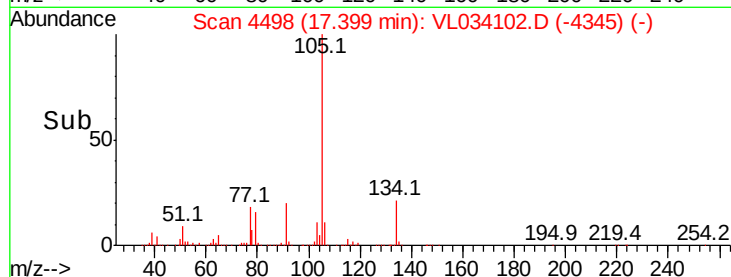
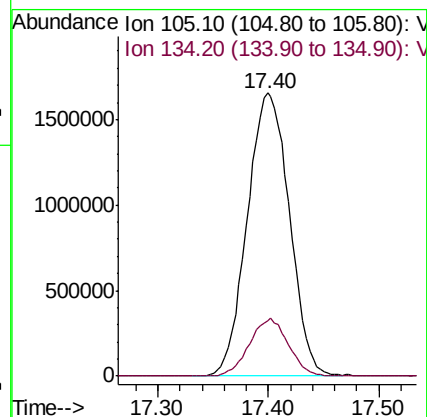
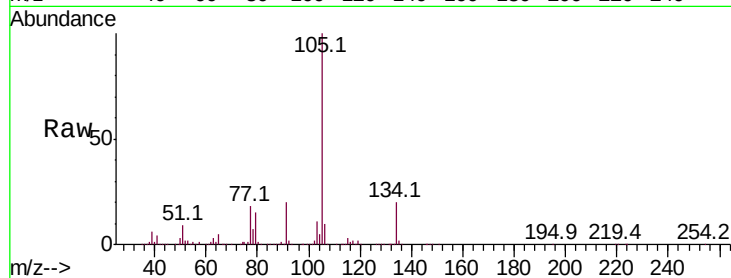
Ion Ratio Lower Upper

105 100

134 18.9 15.4 23.2

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.145 ppbv

RT: 14.52 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

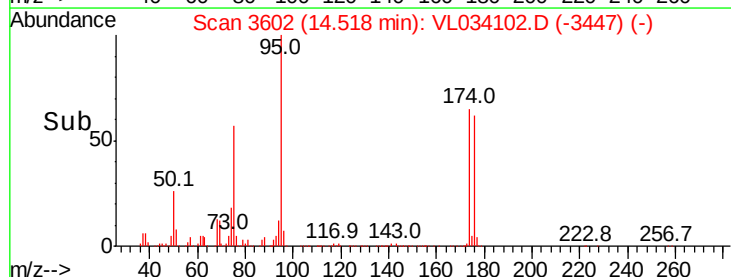
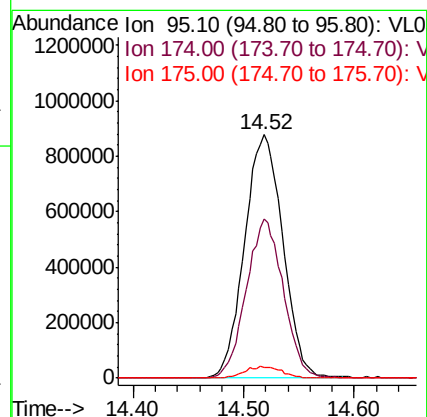
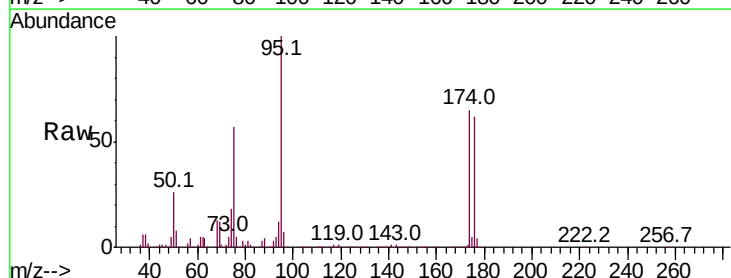
Tgt Ion: 95 Resp: 2114330

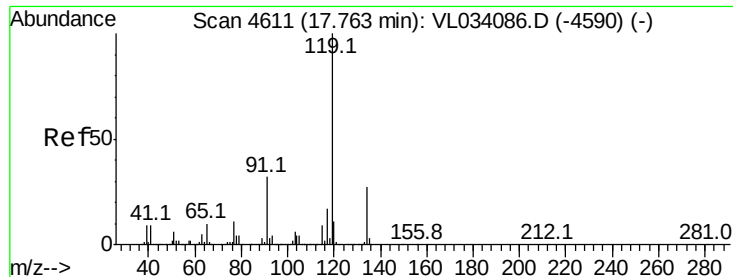
Ion Ratio Lower Upper

95 100

174 63.4 53.0 79.6

175 4.7 4.2 6.2





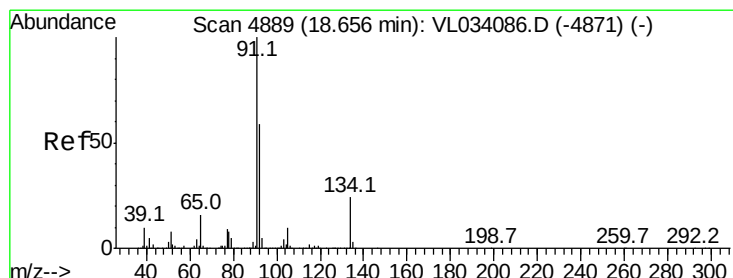
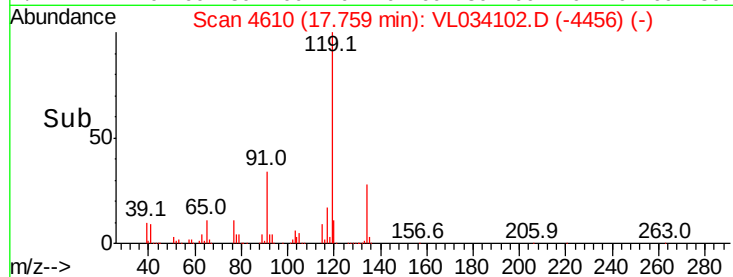
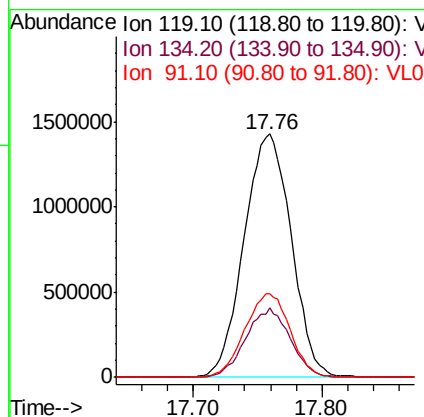
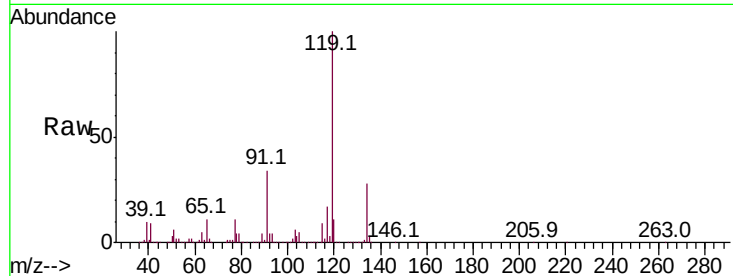
#69
 p-Isopropyltoluene
 Concen: 7.518 ppbv
 RT: 17.76 min Scan# 4610
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0812ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.7	21.3	31.9
91	33.4	25.4	38.0

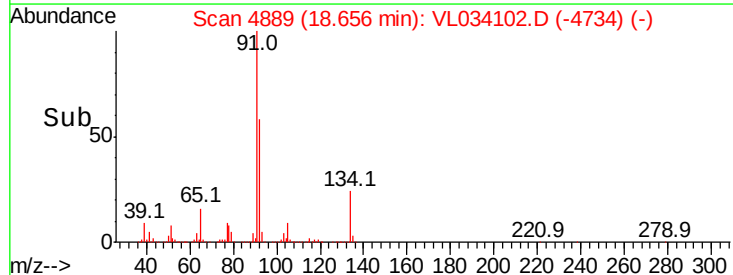
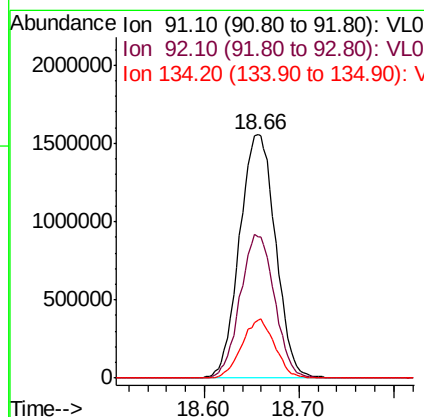
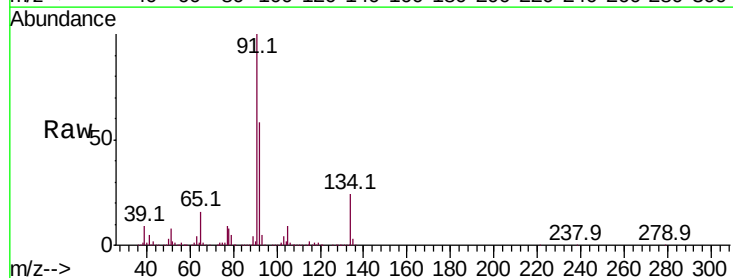
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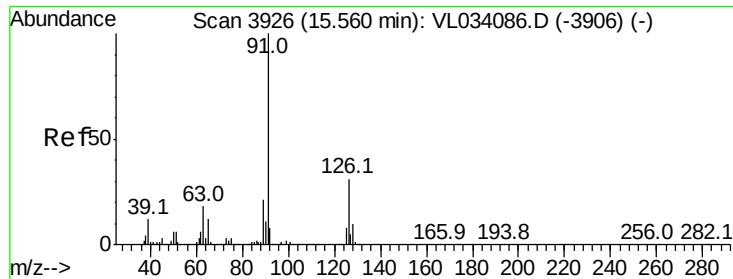
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#70
 n-Butylbenzene
 Concen: 7.885 ppbv
 RT: 18.66 min Scan# 4889
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.4	45.9	68.9
134	22.3	19.0	28.4





#71

2-Chlorotoluene

Concen: 7.917 ppbv

RT: 15.56 min Scan# 3926

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tot Ion: 91 Resp: 2960330

Ion Ratio Lower Upper

91 100

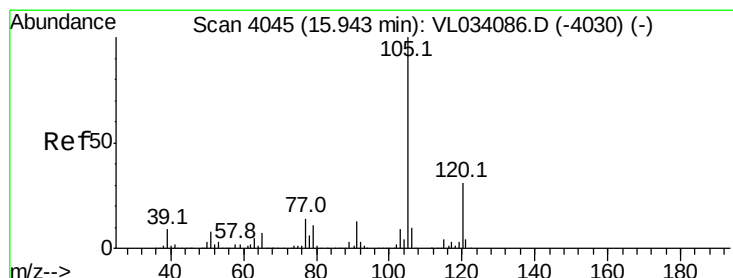
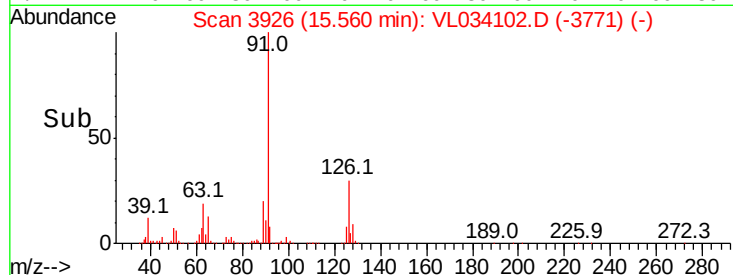
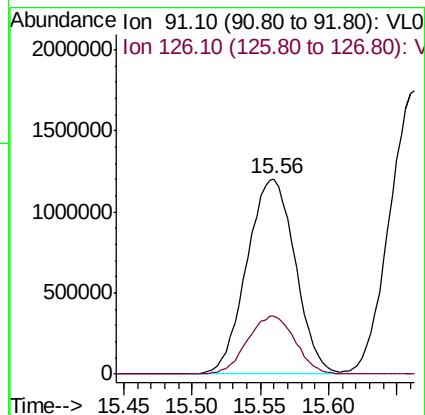
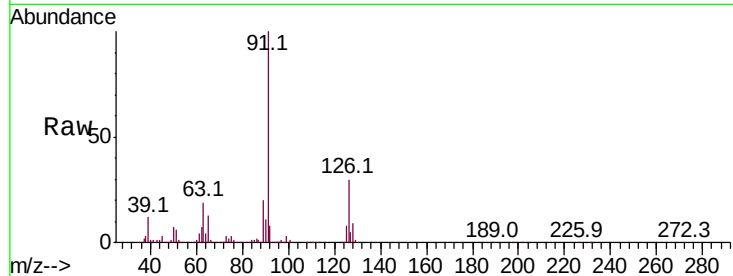
126 29.5 12.2 48.6

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#72

4-Ethyltoluene

Concen: 7.987 ppbv

RT: 15.94 min Scan# 4045

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Tgt Ion:105 Resp: 3256921

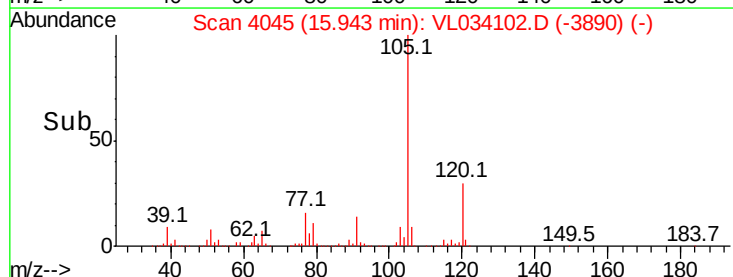
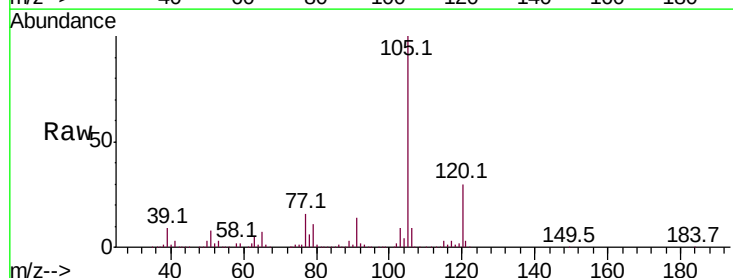
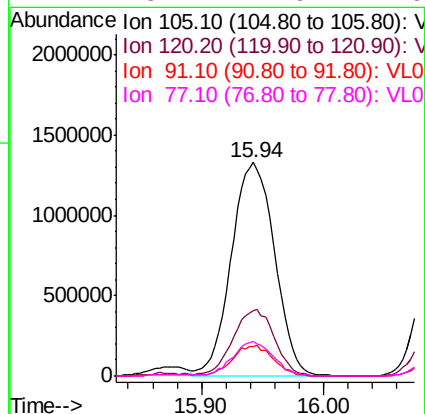
Ion Ratio Lower Upper

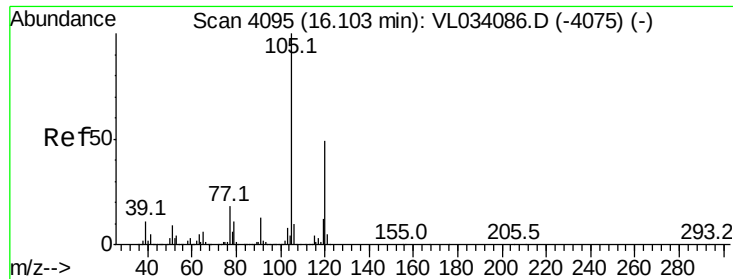
105 100

120 29.9 24.2 36.2

91 13.5 10.5 15.7

77 15.2 11.9 17.9





#73

1,3,5-Trimethylbenzene

Concen: 7.892 ppbv

RT: 16.10 min Scan# 4094

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tot Ion:105 Resp: 3095956

Ion Ratio Lower Upper

105 100

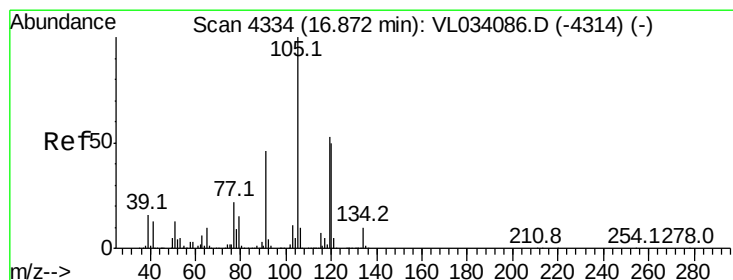
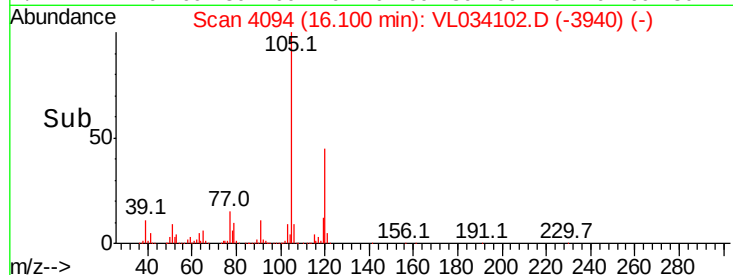
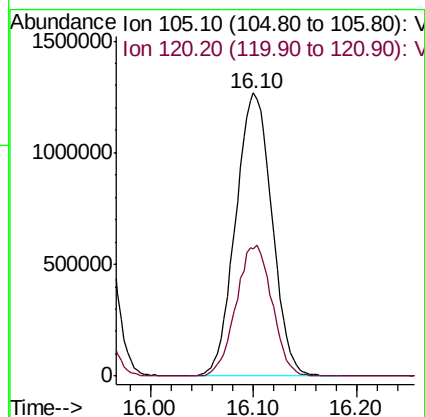
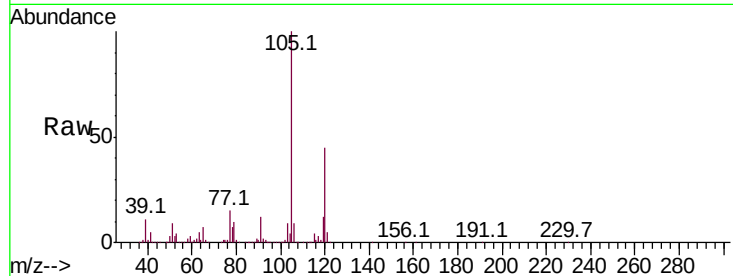
120 44.7 39.0 58.4

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#74

1,2,4-Trimethylbenzene

Concen: 7.509 ppbv

RT: 16.87 min Scan# 4333

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Tgt Ion:105 Resp: 3064246

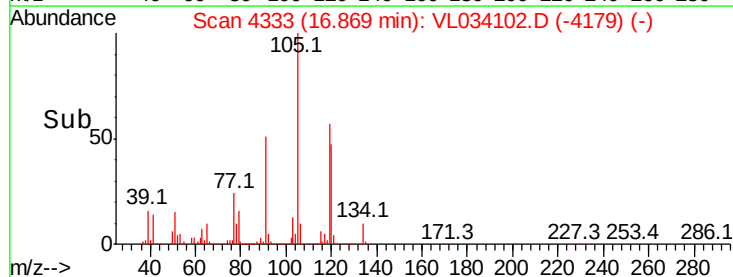
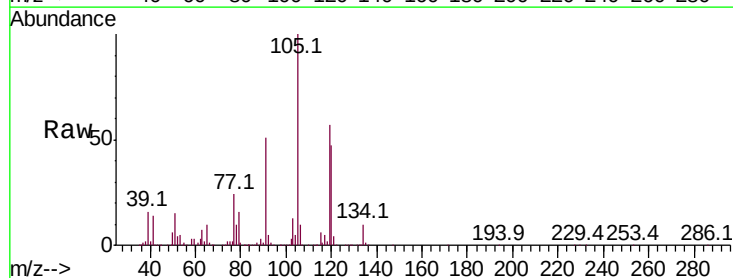
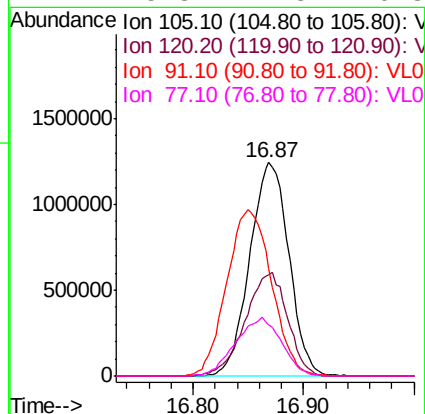
Ion Ratio Lower Upper

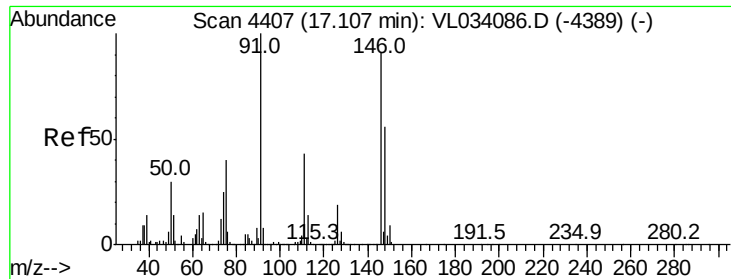
105 100

120 47.2 40.2 60.4

91 50.5 38.1 57.1

77 23.8 17.8 26.8





#75

1,3-Dichlorobenzene

Concen: 7.732 ppbv

RT: 17.11 min Scan# 4407

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tot Ion:146 Resp: 1767170

Ion Ratio Lower Upper

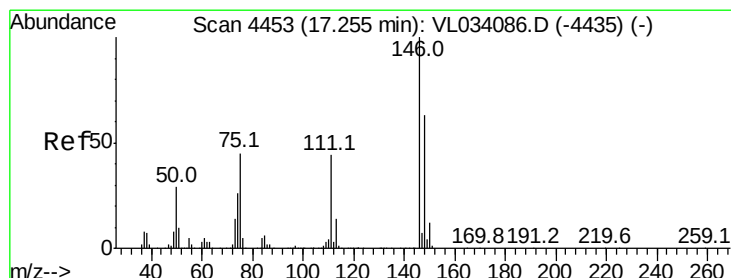
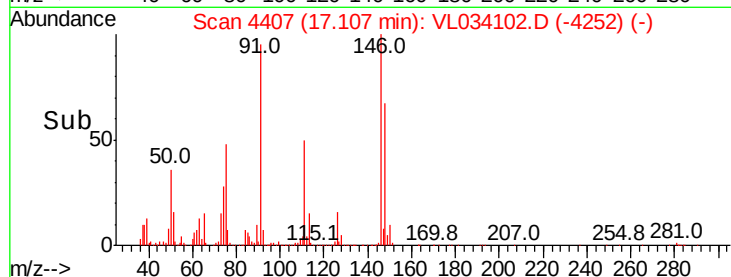
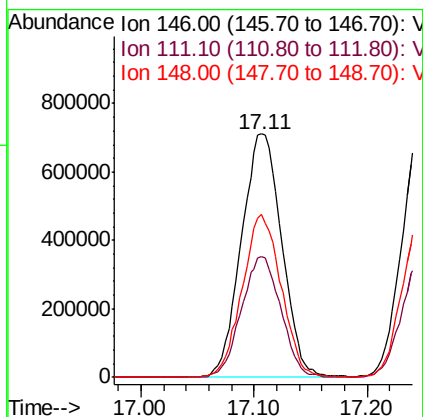
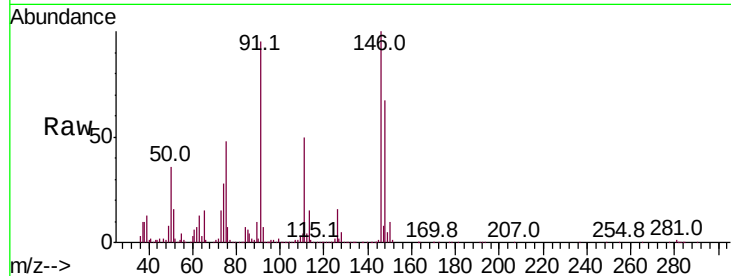
146 100

111 48.4 23.8 71.5

148 64.6 32.4 97.2

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#76

1,4-Dichlorobenzene

Concen: 7.686 ppbv

RT: 17.25 min Scan# 4451

Delta R.T. -0.01 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

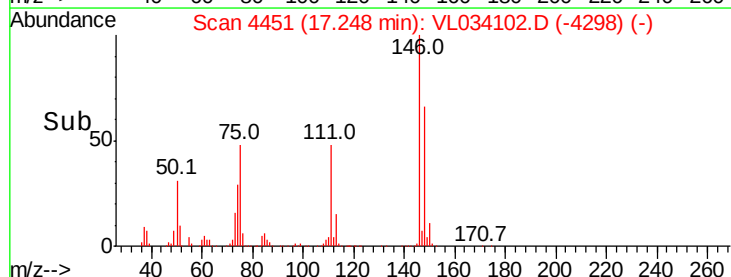
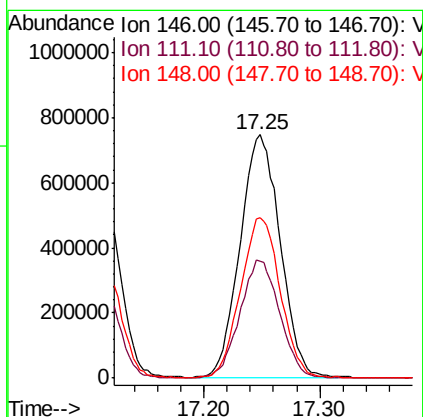
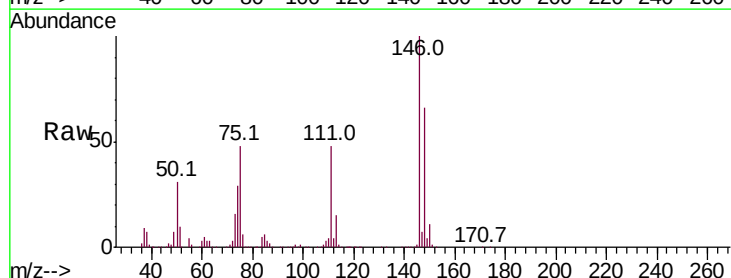
Tgt Ion:146 Resp: 1795063

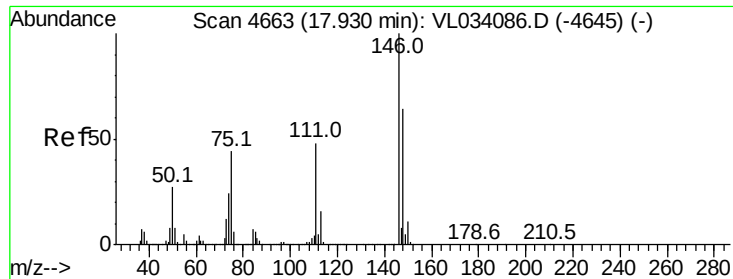
Ion Ratio Lower Upper

146 100

111 48.1 23.2 69.5

148 65.8 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 7.814 ppbv

RT: 17.93 min Scan# 4663

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampleId :

VL0812ABS01

Tot Ion:146 Resp: 1760657

Ion Ratio Lower Upper

146 100

111 49.5 24.0 72.0

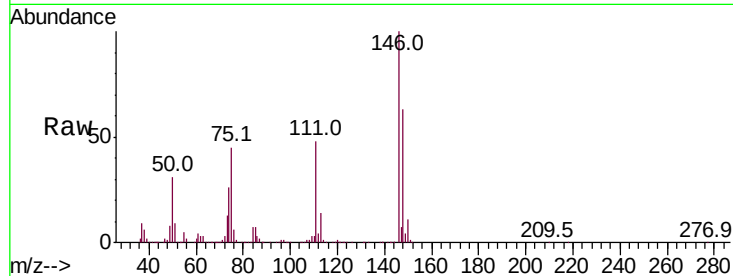
148 65.0 31.9 95.7

Manual Integrations

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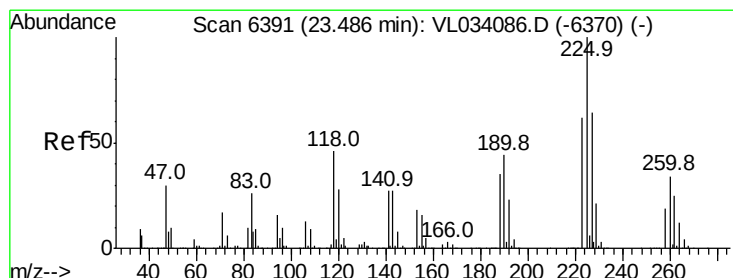
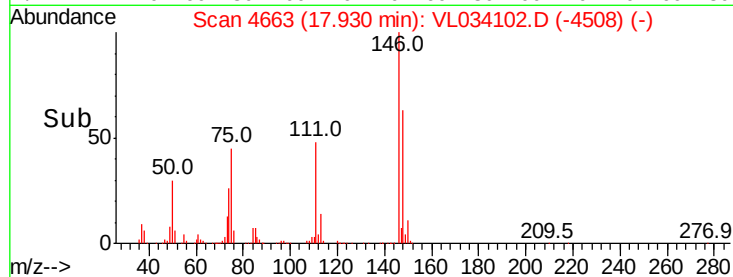
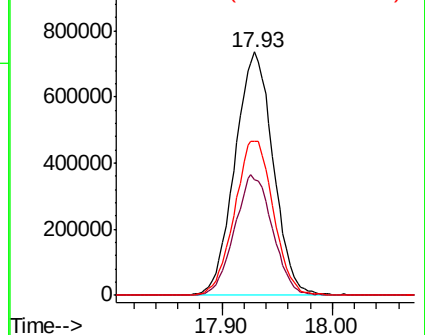
8/16/2019 8:54:18 AM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 8.134 ppbv

RT: 23.49 min Scan# 6391

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

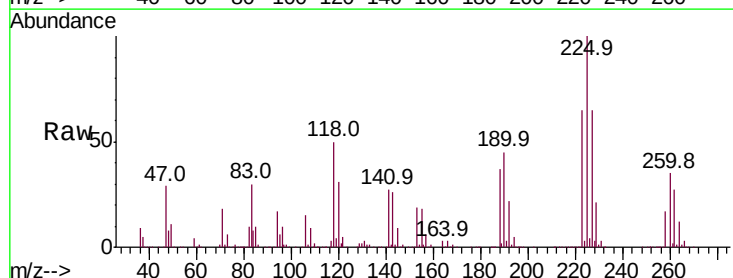
Tgt Ion:225 Resp: 1453022

Ion Ratio Lower Upper

225 100

223 64.2 50.8 76.2

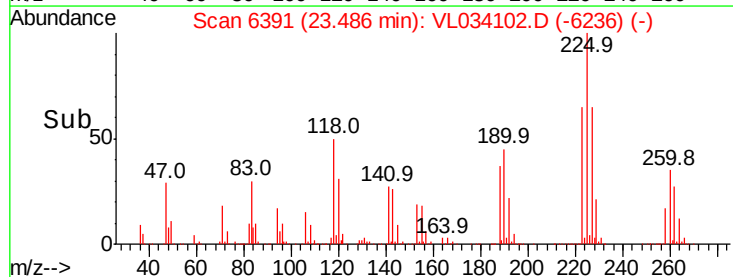
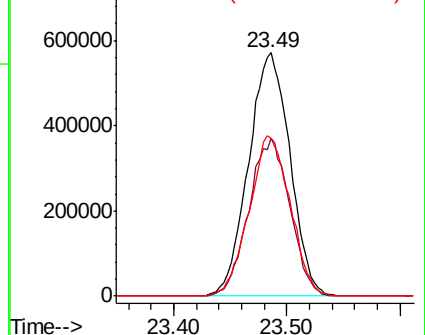
227 65.2 52.2 78.2

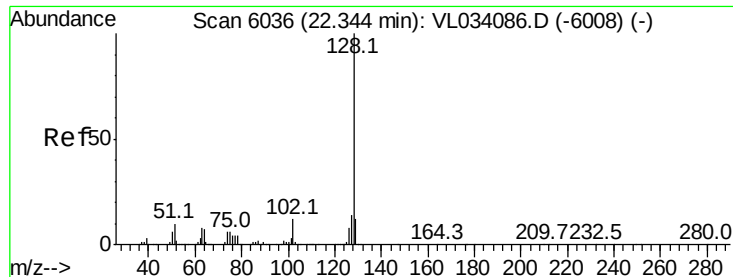


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 7.216 ppbv

RT: 22.34 min Scan# 6034

Delta R.T. -0.01 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

Instrument :

MSVOA_L

ClientSampled :

VL0812ABS01

Tot Ion:128 Resp: 3058034

Ion Ratio Lower Upper

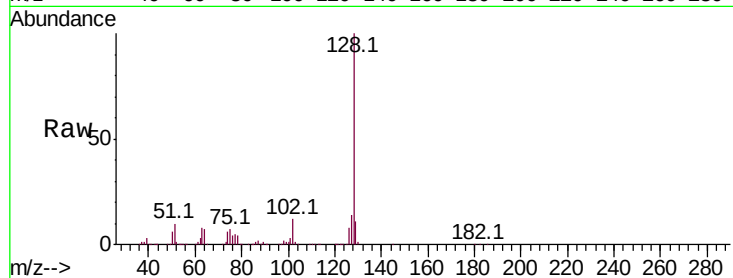
128 100

127 13.7 11.0 16.6

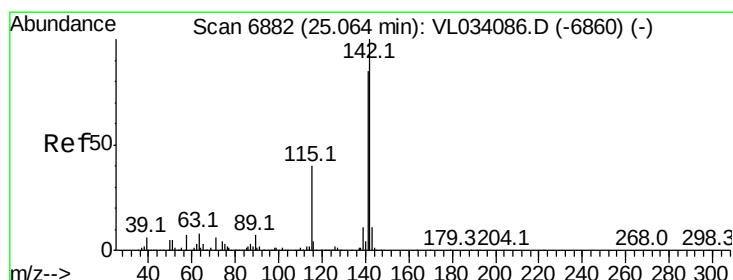
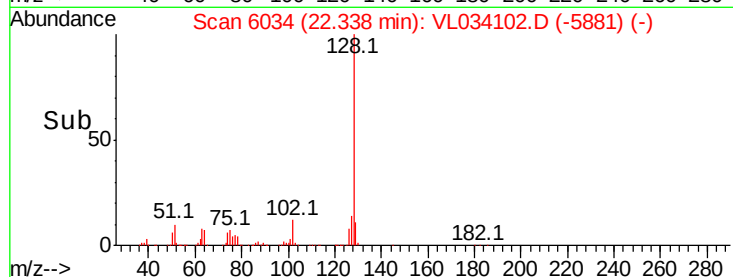
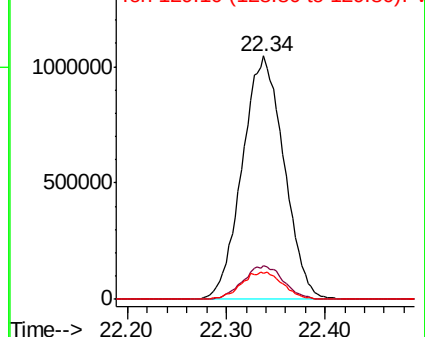
129 10.9 9.2 13.8

Manual Integrations
APPROVED

MMDadoda
8/16/2019 8:54:18 AM



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: 10.357 ppbv

RT: 25.06 min Scan# 6882

Delta R.T. -0.00 min

Lab File: VL034102.D

Acq: 12 Aug 2019 12:59

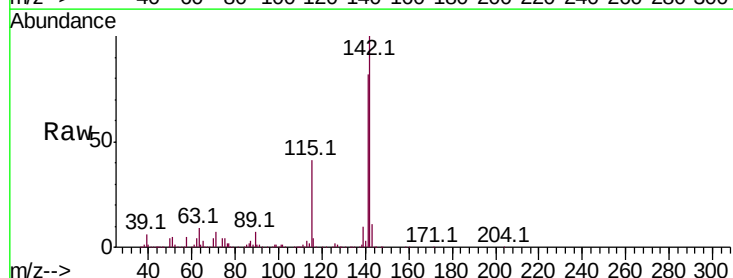
Tgt Ion:142 Resp: 1376499

Ion Ratio Lower Upper

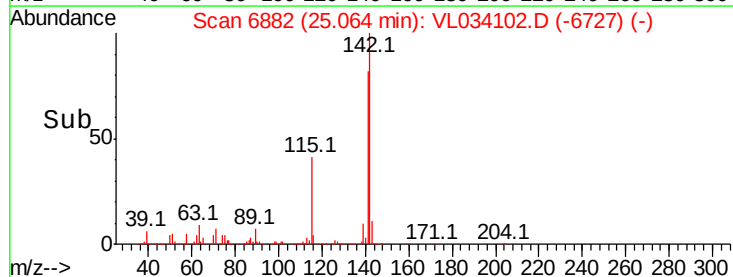
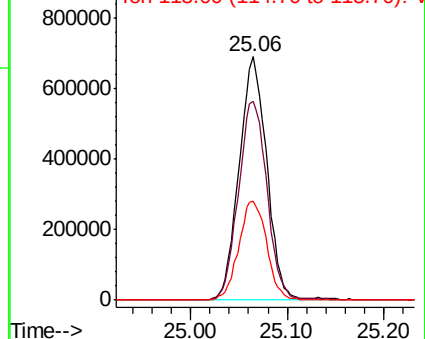
142 100

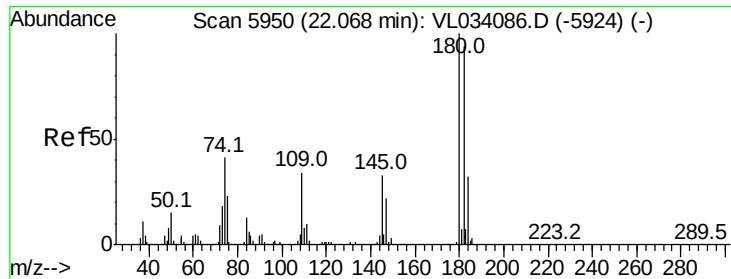
141 84.3 66.1 99.1

115 41.5 30.8 46.2



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: 7.377 ppbv
 RT: 22.06 min Scan# 5949
 Delta R.T. -0.00 min
 Lab File: VL034102.D
 Acq: 12 Aug 2019 12:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0812ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.7	115.1
184	30.8	25.0	37.4

Manual Integrations
 APPROVED

MMDadoda
 8/16/2019 8:54:18 AM

