

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071218\
 Data File : VL032237.D
 Acq On : 13 Jul 2018 3:36
 Operator : SY/AP
 Sample : VL0712ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0712ABS01

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 5:22:17 PM

Quant Time: Jul 13 05:35:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 2018
 QLast Update : Fri Jul 13 04:25:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1779908	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	4035236	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.34	117	4892825m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.68	95	3888464	10.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	2722445	10.62	ppbv	100
3) Chlorodifluoromethane	3.06	51	1785421	8.16	ppbv	100
4) Chloromethane	3.22	50	1045393	8.40	ppbv	99
5) Vinyl Chloride	3.35	62	1079612	8.81	ppbv	96
6) Bromomethane	3.57	94	584772	8.57	ppbv	99
7) Chloroethane	3.66	64	379720	8.99	ppbv	99
8) Dichlorotetrafluoroethane	3.27	85	2138818	7.60	ppbv	99
9) Propene	3.09	41	871706	9.35	ppbv	99
10) Heptane	8.33	43	2631788	9.94	ppbv	98
11) Trichlorofluoromethane	4.07	101	2122347	8.66	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.62	101	1344366	8.59	ppbv	100
13) Ethanol	3.71	45	195601	7.27	ppbv	99
14) Bromoethene	3.85	108	663245	8.98	ppbv	100
15) Acetone	3.96	43	1617547	7.83	ppbv	100
16) 1,3-Butadiene	3.42	39	1028528	9.85	ppbv	91
17) tert-Butyl alcohol	4.42	59	1366542	14.17	ppbv	99
18) 1,1-Dichloroethene	4.42	96	642638	8.82	ppbv	99
19) Isopropyl Alcohol	4.09	45	1161062	8.56	ppbv #	98
20) Methylene Chloride	4.48	84	561743	8.03	ppbv	96
21) Allyl Chloride	4.55	41	1147285	9.49	ppbv	98
22) trans-1,2-Dichloroethene	5.04	96	702662	10.13	ppbv	99
23) Vinyl Acetate	5.23	43	3500683	10.19	ppbv	99
24) 1,1-Dichloroethane	5.17	63	2325413	9.64	ppbv	98
25) Ethyl Acetate	5.85	43	3828488	9.37	ppbv	99
26) Hexane	5.86	57	1781339	9.55	ppbv	98
27) Carbon Disulfide	4.69	76	1639090	9.83	ppbv	99
28) Methyl tert-Butyl Ether	5.19	73	3039142	10.36	ppbv	100
29) Chloroform	5.93	83	2639821	9.17	ppbv	99
30) Cyclohexane	7.34	84	1610572	9.79	ppbv	99
31) cis-1,2-Dichloroethene	5.72	61	1886764	10.14	ppbv	97
32) 1,1,1-Trichloroethane	6.71	97	2652497	9.50	ppbv	98
34) 2-Butanone	5.40	43	2705039	9.84	ppbv	99
35) Carbon Tetrachloride	7.22	117	2676373	9.80	ppbv	98
36) Benzene	7.09	78	3932718	9.81	ppbv	98
37) 1,2-Dichloroethane	6.50	62	2258659	10.29	ppbv	100
38) Trichloroethene	8.05	130	1254871	9.12	ppbv	96
39) 1,2-Dichloropropane	7.83	63	1591449	9.99	ppbv	99
40) 1,4-Dioxane	8.04	88	467113	8.55	ppbv #	100
41) Tetrahydrofuran	6.23	42	1580985	10.28	ppbv	98
42) Bromodichloromethane	8.01	83	2989927	9.56	ppbv	99
43) Methyl Methacrylate	8.22	69	1589771	10.26	ppbv	97

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 Misc : 400ml/MSVOA L
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Instrument :
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Manual Integrations
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 7/13/2018 5:22:17 PM

Quant Time: Jul 13 05:35:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 2018
 QLast Update : Fri Jul 13 04:25:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	6620861	9.60	ppbv	100
45) t-1,3-Dichloropropene	9.51	75	2428471	13.16	ppbv	96
46) cis-1,3-Dichloropropene	8.93	75	2878593	11.43	ppbv	99
47) 1,1,2-Trichloroethane	9.71	97	1808057	10.16	ppbv	97
48) Dibromochloromethane	10.55	129	2818580	10.64	ppbv	100
49) Bromoform	13.30	173	2203057	10.38	ppbv	100
50) 4-Methyl-2-Pentanone	8.96	43	4884109	10.27	ppbv	100
51) 2-Hexanone	10.37	43	3952329	9.95	ppbv	100
52) Tetrachloroethene	11.47	164	1365450	9.21	ppbv	98
53) Toluene	10.04	91	5191100	10.95	ppbv	99
54) 1,2-Dibromoethane	10.86	107	2747862	10.46	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.38	131	1967508	9.26	ppbv	99
57) Chlorobenzene	12.40	112	3683351	8.91	ppbv	99
58) Ethyl Benzene	12.96	91	7083260	9.94	ppbv	100
59) m/p-Xylene	13.22	91	11385698m	19.42	ppbv	
60) o-Xylene	13.95	91	5437616	9.40	ppbv	100
61) Styrene	13.78	104	4507576	10.40	ppbv	100
62) Isopropylbenzene	14.93	105	7583403	9.35	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.94	83	3819605	8.12	ppbv	100
64) n-propylbenzene	15.82	120	1942114	9.46	ppbv	98
65) tert-Butylbenzene	17.00	119	6075532	8.94	ppbv	99
66) Benzyl Chloride	17.25	91	3678305	10.70	ppbv	99
67) sec-Butylbenzene	17.56	105	9084692	9.15	ppbv	100
69) p-Isopropyltoluene	17.91	119	7199920	9.31	ppbv	100
70) n-Butylbenzene	18.81	91	7878578	9.23	ppbv	100
71) 2-Chlorotoluene	15.71	91	6007330	9.41	ppbv	99
72) 4-Ethyltoluene	16.10	105	6297881	9.70	ppbv	99
73) 1,3,5-Trimethylbenzene	16.26	105	5916441	9.80	ppbv	100
74) 1,2,4-Trimethylbenzene	17.02	105	5695682	9.23	ppbv	98
75) 1,3-Dichlorobenzene	17.27	146	3033437	8.24	ppbv	100
76) 1,4-Dichlorobenzene	17.40	146	3109376	8.62	ppbv	99
77) 1,2-Dichlorobenzene	18.09	146	2978722	8.14	ppbv	100
78) Hexachloro-1,3-Butadiene	23.63	225	816928	7.16	ppbv	100
79) Naphthalene	22.52	128	4587083	11.07	ppbv	98
80) Naphthalene, 2-methyl-	25.19	142	2449934	18.51	ppbv	99
81) 1,2,4-Trichlorobenzene	22.25	180	2163921	10.44	ppbv	100

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

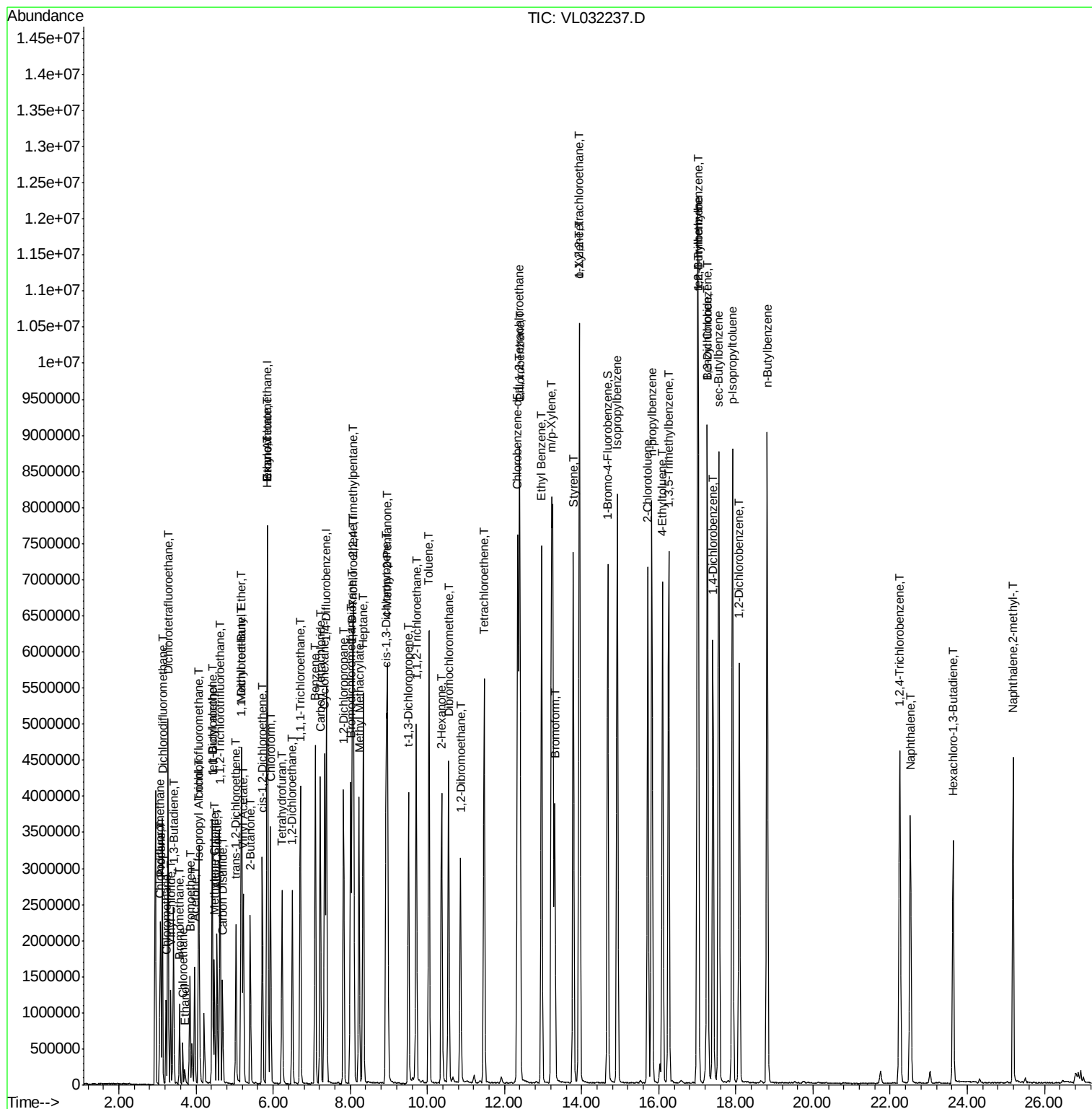
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL071218\  
Data File : VL032237.D  
Acq On    : 13 Jul 2018    3:36  
Operator  : SY/AP  
Sample    : VL0712ABS01  
Misc      : 400ml/MSVOA L  
ALS Vial  : 1    Sample Multiplier: 1
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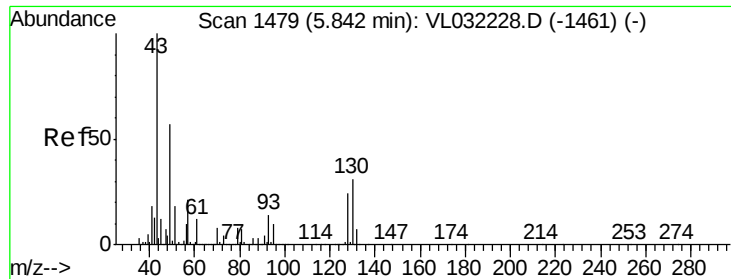
Instrument :
MSVOA_L
ClientSampleId :
VL0712ABS01

Manual Integrations APPROVED

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Quant Time: Jul 13 05:35:03 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071218AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Jul
QLast Update : Fri Jul 13 04:25:14 2018
Response via : Initial Calibration





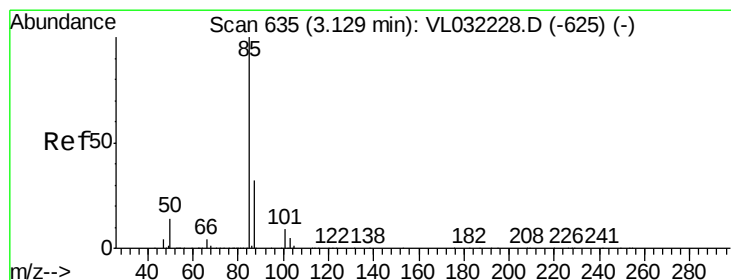
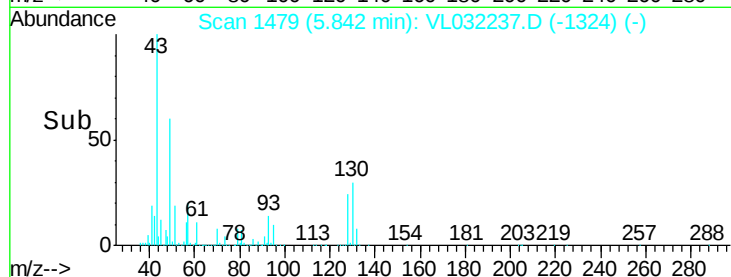
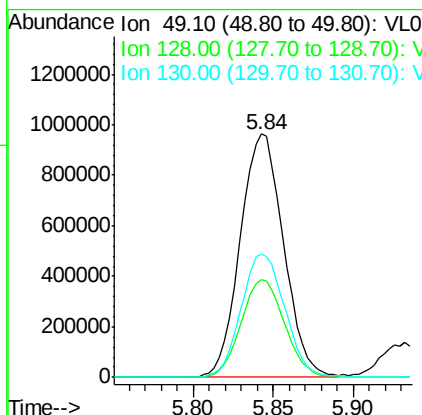
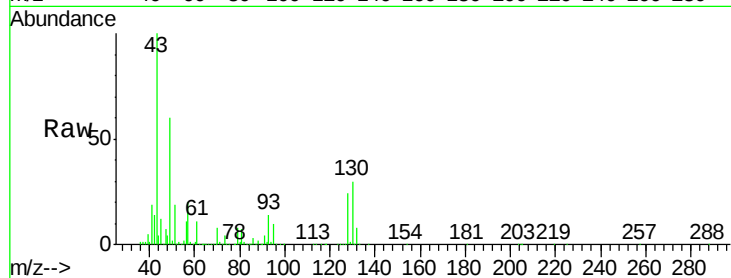
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 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.84 min Scan# 1479
 Delta R.T. -0.00 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0712ABS01

Tot Ion: 49 Resp: 1779908
 Ion Ratio Lower Upper
 49 100
 128 40.5 20.9 62.8
 130 51.2 27.0 81.0

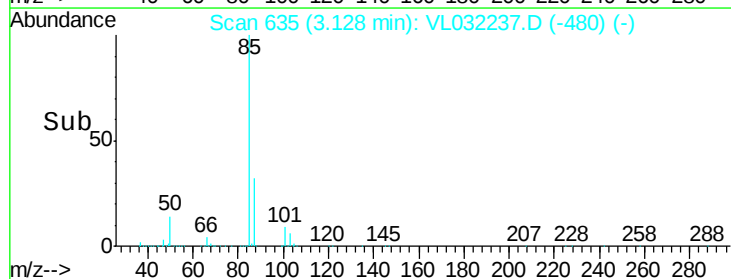
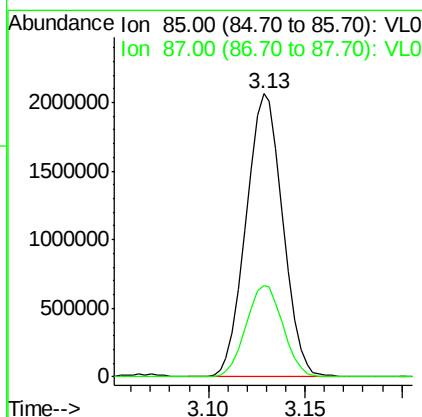
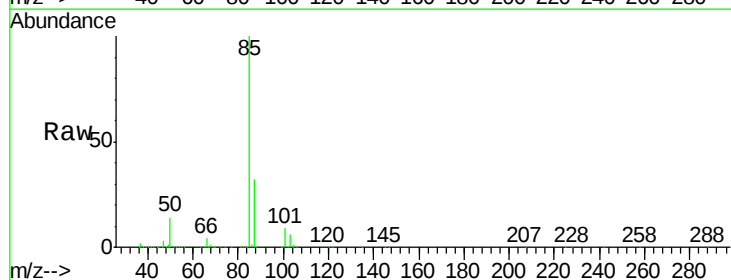
Manual Integrations
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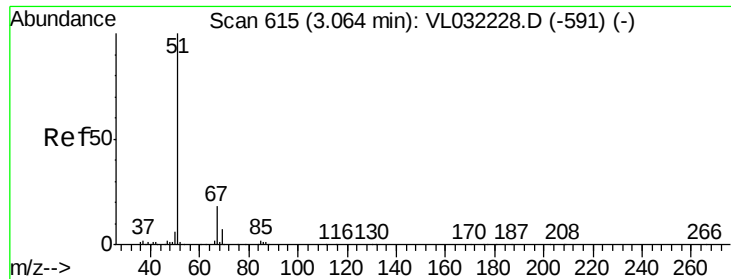
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#2
 Dichlorodifluoromethane
 Concen: 10.62 ppbv
 RT: 3.13 min Scan# 635
 Delta R.T. -0.00 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Tgt Ion: 85 Resp: 2722445
 Ion Ratio Lower Upper
 85 100
 87 32.1 25.8 38.6





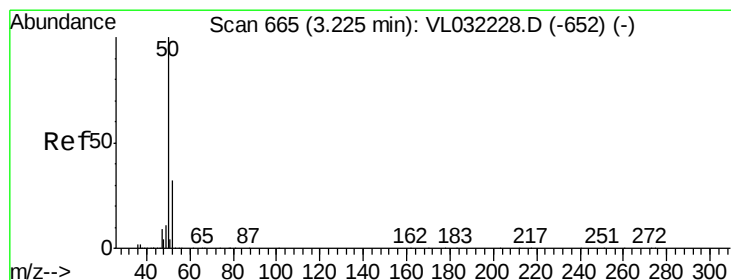
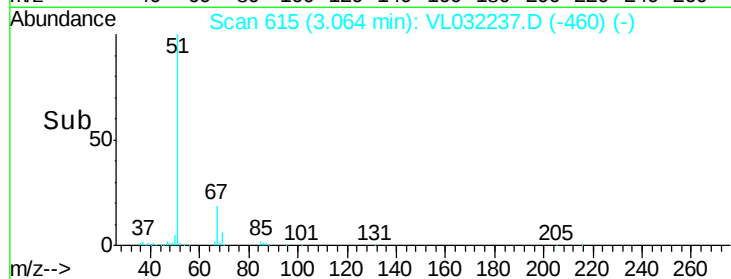
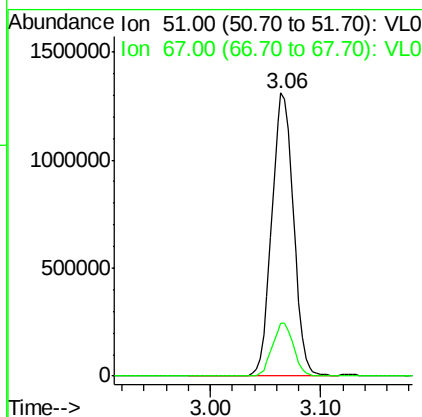
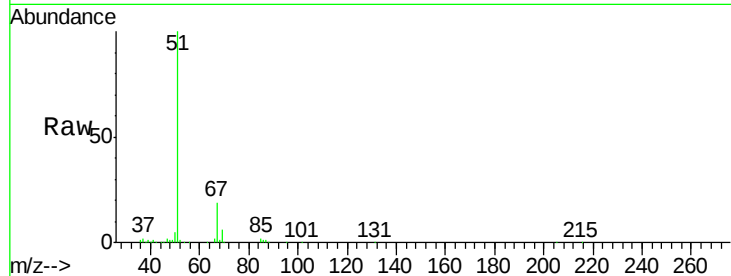
#3
Chlorodifluoromethane
Concen: 8.16 ppbv
RT: 3.06 min Scan# 615
Delta R.T. -0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Instrument :
MSVOA_L
ClientSampleId :
VL0712ABS01

Tot Ion: 51 Resp: 1785421
Ion Ratio Lower Upper
51 100
67 18.4 14.6 22.0

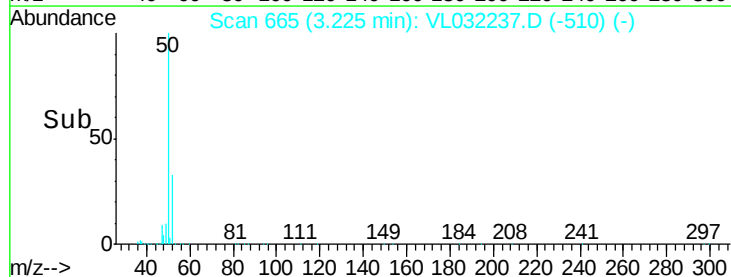
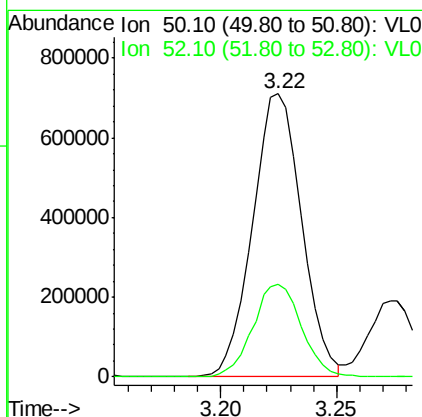
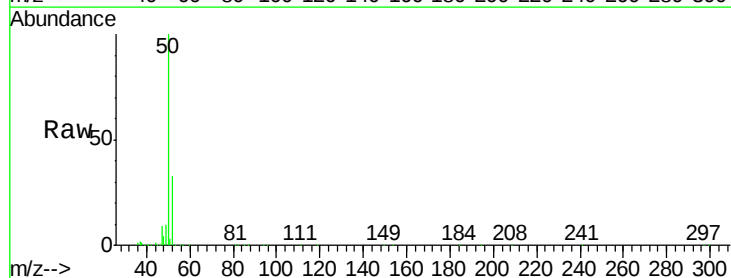
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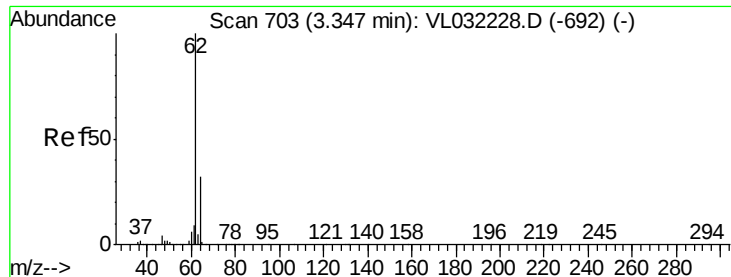
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#4
Chloromethane
Concen: 8.40 ppbv
RT: 3.22 min Scan# 665
Delta R.T. -0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Tgt Ion: 50 Resp: 1045393
Ion Ratio Lower Upper
50 100
52 32.7 25.7 38.5





#5

Vinyl Chloride

Concen: 8.81 ppbv

RT: 3.35 min Scan# 703

Delta R.T. -0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Instrument :

MSVOA_L

ClientSampleId :

VL0712ABS01

Tot Ion: 62 Resp: 1079612

Ion Ratio Lower Upper

62 100

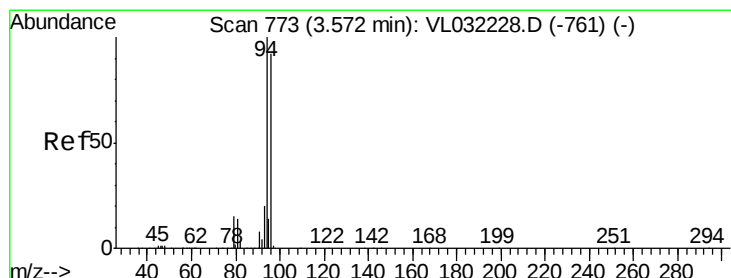
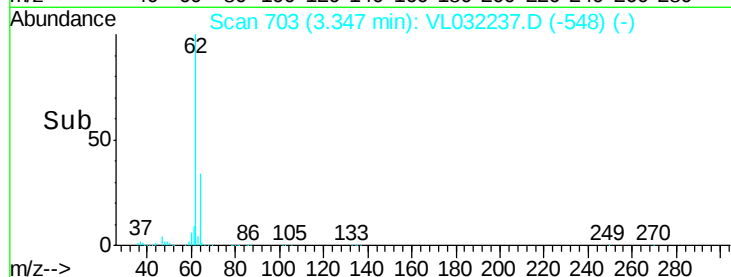
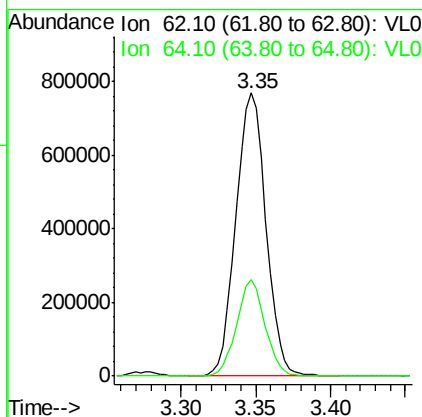
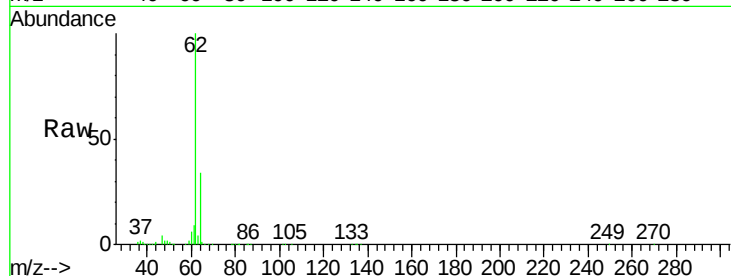
64 34.2 25.8 38.6

Manual Integrations

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#6

Bromomethane

Concen: 8.57 ppbv

RT: 3.57 min Scan# 773

Delta R.T. -0.00 min

Lab File: VL032237.D

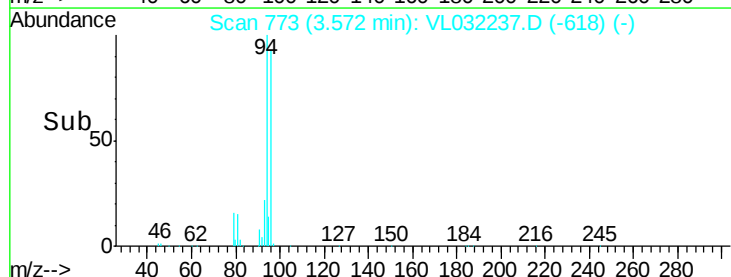
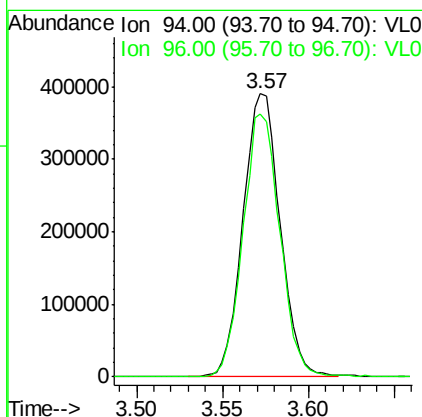
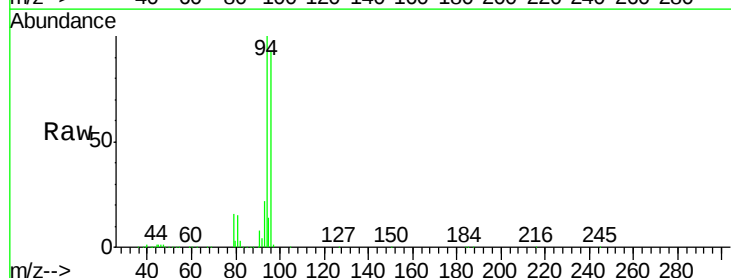
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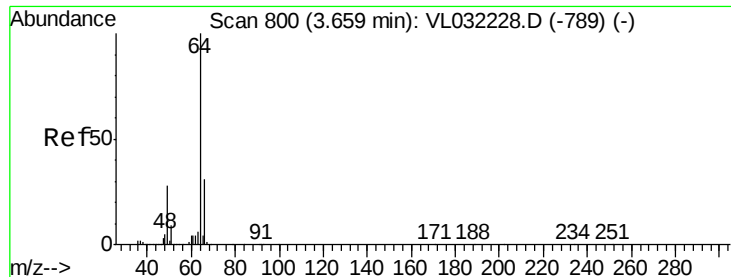
Tgt Ion: 94 Resp: 584772

Ion Ratio Lower Upper

94 100

96 93.0 73.5 110.3





#7

Chloroethane

Concen: 8.99 ppbv

RT: 3.66 min Scan# 801

Delta R.T. 0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Instrument :

MSVOA_L

ClientSampleId :

VL0712ABS01

Tot Ion: 64 Resp: 379720

Ion Ratio Lower Upper

64 100

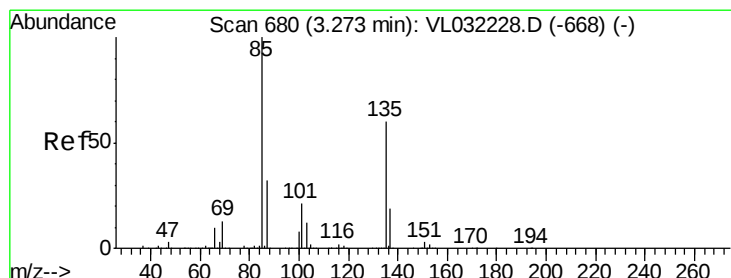
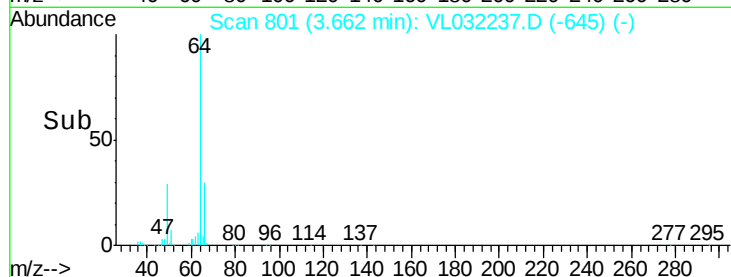
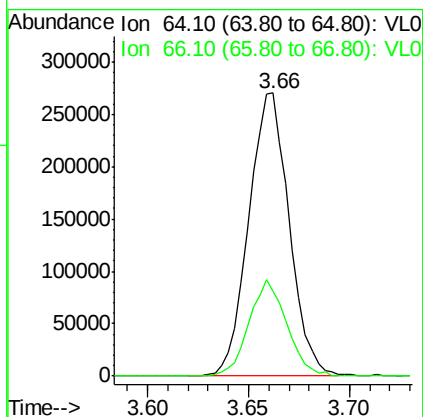
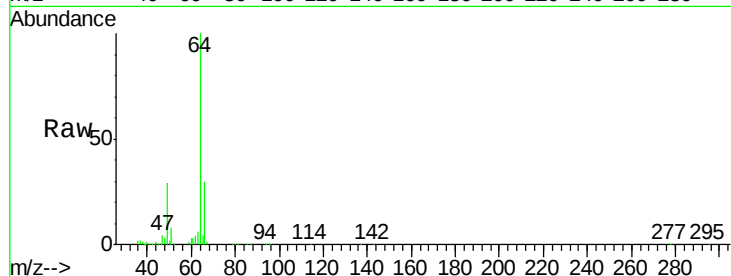
66 30.1 24.4 36.6

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 7.60 ppbv

RT: 3.27 min Scan# 680

Delta R.T. -0.00 min

Lab File: VL032237.D

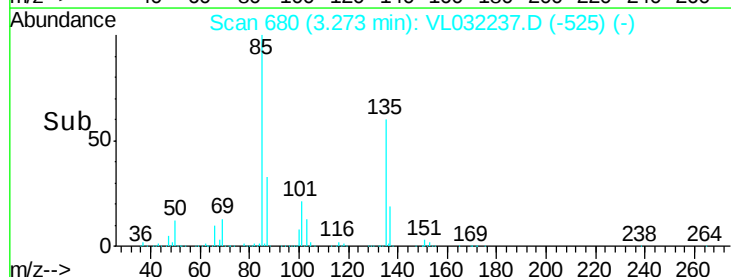
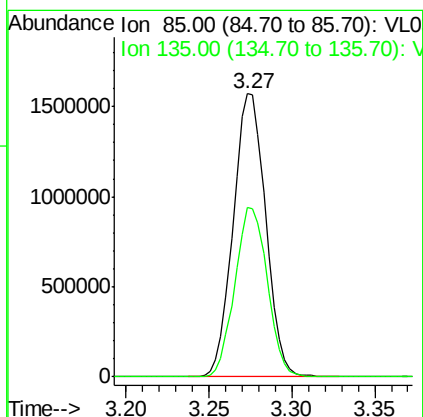
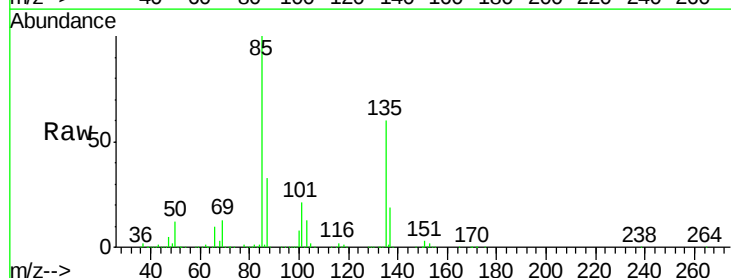
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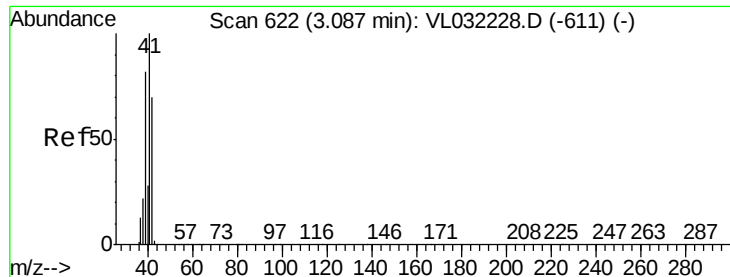
Tgt Ion: 85 Resp: 2138818

Ion Ratio Lower Upper

85 100

135 60.0 48.6 72.8





#9

Propene

Concen: 9.35 ppbv

RT: 3.09 min Scan# 622

Delta R.T. -0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Instrument :

MSVOA_L

ClientSampleId :

VL0712ABS01

Tot Ion: 41 Resp: 871706

Ion Ratio Lower Upper

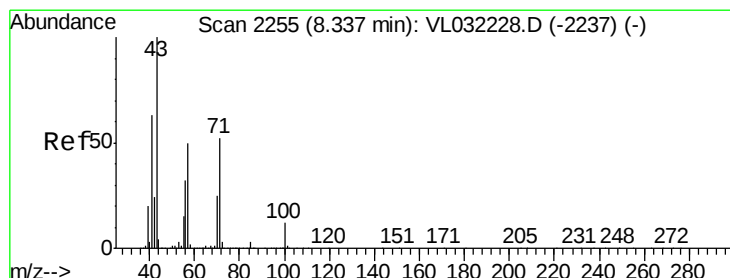
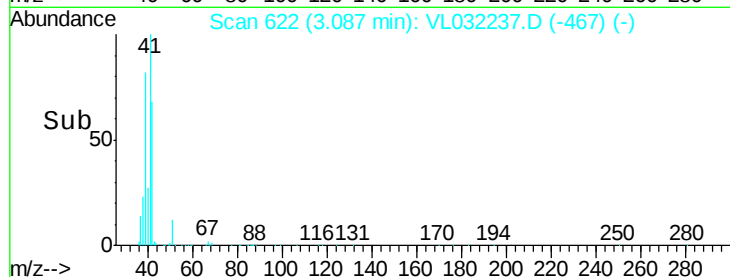
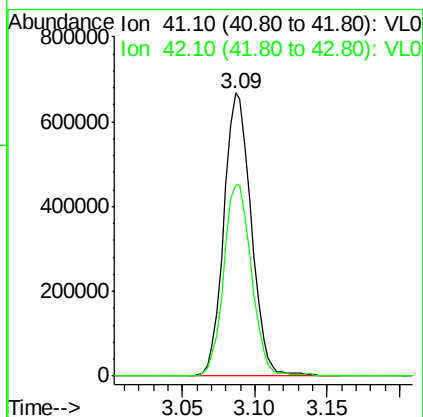
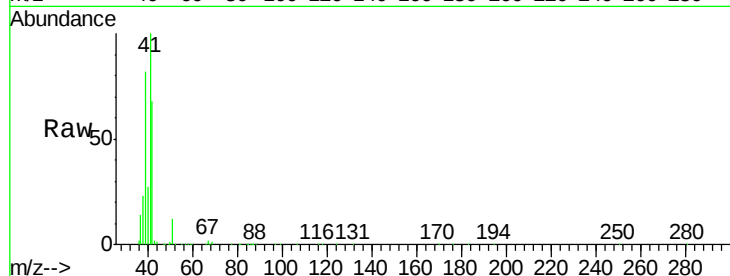
41 100

42 69.2 56.2 84.4

Manual Integrations
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#10

Heptane

Concen: 9.94 ppbv

RT: 8.33 min Scan# 2254

Delta R.T. -0.00 min

Lab File: VL032237.D

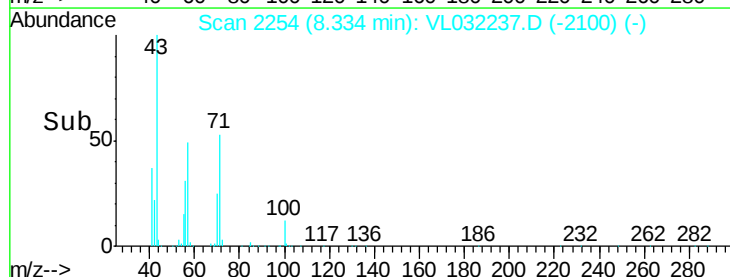
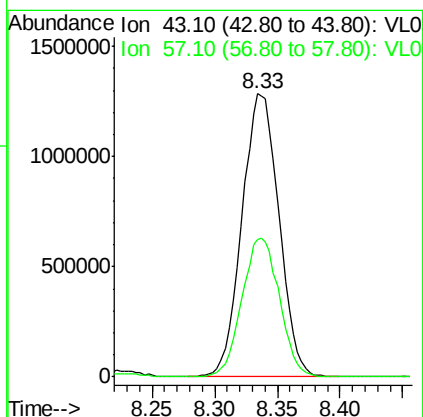
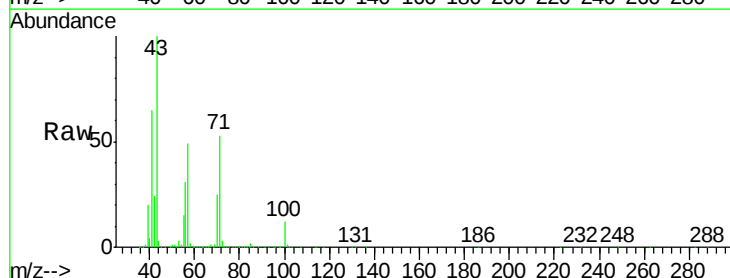
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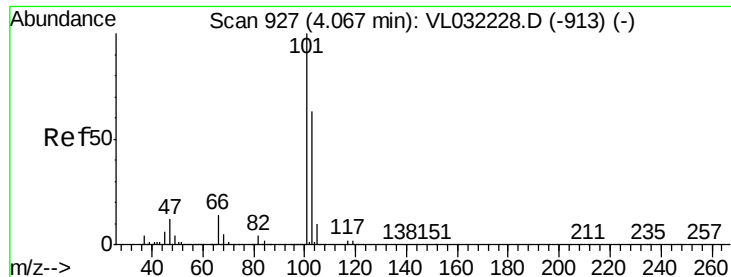
Tgt Ion: 43 Resp: 2631788

Ion Ratio Lower Upper

43 100

57 49.7 40.7 61.1





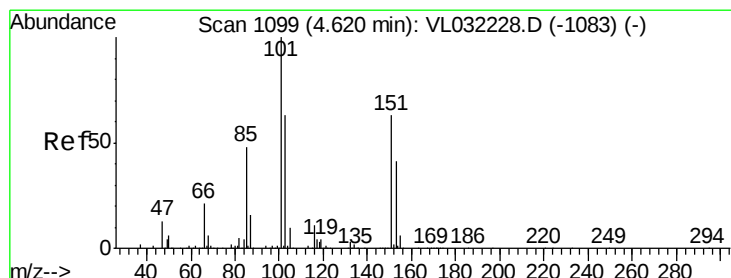
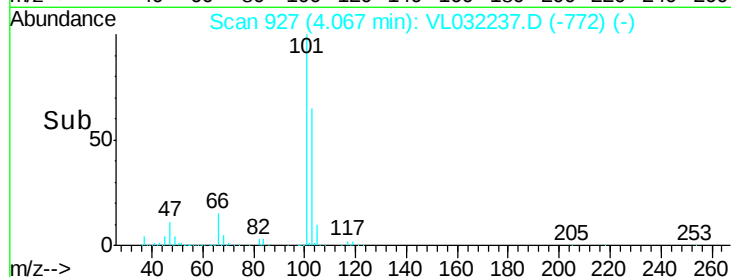
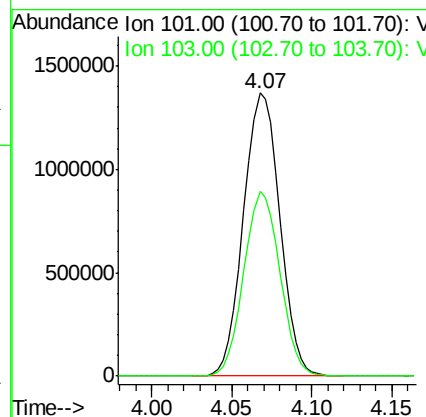
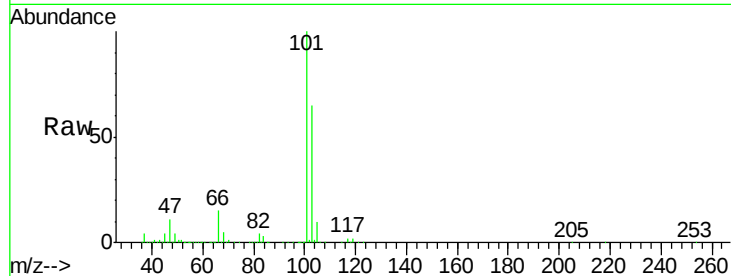
#11
 Trichlorofluoromethane
 Concen: 8.66 ppbv
 RT: 4.07 min Scan# 927
 Delta R.T. -0.00 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0712ABS01

Tot Ion:101 Resp: 2122347
 Ion Ratio Lower Upper
 101 100
 103 65.4 50.2 75.2

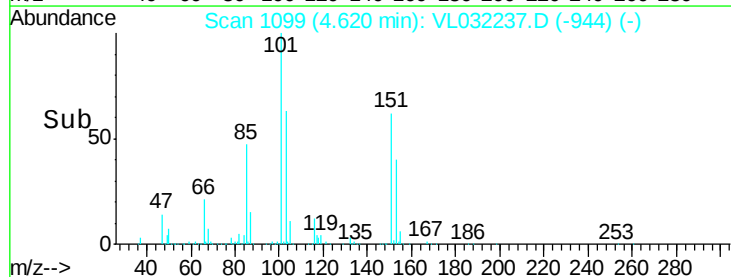
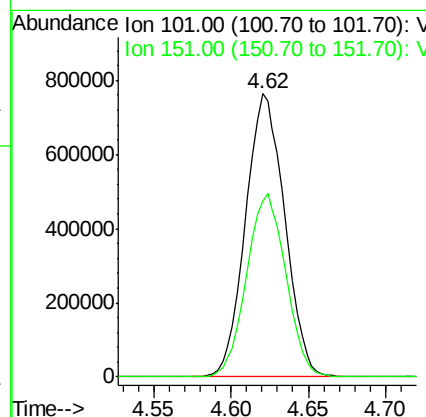
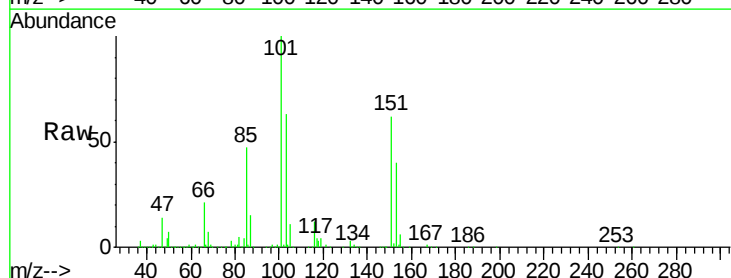
Manual Integrations
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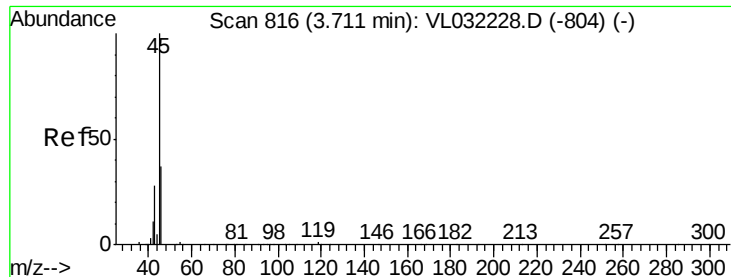
MMDadoda
 7/13/2018 5:22:17 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.59 ppbv
 RT: 4.62 min Scan# 1099
 Delta R.T. -0.00 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Tgt Ion:101 Resp: 1344366
 Ion Ratio Lower Upper
 101 100
 151 65.0 52.2 78.2





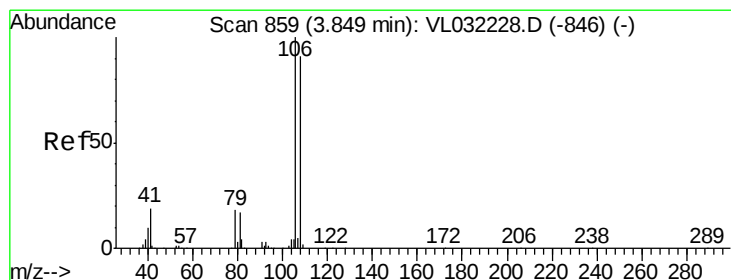
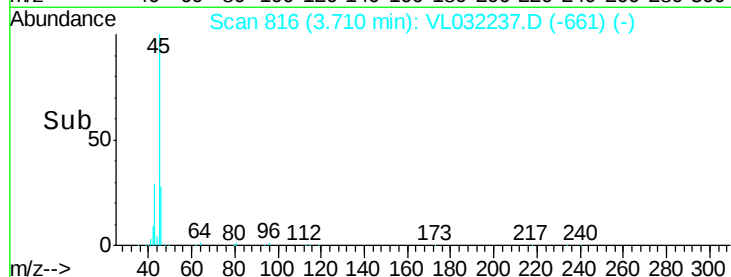
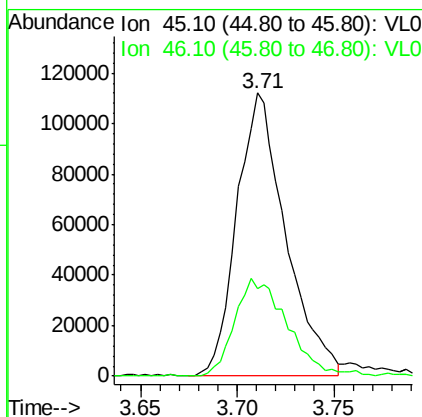
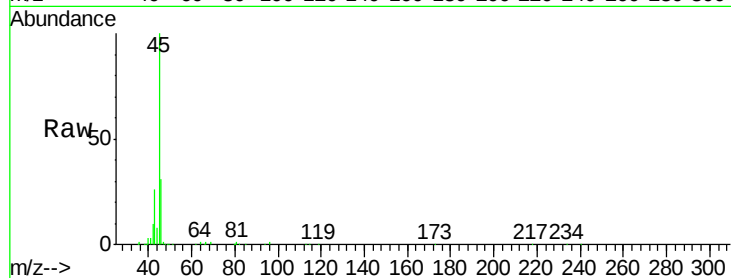
#13
Ethanol
Concen: 7.27 ppbv
RT: 3.71 min Scan# 816
Delta R.T. -0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Instrument :
MSVOA_L
ClientSampleId :
VL0712ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.0	15.5	61.9

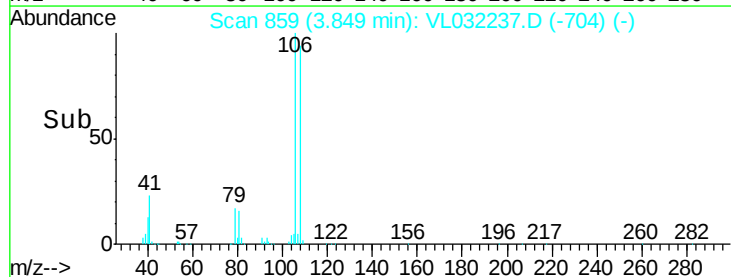
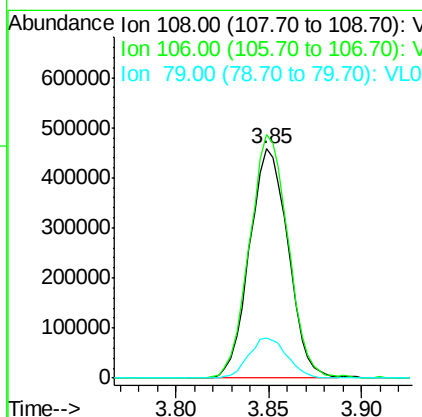
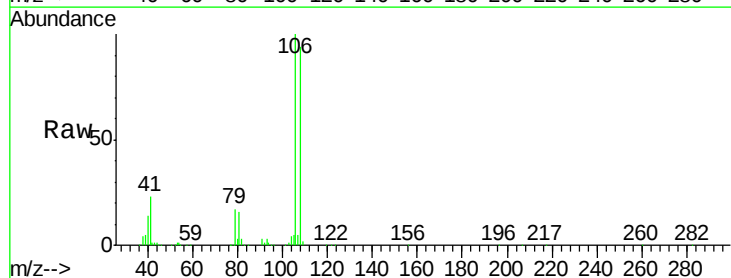
Manual Integrations
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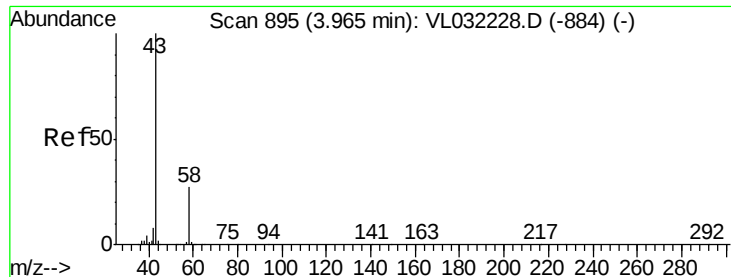
MMDadoda
7/13/2018 5:22:17 PM



#14
Bromoethene
Concen: 8.98 ppbv
RT: 3.85 min Scan# 859
Delta R.T. -0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.8	85.5	128.3
79	17.6	14.2	21.4





#15

Acetone

Concen: 7.83 ppbv

RT: 3.96 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Instrument :

MSVOA_L

ClientSampleId :

VL0712ABS01

Tot Ion: 43 Resp: 1617547

Ion Ratio Lower Upper

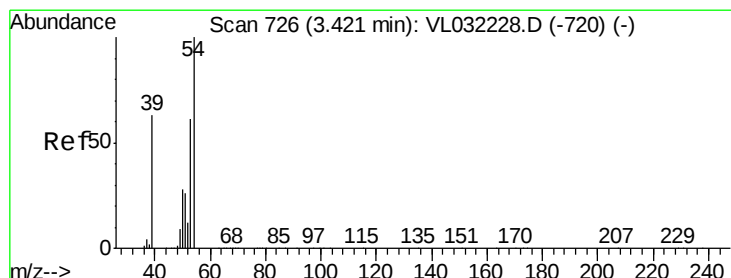
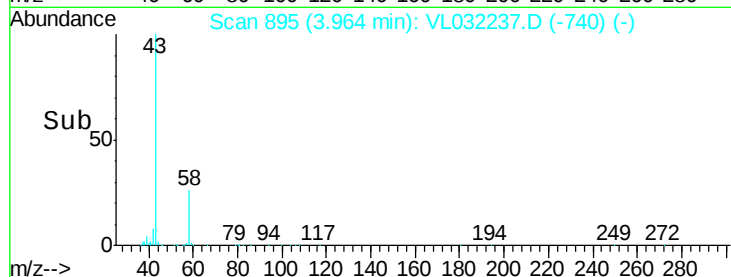
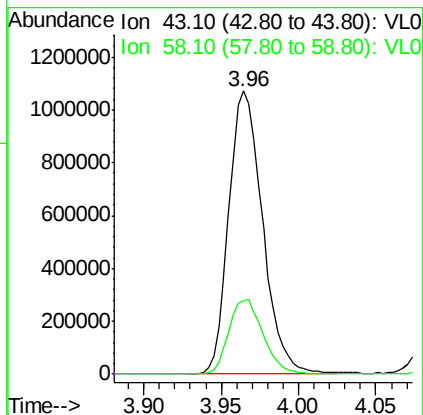
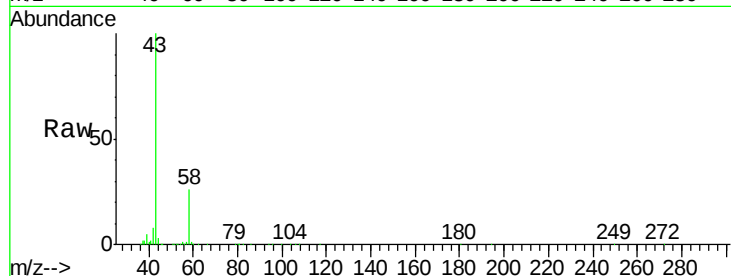
43 100

58 26.9 21.5 32.3

Manual Integrations
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#16

1,3-Butadiene

Concen: 9.85 ppbv

RT: 3.42 min Scan# 725

Delta R.T. -0.00 min

Lab File: VL032237.D

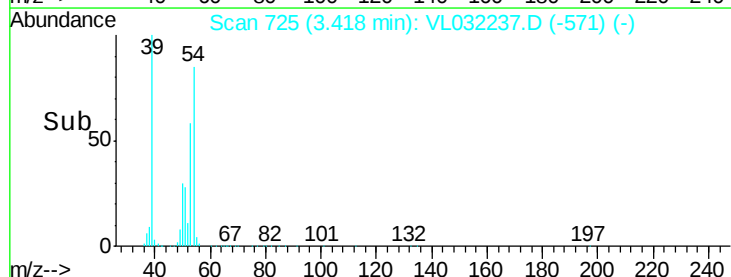
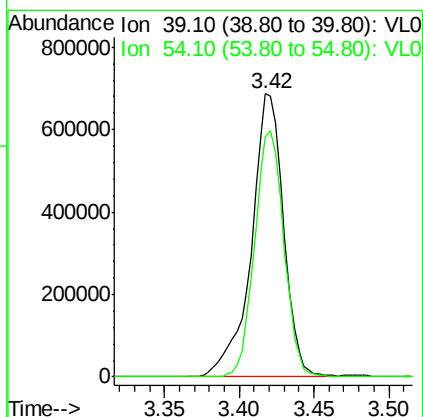
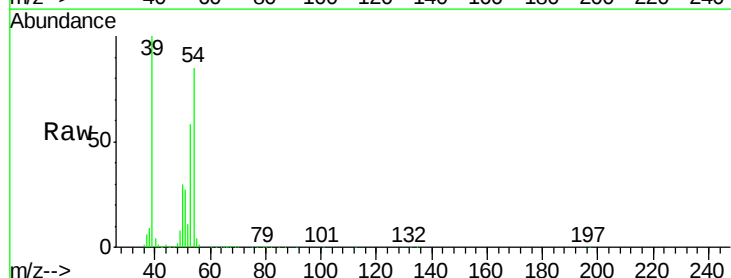
Acq: 13 Jul 2018 3:36

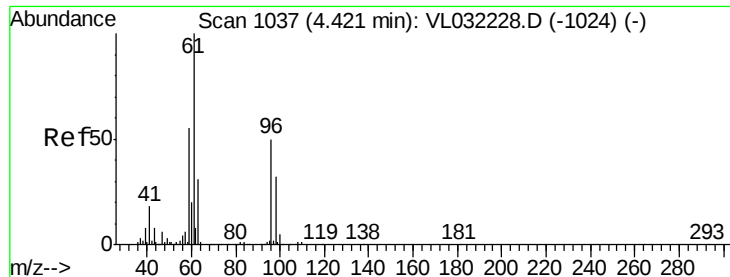
Tgt Ion: 39 Resp: 1028528

Ion Ratio Lower Upper

39 100

54 79.5 70.0 105.0





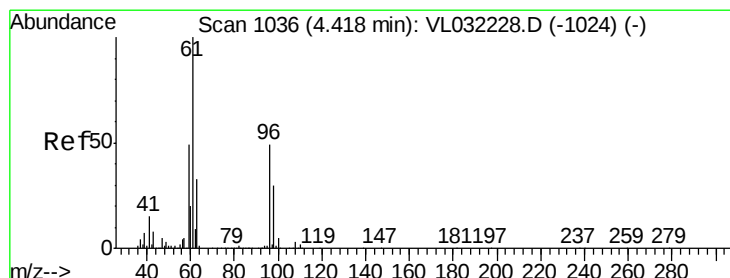
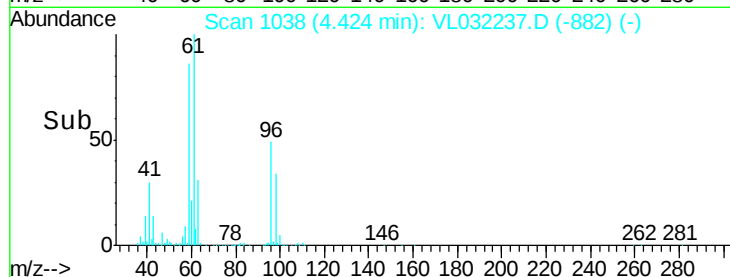
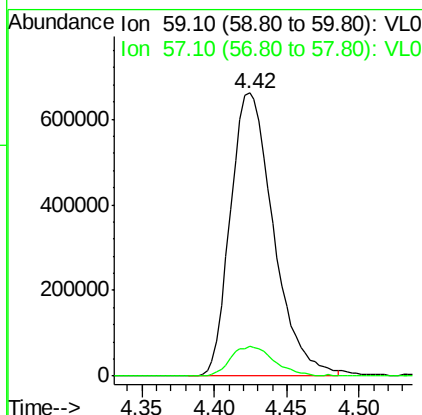
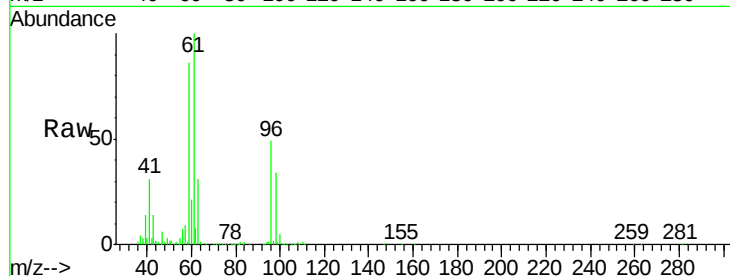
#17
tert-Butyl alcohol
Concen: 14.17 ppbv
RT: 4.42 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Instrument :
MSVOA_L
ClientSampleId :
VL0712ABS01

Tot Ion: 59 Resp: 1366542
Ion Ratio Lower Upper
59 100
57 10.9 8.4 12.6

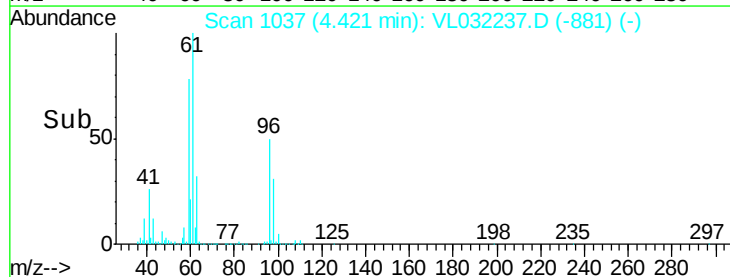
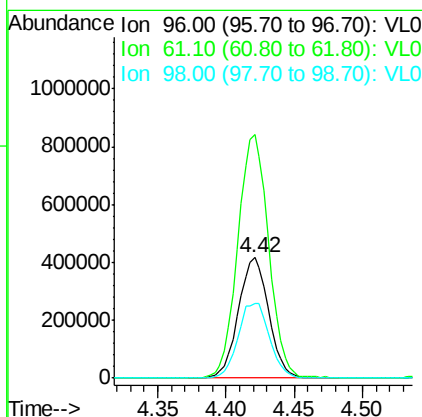
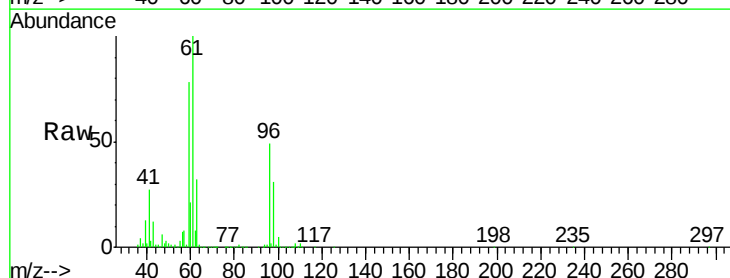
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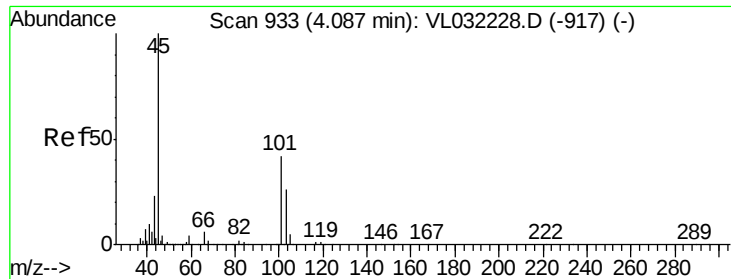
MMDadoda
7/13/2018 5:22:17 PM



#18
1,1-Dichloroethene
Concen: 8.82 ppbv
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Tgt Ion: 96 Resp: 642638
Ion Ratio Lower Upper
96 100
61 202.0 163.0 244.4
98 62.3 48.5 72.7





#19

Isopropyl Alcohol

Concen: 8.56 ppbv

RT: 4.09 min Scan# 934

Delta R.T. 0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Tot Ion: 45 Resp: 1161062

Ion Ratio Lower Upper

45 100

58 2.2 1.3 1.9#

Instrument :

MSVOA_L

ClientSampleId :

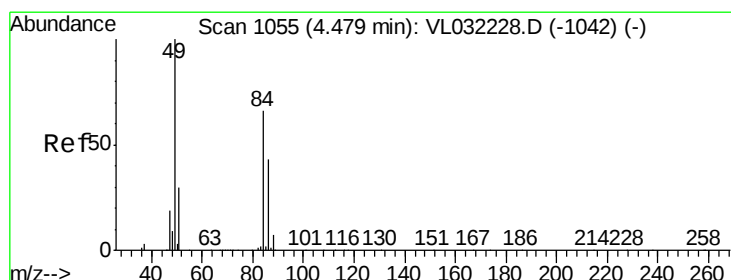
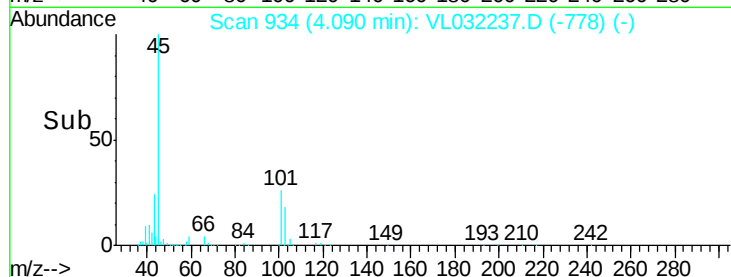
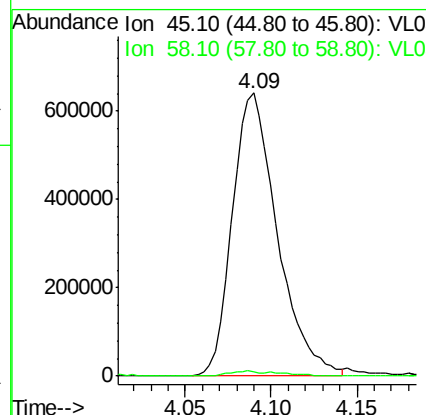
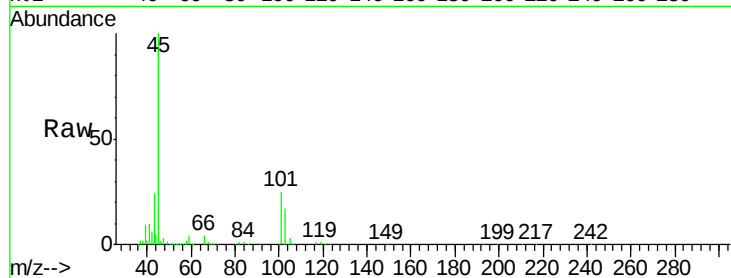
VL0712ABS01

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MMDadoda

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#20

Methylene Chloride

Concen: 8.03 ppbv

RT: 4.48 min Scan# 1054

Delta R.T. -0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Tgt Ion: 84 Resp: 561743

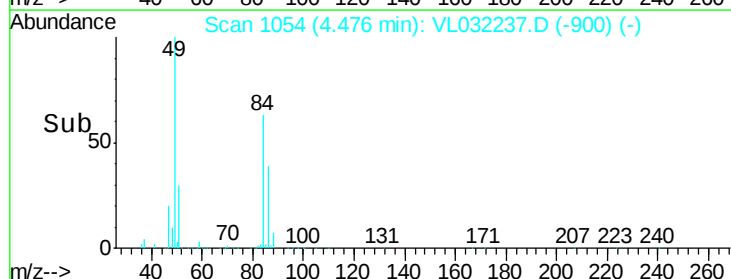
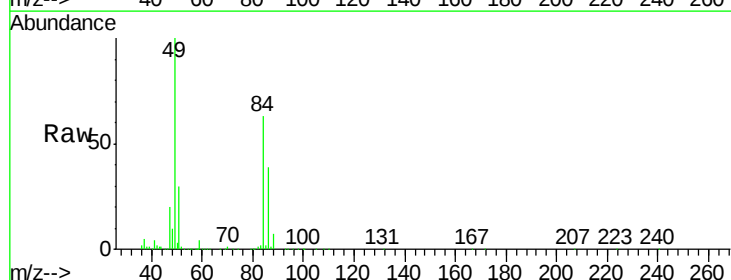
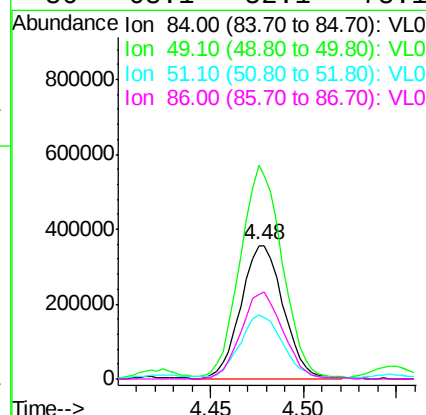
Ion Ratio Lower Upper

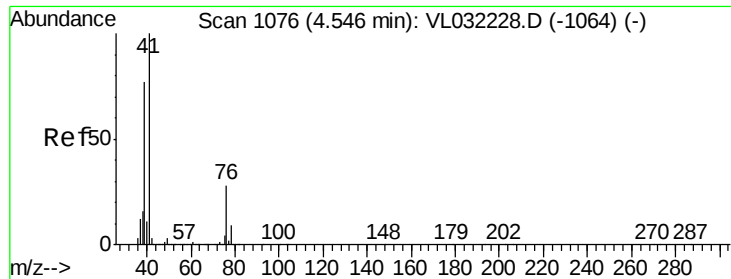
84 100

49 159.0 121.8 182.6

51 47.4 36.3 54.5

86 63.1 52.1 78.1





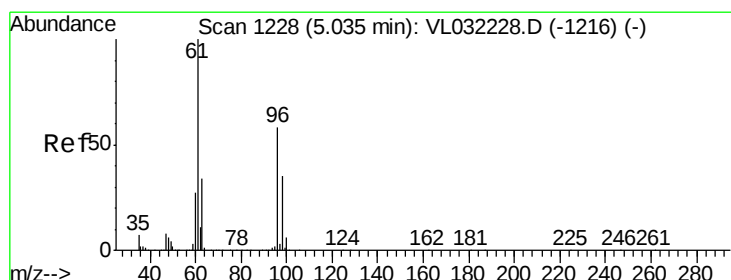
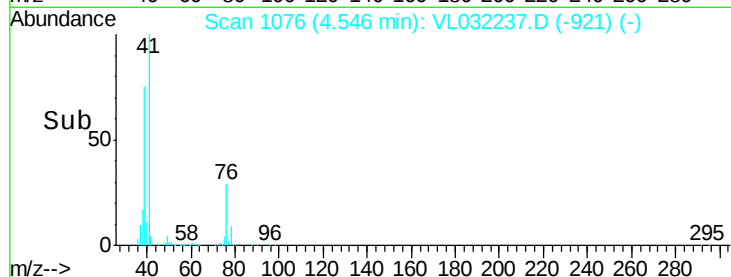
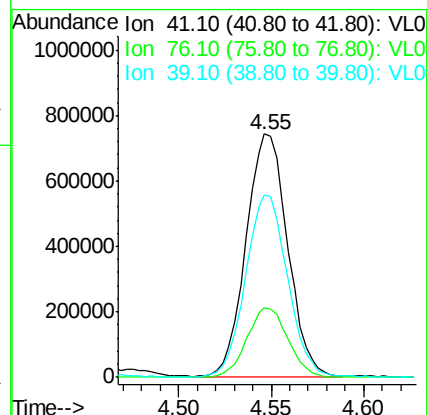
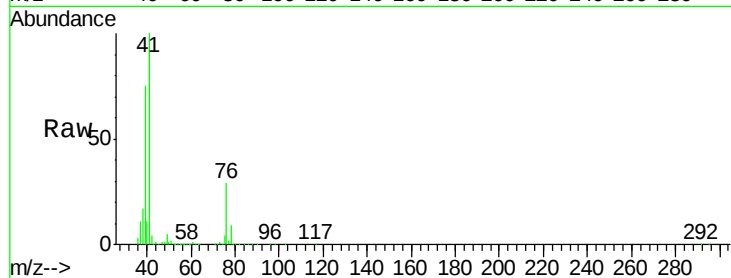
#21
Allvl Chloride
Concen: 9.49 ppbv
RT: 4.55 min Scan# 1076
Delta R.T. -0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Instrument :
MSVOA_L
ClientSampleId :
VL0712ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.5	22.9	34.3
39	76.0	62.3	93.5

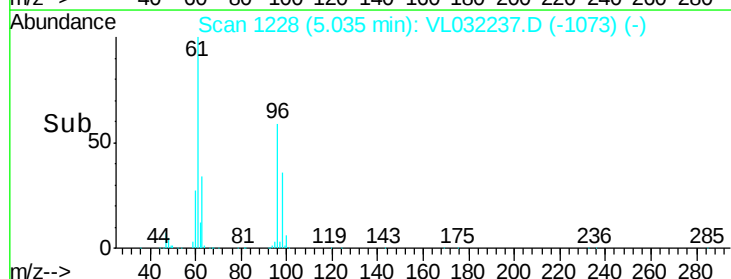
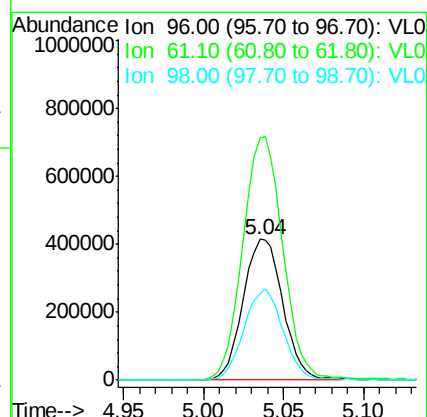
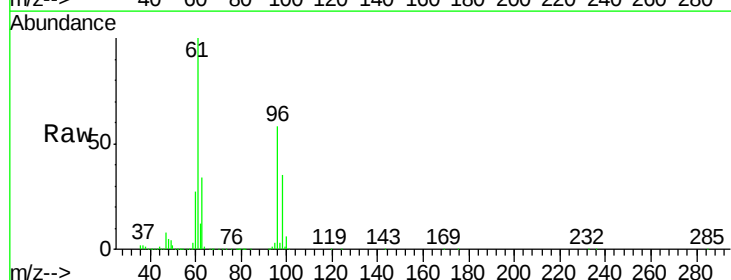
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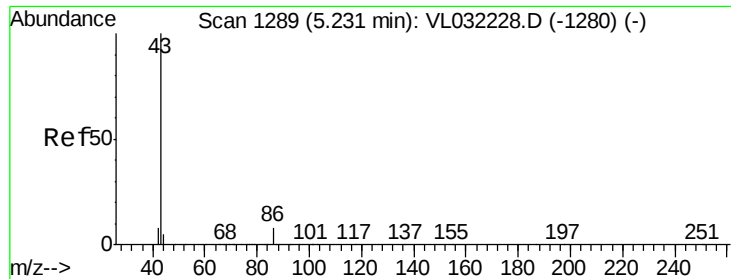
MMDadoda
7/13/2018 5:22:17 PM



#22
trans-1,2-Dichloroethene
Concen: 10.13 ppbv
RT: 5.04 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Tgt Ion	Ratio	Lower	Upper
96	100		
61	172.0	139.1	208.7
98	60.7	48.4	72.6





#23

Vinyl Acetate

Concen: 10.19 ppbv

RT: 5.23 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Instrument :

MSVOA_L

ClientSampleId :

VL0712ABS01

Tot Ion: 43 Resp: 3500683

Ion Ratio Lower Upper

43 100

86 7.3 5.9 8.9

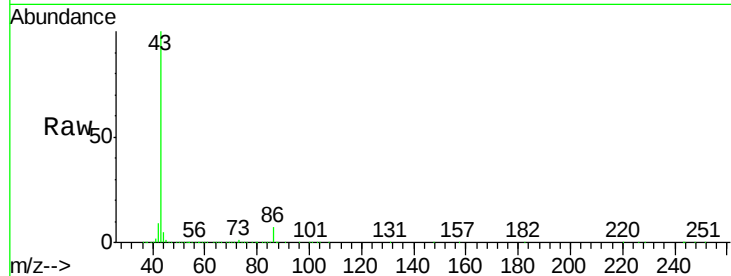
42 9.4 7.0 10.6

44 5.2 4.2 6.2

Manual Integrations
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MMDadoda

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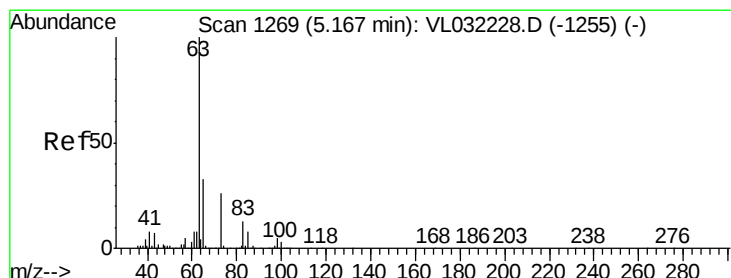
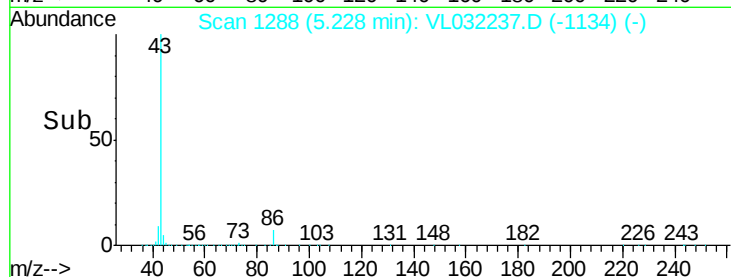
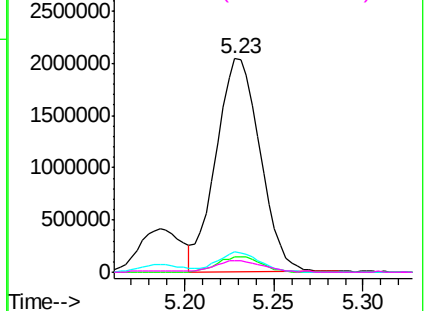


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.64 ppbv

RT: 5.17 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

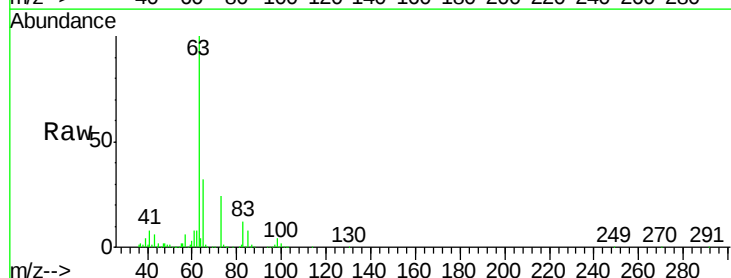
Tgt Ion: 63 Resp: 2325413

Ion Ratio Lower Upper

63 100

98 4.0 2.4 7.1

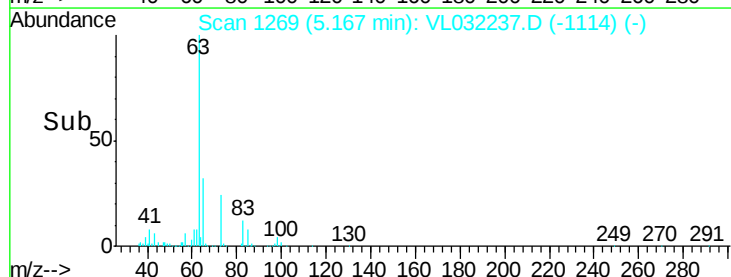
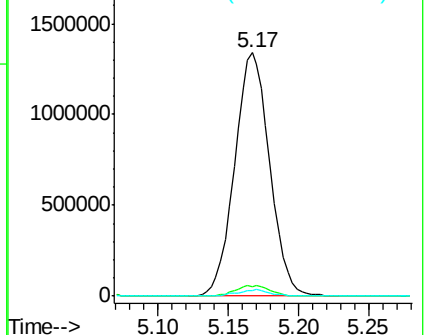
100 2.4 1.5 4.4

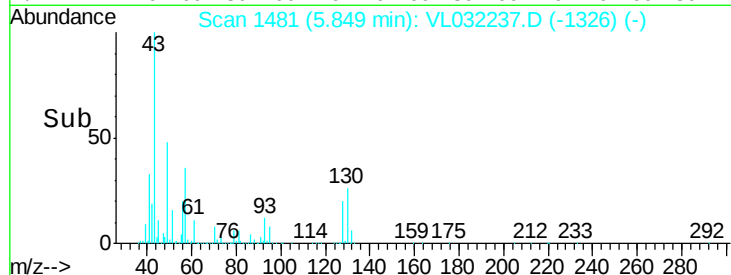
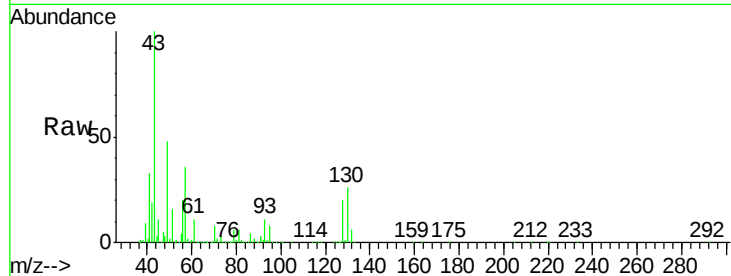
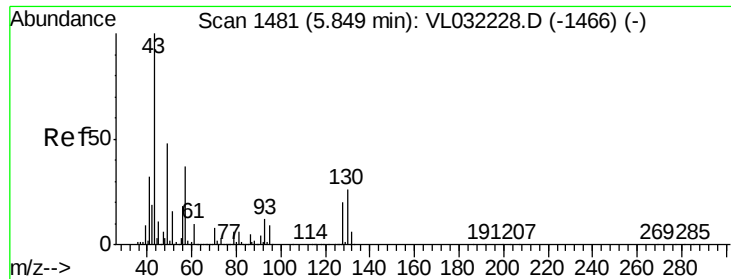


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





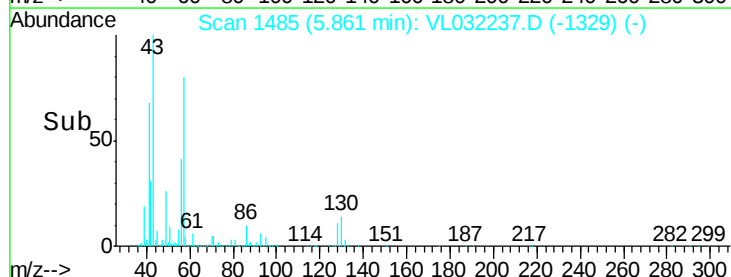
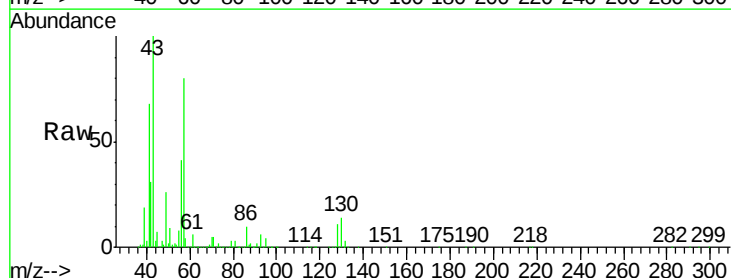
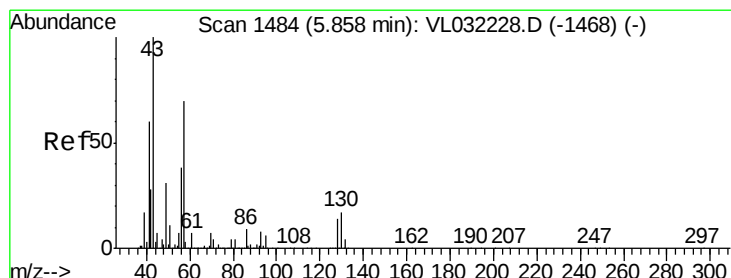
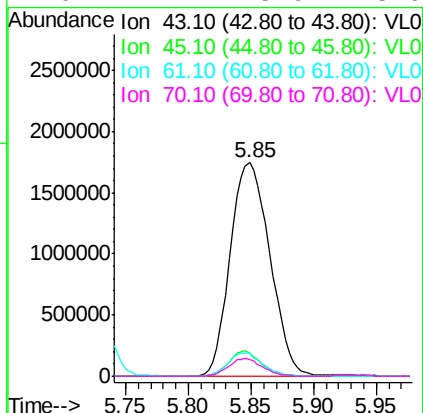
#25
Ethyl Acetate
Concen: 9.37 ppbv
RT: 5.85 min Scan# 1481
Delta R.T. -0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.8	8.0	12.0
61	9.3	7.7	11.5
70	7.2	5.9	8.9

Instrument :
MSVOA_L
ClientSampleId :
VL0712ABS01

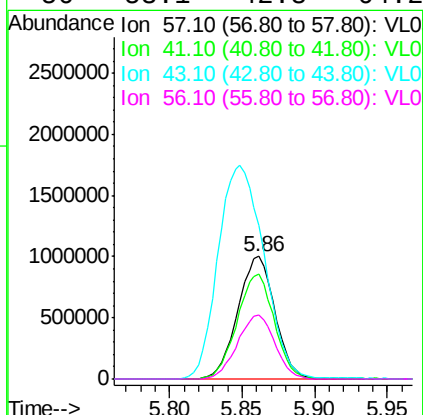
Manual Integrations
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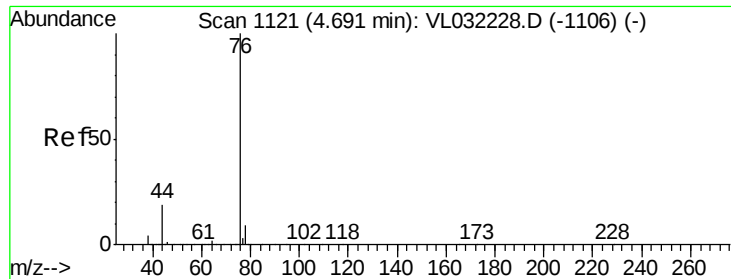
MMDadoda
7/13/2018 5:22:17 PM



#26
Hexane
Concen: 9.55 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. 0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Tgt Ion	Ratio	Lower	Upper
57	100		
41	86.7	68.7	103.1
43	216.0	176.2	264.2
56	53.1	42.8	64.2





#27

Carbon Disulfide

Concen: 9.83 ppbv

RT: 4.69 min Scan# 1121

Delta R.T. -0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Instrument :

MSVOA_L

ClientSampleId :

VL0712ABS01

Tot Ion: 76 Resp: 1639090

Ion Ratio Lower Upper

76 100

44 19.3 15.1 22.7

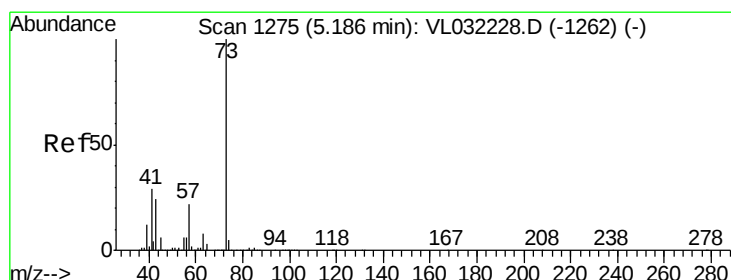
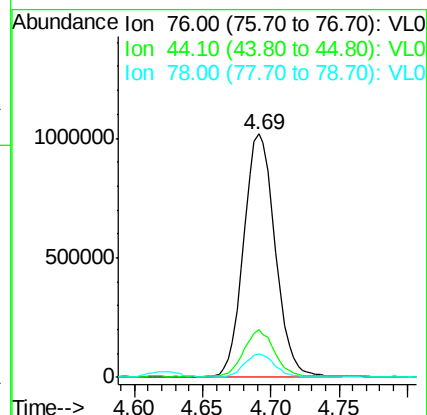
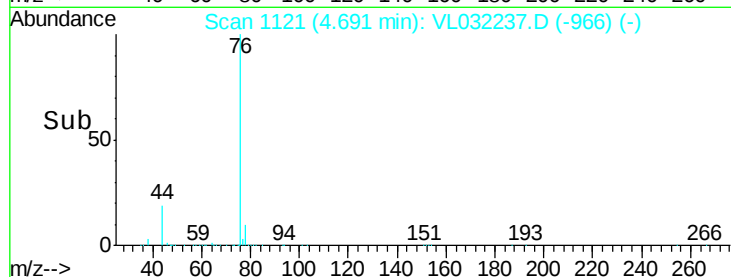
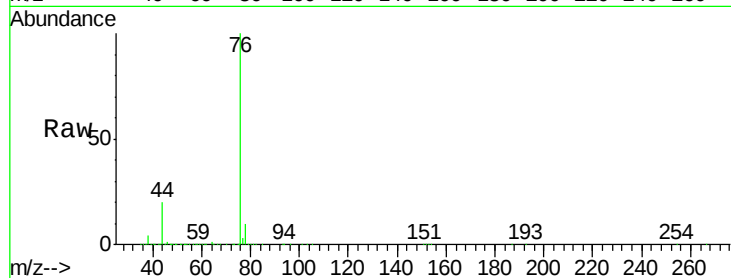
78 9.4 7.4 11.0

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#28

Methyl tert-Butyl Ether

Concen: 10.36 ppbv

RT: 5.19 min Scan# 1275

Delta R.T. -0.00 min

Lab File: VL032237.D

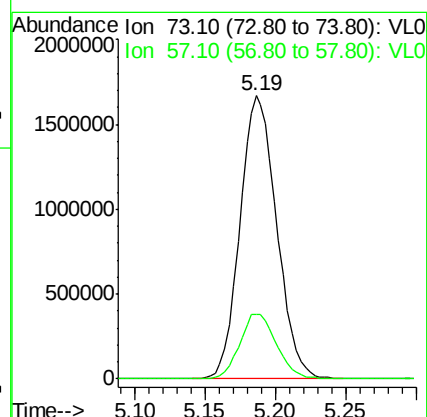
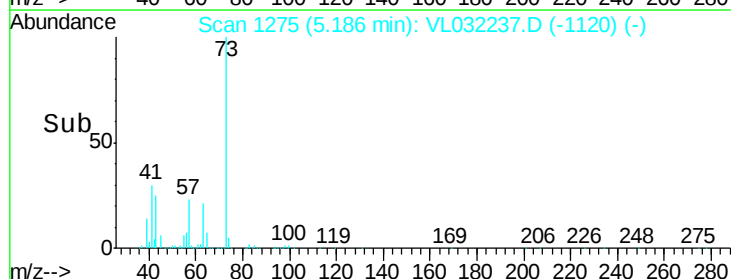
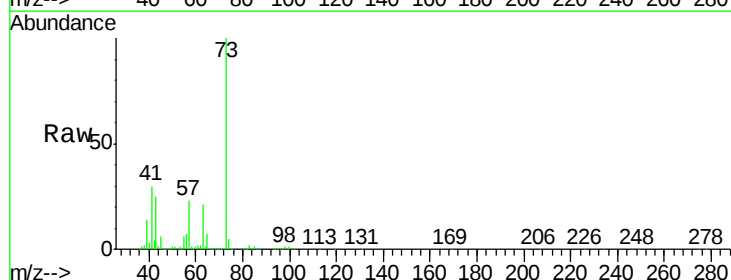
Acq: 13 Jul 2018 3:36

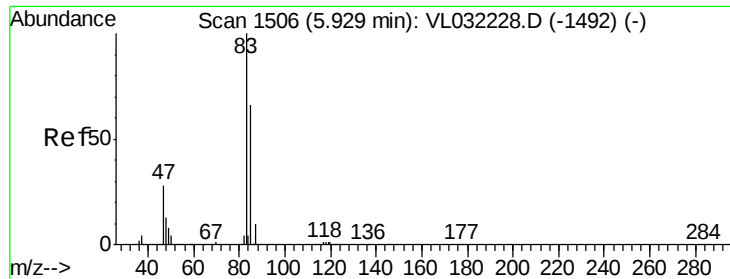
Tgt Ion: 73 Resp: 3039142

Ion Ratio Lower Upper

73 100

57 23.3 18.6 27.8





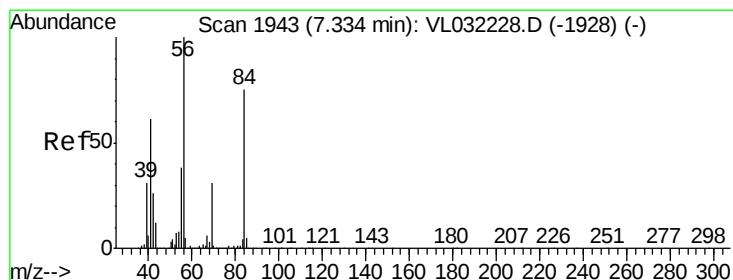
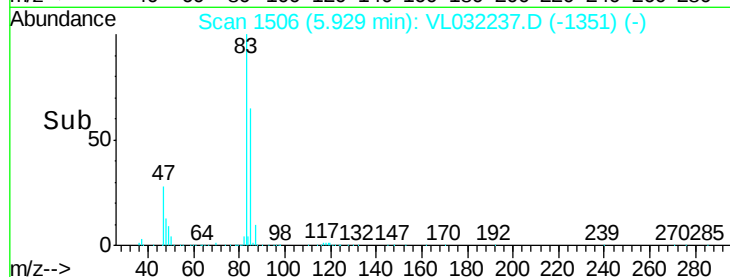
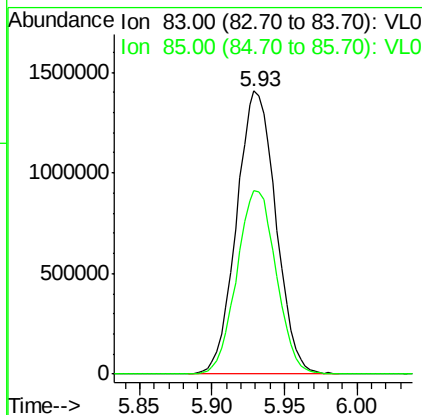
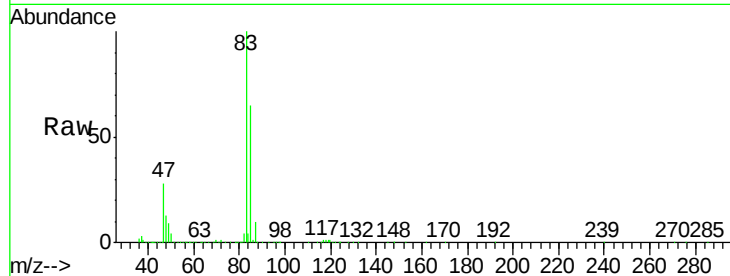
#29
Chloroform
Concen: 9.17 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. -0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Instrument :
MSVOA_L
ClientSampleId :
VL0712ABS01

Tot Ion: 83 Resp: 2639821
Ion Ratio Lower Upper
83 100
85 64.9 52.7 79.1

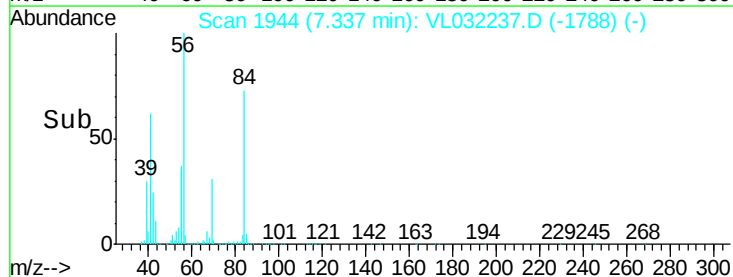
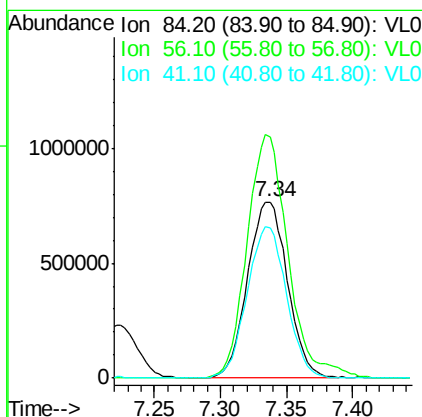
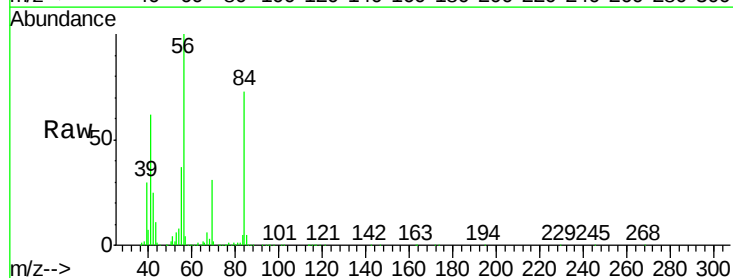
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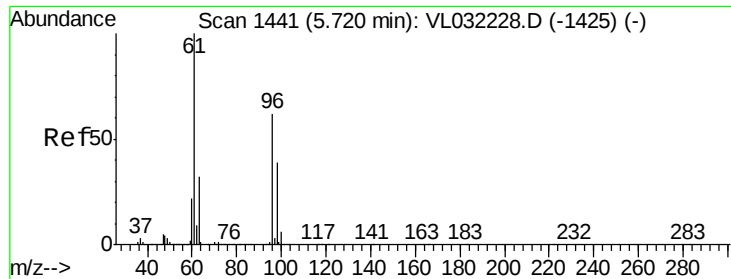
MMDadoda
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#30
Cyclohexane
Concen: 9.79 ppbv
RT: 7.34 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Tgt Ion: 84 Resp: 1610572
Ion Ratio Lower Upper
84 100
56 142.5 112.6 168.8
41 84.9 67.0 100.6





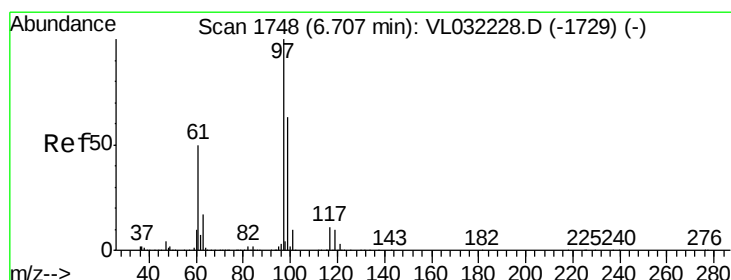
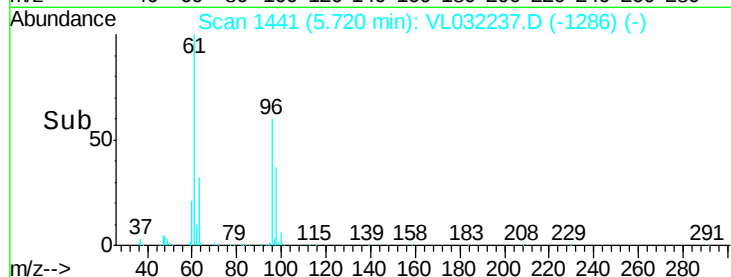
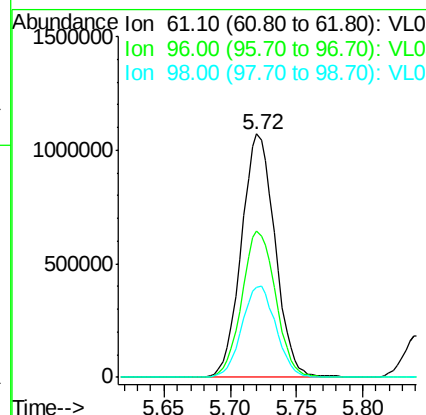
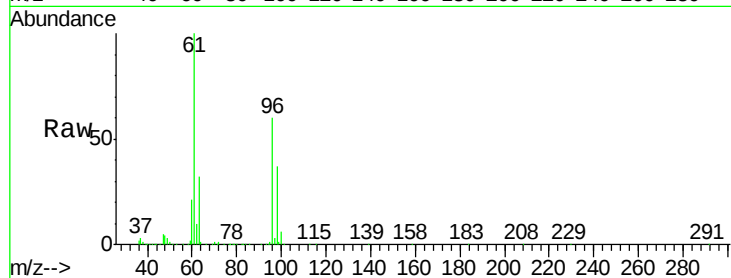
#31
 cis-1,2-Dichloroethene
 Concen: 10.14 ppbv
 RT: 5.72 min Scan# 1441
 Delta R.T. -0.00 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0712ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	60.2	49.8	74.8
98	37.2	31.4	47.2

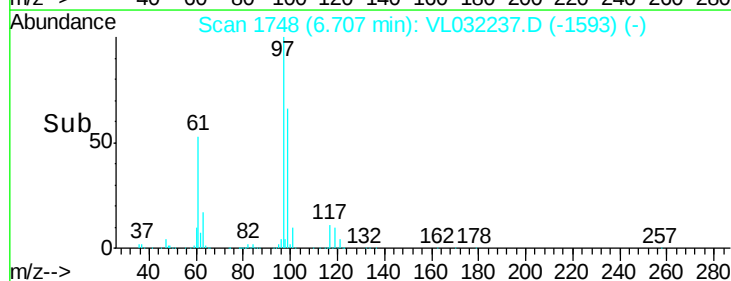
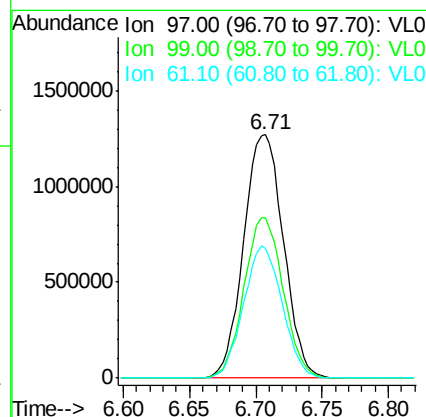
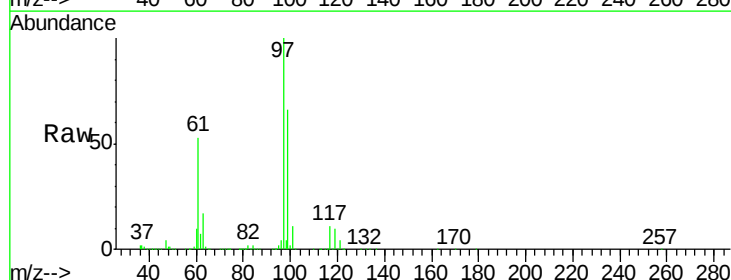
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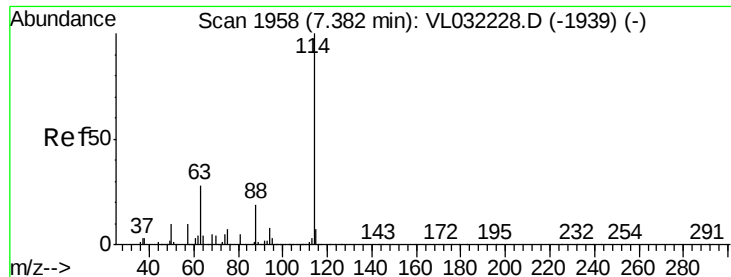
MMDadoda
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#32
 1,1,1-Trichloroethane
 Concen: 9.50 ppbv
 RT: 6.71 min Scan# 1748
 Delta R.T. -0.00 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.2	76.8
61	52.9	41.3	61.9





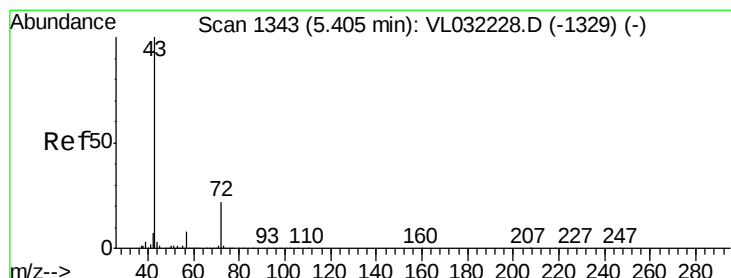
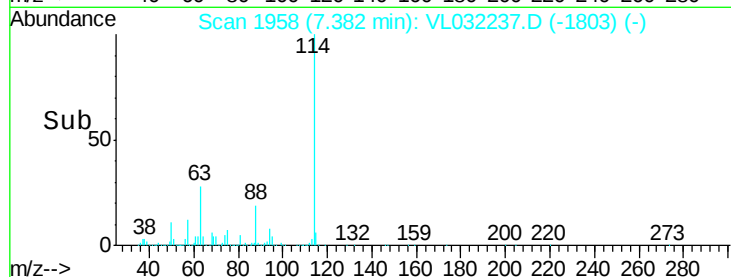
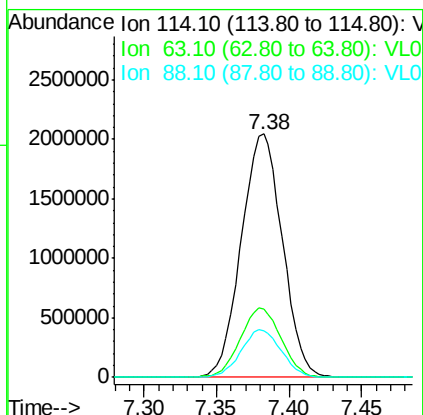
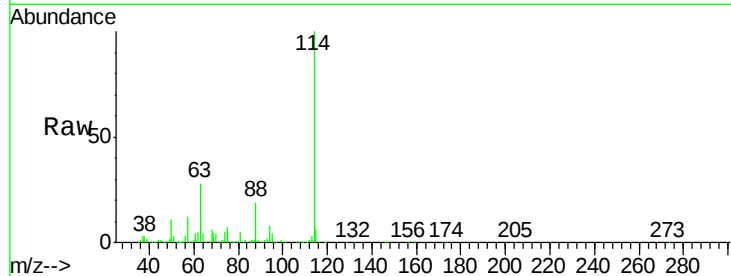
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1958
 Delta R.T. -0.00 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0712ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.7	22.5	33.7
88	19.3	15.4	23.0

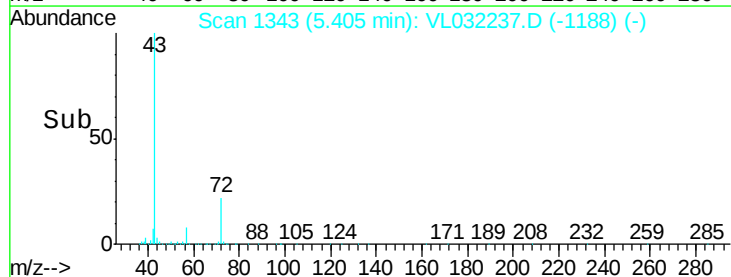
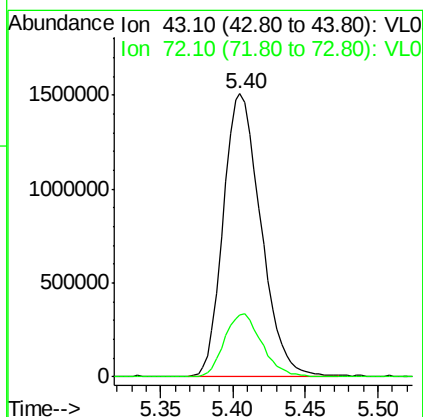
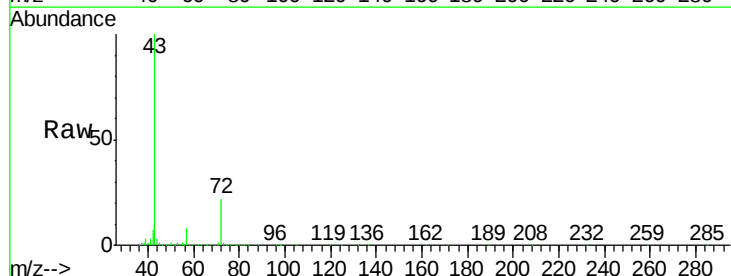
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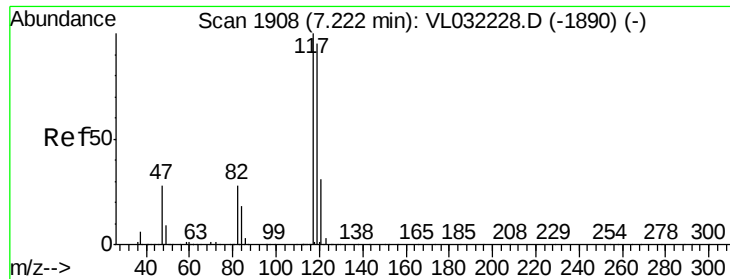
MMDadoda
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#34
 2-Butanone
 Concen: 9.84 ppbv
 RT: 5.40 min Scan# 1343
 Delta R.T. -0.00 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.2	18.1	27.1





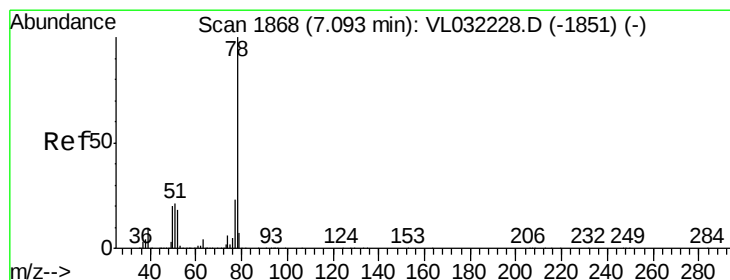
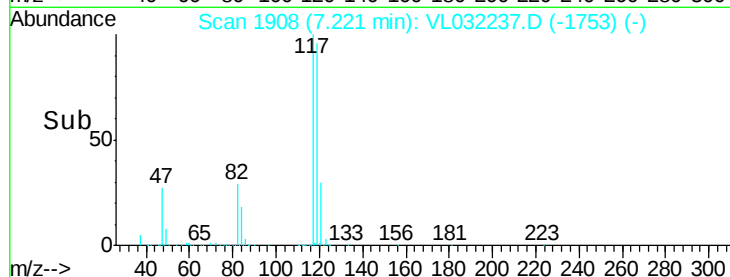
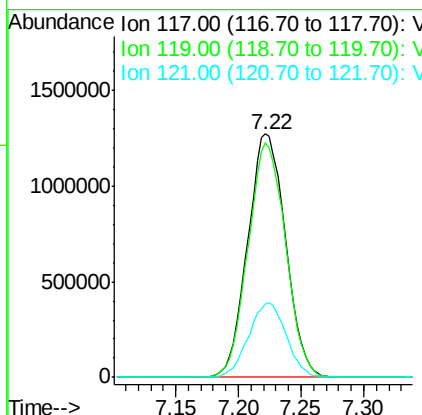
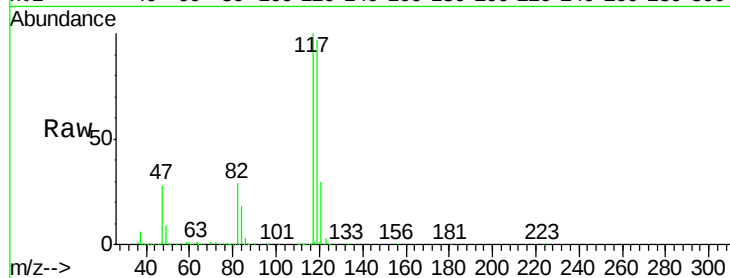
#35
Carbon Tetrachloride
Concen: 9.80 ppbv
RT: 7.22 min Scan# 1908
Delta R.T. -0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Instrument :
MSVOA_L
ClientSampleId :
VL0712ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.6	75.7	113.5
121	30.0	24.6	37.0

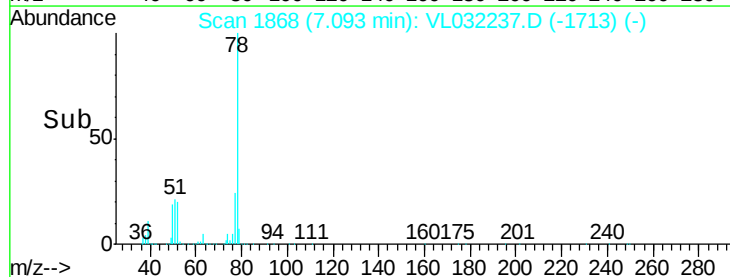
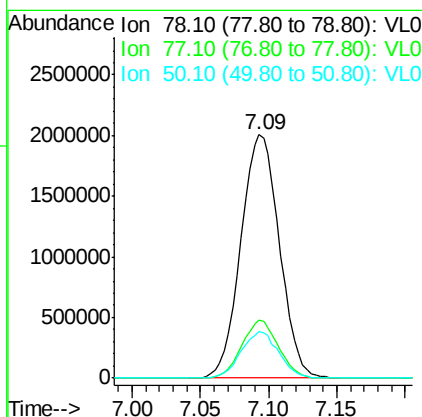
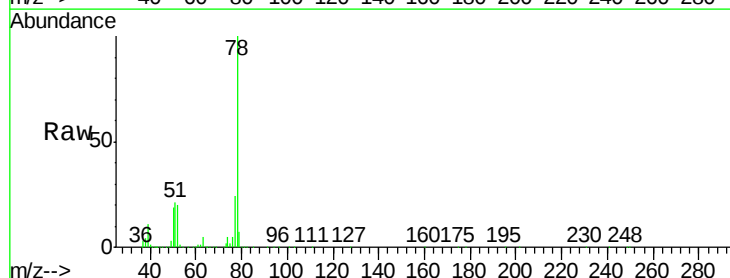
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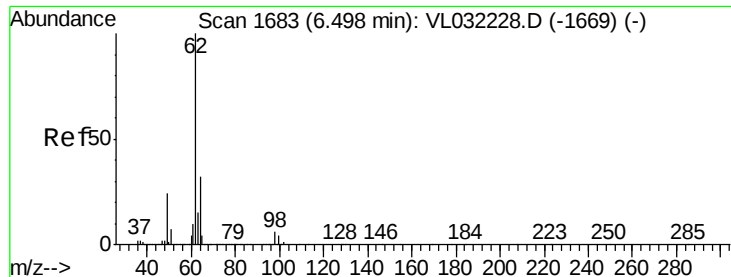
MMDadoda
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#36
Benzene
Concen: 9.81 ppbv
RT: 7.09 min Scan# 1868
Delta R.T. -0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.0	27.0
50	19.3	15.8	23.8





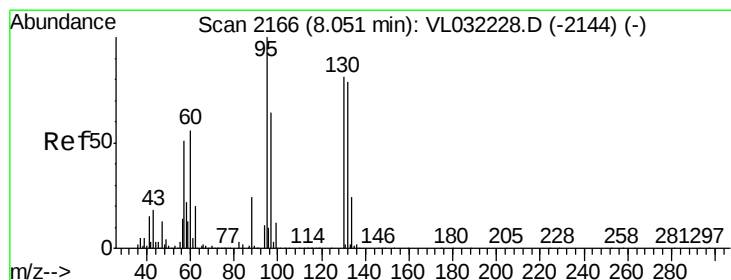
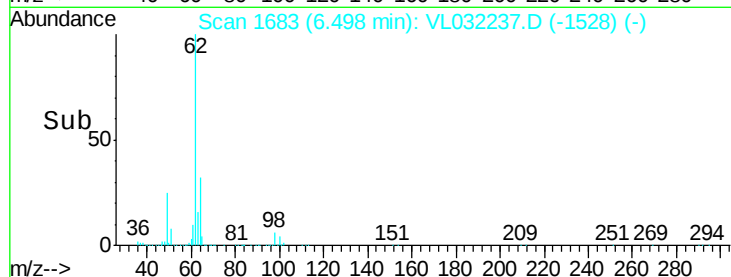
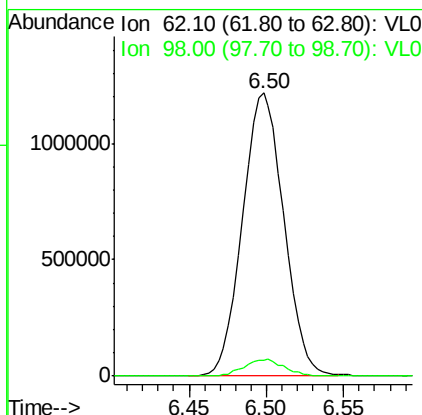
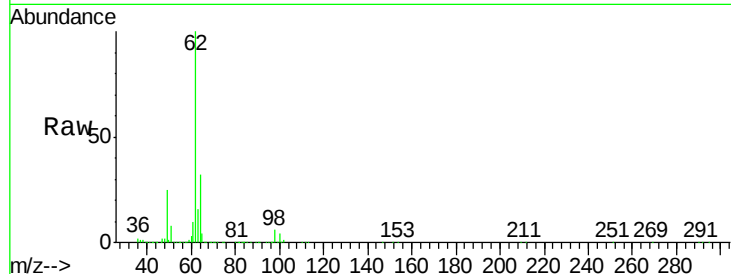
#37
 1,2-Dichloroethane
 Concen: 10.29 ppbv
 RT: 6.50 min Scan# 1683
 Delta R.T. -0.00 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0712ABS01

Tot Ion: 62 Resp: 2258659
 Ion Ratio Lower Upper
 62 100
 98 5.9 4.6 7.0

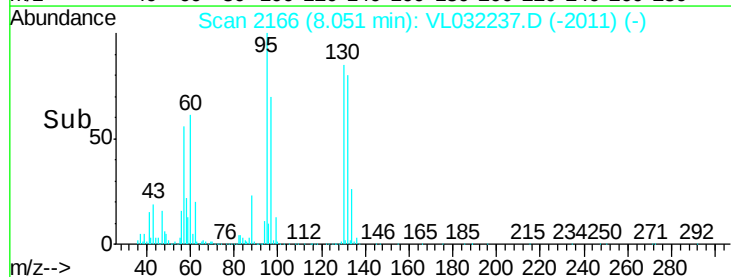
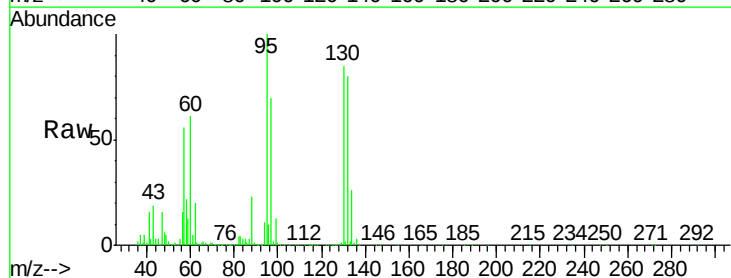
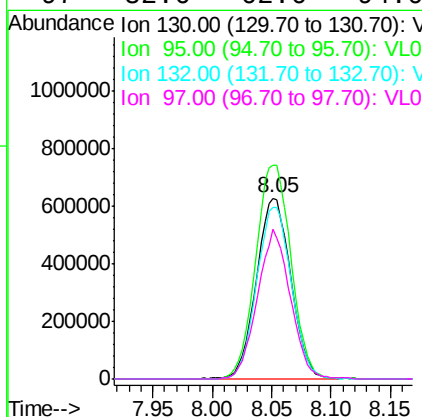
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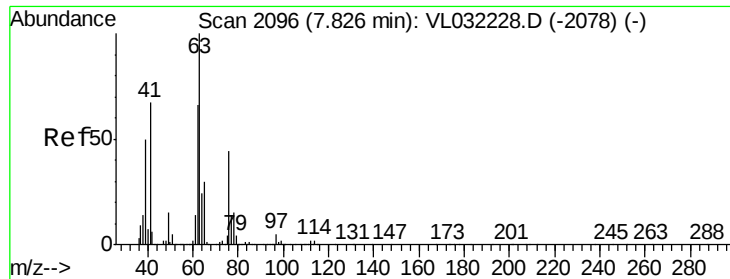
MMDadoda
 7/13/2018 5:22:17 PM



#38
 Trichloroethene
 Concen: 9.12 ppbv
 RT: 8.05 min Scan# 2166
 Delta R.T. -0.00 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Tgt Ion:130 Resp: 1254871
 Ion Ratio Lower Upper
 130 100
 95 118.3 98.3 147.5
 132 94.9 78.1 117.1
 97 82.6 62.6 94.0





#39

1,2-Dichloropropane

Concen: 9.99 ppbv

RT: 7.83 min Scan# 2096

Delta R.T. -0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Instrument :

MSVOA_L

ClientSampleId :

VL0712ABS01

Tot Ion: 63 Resp: 1591449

Ion Ratio Lower Upper

63 100

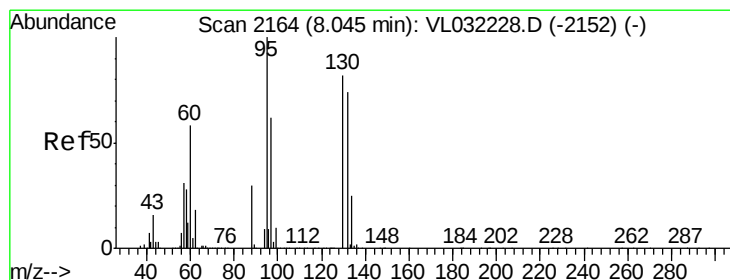
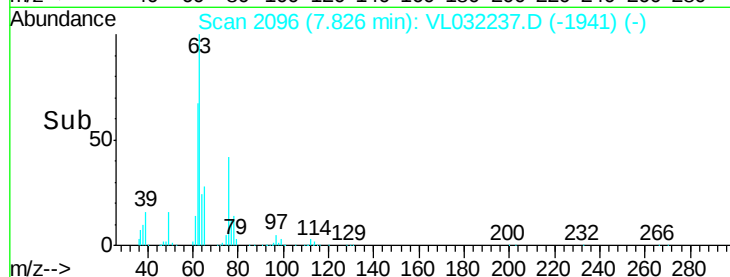
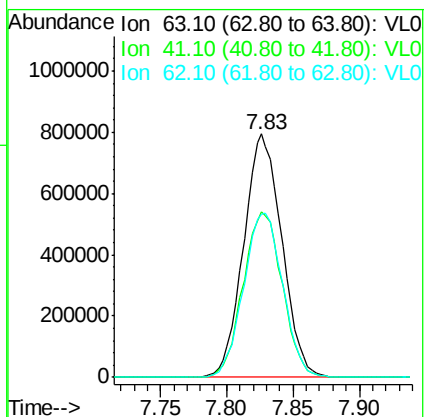
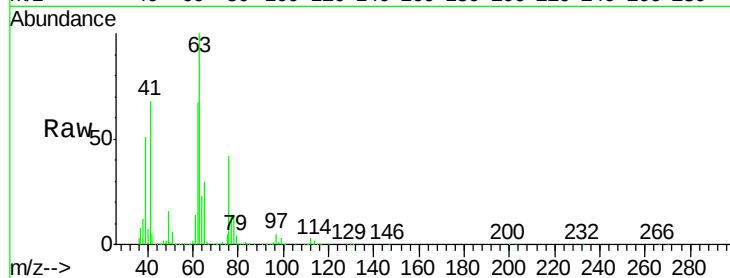
41 68.0 53.8 80.6

62 66.7 53.1 79.7

Manual Integrations
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MMDadoda

7/13/2018 5:22:17 PM



#40

1,4-Dioxane

Concen: 8.55 ppbv

RT: 8.04 min Scan# 2163

Delta R.T. -0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Tgt Ion: 88 Resp: 467113

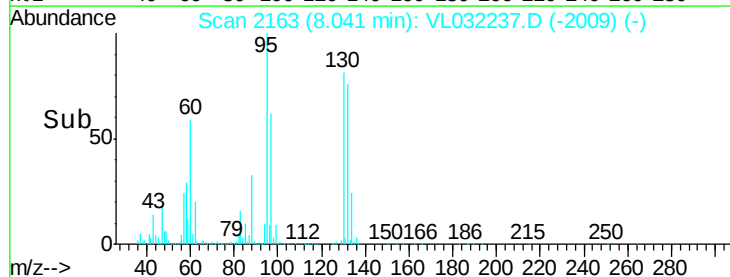
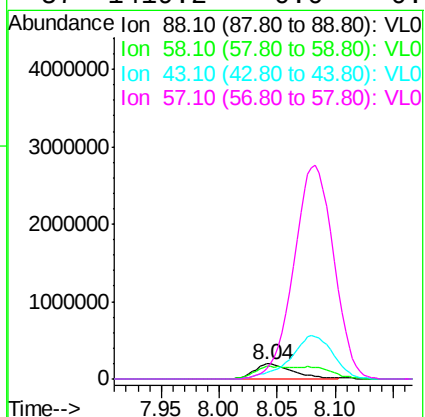
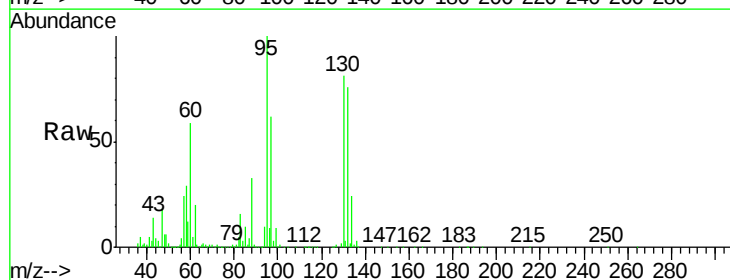
Ion Ratio Lower Upper

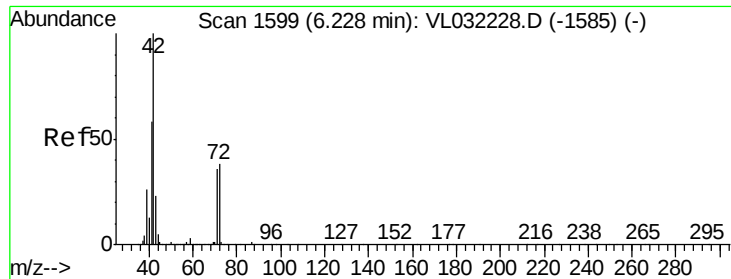
88 100

58 147.0 117.4 176.2

43 310.5 0.0 0.0#

57 1419.2 0.0 0.0#





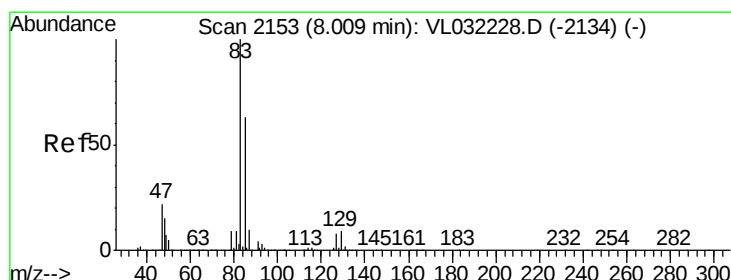
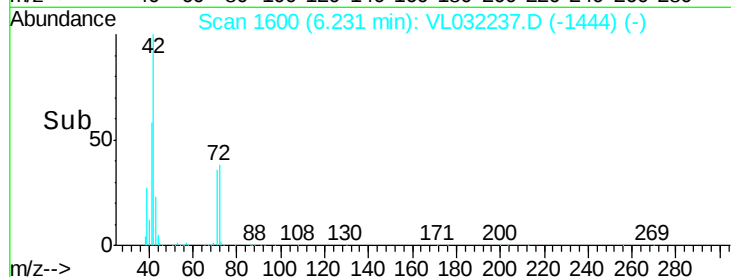
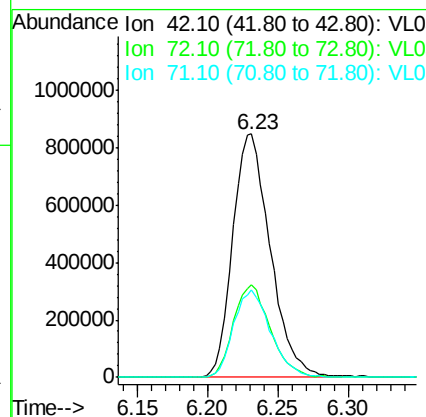
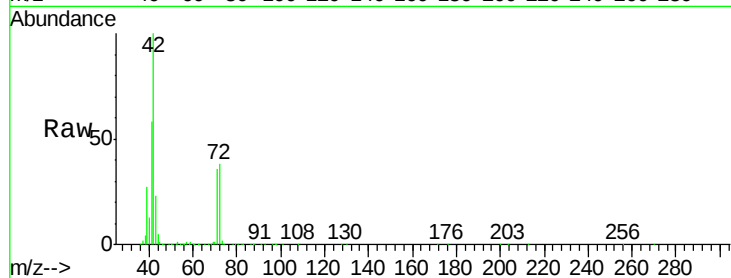
#41
Tetrahydrofuran
Concen: 10.28 ppbv
RT: 6.23 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Instrument :
MSVOA_L
ClientSampleId :
VL0712ABS01

Tot Ion: 42 Resp: 1580985
Ion Ratio Lower Upper
42 100
72 37.7 30.6 45.8
71 35.8 29.7 44.5

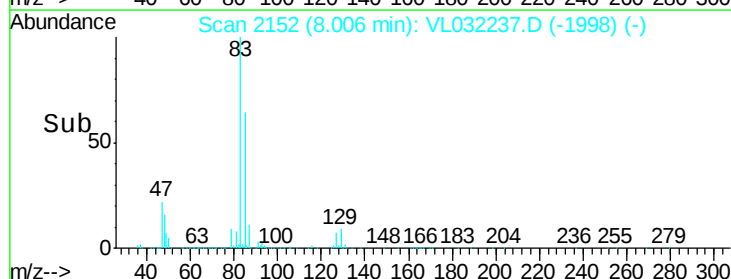
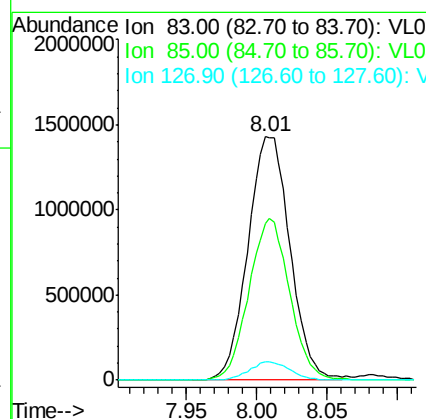
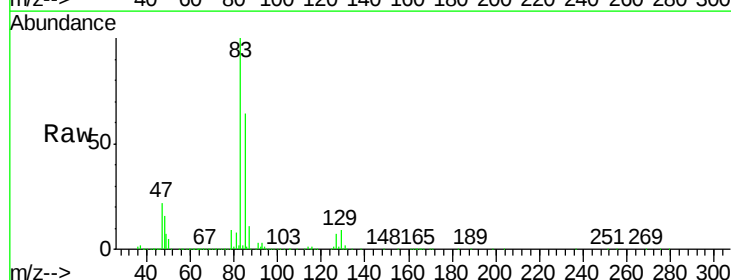
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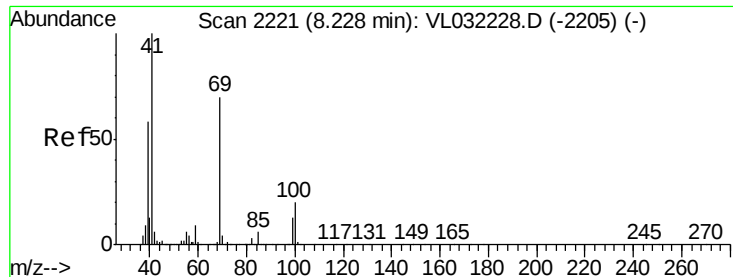
MMDadoda
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#42
Bromodichloromethane
Concen: 9.56 ppbv
RT: 8.01 min Scan# 2152
Delta R.T. -0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Tgt Ion: 83 Resp: 2989927
Ion Ratio Lower Upper
83 100
85 64.4 50.6 76.0
127 7.3 6.1 9.1





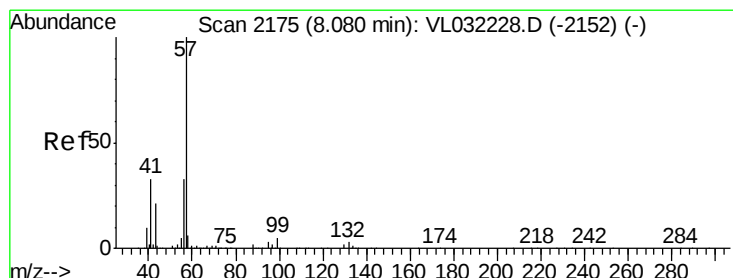
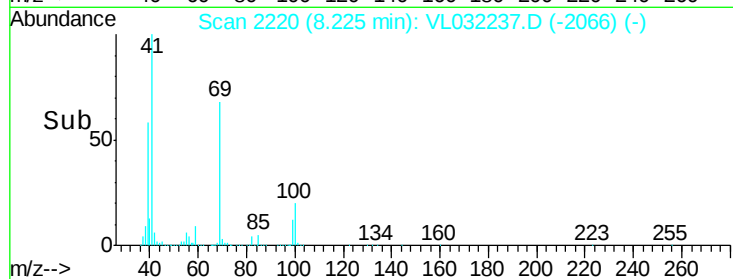
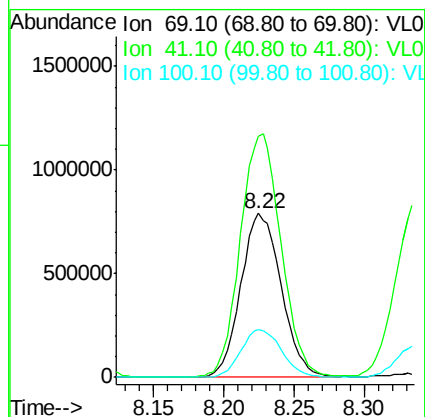
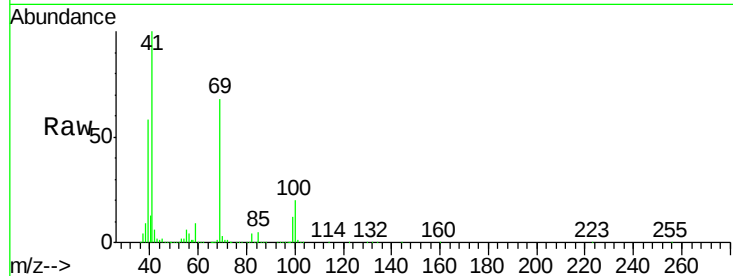
#43
Methvl Methacrvlate
Concen: 10.26 ppbv
RT: 8.22 min Scan# 2220
Delta R.T. -0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Instrument :
MSVOA_L
ClientSampleId :
VL0712ABS01

Tot Ion: 69 Resp: 1589771
Ion Ratio Lower Upper
69 100
41 149.8 116.3 174.5
100 29.6 23.8 35.8

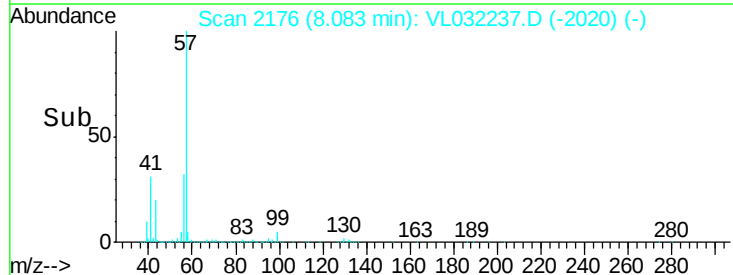
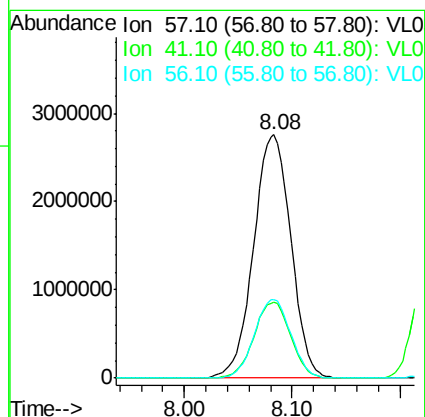
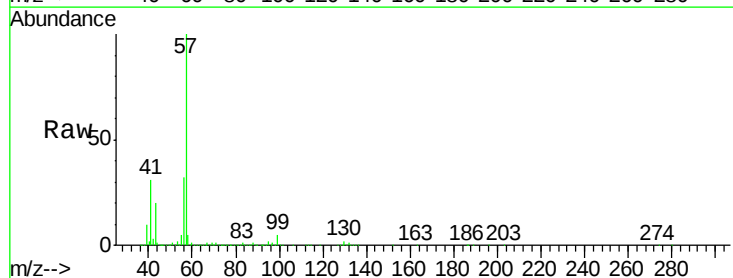
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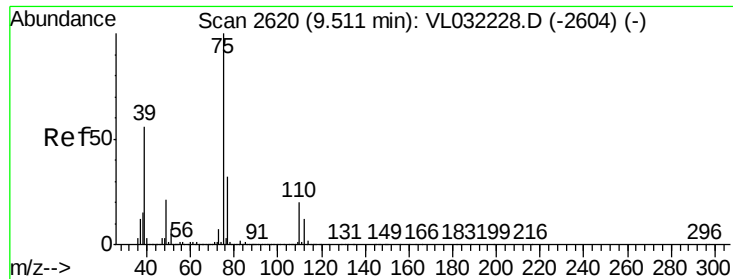
MMDadoda
7/13/2018 5:22:17 PM



#44
2,2,4-Trimethylpentane
Concen: 9.60 ppbv
RT: 8.08 min Scan# 2176
Delta R.T. 0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Tgt Ion: 57 Resp: 6620861
Ion Ratio Lower Upper
57 100
41 30.8 24.7 37.1
56 31.6 25.4 38.0





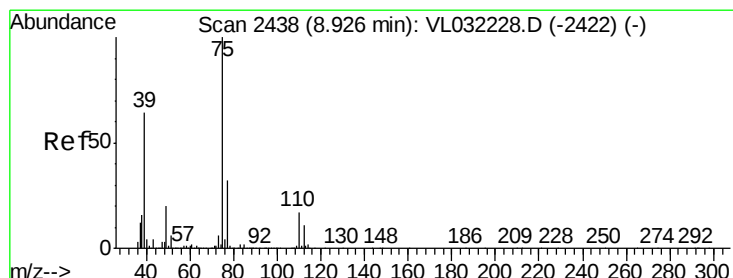
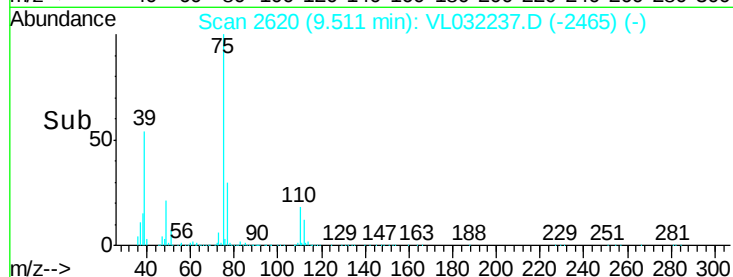
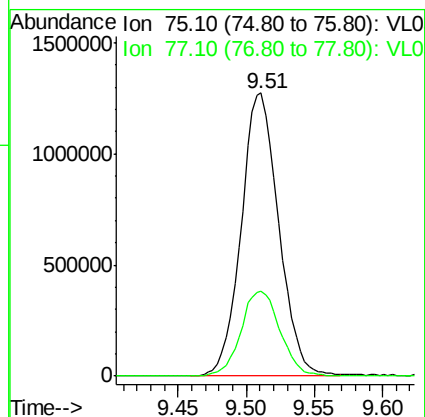
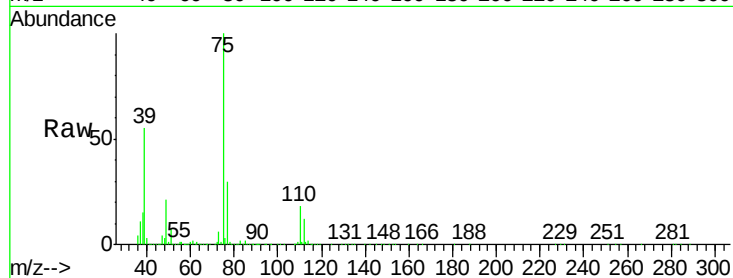
#45
 t-1,3-Dichloropropene
 Concen: 13.16 ppbv
 RT: 9.51 min Scan# 2620
 Delta R.T. -0.00 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0712ABS01

Tot Ion: 75 Resp: 2428471
 Ion Ratio Lower Upper
 75 100
 77 29.9 25.5 38.3

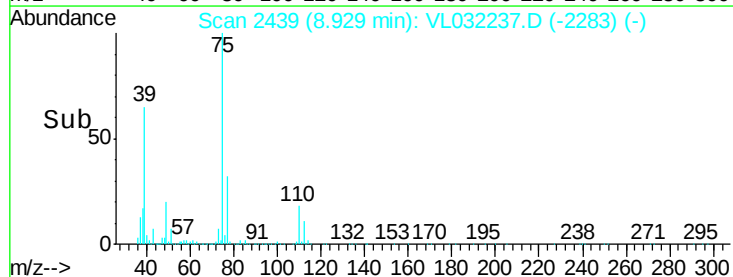
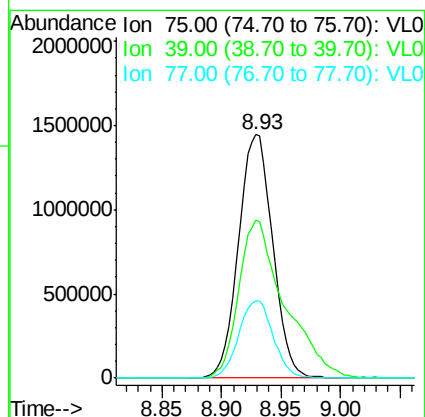
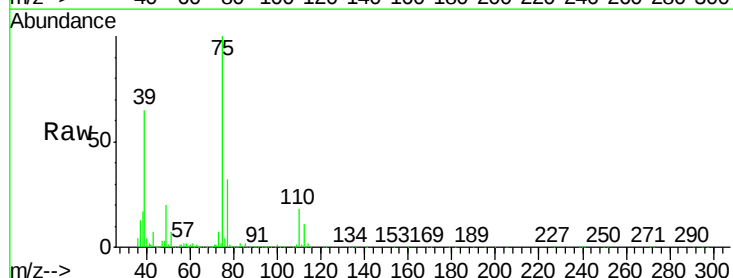
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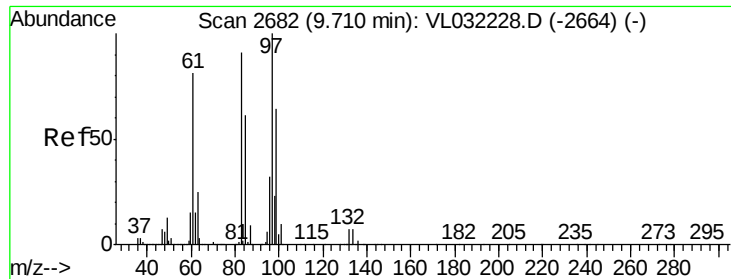
MMDadoda
 7/13/2018 5:22:17 PM



#46
 cis-1,3-Dichloropropene
 Concen: 11.43 ppbv
 RT: 8.93 min Scan# 2439
 Delta R.T. 0.00 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Tgt Ion: 75 Resp: 2878593
 Ion Ratio Lower Upper
 75 100
 39 64.9 50.9 76.3
 77 31.6 25.3 37.9





#47

1,1,2-Trichloroethane

Concen: 10.16 ppbv

RT: 9.71 min Scan# 2682

Delta R.T. -0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Instrument :

MSVOA_L

ClientSampleId :

VL0712ABS01

Tot Ion: 97 Resp: 1808057

Ion Ratio Lower Upper

97 100

83 92.3 72.9 109.3

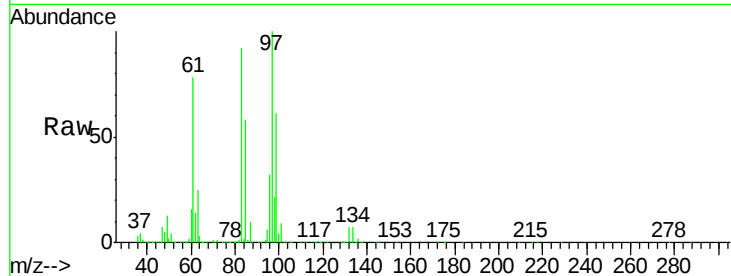
85 58.1 49.3 73.9

99 60.8 51.3 76.9

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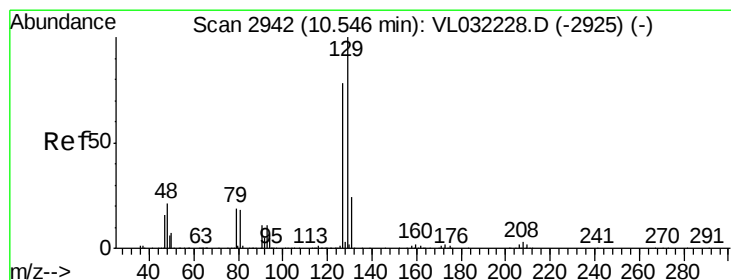
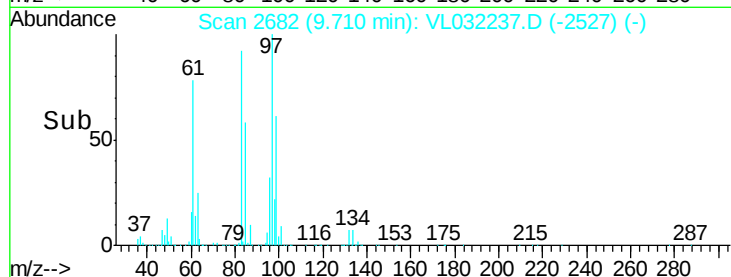
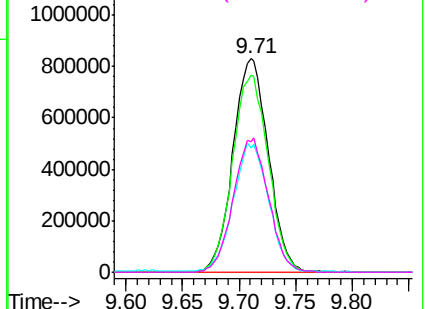


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 10.64 ppbv

RT: 10.55 min Scan# 2943

Delta R.T. 0.00 min

Lab File: VL032237.D

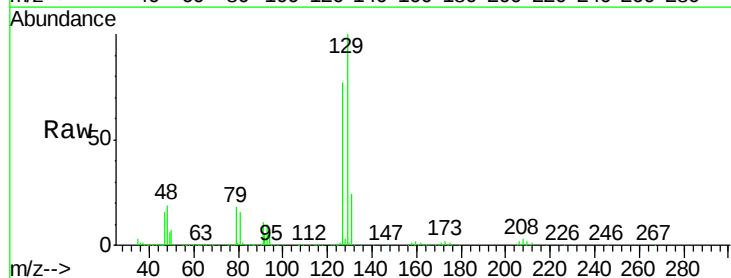
Acq: 13 Jul 2018 3:36

Tgt Ion: 129 Resp: 2818580

Ion Ratio Lower Upper

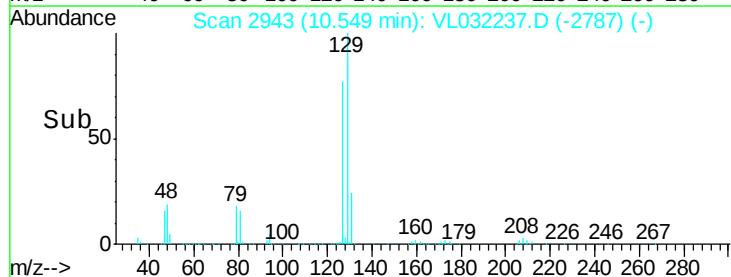
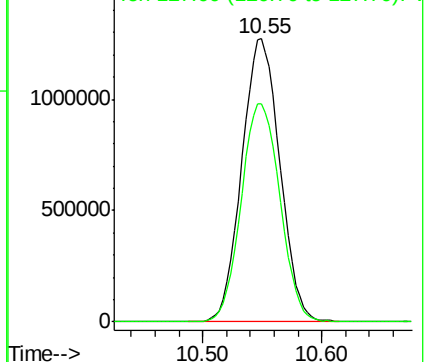
129 100

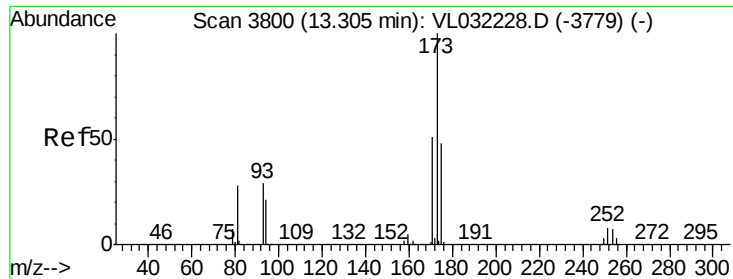
127 78.8 39.3 117.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





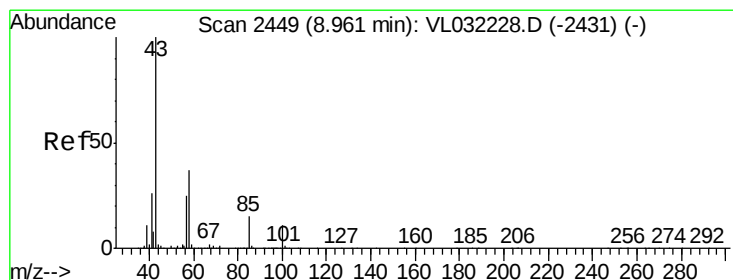
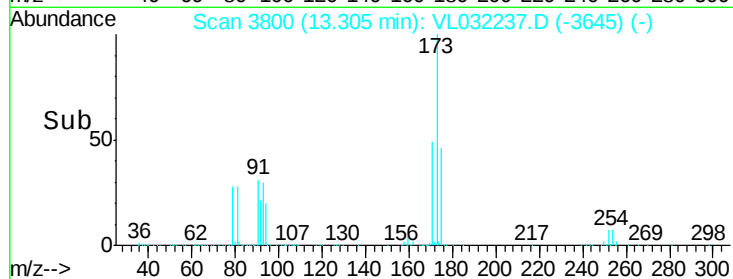
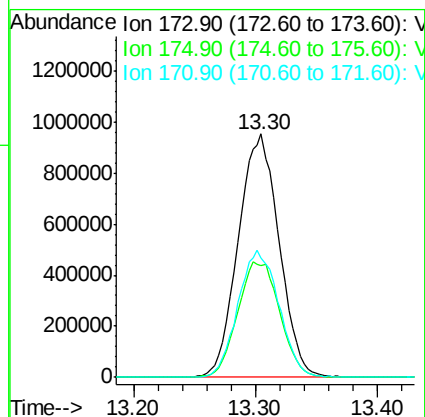
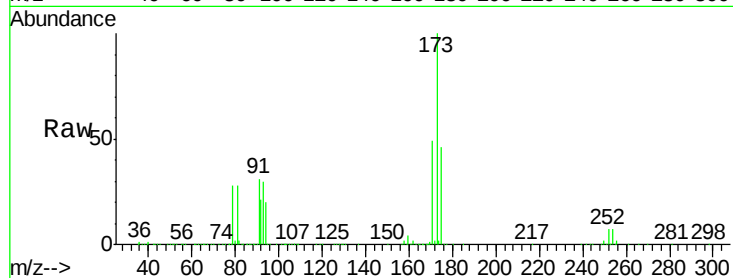
#49
Bromoform
Concen: 10.38 ppbv
RT: 13.30 min Scan# 3800
Delta R.T. -0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Instrument :
MSVOA_L
ClientSampleId :
VL0712ABS01

Tot Ion:173 Resp: 2203057
Ion Ratio Lower Upper
173 100
175 49.3 39.4 59.2
171 52.6 41.8 62.6

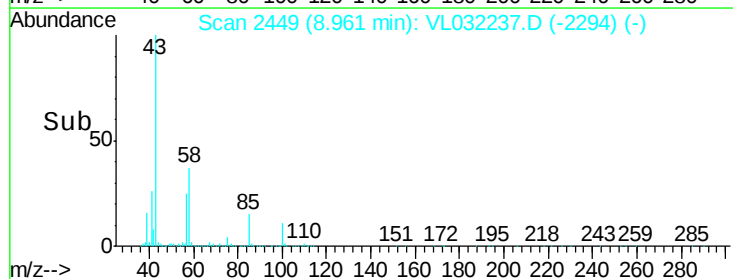
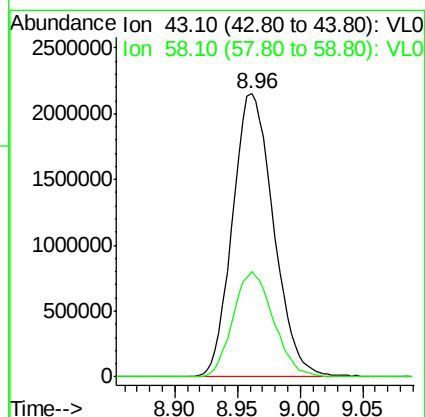
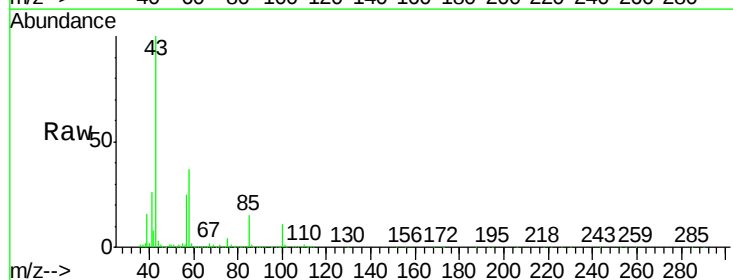
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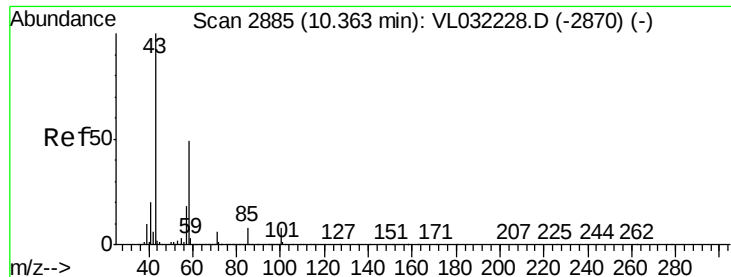
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 10.27 ppbv
RT: 8.96 min Scan# 2449
Delta R.T. -0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Tgt Ion: 43 Resp: 4884109
Ion Ratio Lower Upper
43 100
58 36.8 29.5 44.3





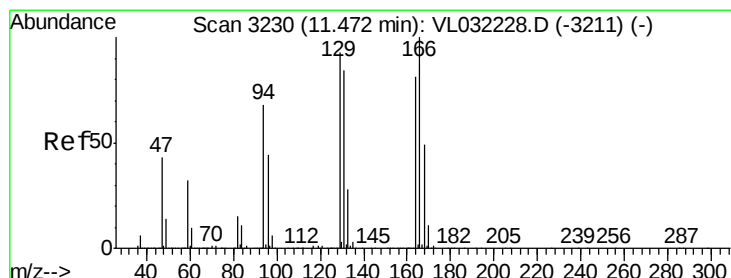
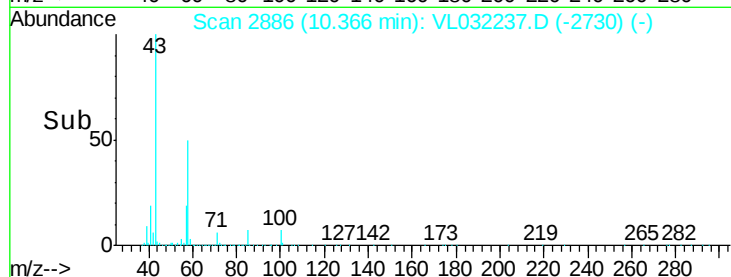
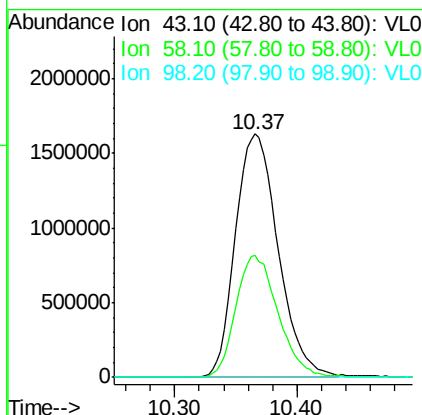
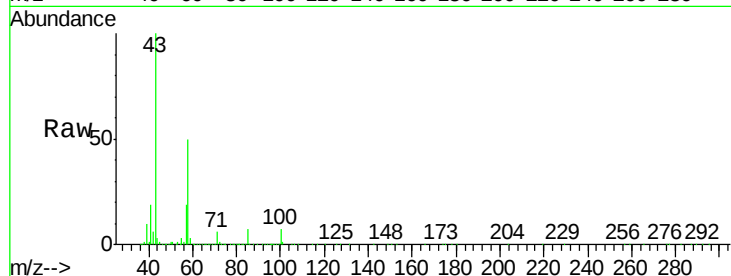
#51
2-Hexanone
Concen: 9.95 ppbv
RT: 10.37 min Scan# 2886
Delta R.T. 0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Instrument :
MSVOA_L
ClientSampleId :
VL0712ABS01

Tot Ion: 43 Resp: 3952329
Ion Ratio Lower Upper
43 100
58 49.6 39.9 59.9
98 0.3 0.2 0.4

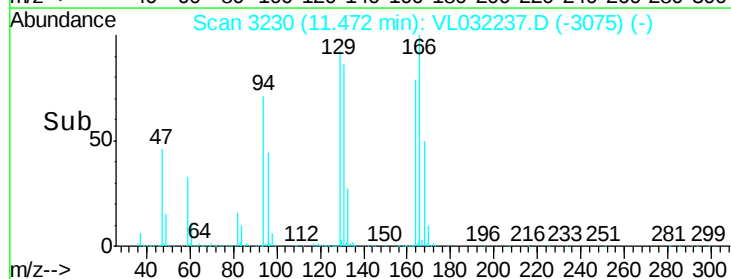
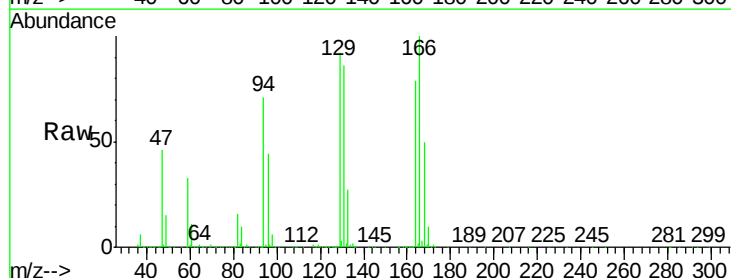
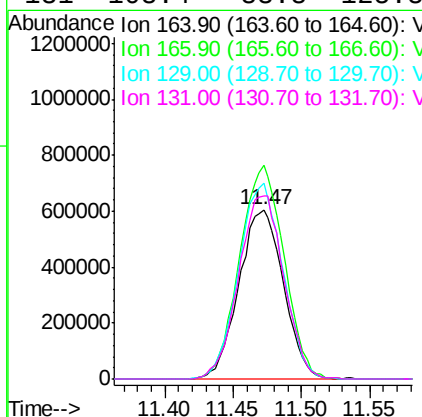
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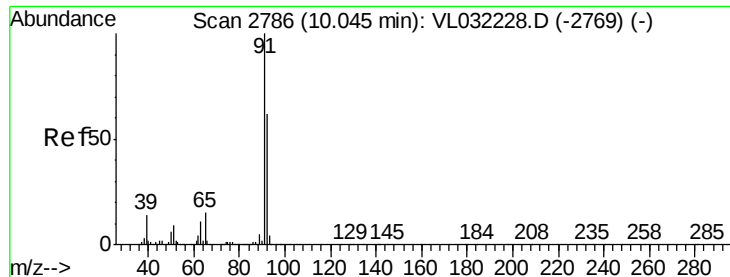
MMDadoda
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#52
Tetrachloroethene
Concen: 9.21 ppbv
RT: 11.47 min Scan# 3230
Delta R.T. -0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Tgt Ion: 164 Resp: 1365450
Ion Ratio Lower Upper
164 100
166 126.4 99.3 148.9
129 116.0 92.0 138.0
131 108.4 83.8 125.8





#53

Toluene

Concen: 10.95 ppbv

RT: 10.04 min Scan# 2785

Delta R.T. -0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Instrument :

MSVOA_L

ClientSampleId :

VL0712ABS01

Tot Ion: 91 Resp: 5191100

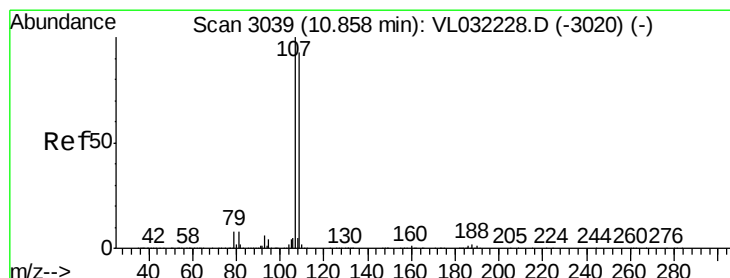
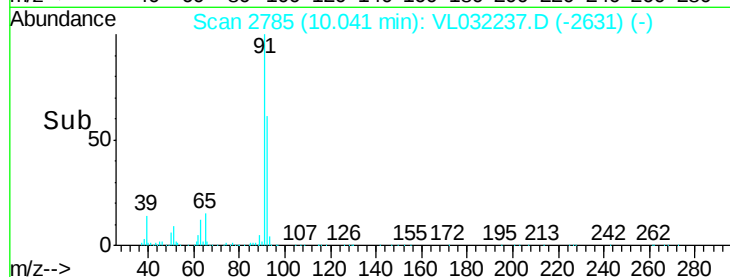
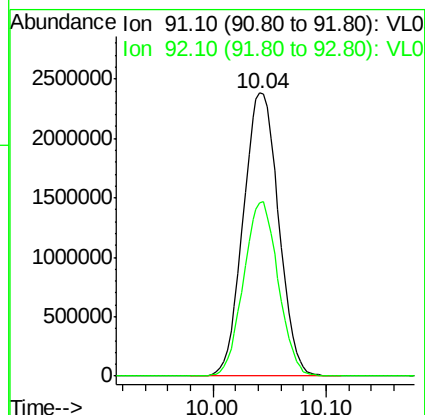
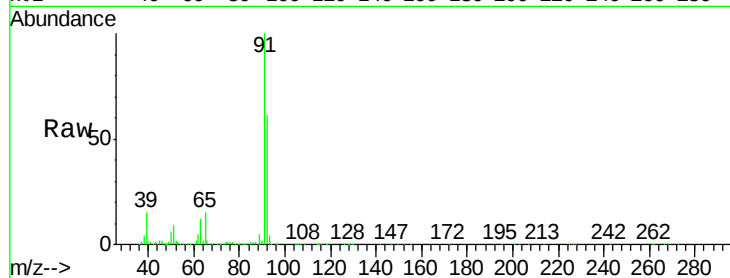
Ion Ratio Lower Upper

91 100

92 60.4 49.0 73.4

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#54

1,2-Dibromoethane

Concen: 10.46 ppbv

RT: 10.86 min Scan# 3039

Delta R.T. -0.00 min

Lab File: VL032237.D

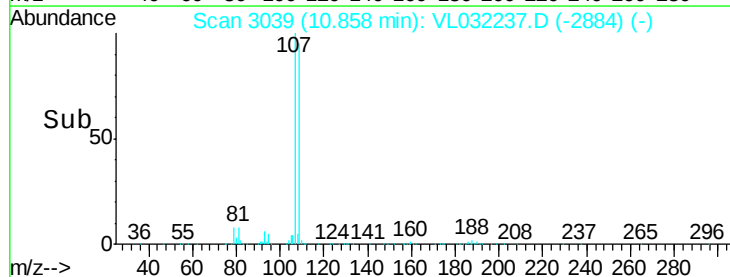
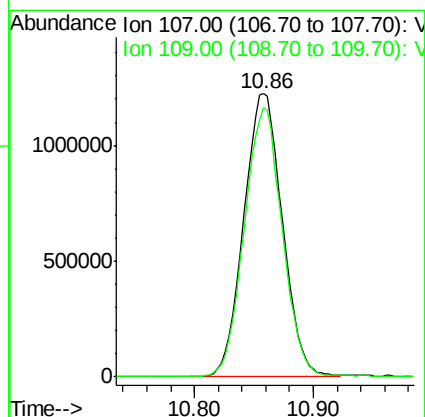
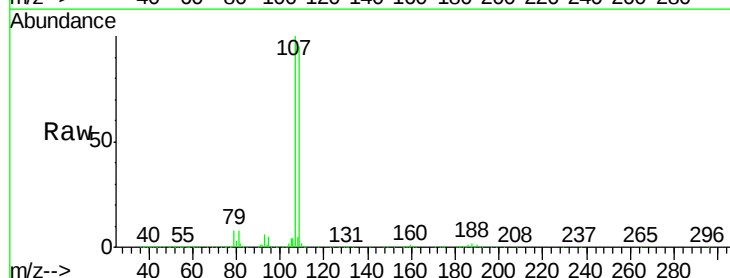
Acq: 13 Jul 2018 3:36

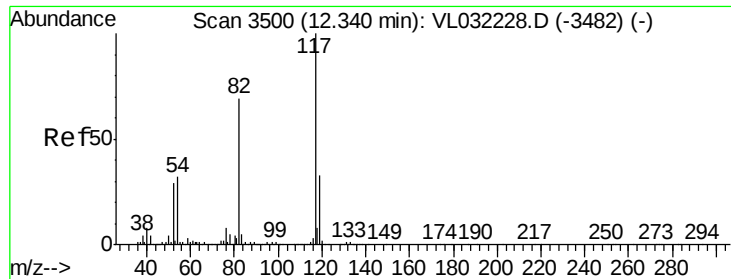
Tgt Ion: 107 Resp: 2747862

Ion Ratio Lower Upper

107 100

109 95.0 74.3 111.5





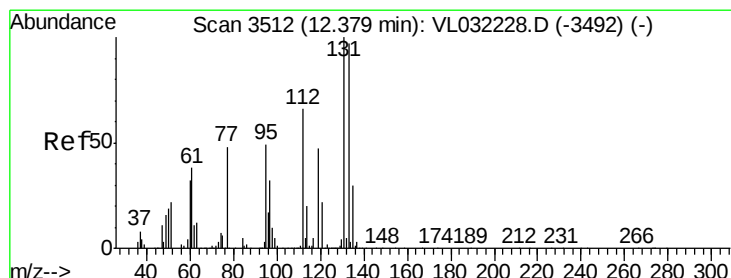
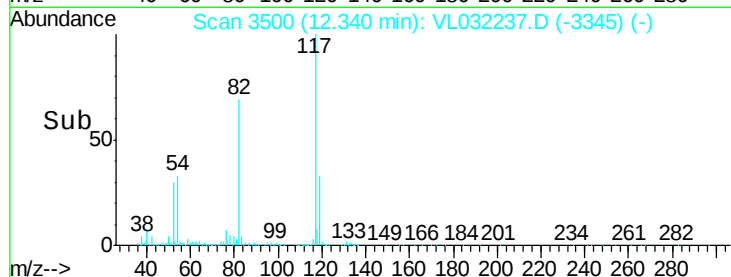
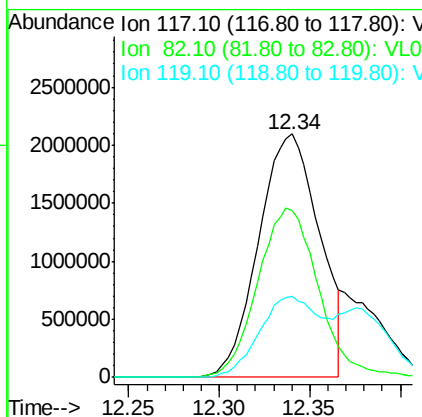
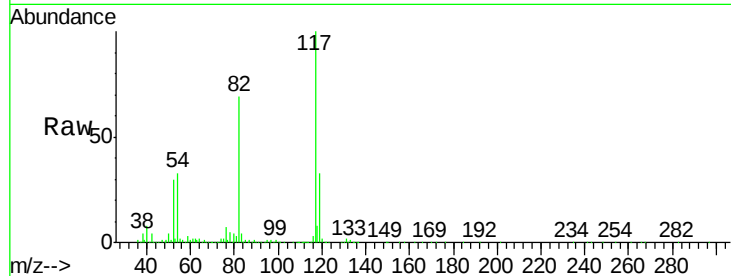
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.34 min Scan# 3500
Delta R.T. -0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Instrument :
MSVOA_L
ClientSampleId :
VL0712ABS01

Tot Ion:117 Resp: 4892825
Ion Ratio Lower Upper
117 100
82 69.9 53.2 79.8
119 57.9 43.9 65.9

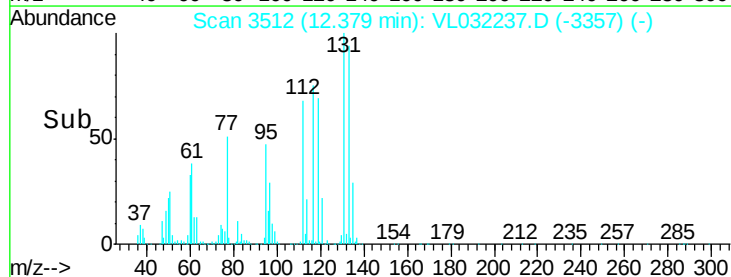
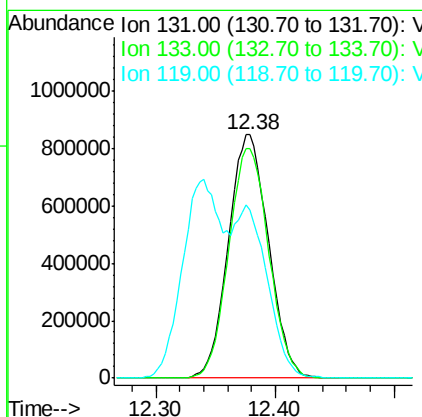
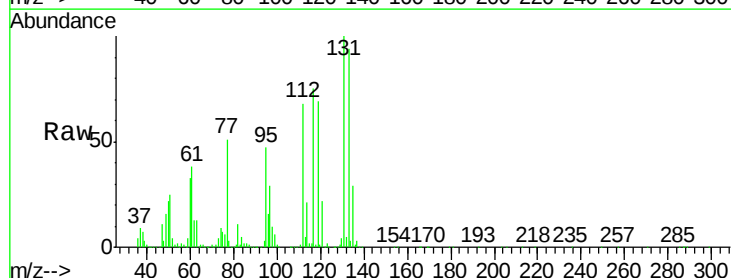
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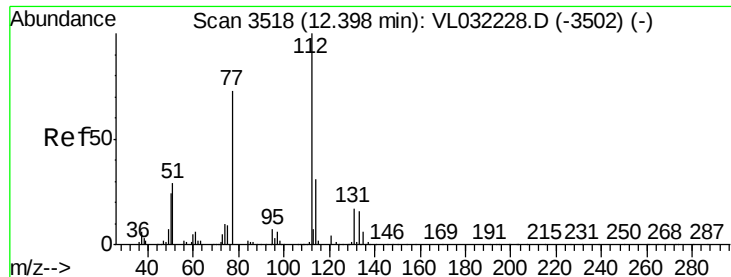
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.26 ppbv
RT: 12.38 min Scan# 3512
Delta R.T. -0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Tgt Ion:131 Resp: 1967508
Ion Ratio Lower Upper
131 100
133 95.3 75.2 112.8
119 143.9 113.9 170.9





#57

Chlorobenzene

Concen: 8.91 ppbv

RT: 12.40 min Scan# 3519

Delta R.T. 0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Instrument :

MSVOA_L

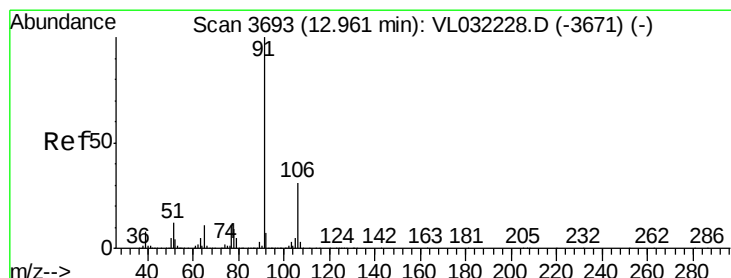
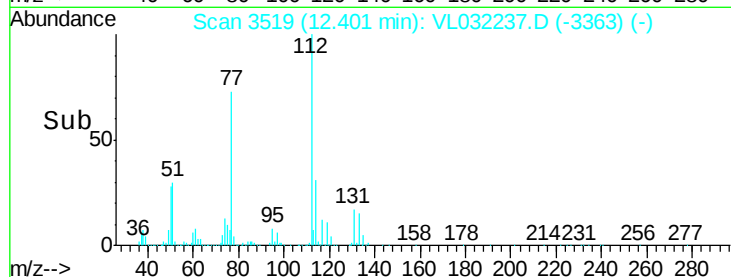
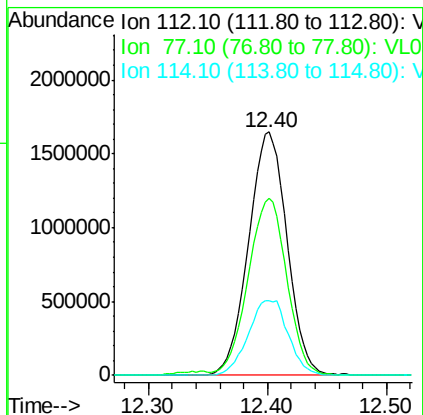
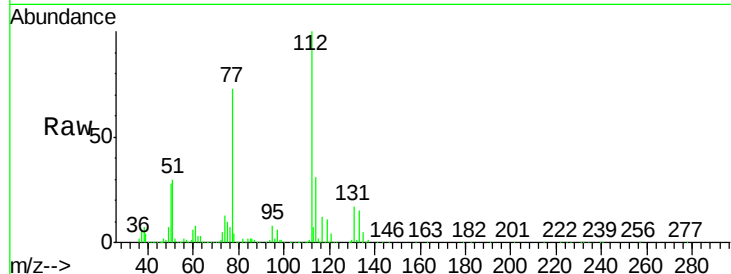
ClientSampleId :

VL0712ABS01

Tot Ion:	112	Resp:	3683351
Ion	Ratio	Lower	Upper
112	100		
77	72.4	58.8	88.2
114	30.7	27.9	34.1

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#58

Ethyl Benzene

Concen: 9.94 ppbv

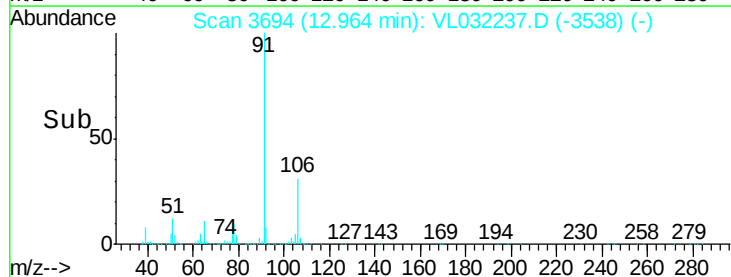
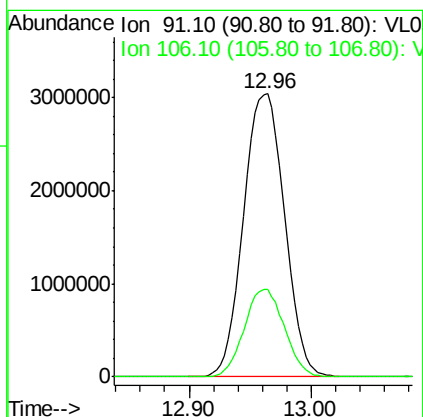
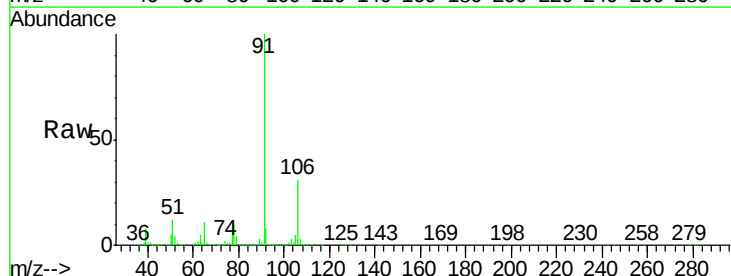
RT: 12.96 min Scan# 3694

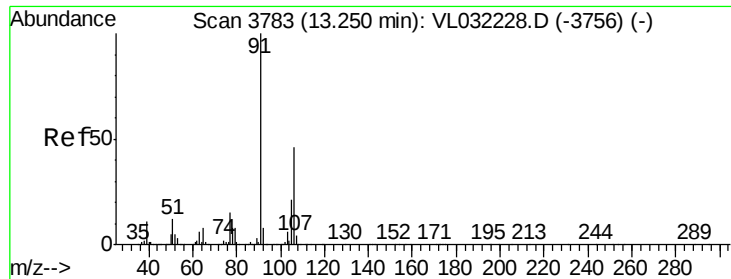
Delta R.T. 0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Tgt Ion:	91	Resp:	7083260
Ion	Ratio	Lower	Upper
91	100		
106	30.7	24.5	36.7





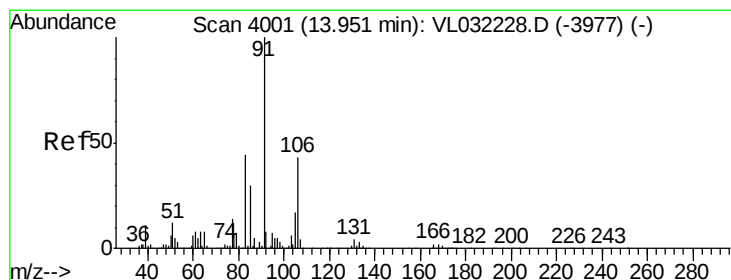
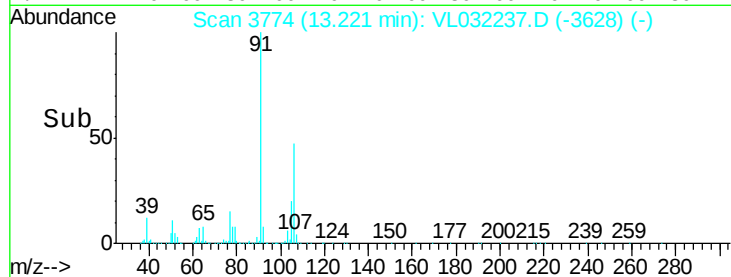
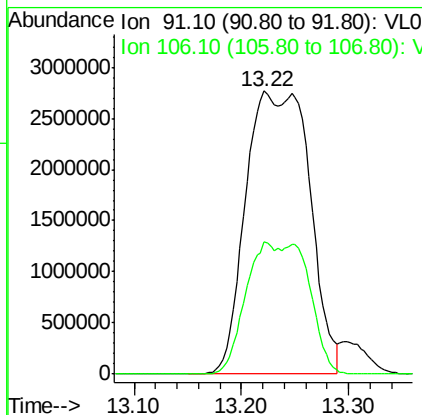
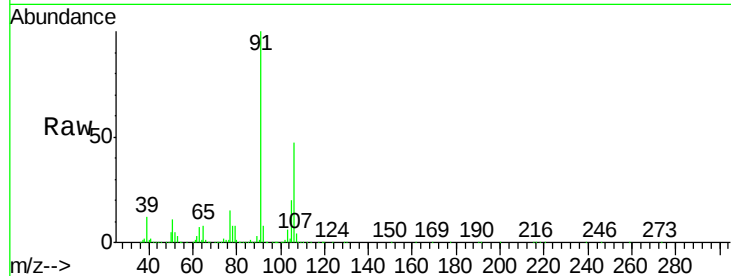
#59
m/p-Xylene
Concen: 19.42 ppbv m
RT: 13.22 min Scan# 3774
Delta R.T. -0.03 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Instrument :
MSVOA_L
ClientSampleId :
VL0712ABS01

Tot Ion: 91 Resp: 11385698
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#

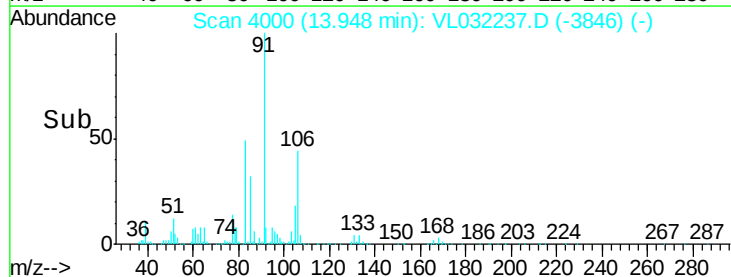
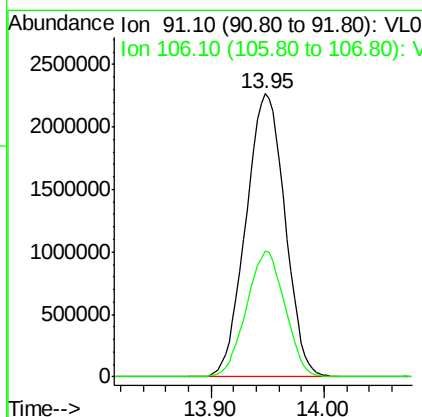
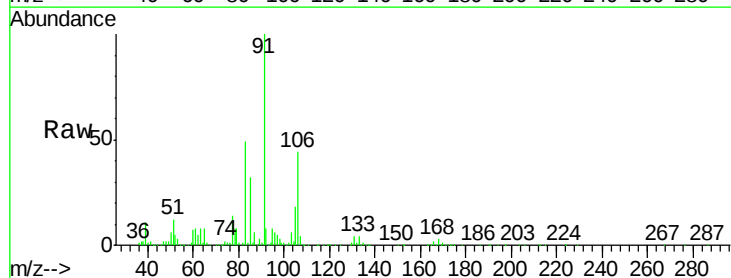
Manual Integrations
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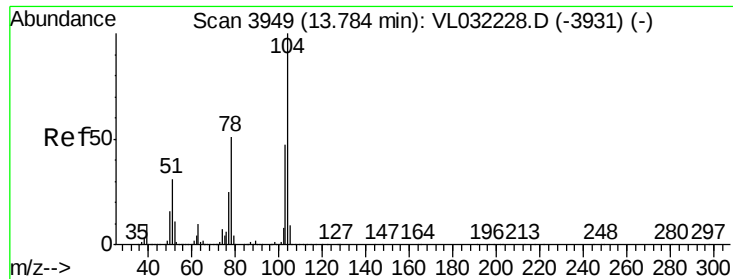
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#60
o-Xylene
Concen: 9.40 ppbv
RT: 13.95 min Scan# 4000
Delta R.T. -0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Tgt Ion: 91 Resp: 5437616
Ion Ratio Lower Upper
91 100
106 43.9 21.9 65.5





#61

Stvrene

Concen: 10.40 ppbv

RT: 13.78 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Instrument :

MSVOA_L

ClientSampleId :

VL0712ABS01

Tot Ion:104 Resp: 4507576

Ion Ratio Lower Upper

104 100

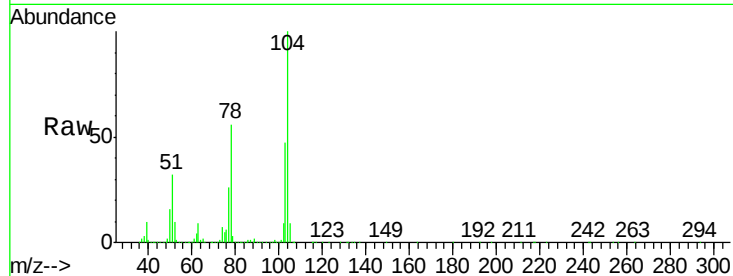
78 54.4 43.4 65.0

103 47.4 38.0 57.0

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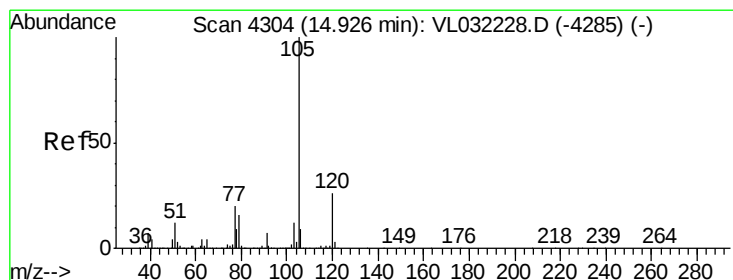
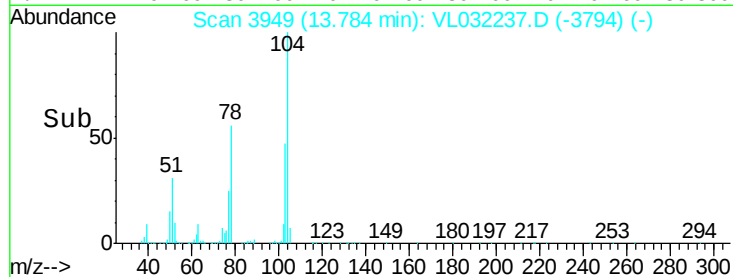
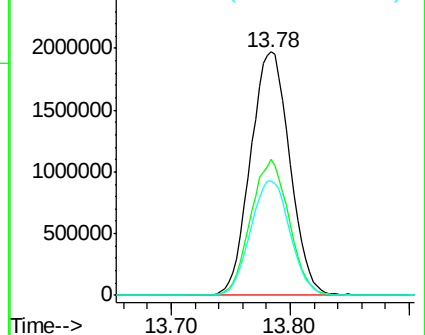
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.35 ppbv

RT: 14.93 min Scan# 4304

Delta R.T. -0.00 min

Lab File: VL032237.D

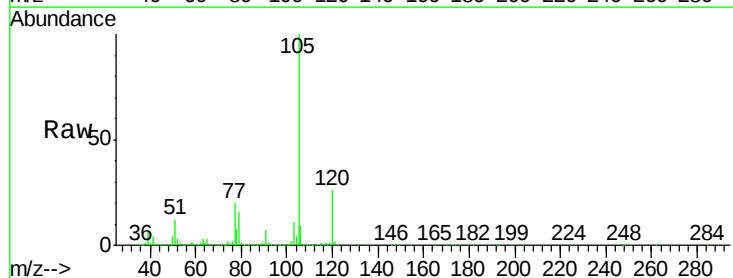
Acq: 13 Jul 2018 3:36

Tgt Ion:105 Resp: 7583403

Ion Ratio Lower Upper

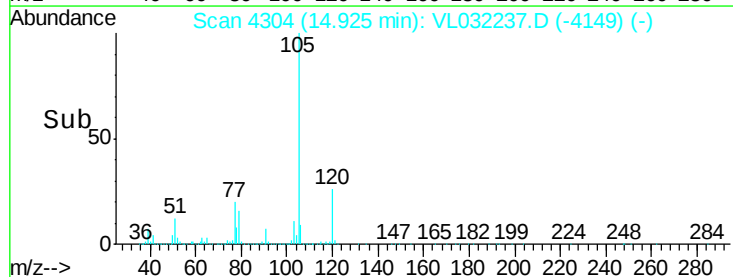
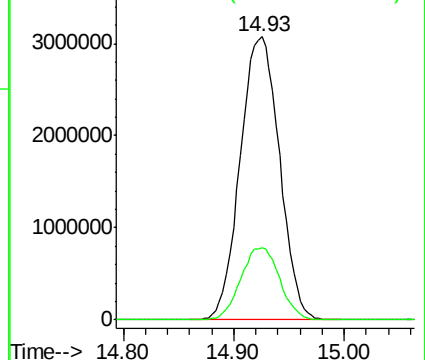
105 100

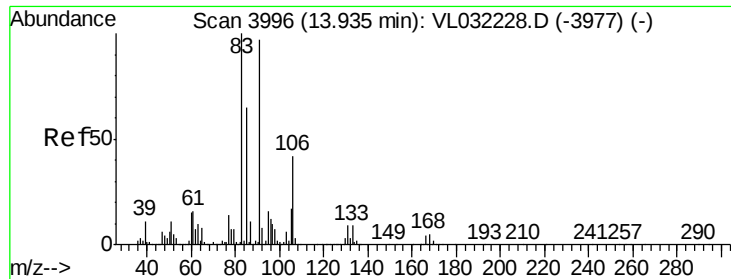
120 25.3 20.2 30.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





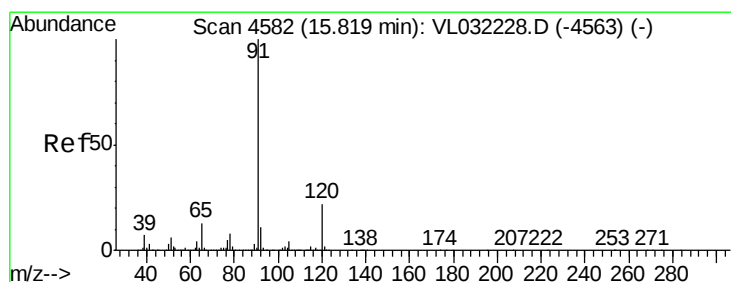
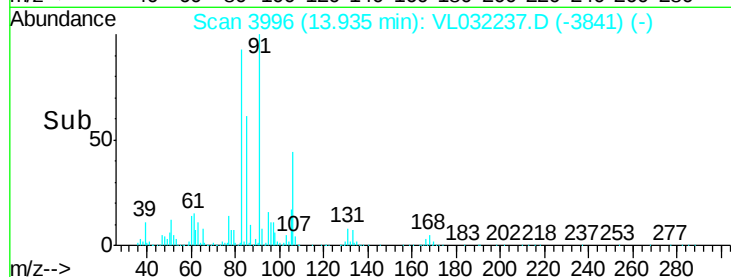
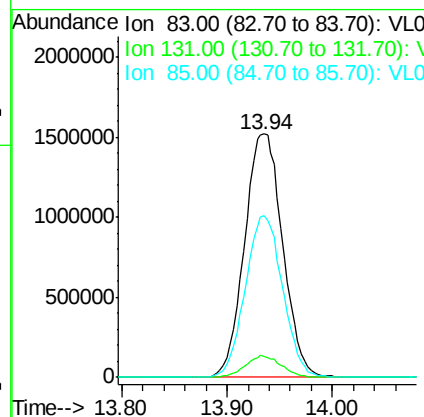
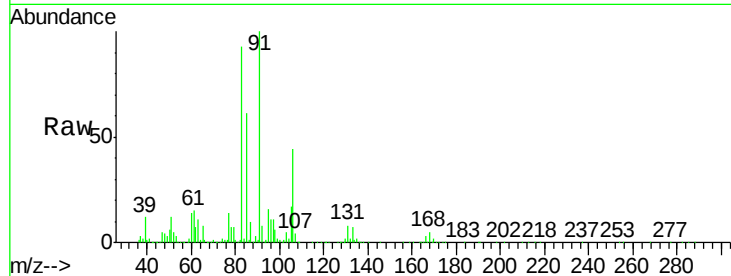
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.12 ppbv
 RT: 13.94 min Scan# 3996
 Delta R.T. -0.00 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0712ABS01

Tot Ion	Ratio	Lower	Upper
83	100		
131	8.4	4.3	12.8
85	65.0	32.5	97.5

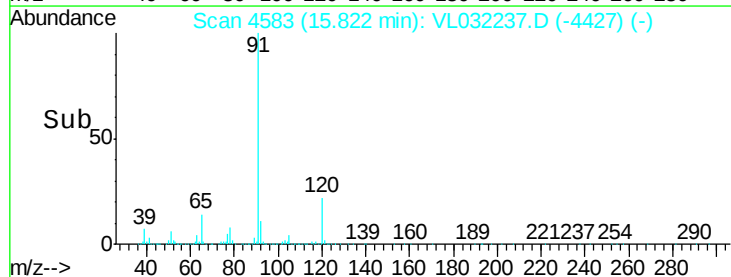
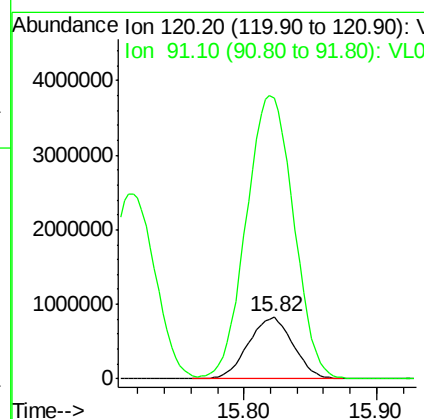
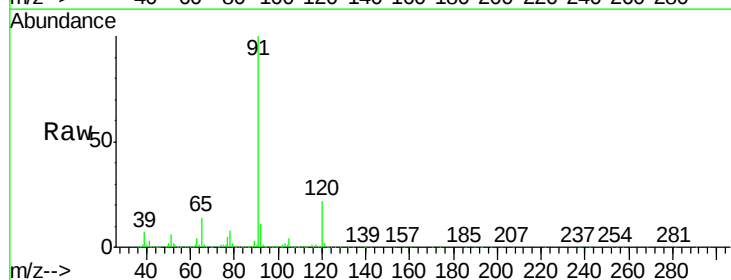
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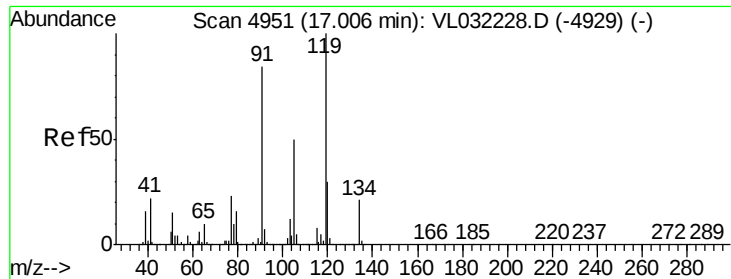
MMDadoda
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#64
 n-propylbenzene
 Concen: 9.46 ppbv
 RT: 15.82 min Scan# 4583
 Delta R.T. 0.00 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Tgt Ion	Ratio	Lower	Upper
120	100		
91	485.5	385.0	577.4





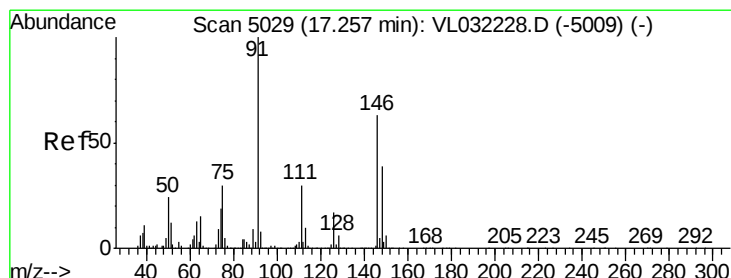
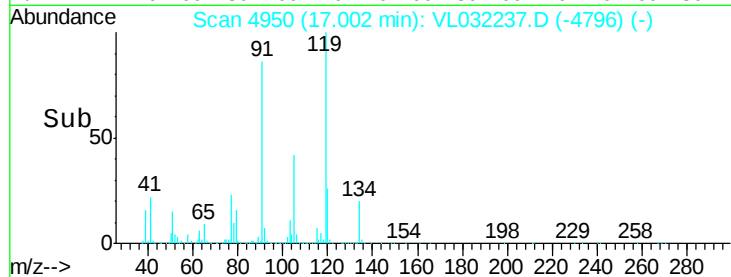
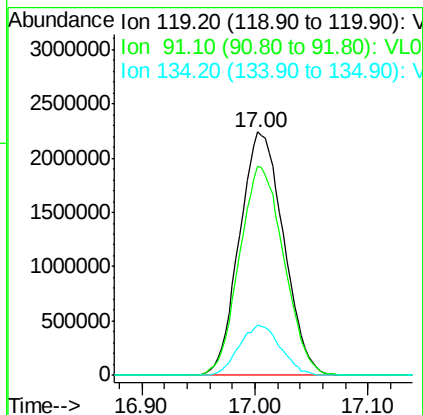
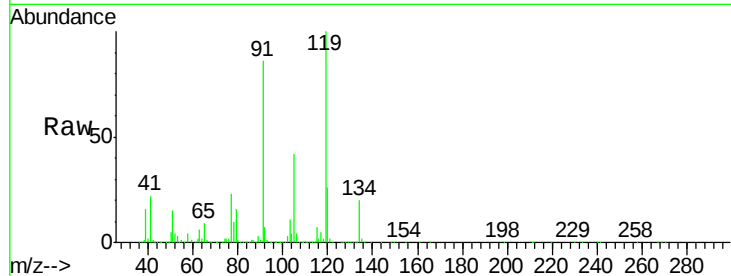
#65
tert-Butylbenzene
Concen: 8.94 ppbv
RT: 17.00 min Scan# 4950
Delta R.T. -0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Instrument :
MSVOA_L
ClientSampleId :
VL0712ABS01

Tot Ion: 119 Resp: 6075532
Ion Ratio Lower Upper
119 100
91 86.4 68.6 102.8
134 19.4 15.4 23.2

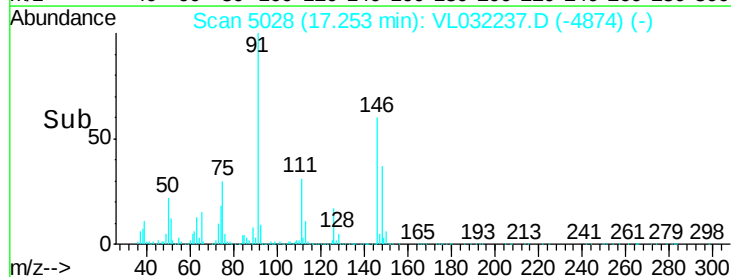
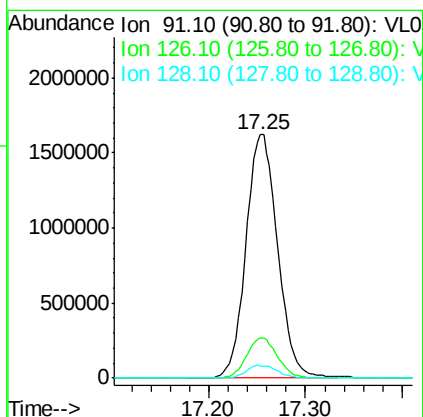
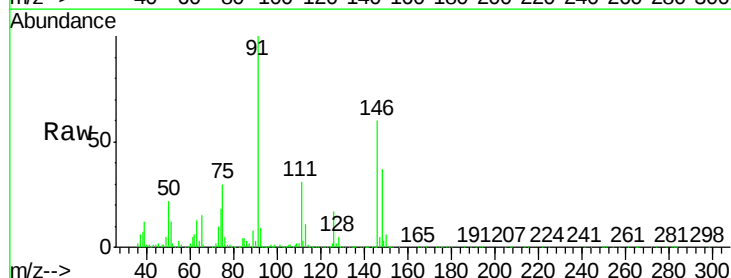
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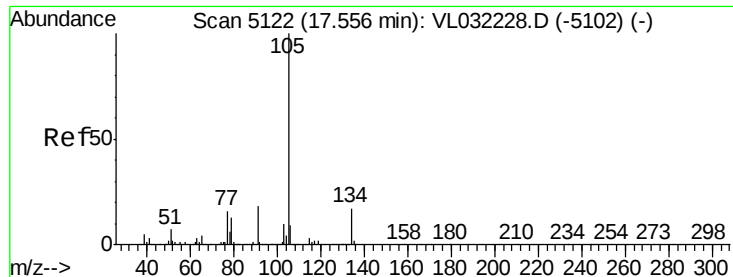
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#66
Benzyl Chloride
Concen: 10.70 ppbv
RT: 17.25 min Scan# 5028
Delta R.T. -0.00 min
Lab File: VL032237.D
Acq: 13 Jul 2018 3:36

Tgt Ion: 91 Resp: 3678305
Ion Ratio Lower Upper
91 100
126 16.3 13.4 20.0
128 5.2 4.5 6.7





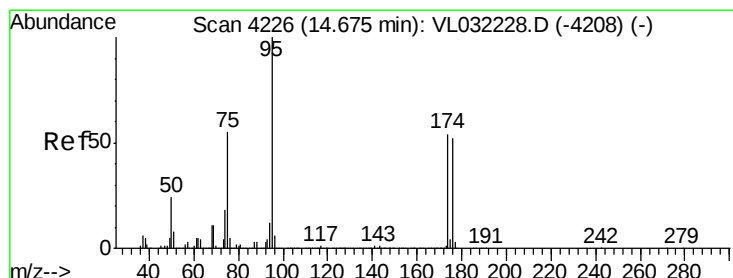
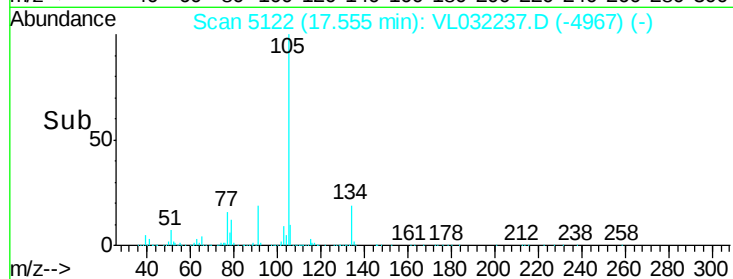
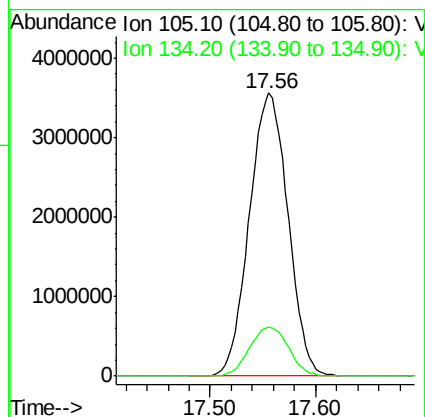
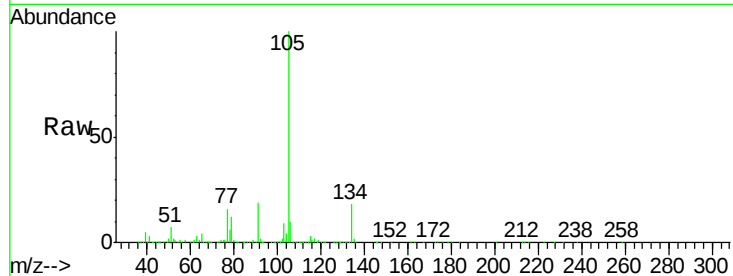
#67
 sec-Butylbenzene
 Concen: 9.15 ppbv
 RT: 17.56 min Scan# 5122
 Delta R.T. -0.00 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0712ABS01

Tot Ion: 105 Resp: 9084692
 Ion Ratio Lower Upper
 105 100
 134 17.7 14.2 21.2

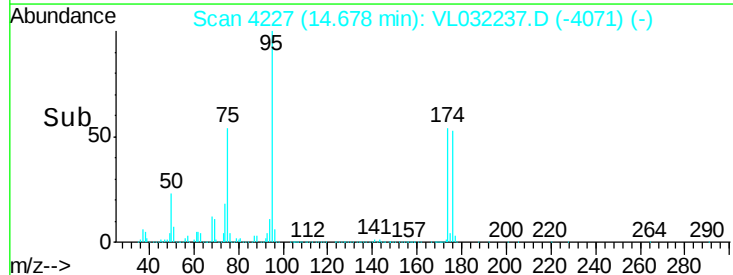
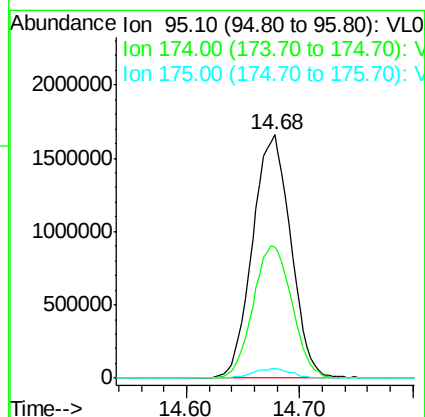
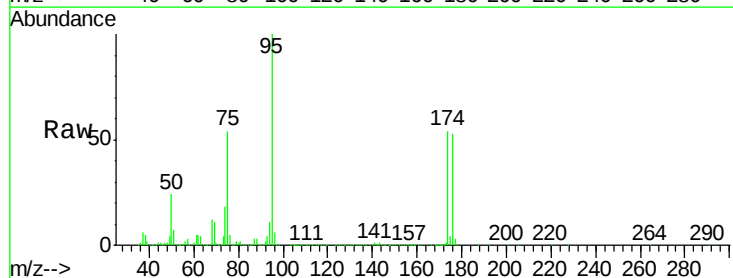
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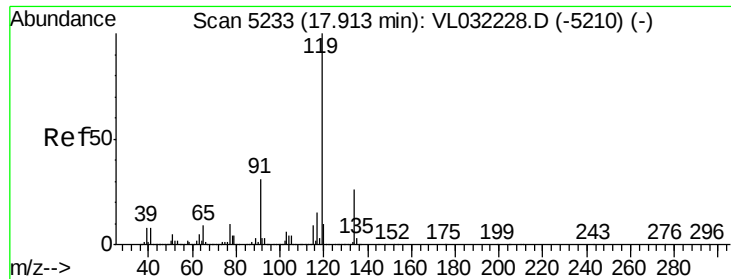
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.27 ppbv
 RT: 14.68 min Scan# 4227
 Delta R.T. 0.00 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Tgt Ion: 95 Resp: 3888464
 Ion Ratio Lower Upper
 95 100
 174 55.6 44.6 67.0
 175 3.9 3.3 4.9





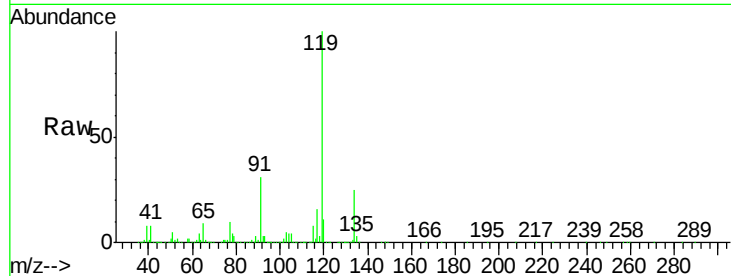
#69
 p-Isopropyltoluene
 Concen: 9.31 ppbv
 RT: 17.91 min Scan# 5232
 Delta R.T. -0.00 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0712ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.1	30.1
91	30.6	24.2	36.2

Manual Integrations
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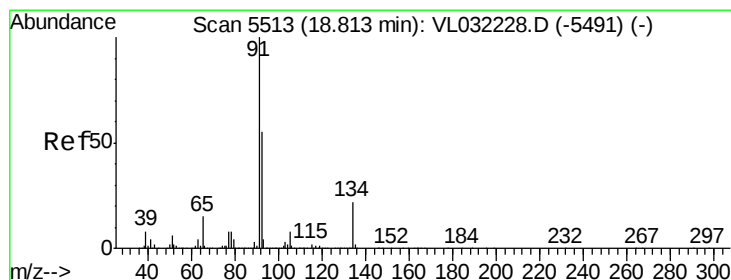
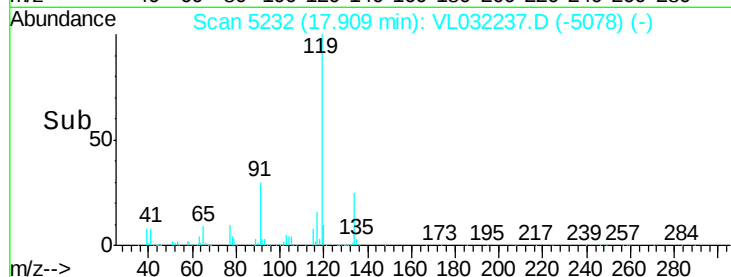
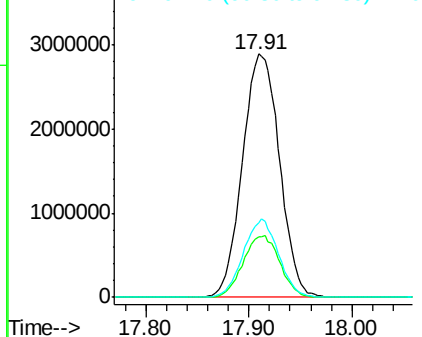


Abundance

Ion 119.10 (118.80 to 119.80): V

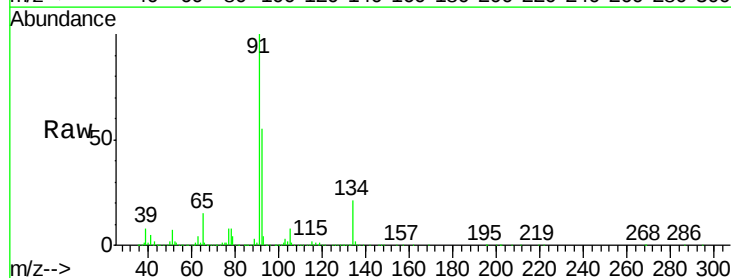
Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70
 n-Butylbenzene
 Concen: 9.23 ppbv
 RT: 18.81 min Scan# 5512
 Delta R.T. -0.00 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.6	43.6	65.4
134	21.1	17.1	25.7

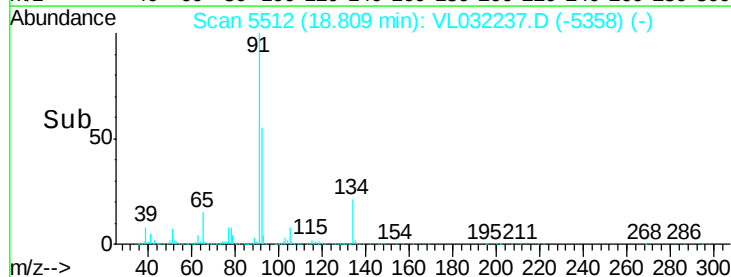
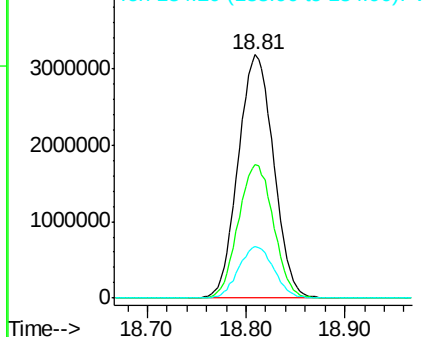


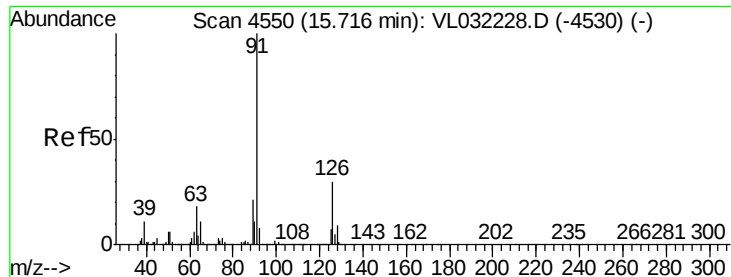
Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 9.41 ppbv

RT: 15.71 min Scan# 4549

Delta R.T. -0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Instrument :

MSVOA_L

ClientSampleId :

VL0712ABS01

Tot Ion: 91 Resp: 6007330

Ion Ratio Lower Upper

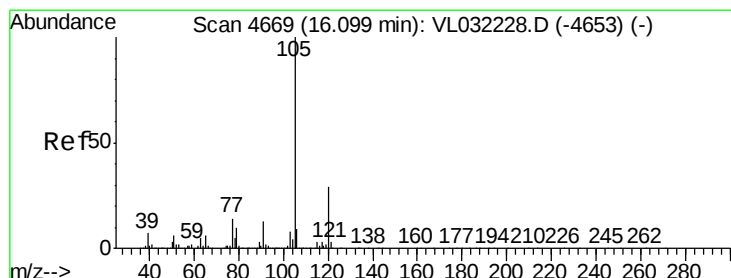
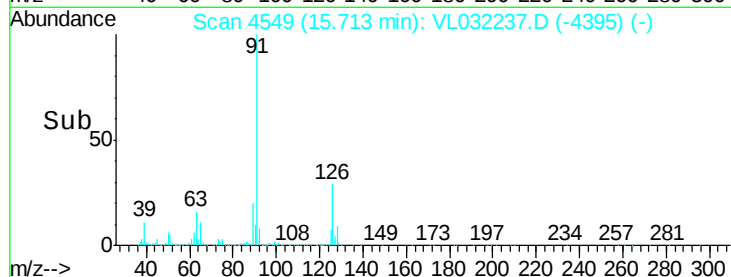
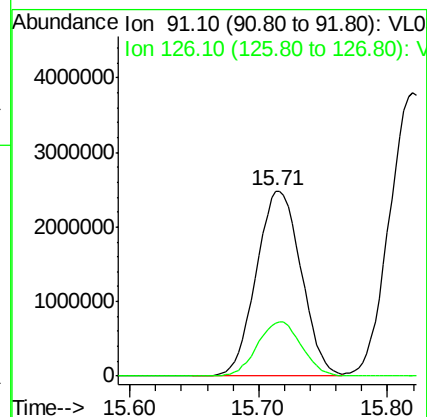
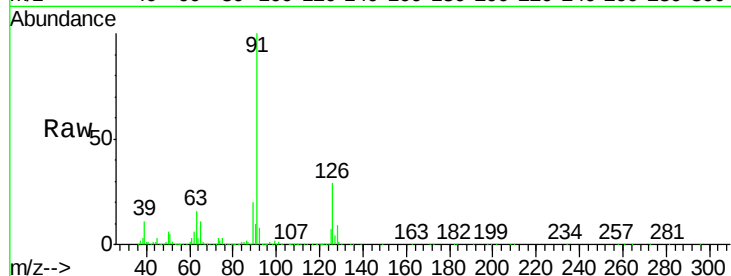
91 100

126 28.9 11.7 46.7

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#72

4-Ethyltoluene

Concen: 9.70 ppbv

RT: 16.10 min Scan# 4668

Delta R.T. -0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Tgt Ion: 105 Resp: 6297881

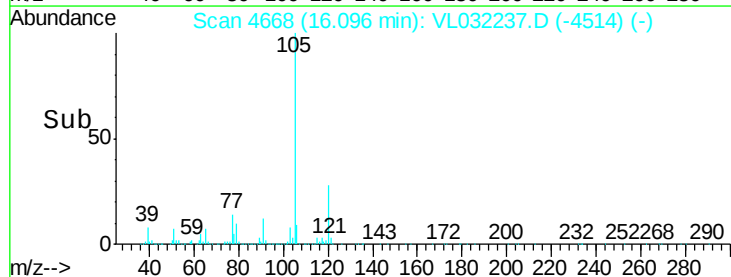
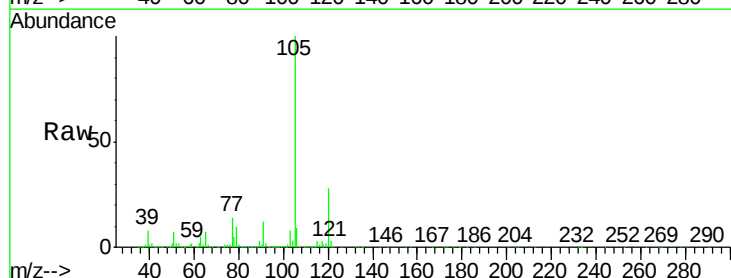
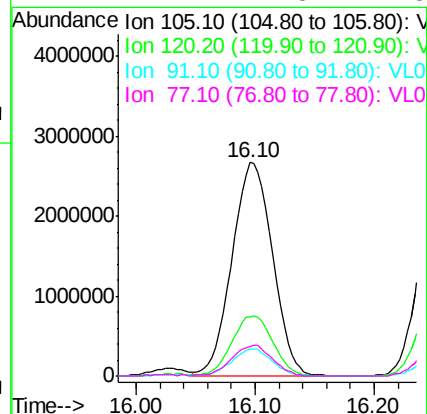
Ion Ratio Lower Upper

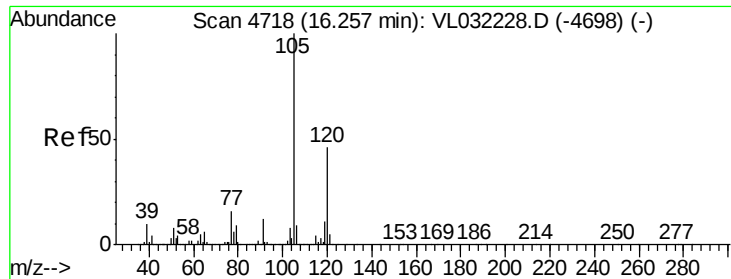
105 100

120 28.5 23.3 34.9

91 12.5 10.3 15.5

77 14.4 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 9.80 ppbv

RT: 16.26 min Scan# 4718

Delta R.T. -0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Instrument :

MSVOA_L

ClientSampleId :

VL0712ABS01

Tot Ion:105 Resp: 5916441

Ion Ratio Lower Upper

105 100

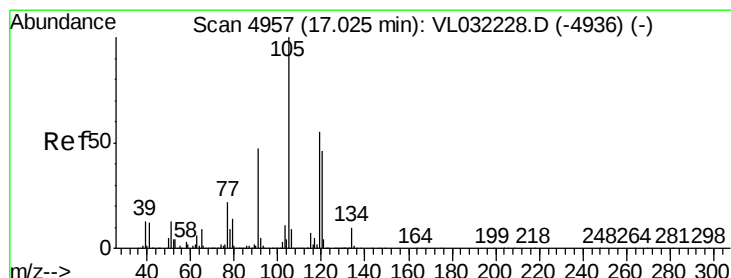
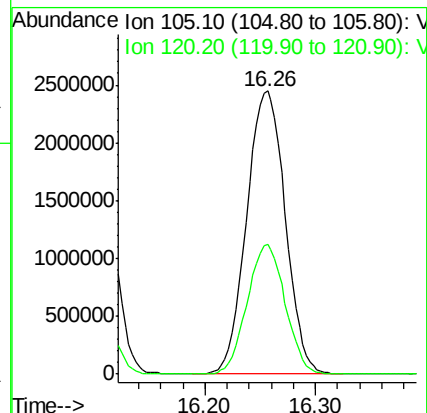
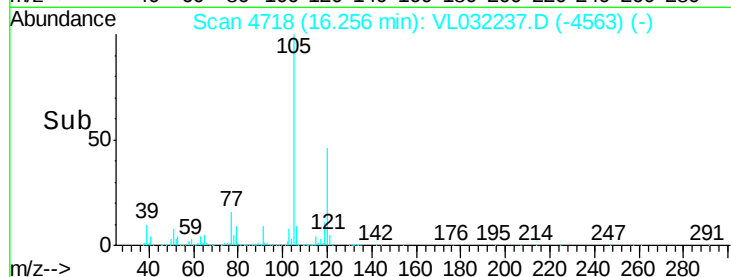
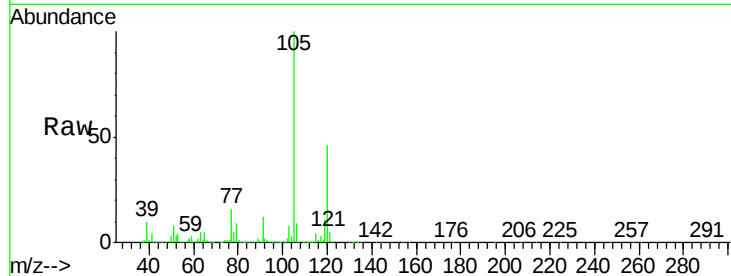
120 46.0 36.6 54.8

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#74

1,2,4-Trimethylbenzene

Concen: 9.23 ppbv

RT: 17.02 min Scan# 4957

Delta R.T. -0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Tgt Ion:105 Resp: 5695682

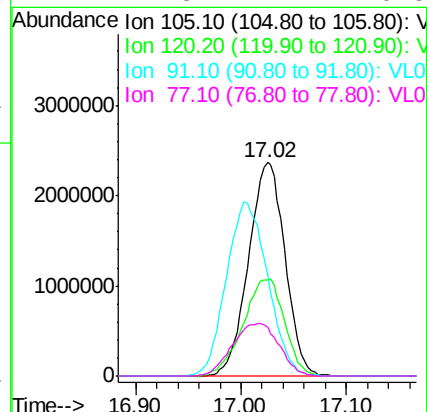
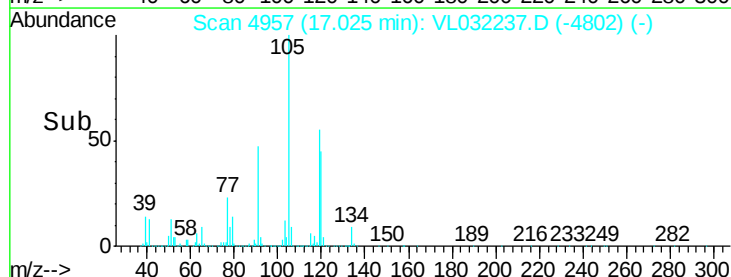
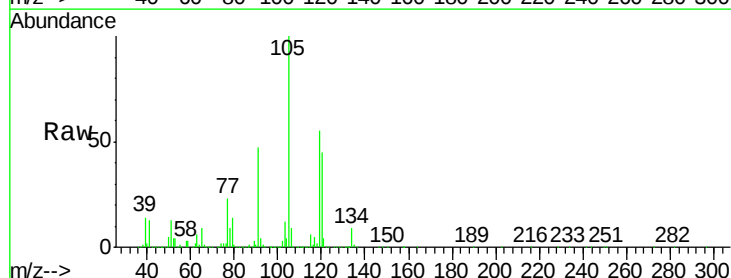
Ion Ratio Lower Upper

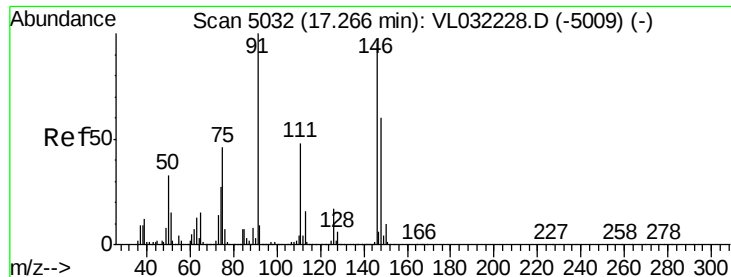
105 100

120 45.2 37.0 55.4

91 46.5 38.2 57.2

77 22.8 17.7 26.5





#75

1,3-Dichlorobenzene

Concen: 8.24 ppbv

RT: 17.27 min Scan# 5032

Delta R.T. -0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Instrument :

MSVOA_L

ClientSampleId :

VL0712ABS01

Tot Ion:146 Resp: 3033437

Ion Ratio Lower Upper

146 100

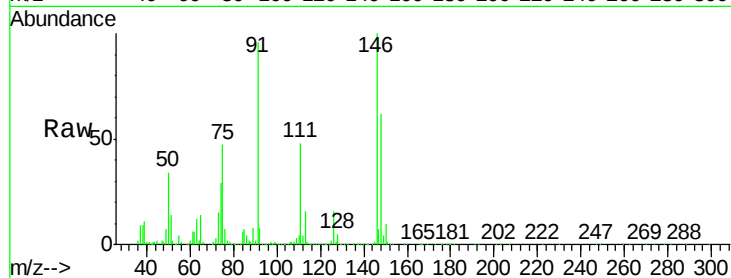
111 50.1 24.9 74.7

148 63.6 31.9 95.5

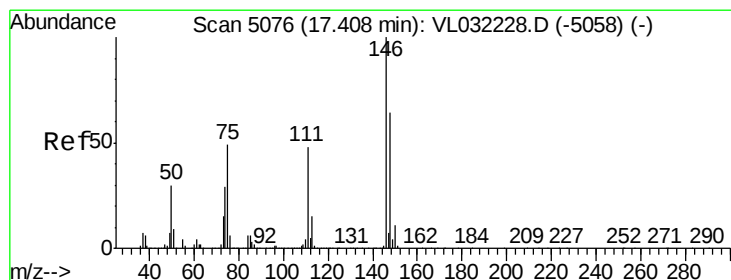
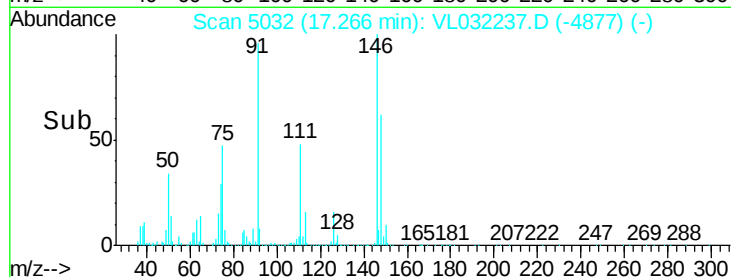
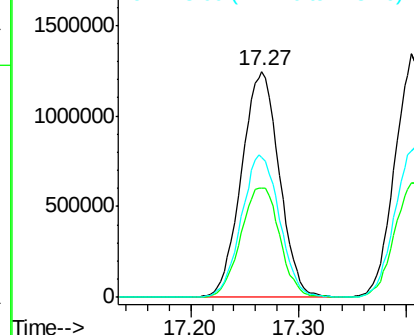
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.62 ppbv

RT: 17.40 min Scan# 5075

Delta R.T. -0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

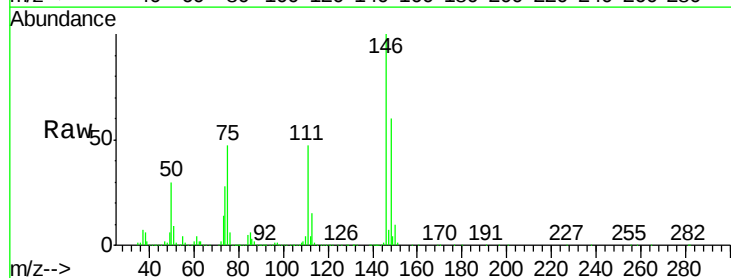
Tgt Ion:146 Resp: 3109376

Ion Ratio Lower Upper

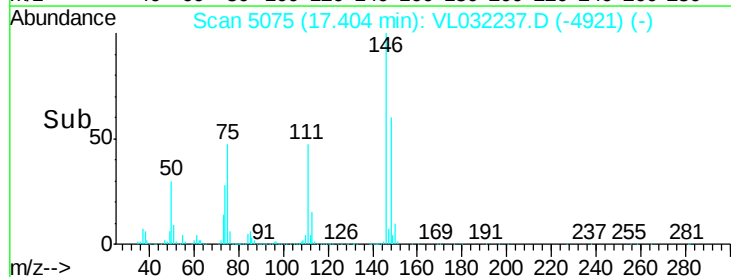
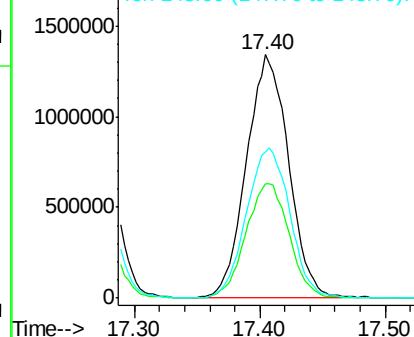
146 100

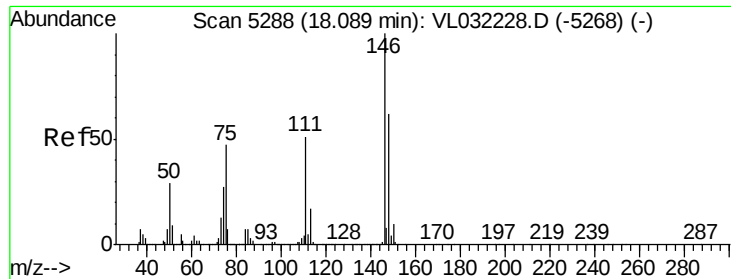
111 48.7 24.6 73.6

148 64.1 32.3 96.9



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





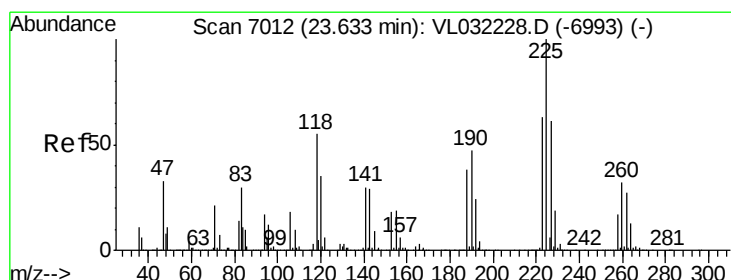
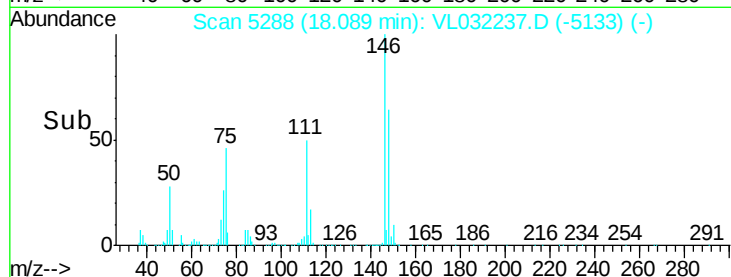
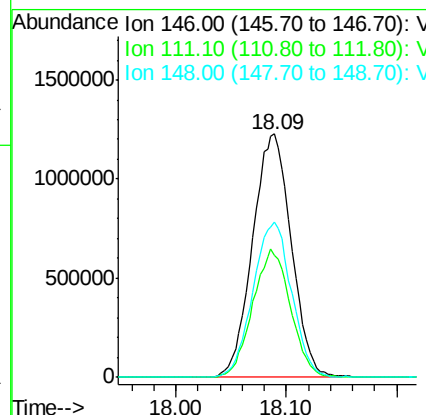
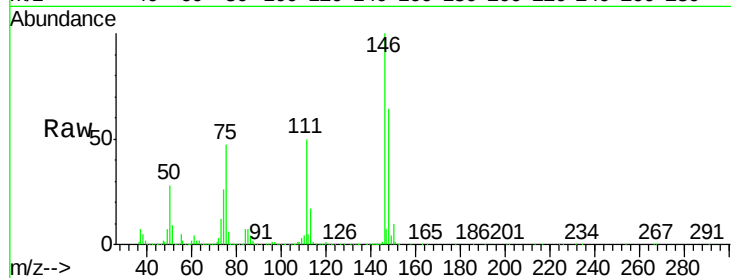
#77
 1,2-Dichlorobenzene
 Concen: 8.14 ppbv
 RT: 18.09 min Scan# 5288
 Delta R.T. -0.00 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0712ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.6	26.1	78.3
148	63.8	32.0	96.0

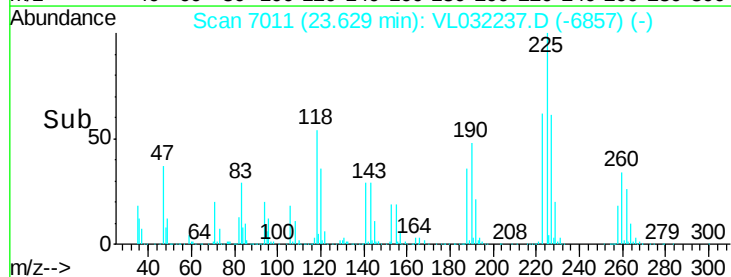
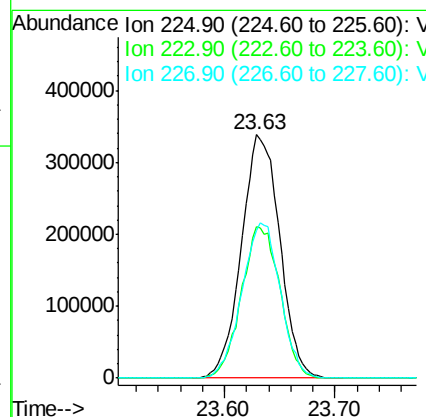
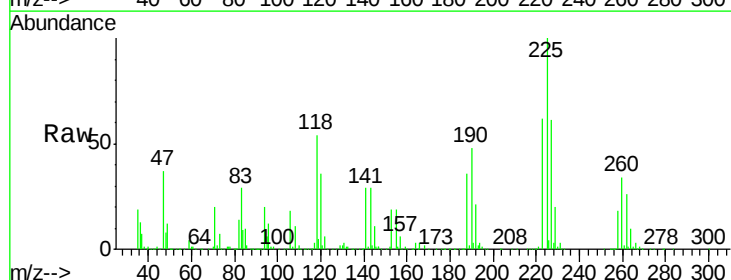
Manual Integrations
 APPROVED

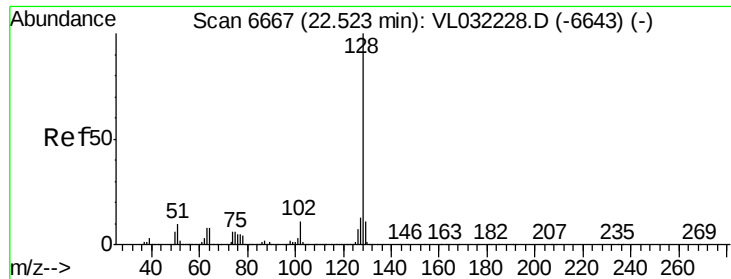
MMDadoda
 7/13/2018 5:22:17 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 7.16 ppbv
 RT: 23.63 min Scan# 7011
 Delta R.T. -0.00 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.3	75.5
227	64.0	50.9	76.3





#79

Naphthalene

Concen: 11.07 ppbv

RT: 22.52 min Scan# 6667

Delta R.T. -0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

Instrument :

MSVOA_L

ClientSampleId :

VL0712ABS01

Tot Ion:128 Resp: 4587083

Ion Ratio Lower Upper

128 100

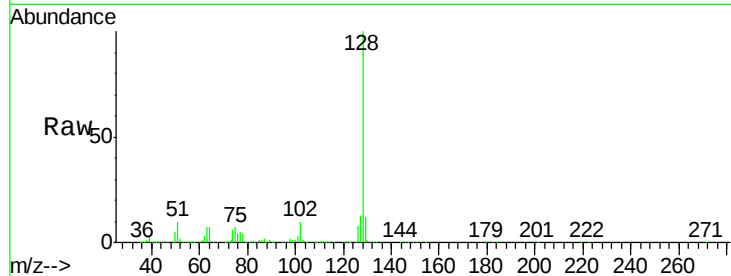
127 13.1 10.0 15.0

129 11.8 9.0 13.4

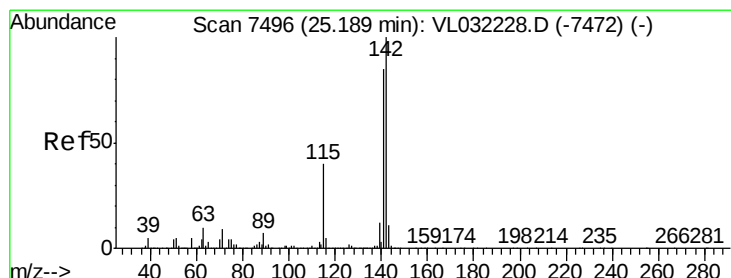
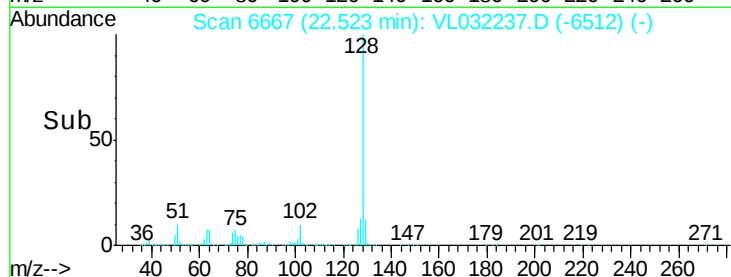
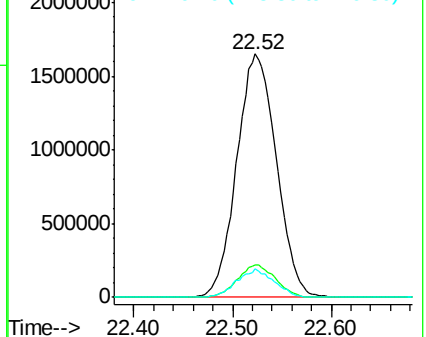
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 18.51 ppbv

RT: 25.19 min Scan# 7496

Delta R.T. -0.00 min

Lab File: VL032237.D

Acq: 13 Jul 2018 3:36

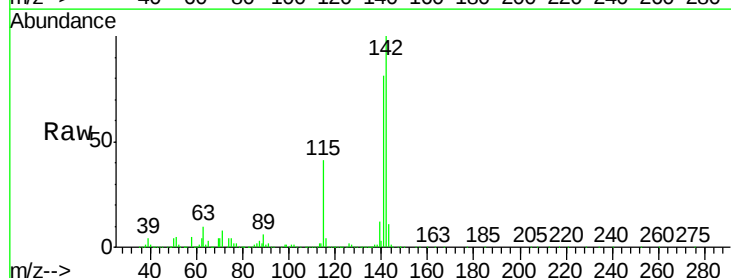
Tgt Ion:142 Resp: 2449934

Ion Ratio Lower Upper

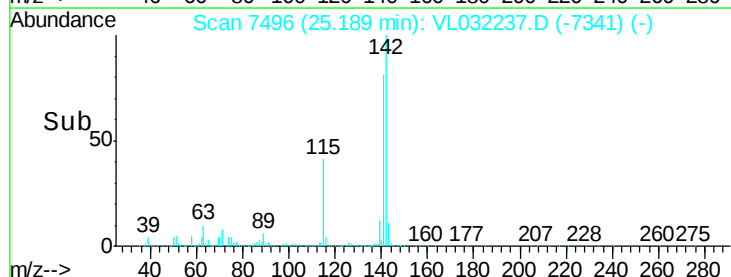
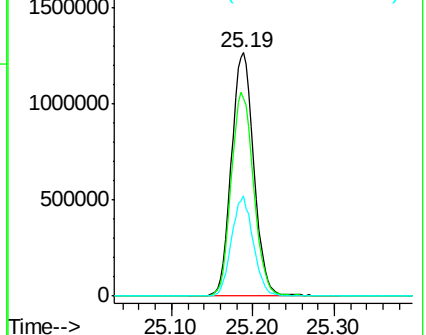
142 100

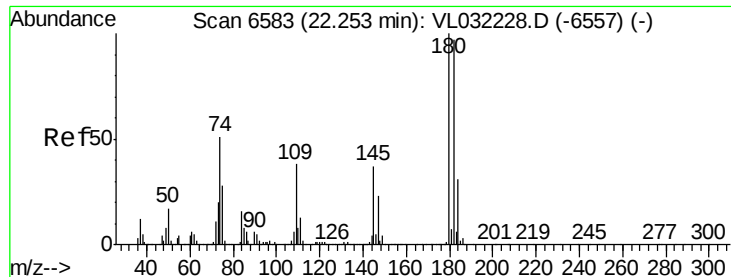
141 83.9 67.0 100.6

115 39.8 32.6 49.0



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: 10.44 ppbv
 RT: 22.25 min Scan# 6581
 Delta R.T. -0.01 min
 Lab File: VL032237.D
 Acq: 13 Jul 2018 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0712ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.1	114.1
184	30.3	24.2	36.4

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 5:22:17 PM

