

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL051618\
 Data File : VL032013.D
 Acq On : 17 May 2018 9:31
 Operator : SY/AP
 Sample : VL0516ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0516ABS01

Manual Integrations
 APPROVED

MMDadoda
 5/17/2018 3:34:18 PM

Quant Time: May 17 14:35:55 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 0
 QLast Update : Thu May 03 15:52:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.88	49	1299585	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.41	114	2496258	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.38	117	2670603m	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.71	95	2009132	9.70	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.15	85	977503	5.69	ppbv	97
3) Chlorodifluoromethane	3.09	51	1151879	9.42	ppbv	97
4) Chloromethane	3.25	50	588390	9.13	ppbv	100
5) Vinyl Chloride	3.37	62	652420	8.97	ppbv	99
6) Bromomethane	3.60	94	447650	9.46	ppbv	96
7) Chloroethane	3.69	64	260572	9.42	ppbv #	88
8) Dichlorotetrafluoroethane	3.30	85	1524059	8.92	ppbv	98
9) Propene	3.11	41	429509	9.59	ppbv	99
10) Heptane	8.37	43	1447391	9.39	ppbv	98
11) Trichlorofluoromethane	4.10	101	1933336	9.33	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.65	101	1446325	9.91	ppbv	97
13) Ethanol	3.73	45	121979	7.29	ppbv #	100
14) Bromoethene	3.88	108	524454	9.72	ppbv	97
15) Acetone	3.99	43	1461372	7.95	ppbv	99
16) 1,3-Butadiene	3.44	39	585983	9.92	ppbv	98
17) tert-Butyl alcohol	4.45	59	698005	9.19	ppbv	99
18) 1,1-Dichloroethene	4.45	96	563898	8.81	ppbv	87
19) Isopropyl Alcohol	4.12	45	857206	8.63	ppbv	100
20) Methylene Chloride	4.50	84	557945	9.00	ppbv	99
21) Allyl Chloride	4.58	41	867657	8.28	ppbv	97
22) trans-1,2-Dichloroethene	5.07	96	668489	9.41	ppbv	93
23) Vinyl Acetate	5.26	43	1845803	8.79	ppbv	98
24) 1,1-Dichloroethane	5.20	63	1697207	8.66	ppbv	99
25) Ethyl Acetate	5.88	43	2885763	9.15	ppbv	100
26) Hexane	5.89	57	1363061	9.19	ppbv	99
27) Carbon Disulfide	4.72	76	1854301	11.16	ppbv	99
28) Methyl tert-Butyl Ether	5.22	73	1633506	8.96	ppbv	99
29) Chloroform	5.96	83	2220194	9.47	ppbv	99
30) Cyclohexane	7.37	84	901784	9.13	ppbv	98
31) cis-1,2-Dichloroethene	5.75	61	1280012	9.44	ppbv	98
32) 1,1,1-Trichloroethane	6.74	97	1875230	8.67	ppbv	99
34) 2-Butanone	5.43	43	1843699	8.95	ppbv	100
35) Carbon Tetrachloride	7.26	117	1949214	9.85	ppbv	97
36) Benzene	7.13	78	2210638	9.40	ppbv	99
37) 1,2-Dichloroethane	6.53	62	1787805	10.58	ppbv	98
38) Trichloroethene	8.09	130	907012	10.16	ppbv	99
39) 1,2-Dichloropropane	7.86	63	794667	9.71	ppbv	97
40) 1,4-Dioxane	8.08	88	356424	9.66	ppbv	93
41) Tetrahydrofuran	6.26	42	964389	10.75	ppbv	98
42) Bromodichloromethane	8.04	83	1919371	10.19	ppbv	98
43) Methyl Methacrylate	8.26	69	814970	10.28	ppbv	98

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL051618\
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 Misc : 400ml/MSVOA L
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Instrument :
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 ClientSampleId :
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Manual Integrations
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 5/17/2018 3:34:18 PM

Quant Time: May 17 14:35:55 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 15:52:13 2018
 QLast Update : Thu May 03 15:52:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.12	57	3773476	9.95	ppbv	100
45) t-1,3-Dichloropropene	9.55	75	1187136	11.30	ppbv	98
46) cis-1,3-Dichloropropene	8.96	75	1458197	11.24	ppbv	99
47) 1,1,2-Trichloroethane	9.75	97	959616	9.91	ppbv	97
48) Dibromochloromethane	10.59	129	1673057	10.77	ppbv	99
49) Bromoform	13.34	173	1342775	11.15	ppbv	99
50) 4-Methyl-2-Pentanone	9.00	43	1998205	10.27	ppbv	99
51) 2-Hexanone	10.40	43	1908266	10.78	ppbv #	99
52) Tetrachloroethene	11.51	164	850022	9.76	ppbv	96
53) Toluene	10.08	91	2674915	10.55	ppbv	100
54) 1,2-Dibromoethane	10.90	107	1465946	10.16	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.41	131	1158081	9.52	ppbv	99
57) Chlorobenzene	12.44	112	2084552	9.05	ppbv	99
58) Ethyl Benzene	13.00	91	3752038	9.81	ppbv	99
59) m/p-Xylene	13.28	91	6284802m	19.37	ppbv	
60) o-Xylene	13.99	91	3202538	9.84	ppbv	100
61) Styrene	13.82	104	721489	10.93	ppbv	100
62) Isopropylbenzene	14.96	105	3974010	9.55	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.97	83	2125832	9.19	ppbv	100
64) n-propylbenzene	15.86	120	987799	9.46	ppbv	98
65) tert-Butylbenzene	17.05	119	3511941	9.46	ppbv	100
66) Benzyl Chloride	17.30	91	340958	10.11	ppbv	99
67) sec-Butylbenzene	17.59	105	4963769	9.63	ppbv	100
69) p-Isopropyltoluene	17.95	119	4022713	9.71	ppbv	99
70) n-Butylbenzene	18.85	91	4201975	9.81	ppbv	99
71) 2-Chlorotoluene	15.76	91	2966257	9.74	ppbv	100
72) 4-Ethyltoluene	16.14	105	3267700	9.89	ppbv	99
73) 1,3,5-Trimethylbenzene	16.29	105	2996517	9.81	ppbv	99
74) 1,2,4-Trimethylbenzene	17.06	105	3188524	9.43	ppbv	97
75) 1,3-Dichlorobenzene	17.30	146	1960164	9.40	ppbv	100
76) 1,4-Dichlorobenzene	17.45	146	1980023	9.59	ppbv	99
77) 1,2-Dichlorobenzene	18.13	146	1984326	9.45	ppbv	98
78) Hexachloro-1,3-Butadiene	23.67	225	674637	7.07	ppbv	99
79) Naphthalene	22.57	128	2263625	9.62	ppbv	98
80) Naphthalene, 2-methyl-	25.22	142	647606	11.54	ppbv	98
81) 1,2,4-Trichlorobenzene	22.30	180	1194108	9.15	ppbv	100

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

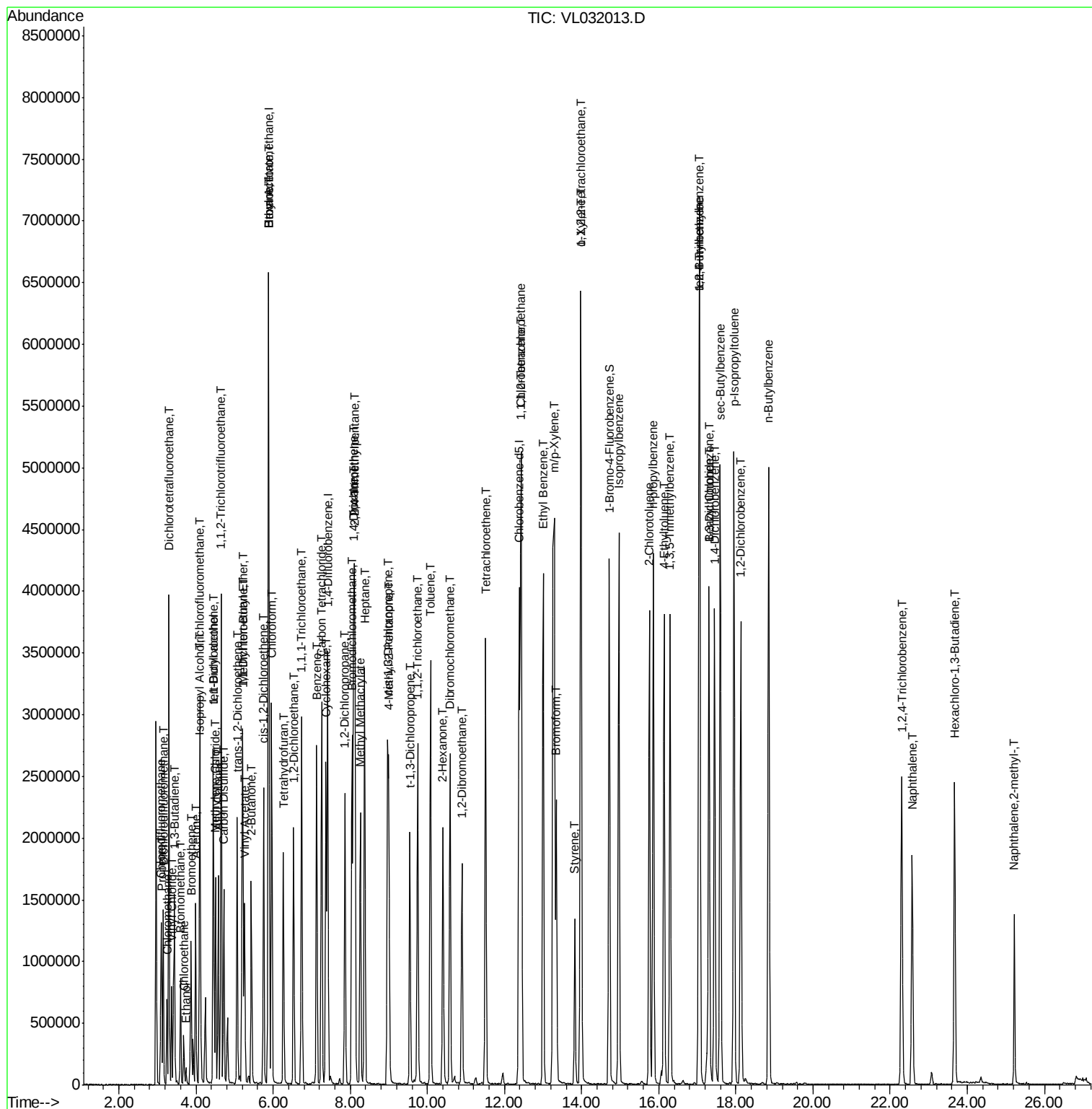
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL051618\
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Acq On : 17 May 2018 9:31
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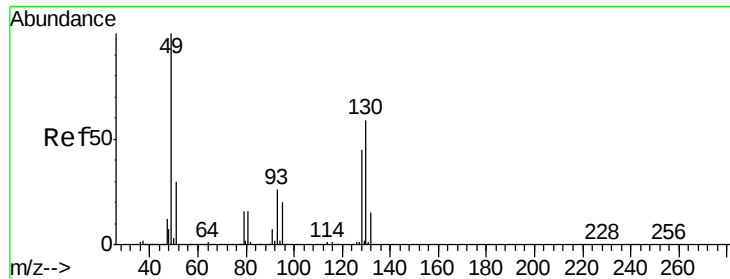
Instrument :
MSVOA_L
ClientSampleId :
VL0516ABS01

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Quant Time: May 17 14:35:55 2018
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May
QLast Update : Thu May 03 15:52:13 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.88 min Scan# 1490

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Instrument :

MSVOA_L

ClientSampleId :

VL0516ABS01

Tot Ion: 49 Resp: 1299585

Ion Ratio Lower Upper

49 100

128 48.4 24.1 72.3

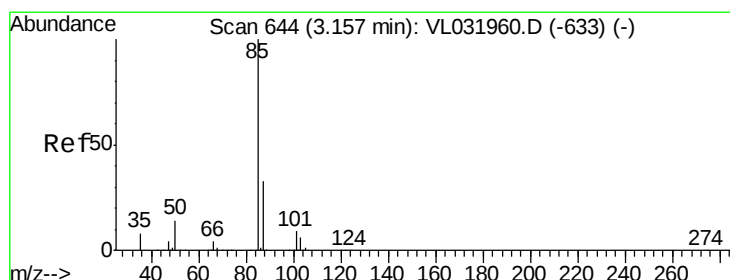
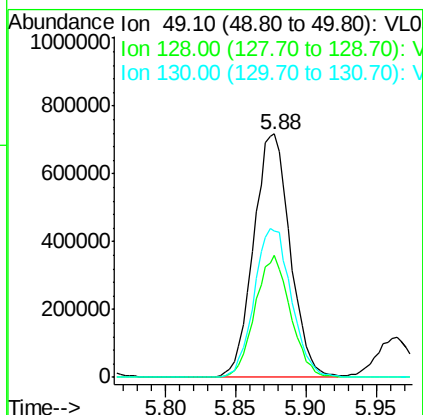
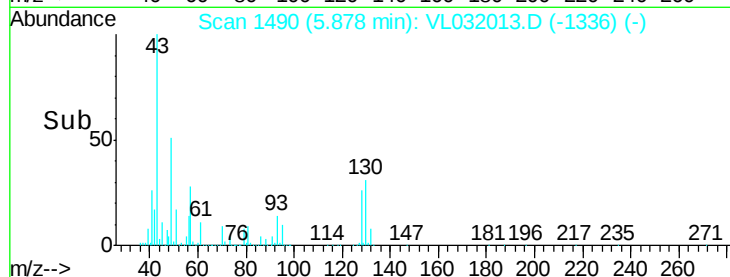
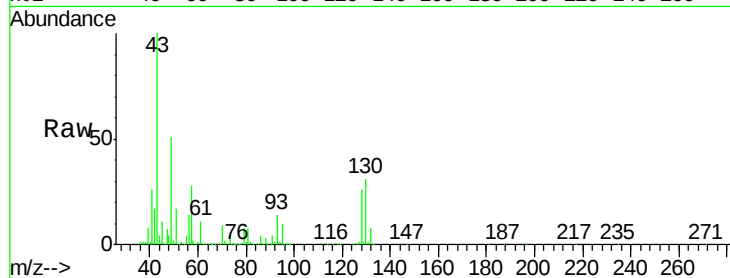
130 62.5 30.7 92.1

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 5.69 ppbv

RT: 3.15 min Scan# 643

Delta R.T. -0.00 min

Lab File: VL032013.D

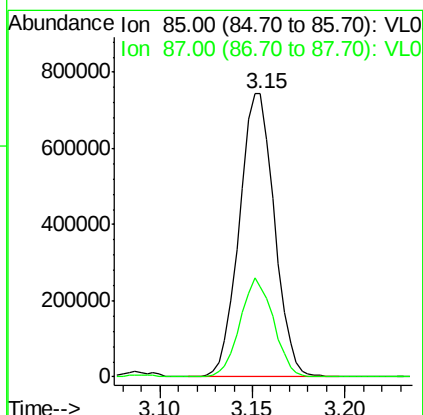
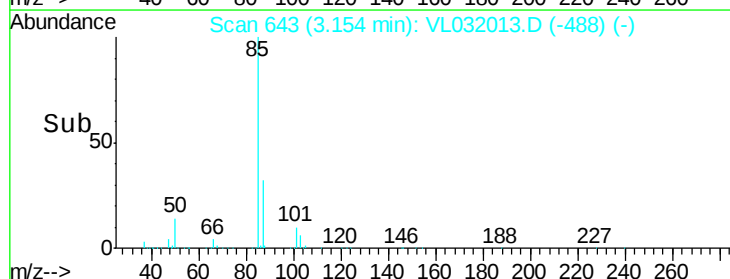
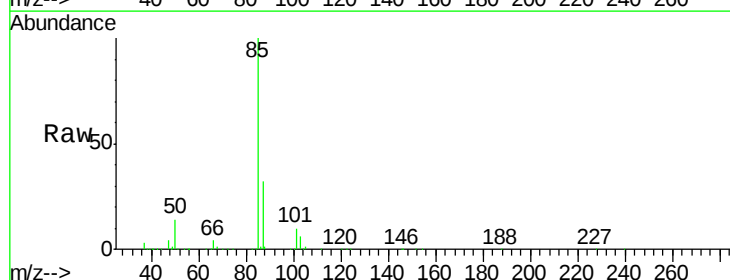
Acq: 17 May 2018 9:31

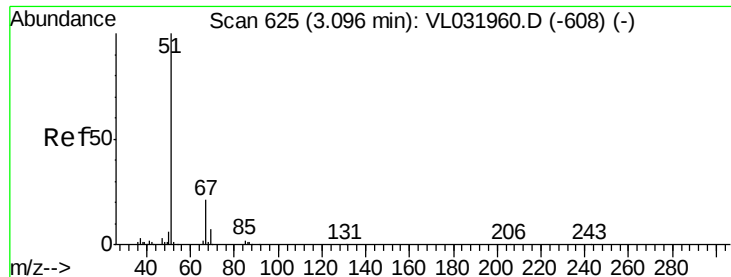
Tgt Ion: 85 Resp: 977503

Ion Ratio Lower Upper

85 100

87 31.8 26.8 40.2





#3

Chlorodifluoromethane

Concen: 9.42 ppbv

RT: 3.09 min Scan# 623

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Tot Ion: 51 Resp: 1151879

Ion Ratio Lower Upper

51 100

67 21.5 15.9 23.9

Instrument :

MSVOA_L

ClientSampleId :

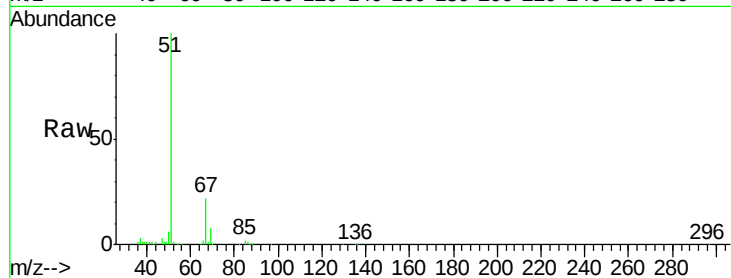
VL0516ABS01

Manual Integrations

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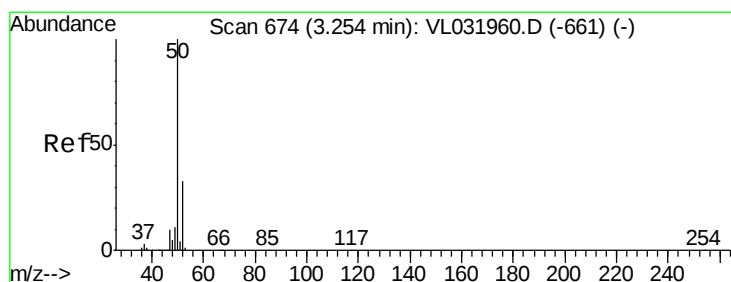
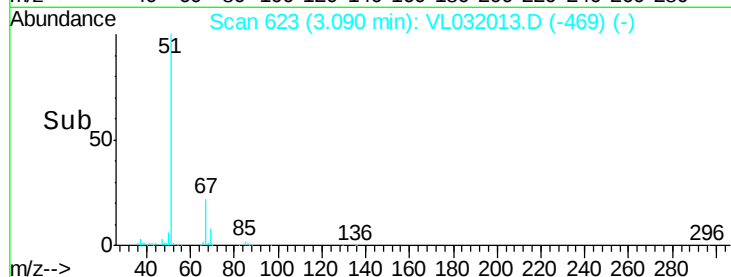
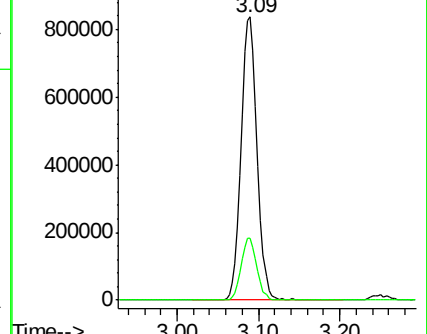
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.13 ppbv

RT: 3.25 min Scan# 672

Delta R.T. -0.01 min

Lab File: VL032013.D

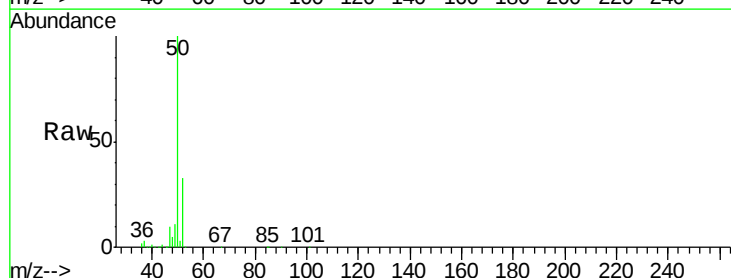
Acq: 17 May 2018 9:31

Tgt Ion: 50 Resp: 588390

Ion Ratio Lower Upper

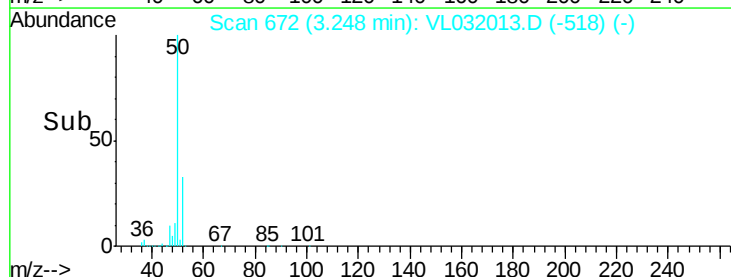
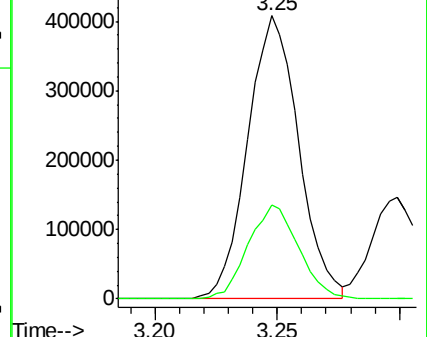
50 100

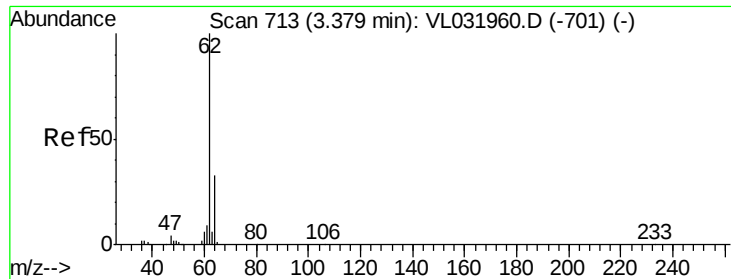
52 33.4 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.97 ppbv

RT: 3.37 min Scan# 710

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Instrument :

MSVOA_L

ClientSampleId :

VL0516ABS01

Tot Ion: 62 Resp: 652420

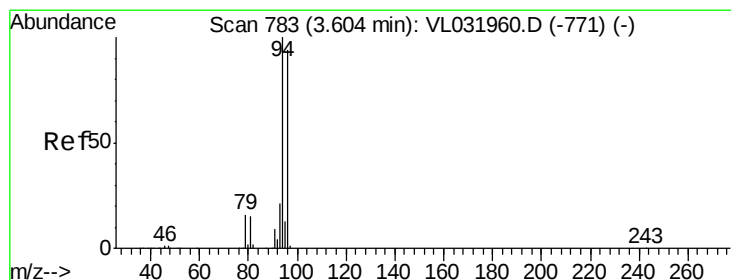
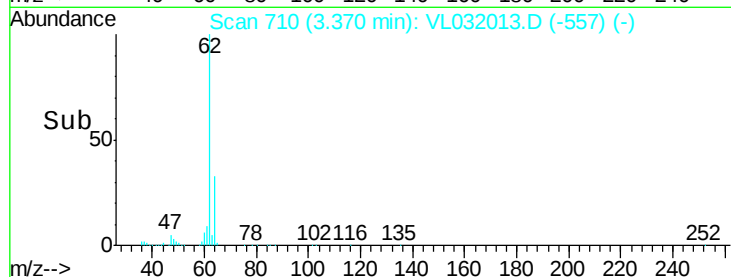
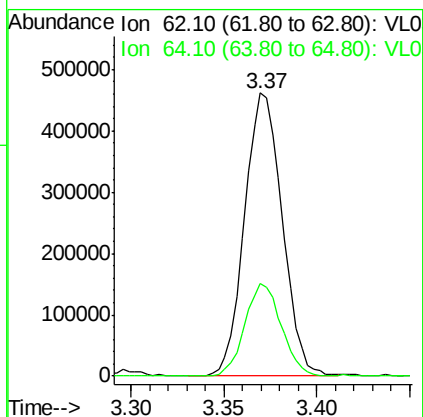
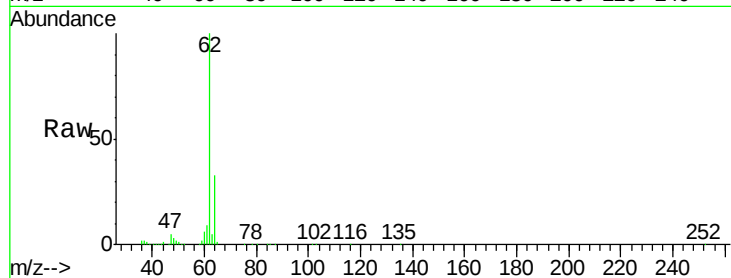
Ion Ratio Lower Upper

62 100

64 32.8 26.6 39.8

Manual Integrations
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#6

Bromomethane

Concen: 9.46 ppbv

RT: 3.60 min Scan# 781

Delta R.T. -0.01 min

Lab File: VL032013.D

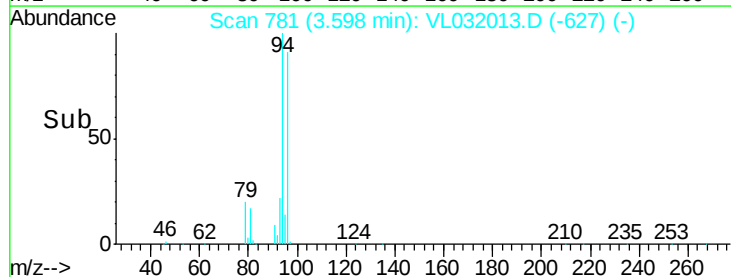
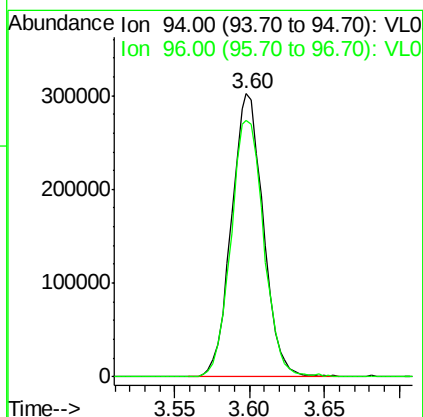
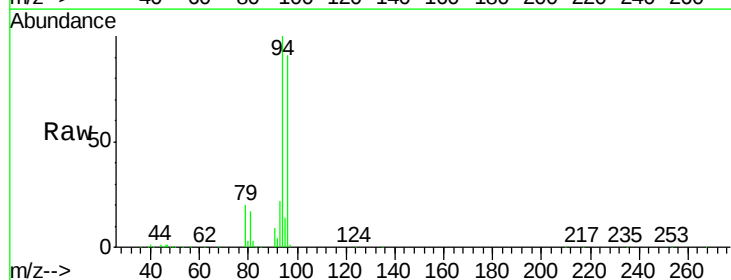
Acq: 17 May 2018 9:31

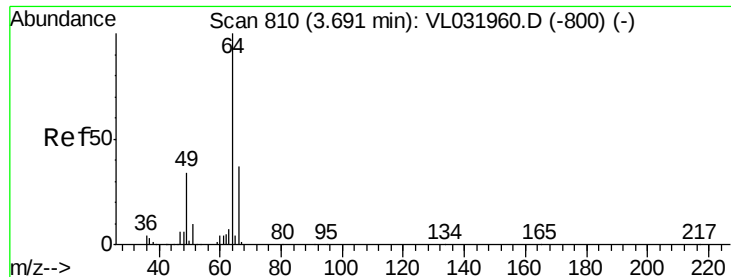
Tgt Ion: 94 Resp: 447650

Ion Ratio Lower Upper

94 100

96 90.8 75.5 113.3





#7

Chloroethane

Concen: 9.42 ppbv

RT: 3.69 min Scan# 809

Delta R.T. -0.00 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Instrument :

MSVOA_L

ClientSampleId :

VL0516ABS01

Tot Ion: 64 Resp: 260572

Ion Ratio Lower Upper

64 100

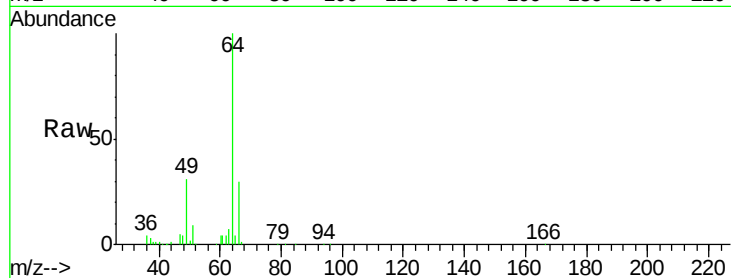
66 29.6 29.6 44.4#

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.69

200000

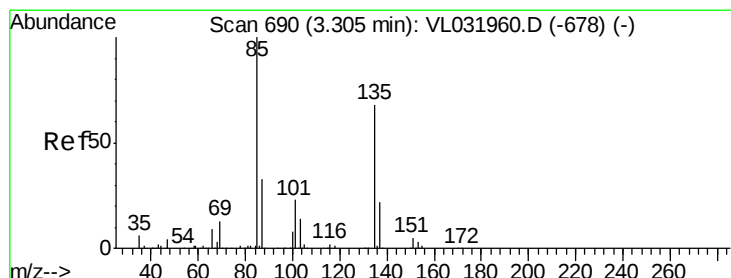
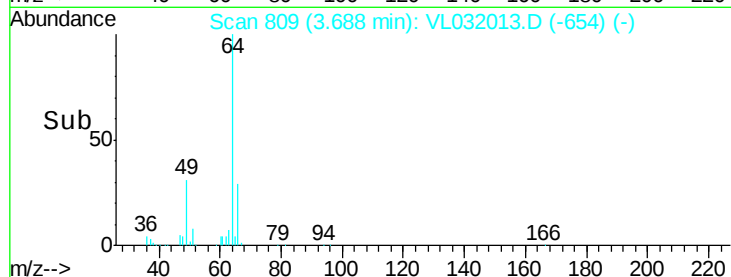
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.92 ppbv

RT: 3.30 min Scan# 688

Delta R.T. -0.01 min

Lab File: VL032013.D

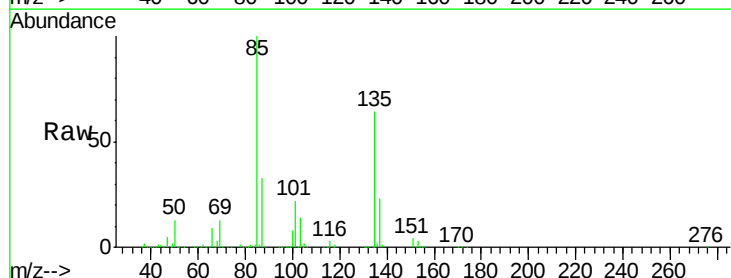
Acq: 17 May 2018 9:31

Tgt Ion: 85 Resp: 1524059

Ion Ratio Lower Upper

85 100

135 66.8 54.8 82.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

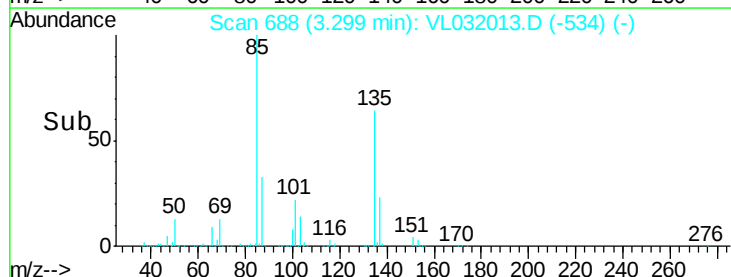
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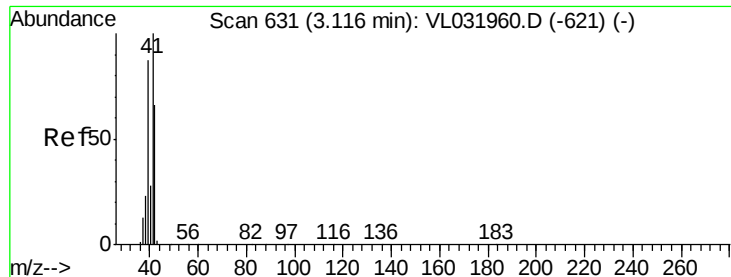
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500000

0

Time-->





#9

Propene

Concen: 9.59 ppbv

RT: 3.11 min Scan# 629

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Instrument :

MSVOA_L

ClientSampleId :

VL0516ABS01

Tot Ion: 41 Resp: 429509

Ion Ratio Lower Upper

41 100

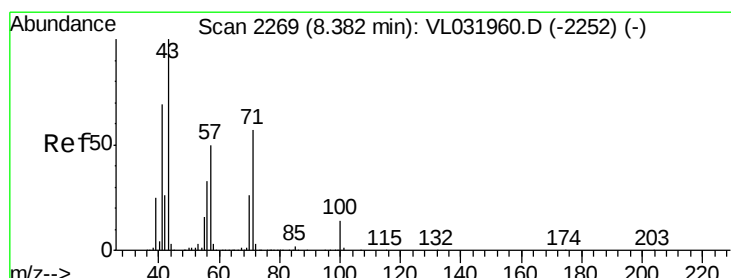
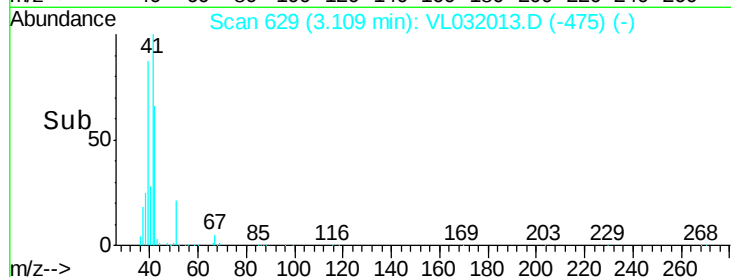
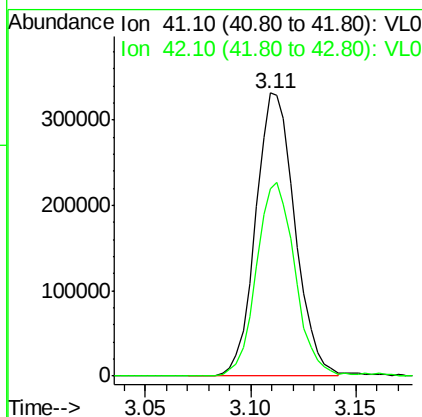
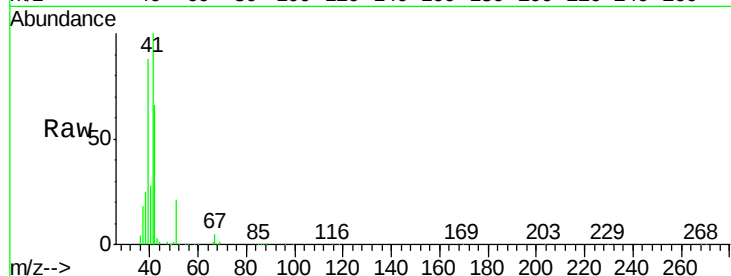
42 68.1 53.9 80.9

Manual Integrations

APPROVED

MMDadoda

5/17/2018 3:34:18 PM



#10

Heptane

Concen: 9.39 ppbv

RT: 8.37 min Scan# 2266

Delta R.T. -0.01 min

Lab File: VL032013.D

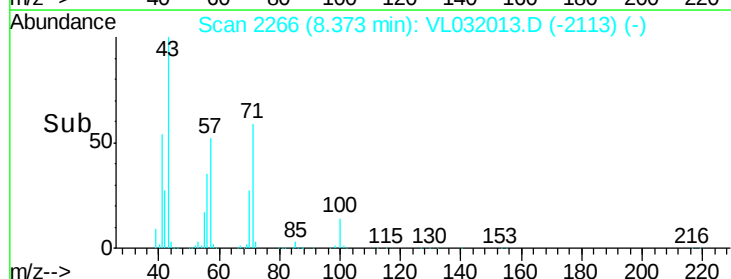
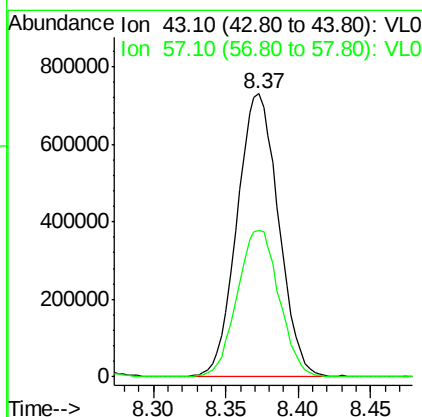
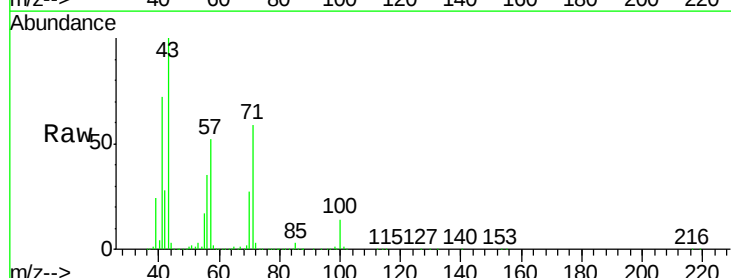
Acq: 17 May 2018 9:31

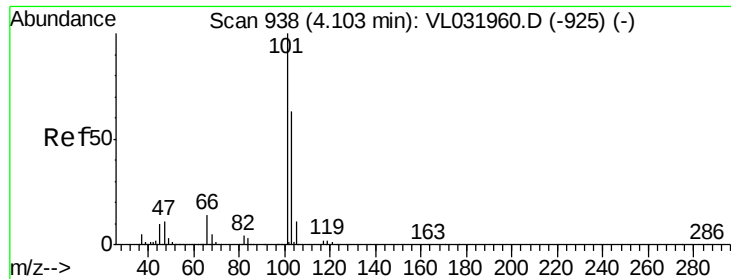
Tgt Ion: 43 Resp: 1447391

Ion Ratio Lower Upper

43 100

57 52.5 40.7 61.1





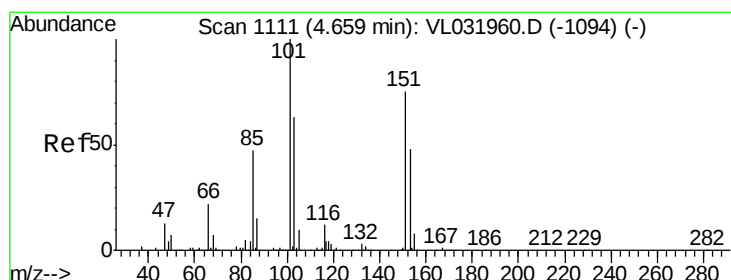
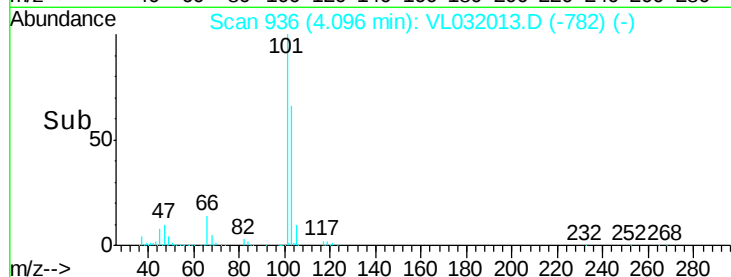
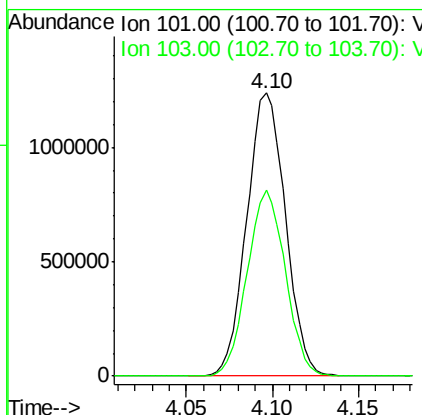
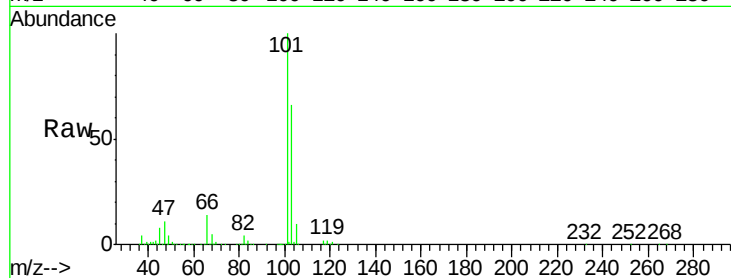
#11
 Trichlorofluoromethane
 Concen: 9.33 ppbv
 RT: 4.10 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VL032013.D
 Acq: 17 May 2018 9:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0516ABS01

Tot Ion:101 Resp: 1933336
 Ion Ratio Lower Upper
 101 100
 103 65.6 50.7 76.1

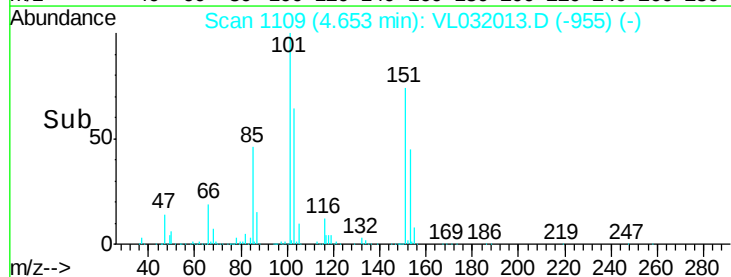
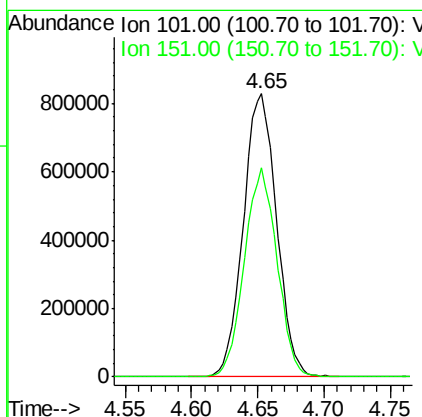
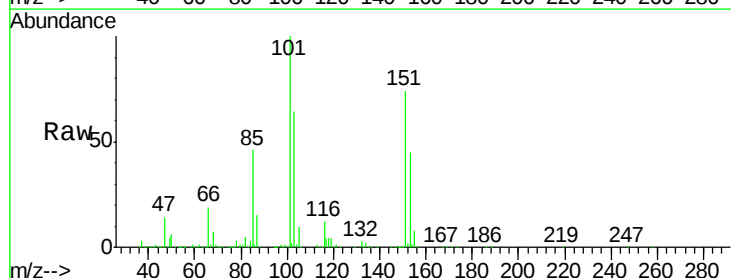
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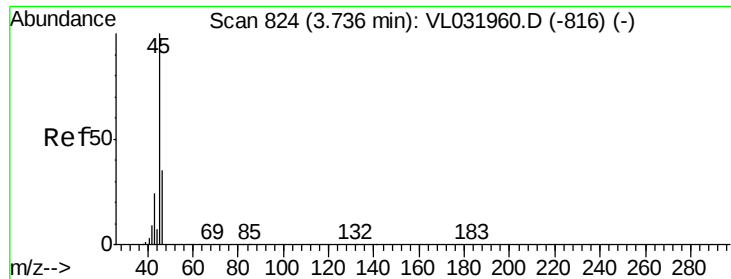
MMDadoda
 5/17/2018 3:34:18 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.91 ppbv
 RT: 4.65 min Scan# 1109
 Delta R.T. -0.01 min
 Lab File: VL032013.D
 Acq: 17 May 2018 9:31

Tgt Ion:101 Resp: 1446325
 Ion Ratio Lower Upper
 101 100
 151 72.7 60.2 90.2





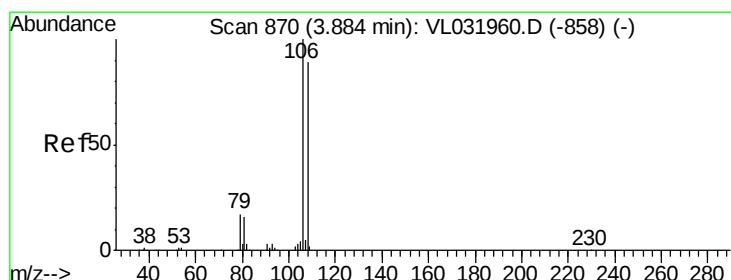
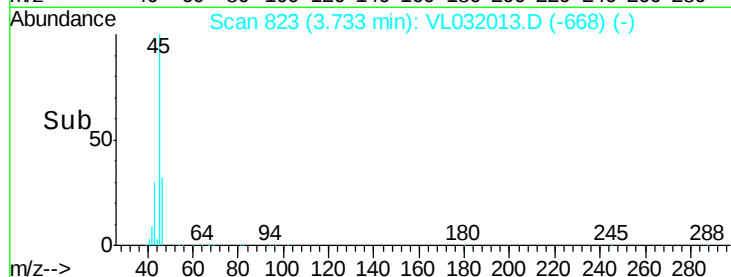
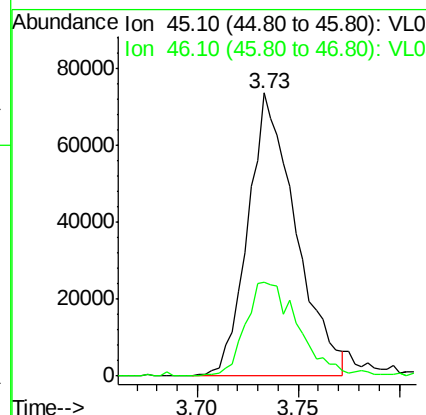
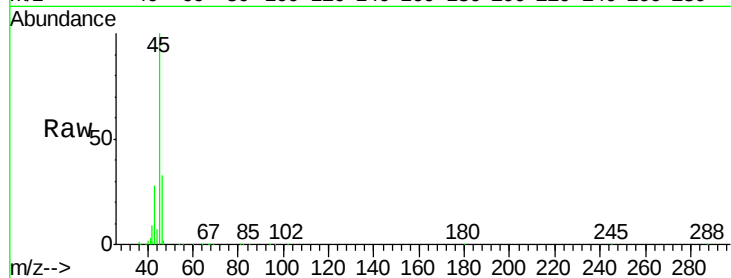
#13
Ethanol
Concen: 7.29 ppbv
RT: 3.73 min Scan# 823
Delta R.T. -0.00 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Instrument :
MSVOA_L
ClientSampleId :
VL0516ABS01

Tot Ion: 45 Resp: 121979
Ion Ratio Lower Upper
45 100
46 36.4 0.0 0.0#

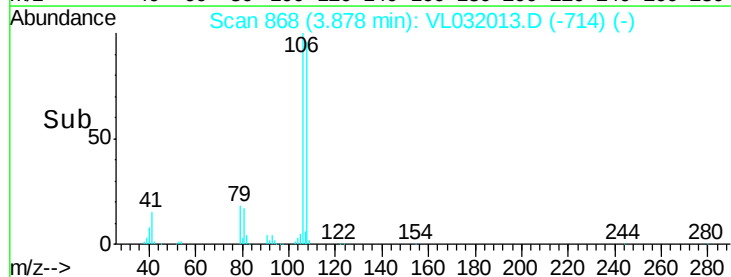
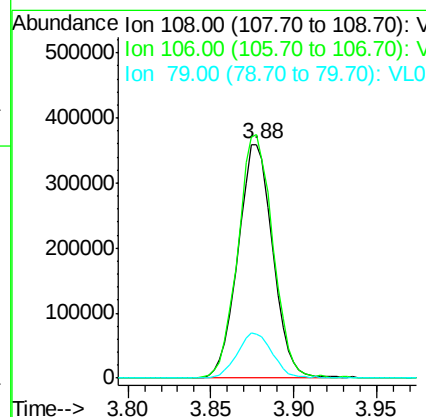
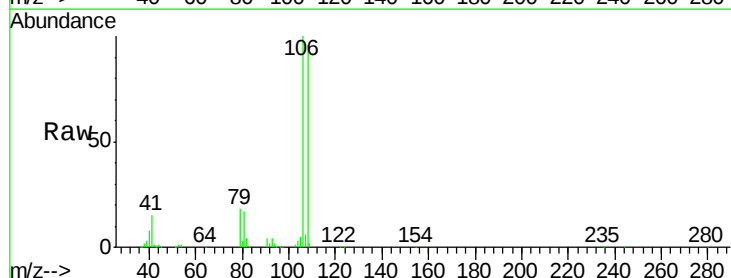
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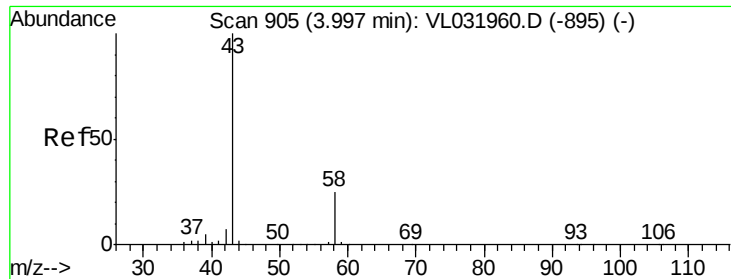
MMDadoda
5/17/2018 3:34:18 PM



#14
Bromoethene
Concen: 9.72 ppbv
RT: 3.88 min Scan# 868
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Tgt Ion: 108 Resp: 524454
Ion Ratio Lower Upper
108 100
106 105.6 86.8 130.2
79 20.0 14.7 22.1





#15

Acetone

Concen: 7.95 ppbv

RT: 3.99 min Scan# 903

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Instrument :

MSVOA_L

ClientSampleId :

VL0516ABS01

Tot Ion: 43 Resp: 1461372

Ion Ratio Lower Upper

43 100

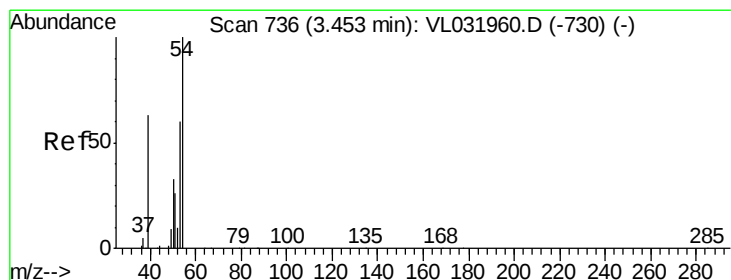
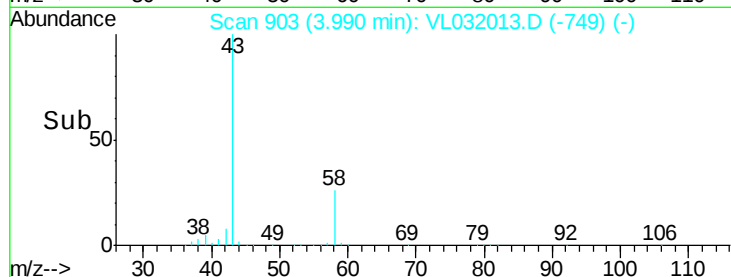
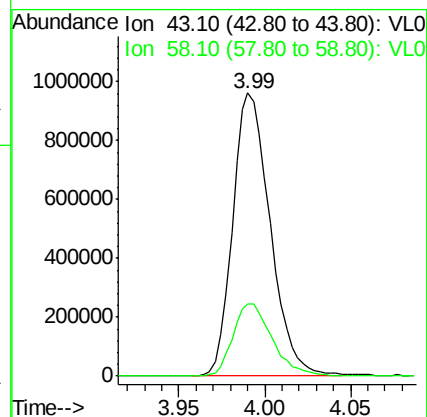
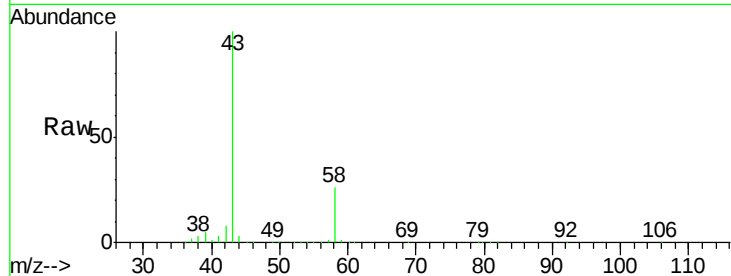
58 27.2 21.1 31.7

Manual Integrations

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#16

1,3-Butadiene

Concen: 9.92 ppbv

RT: 3.44 min Scan# 733

Delta R.T. -0.01 min

Lab File: VL032013.D

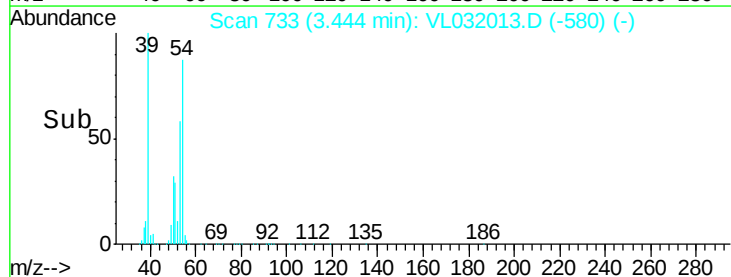
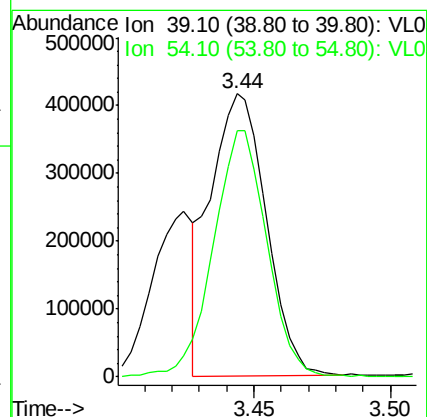
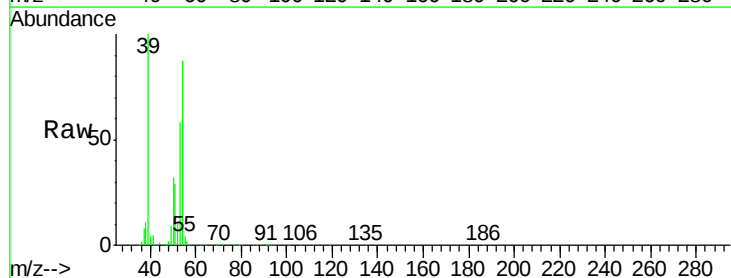
Acq: 17 May 2018 9:31

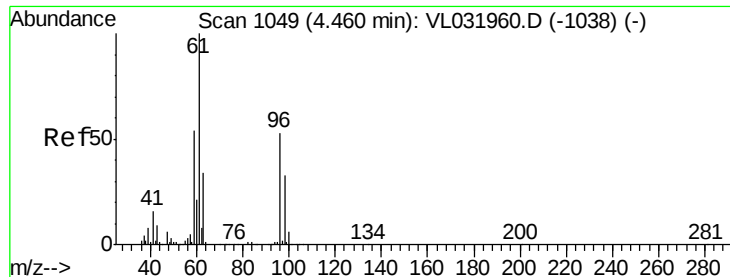
Tgt Ion: 39 Resp: 585983

Ion Ratio Lower Upper

39 100

54 84.9 66.2 99.2





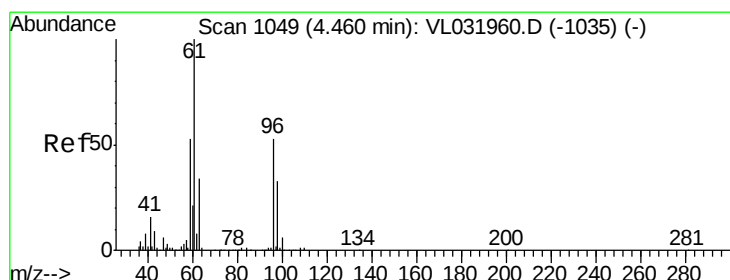
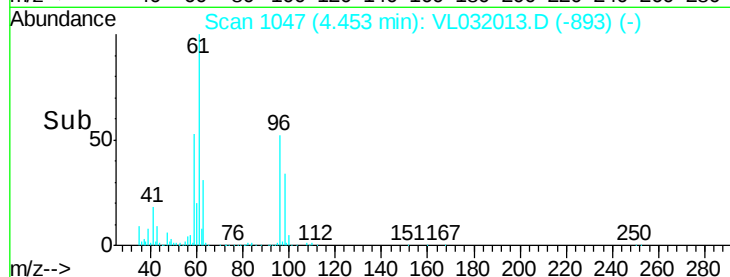
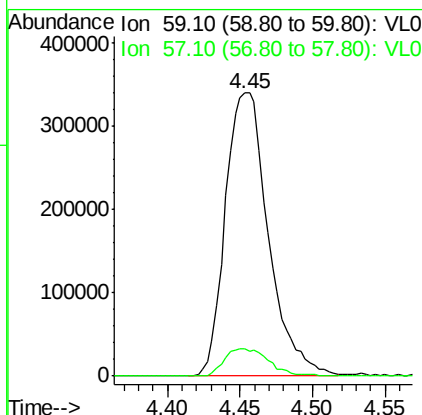
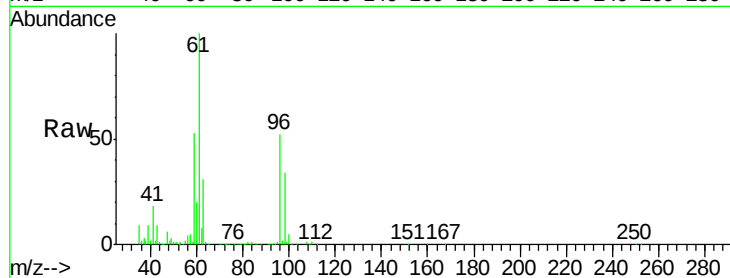
#17
tert-Butyl alcohol
Concen: 9.19 ppbv
RT: 4.45 min Scan# 1047
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Instrument :
MSVOA_L
ClientSampleId :
VL0516ABS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.3	12.5

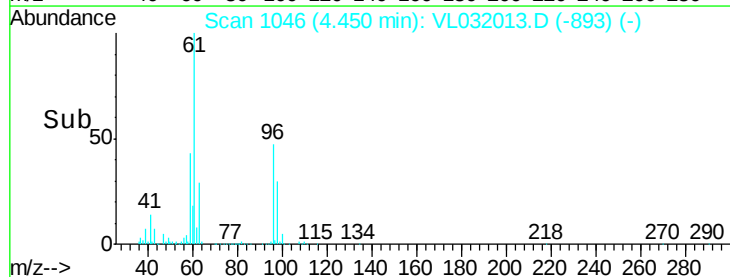
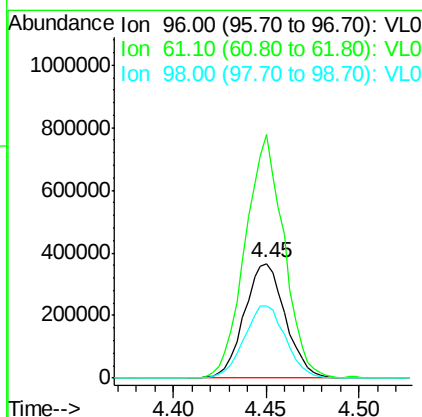
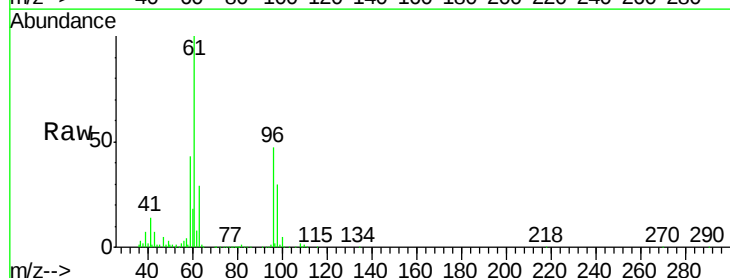
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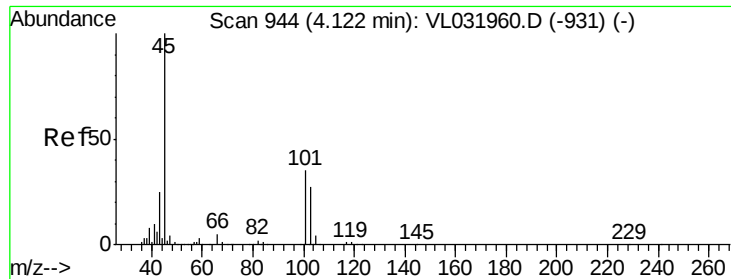
MMDadoda
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#18
1,1-Dichloroethene
Concen: 8.81 ppbv
RT: 4.45 min Scan# 1046
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Tgt Ion	Ratio	Lower	Upper
96	100		
61	212.1	149.9	224.9
98	62.7	49.7	74.5





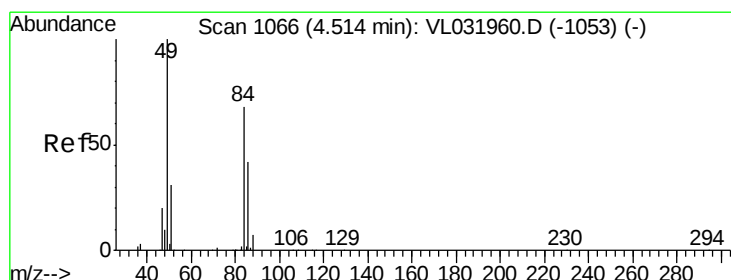
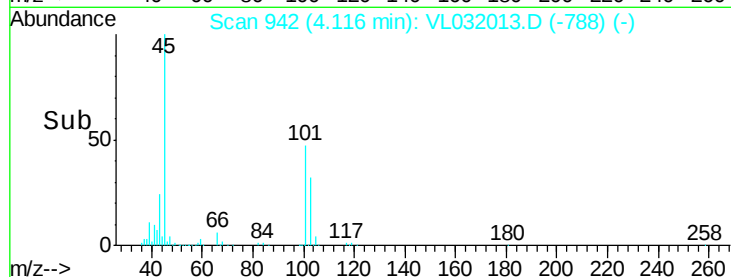
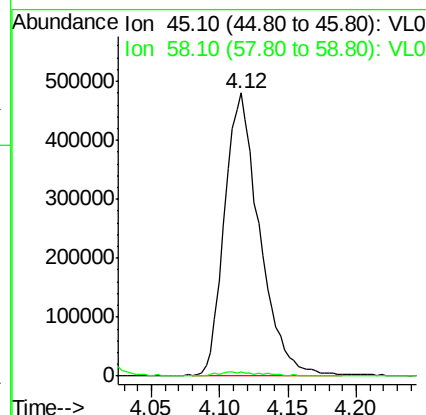
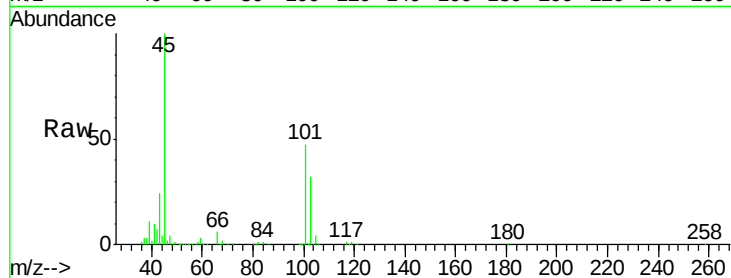
#19
Isopropyl Alcohol
Concen: 8.63 ppbv
RT: 4.12 min Scan# 942
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Instrument :
MSVOA_L
ClientSampleId :
VL0516ABS01

Tot Ion: 45 Resp: 857206
Ion Ratio Lower Upper
45 100
58 1.9 1.4 2.2

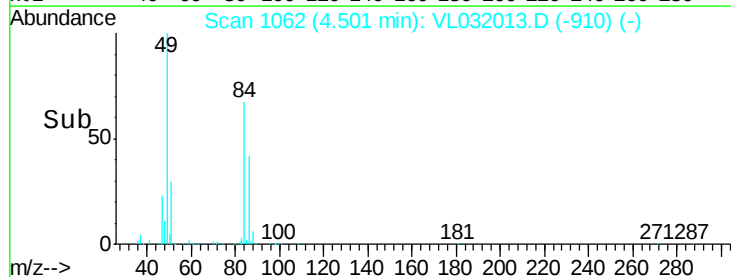
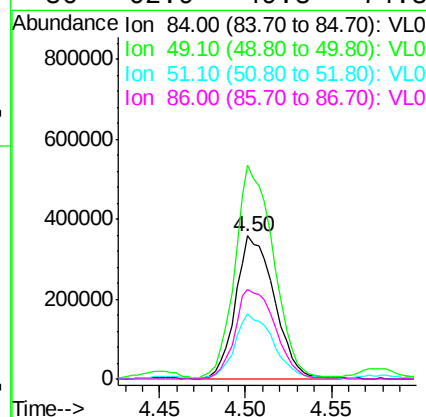
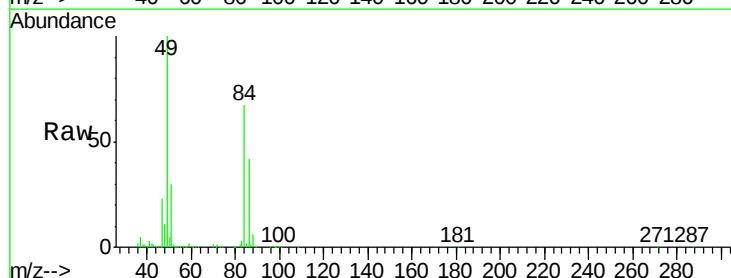
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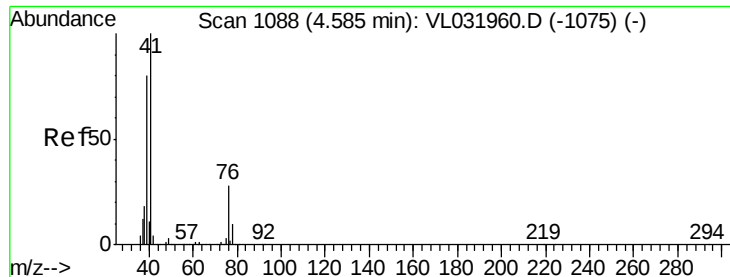
MMDadoda
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#20
Methylene Chloride
Concen: 9.00 ppbv
RT: 4.50 min Scan# 1062
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Tgt Ion: 84 Resp: 557945
Ion Ratio Lower Upper
84 100
49 148.9 118.6 178.0
51 45.1 36.6 54.8
86 62.9 49.8 74.8





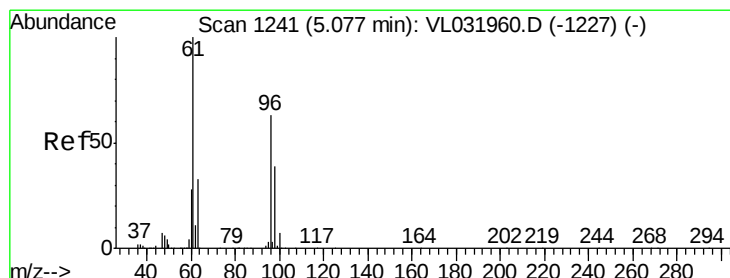
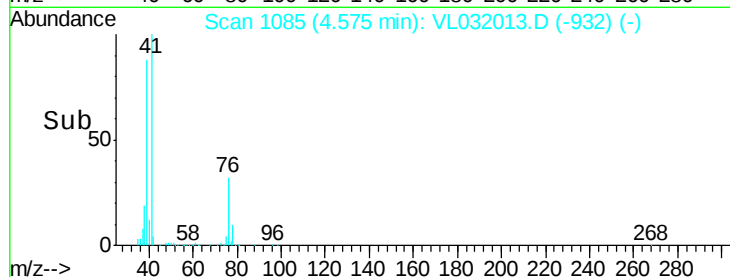
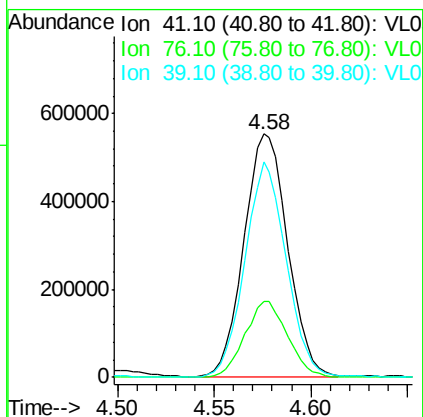
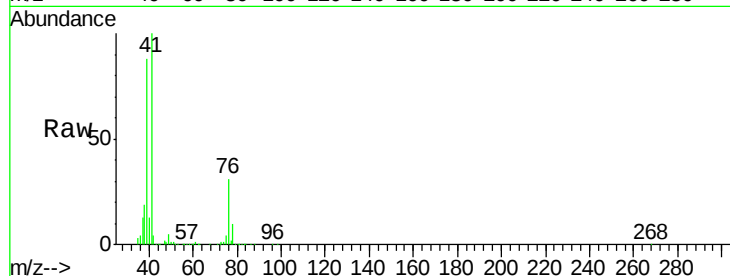
#21
Allvl Chloride
Concen: 8.28 ppbv
RT: 4.58 min Scan# 1085
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Instrument :
MSVOA_L
ClientSampleId :
VL0516ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.7	23.4	35.0
39	83.8	64.5	96.7

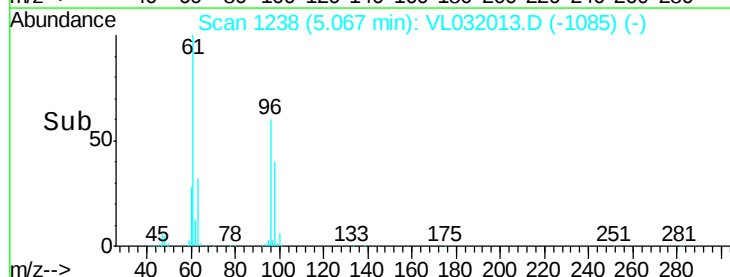
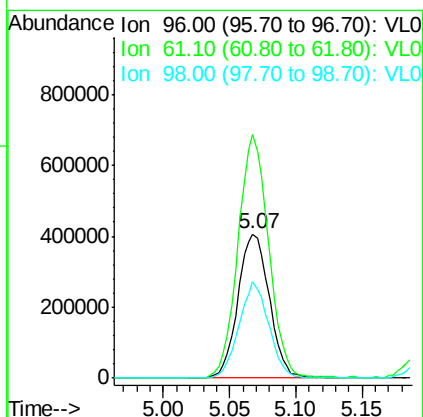
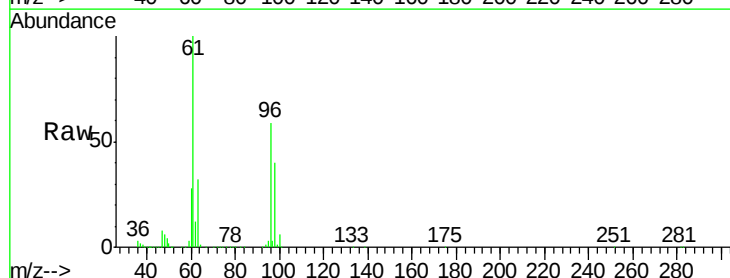
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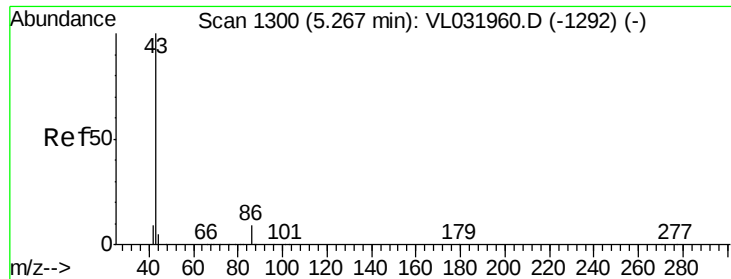
MMDadoda
5/17/2018 3:34:18 PM



#22
trans-1,2-Dichloroethene
Concen: 9.41 ppbv
RT: 5.07 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Tgt Ion	Ratio	Lower	Upper
96	100		
61	168.9	127.7	191.5
98	66.8	49.3	73.9





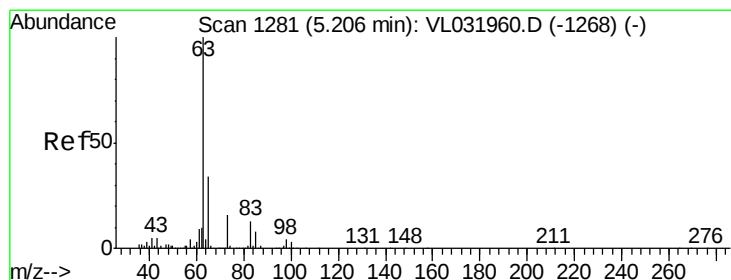
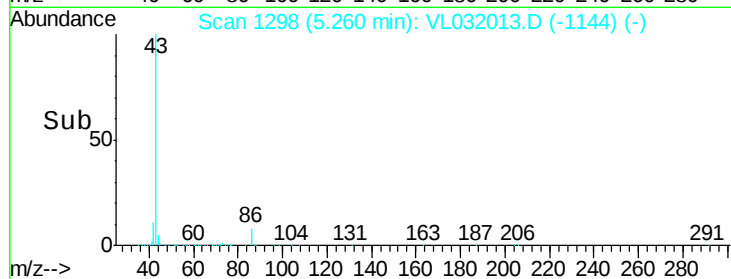
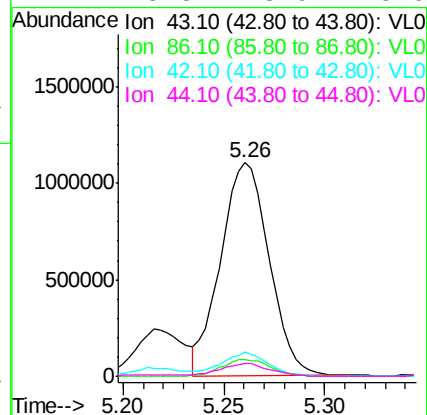
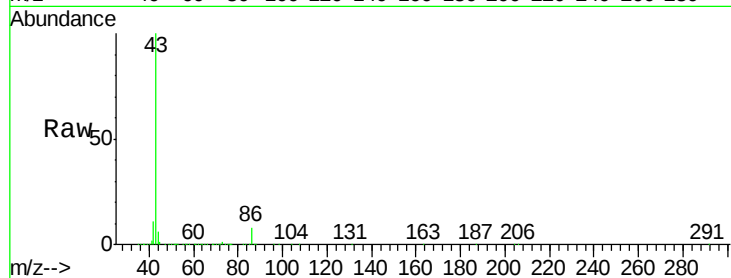
#23
 Vinyl Acetate
 Concen: 8.79 ppbv
 RT: 5.26 min Scan# 1298
 Delta R.T. -0.01 min
 Lab File: VL032013.D
 Acq: 17 May 2018 9:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0516ABS01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	8.0	6.1	9.1	
42	11.1	8.0	12.0	
44	5.8	3.9	5.9	

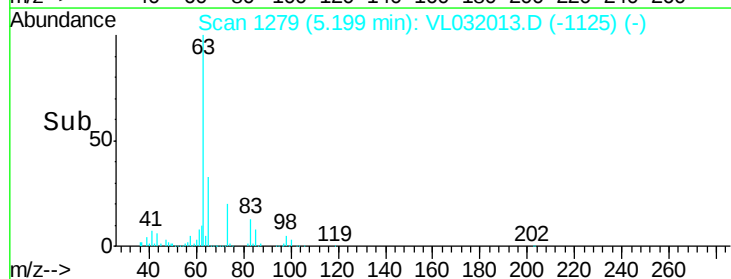
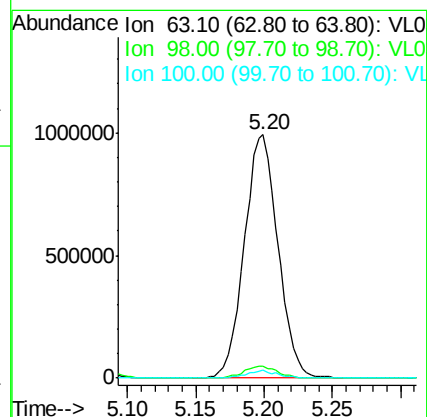
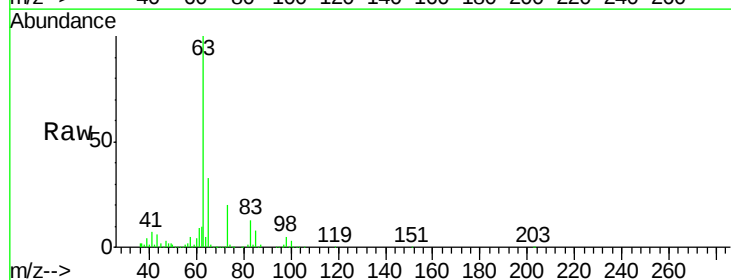
Manual Integrations
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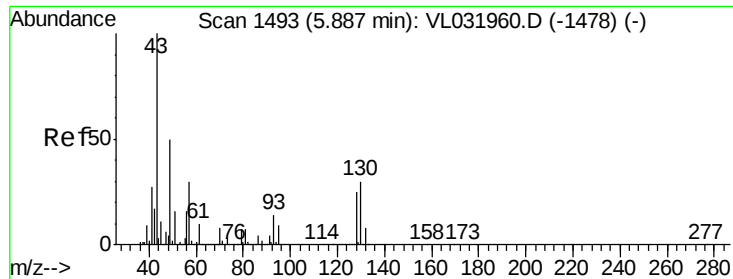
MMDadoda
 5/17/2018 3:34:18 PM



#24
 1,1-Dichloroethane
 Concen: 8.66 ppbv
 RT: 5.20 min Scan# 1279
 Delta R.T. -0.01 min
 Lab File: VL032013.D
 Acq: 17 May 2018 9:31

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	4.7	2.2	6.6	
100	3.2	1.5	4.5	





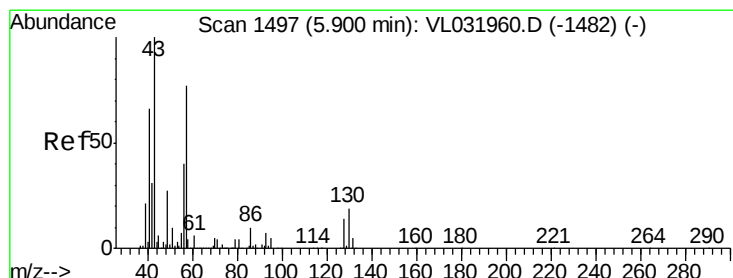
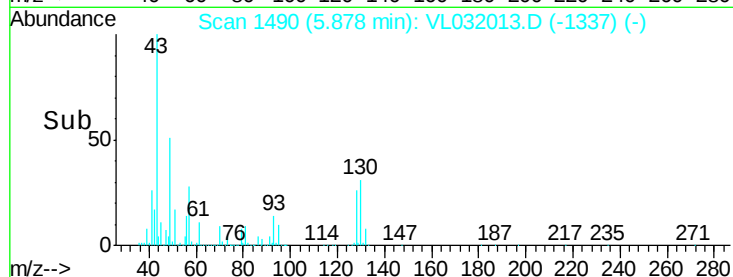
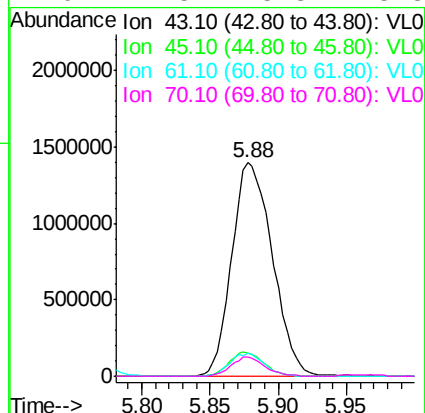
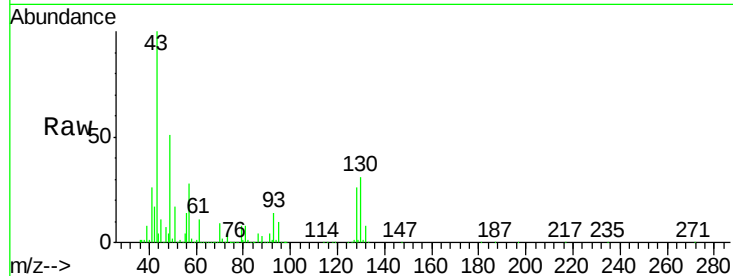
#25
Ethyl Acetate
Concen: 9.15 ppbv
RT: 5.88 min Scan# 1490
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Instrument :
MSVOA_L
ClientSampleId :
VL0516ABS01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.6	7.8	11.6	
61	9.4	7.4	11.2	
70	7.5	5.8	8.8	

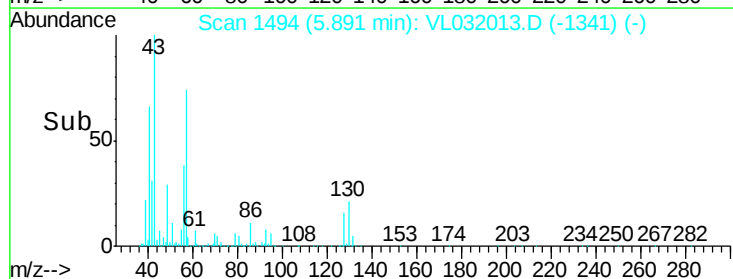
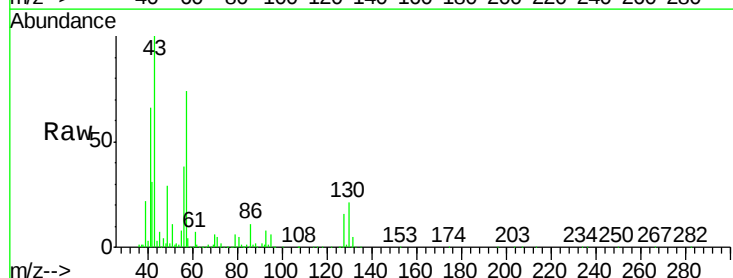
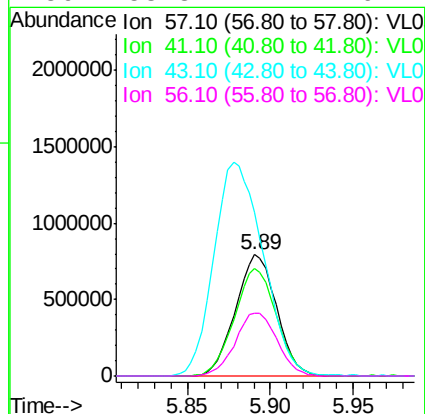
Manual Integrations
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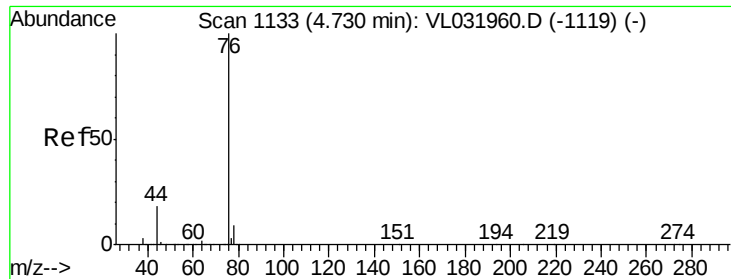
MMDadoda
5/17/2018 3:34:18 PM



#26
Hexane
Concen: 9.19 ppbv
RT: 5.89 min Scan# 1494
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	91.2	71.8	107.6	
43	212.5	171.5	257.3	
56	53.3	41.4	62.2	





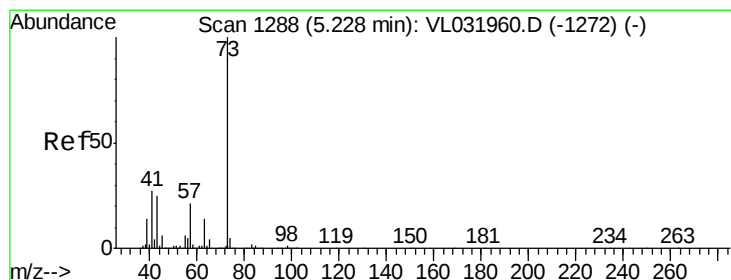
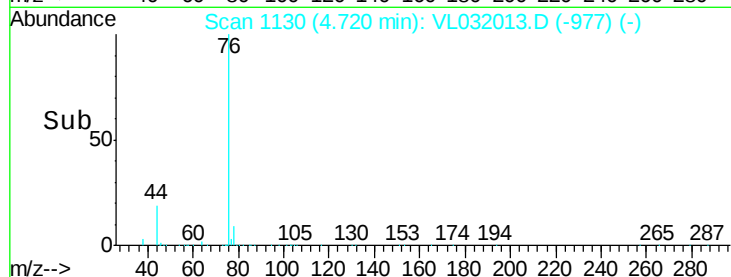
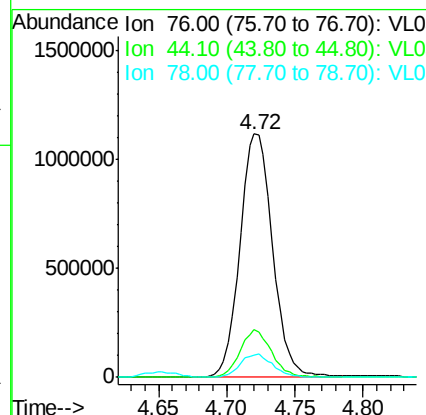
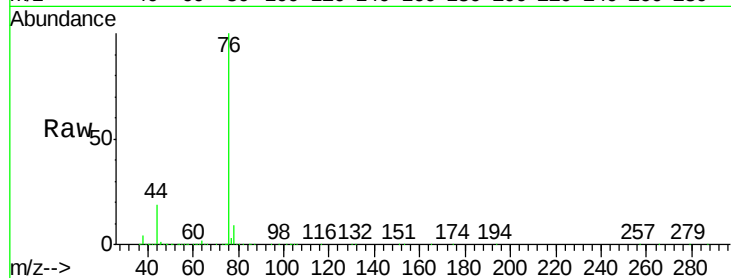
#27
Carbon Disulfide
Concen: 11.16 ppbv
RT: 4.72 min Scan# 1130
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Instrument :
MSVOA_L
ClientSampleId :
VL0516ABS01

Tot Ion	Ratio	Lower	Upper
76	100		
44	18.6	15.4	23.0
78	9.4	7.4	11.0

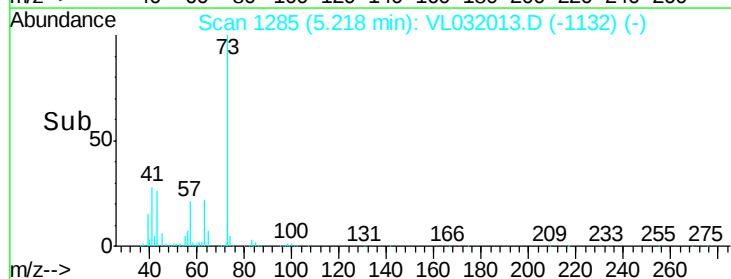
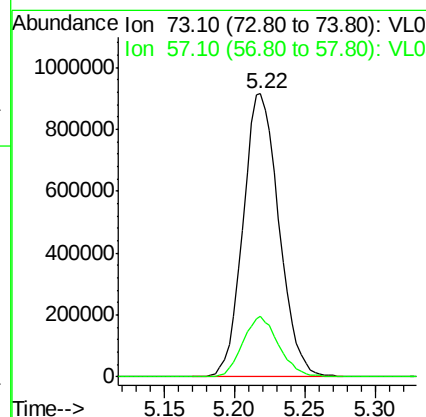
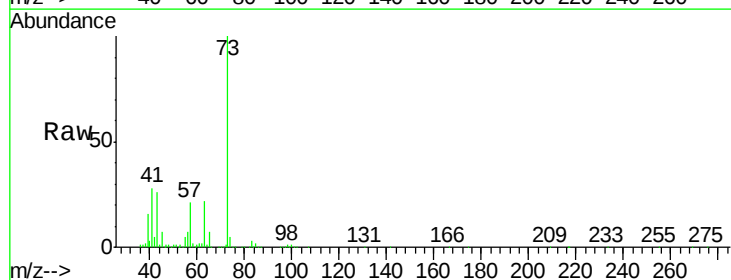
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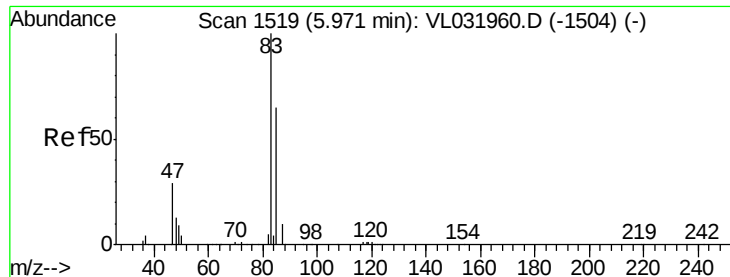
MMDadoda
5/17/2018 3:34:18 PM



#28
Methyl tert-Butyl Ether
Concen: 8.96 ppbv
RT: 5.22 min Scan# 1285
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Tgt Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.6	26.4





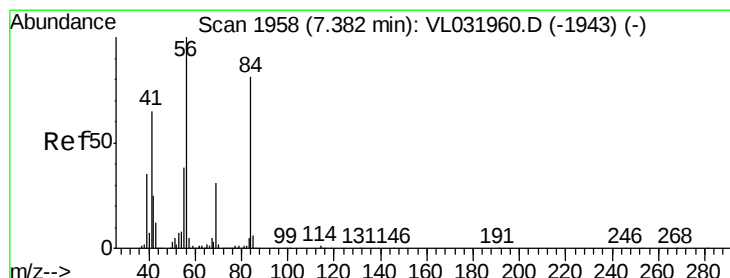
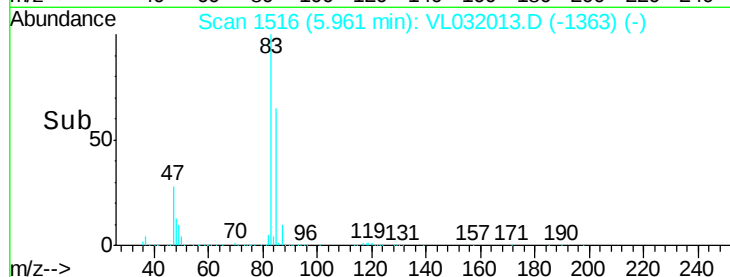
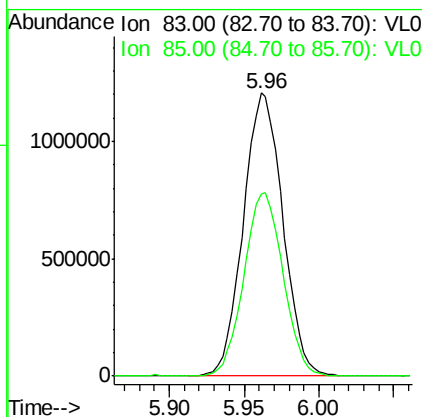
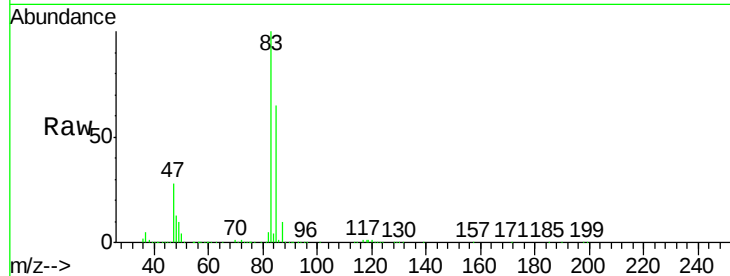
#29
Chloroform
Concen: 9.47 ppbv
RT: 5.96 min Scan# 1516
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Instrument :
MSVOA_L
ClientSampleId :
VL0516ABS01

Tot Ion: 83 Resp: 2220194
Ion Ratio Lower Upper
83 100
85 64.5 52.2 78.2

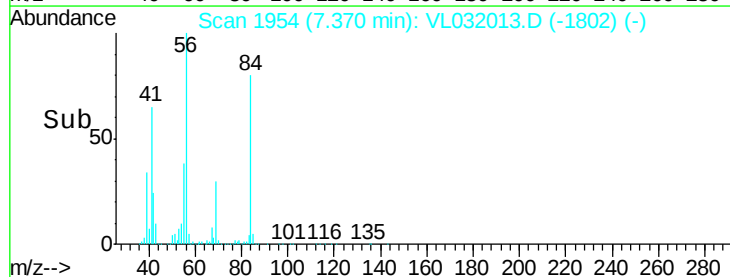
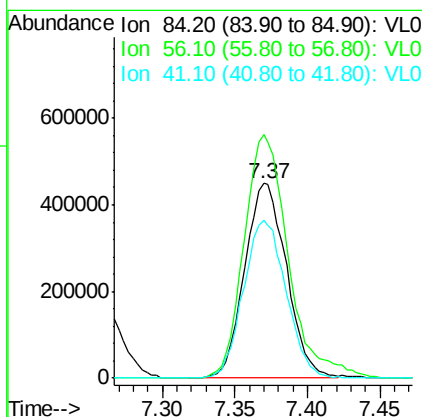
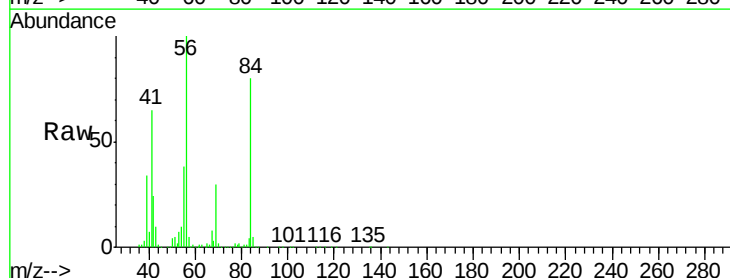
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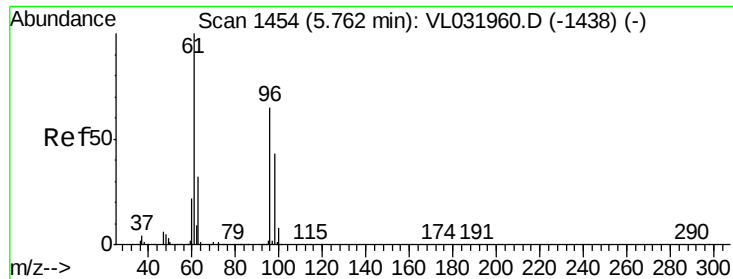
MMDadoda
5/17/2018 3:34:18 PM



#30
Cyclohexane
Concen: 9.13 ppbv
RT: 7.37 min Scan# 1954
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Tgt Ion: 84 Resp: 901784
Ion Ratio Lower Upper
84 100
56 132.6 108.0 162.0
41 82.4 66.8 100.2





#31

cis-1,2-Dichloroethene

Concen: 9.44 ppbv

RT: 5.75 min Scan# 1451

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Instrument :

MSVOA_L

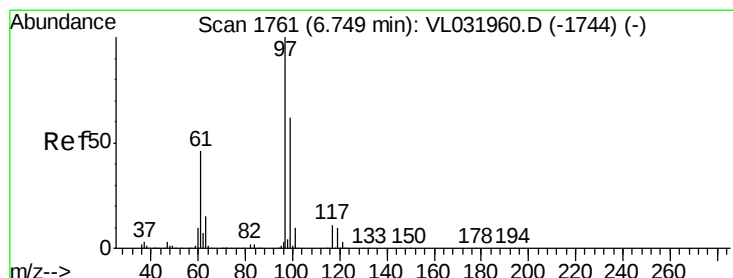
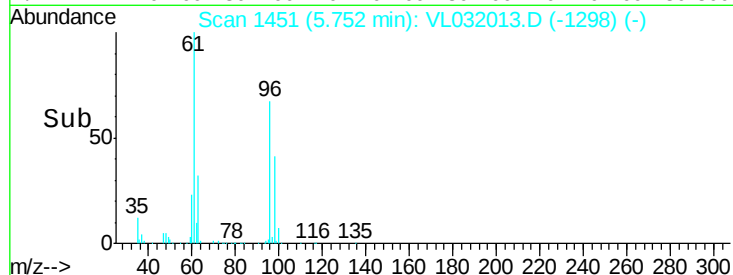
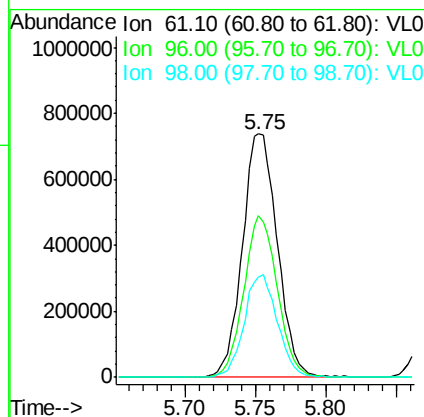
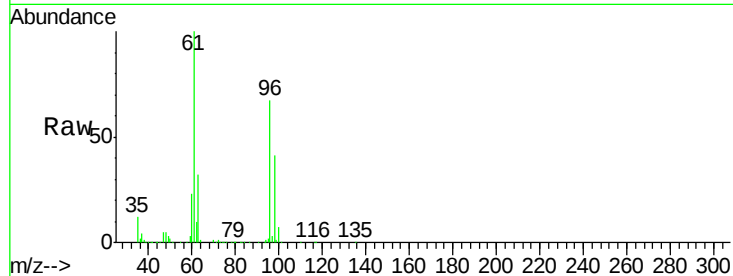
ClientSampleId :

VL0516ABS01

Tot Ion:	61	Resp:	1280012
Ion	Ratio	Lower	Upper
61	100		
96	66.5	51.8	77.6
98	41.4	34.2	51.4

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#32

1,1,1-Trichloroethane

Concen: 8.67 ppbv

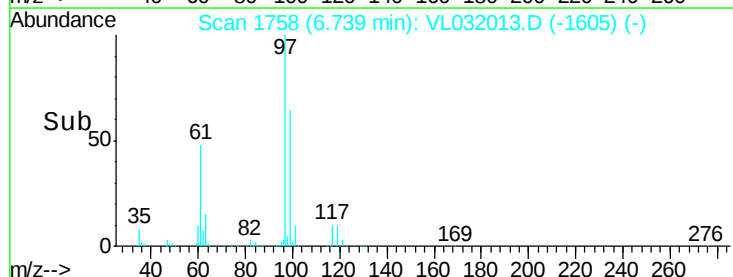
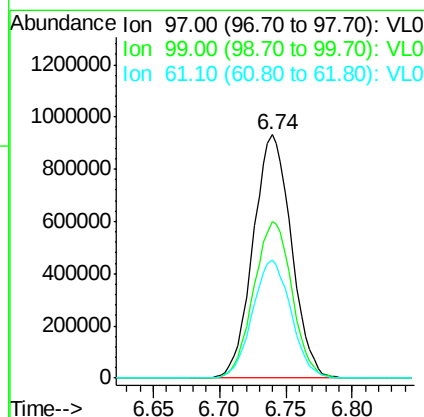
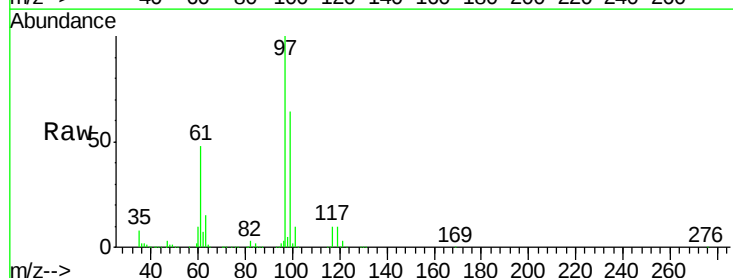
RT: 6.74 min Scan# 1758

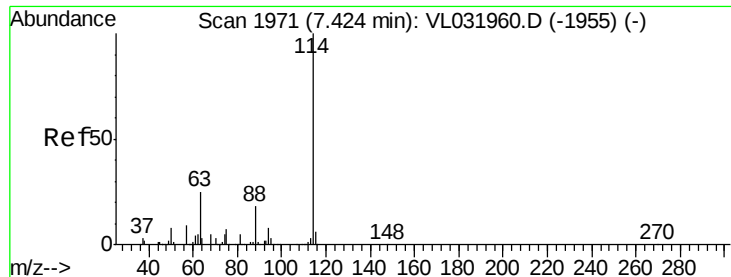
Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Tgt Ion:	97	Resp:	1875230
Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.0	76.6
61	48.9	38.1	57.1





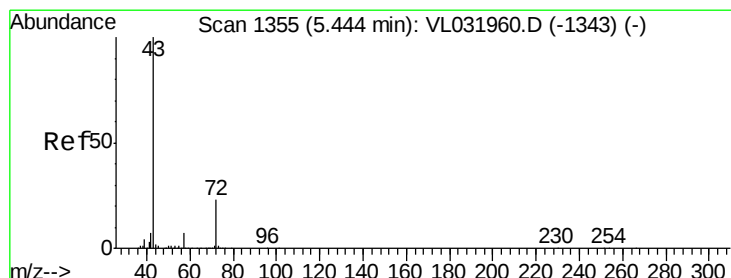
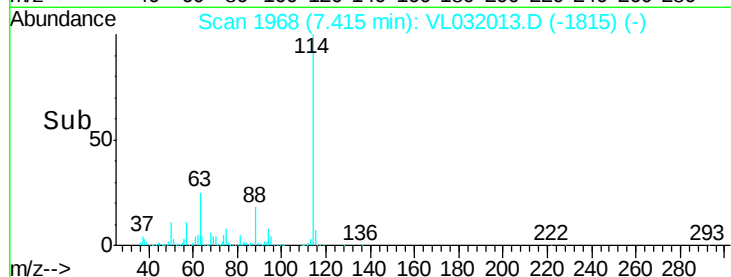
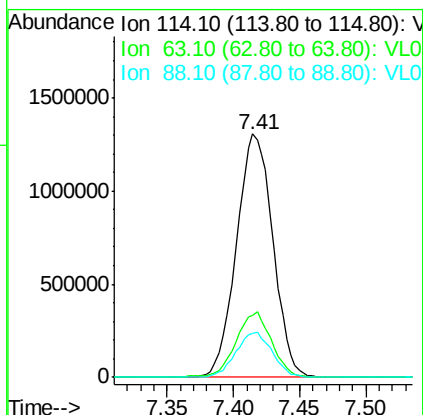
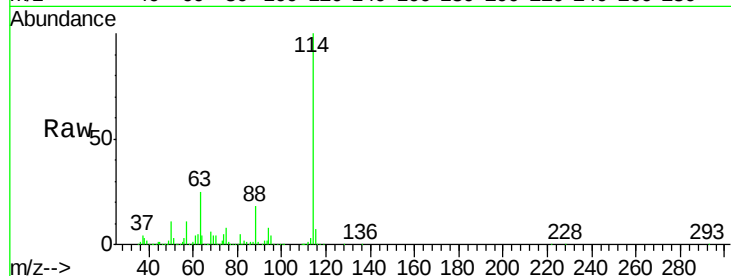
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.41 min Scan# 1968
 Delta R.T. -0.01 min
 Lab File: VL032013.D
 Acq: 17 May 2018 9:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0516ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.4	20.8	31.2
88	18.3	14.6	21.8

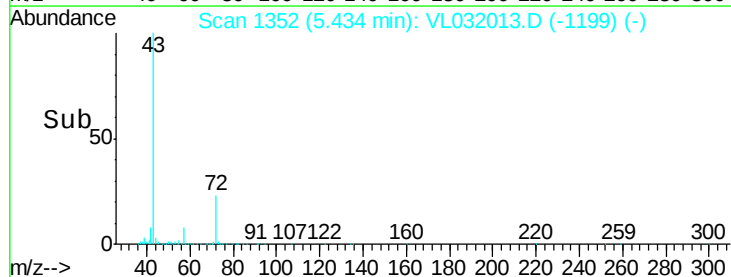
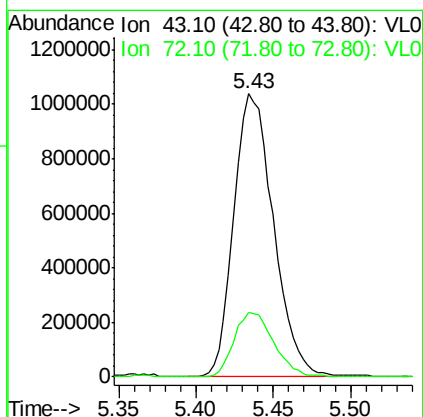
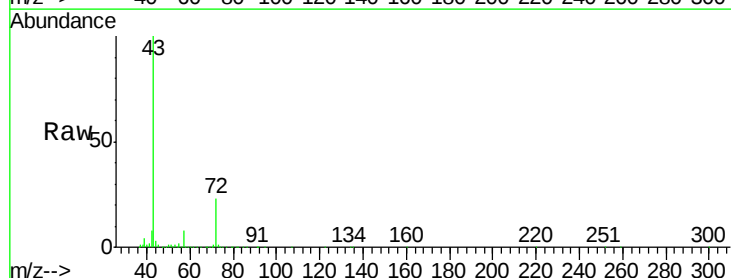
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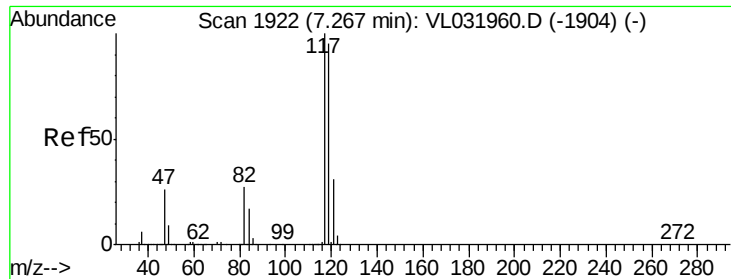
MMDadoda
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#34
 2-Butanone
 Concen: 8.95 ppbv
 RT: 5.43 min Scan# 1352
 Delta R.T. -0.01 min
 Lab File: VL032013.D
 Acq: 17 May 2018 9:31

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.9	18.3	27.5





#35

Carbon Tetrachloride

Concen: 9.85 ppbv

RT: 7.26 min Scan# 1920

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Instrument :

MSVOA_L

ClientSampleId :

VL0516ABS01

Tot Ion:117 Resp: 1949214

Ion Ratio Lower Upper

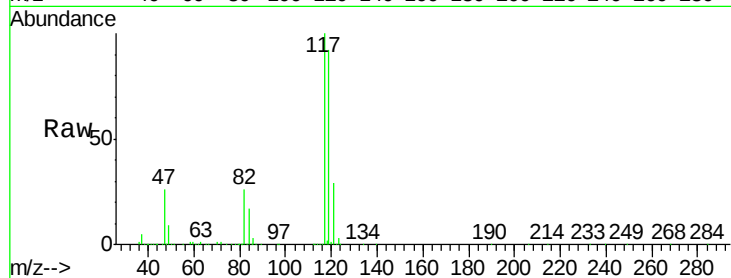
117 100

119 92.3 76.4 114.6

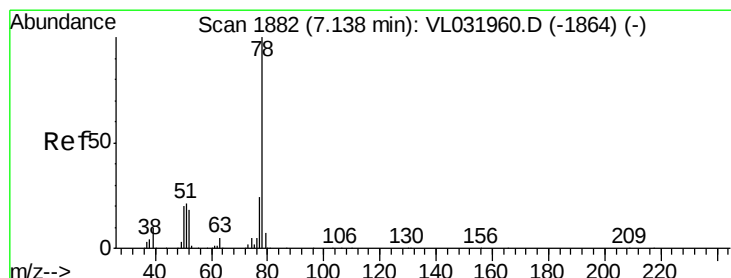
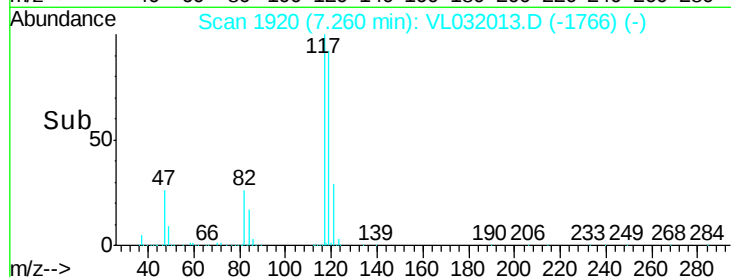
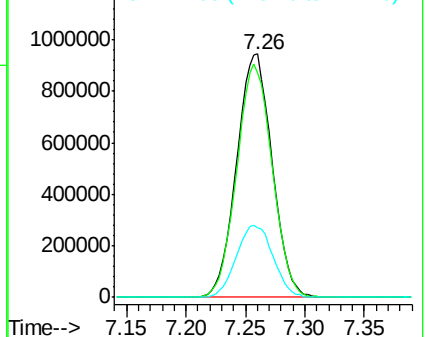
121 28.8 24.4 36.6

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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.40 ppbv

RT: 7.13 min Scan# 1879

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

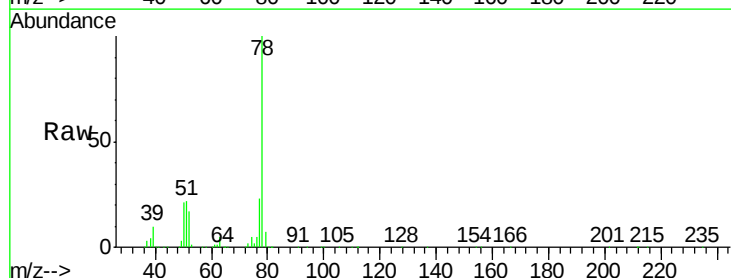
Tgt Ion: 78 Resp: 2210638

Ion Ratio Lower Upper

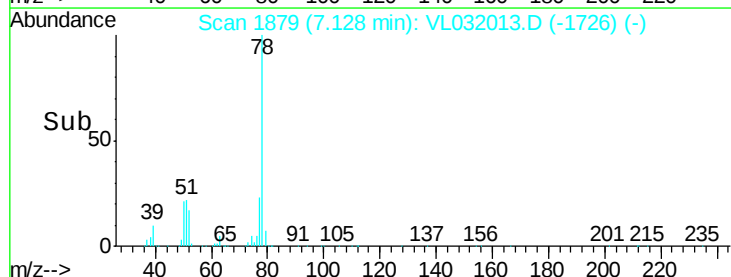
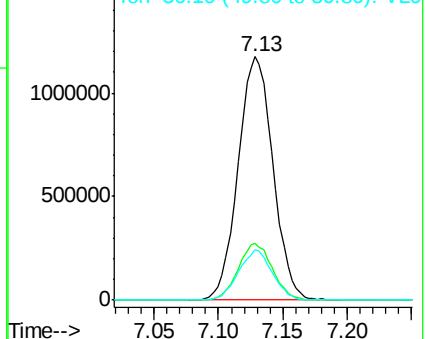
78 100

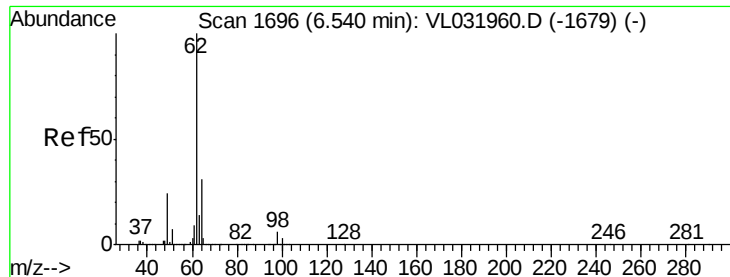
77 23.3 19.2 28.8

50 20.7 16.2 24.4



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





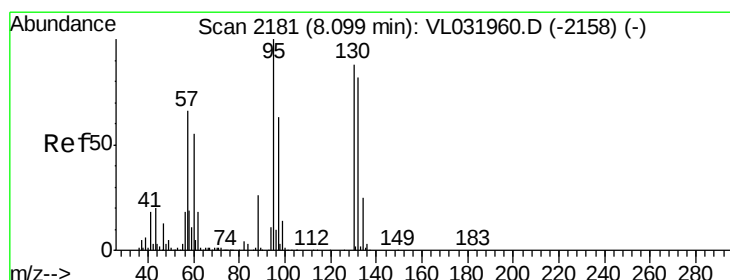
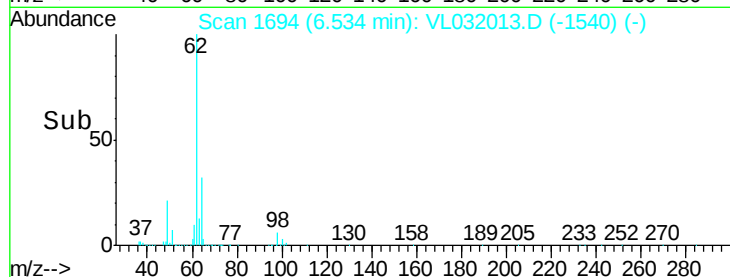
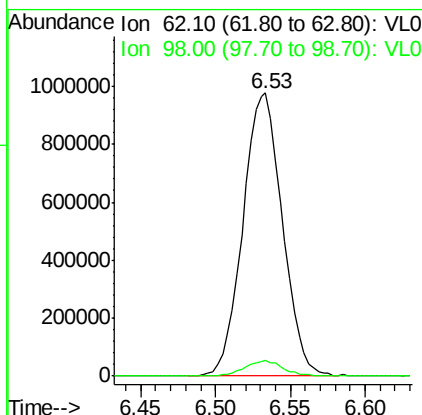
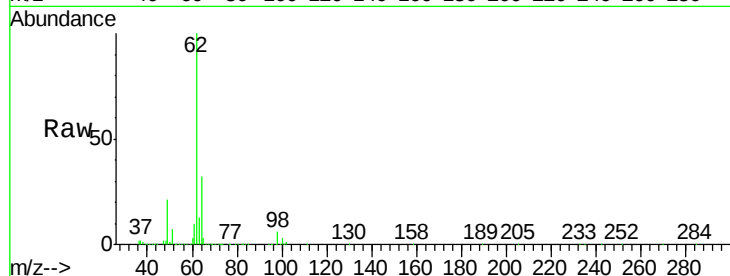
#37
 1,2-Dichloroethane
 Concen: 10.58 ppbv
 RT: 6.53 min Scan# 1694
 Delta R.T. -0.01 min
 Lab File: VL032013.D
 Acq: 17 May 2018 9:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0516ABS01

Tot Ion: 62 Resp: 1787805
 Ion Ratio Lower Upper
 62 100
 98 5.2 4.6 6.8

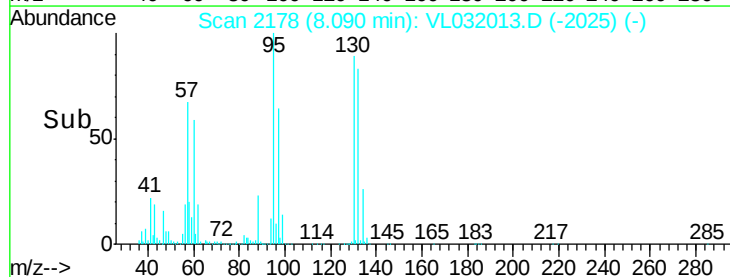
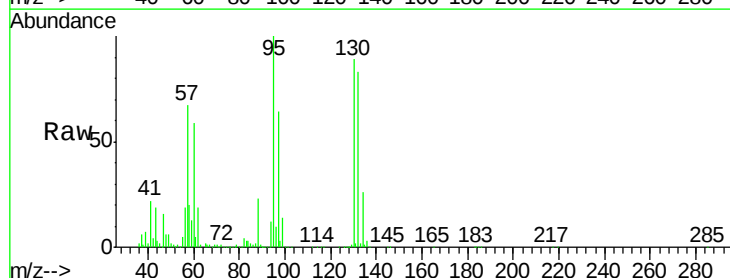
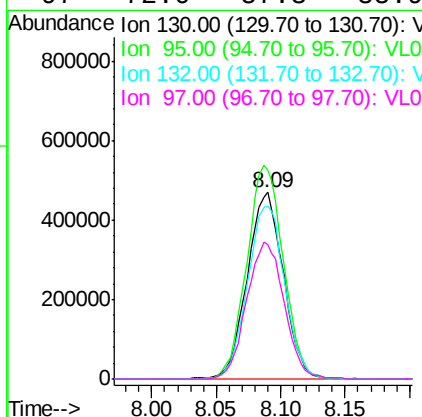
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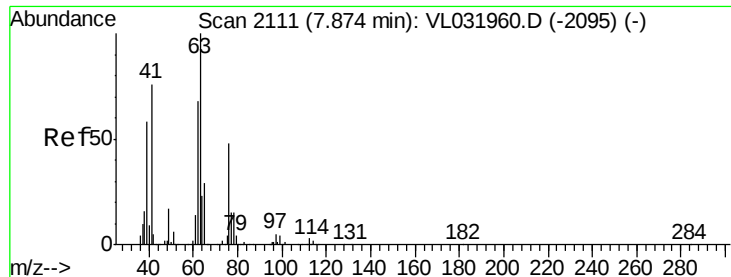
MMDadoda
 5/17/2018 3:34:18 PM



#38
 Trichloroethene
 Concen: 10.16 ppbv
 RT: 8.09 min Scan# 2178
 Delta R.T. -0.01 min
 Lab File: VL032013.D
 Acq: 17 May 2018 9:31

Tgt Ion: 130 Resp: 907012
 Ion Ratio Lower Upper
 130 100
 95 112.3 90.7 136.1
 132 92.8 74.3 111.5
 97 72.0 57.3 85.9





#39

1,2-Dichloropropane

Concen: 9.71 ppbv

RT: 7.86 min Scan# 2108

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Instrument :

MSVOA_L

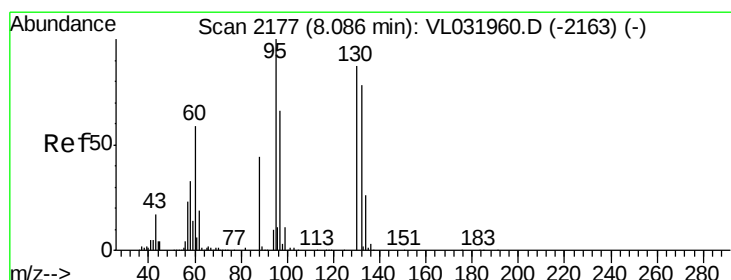
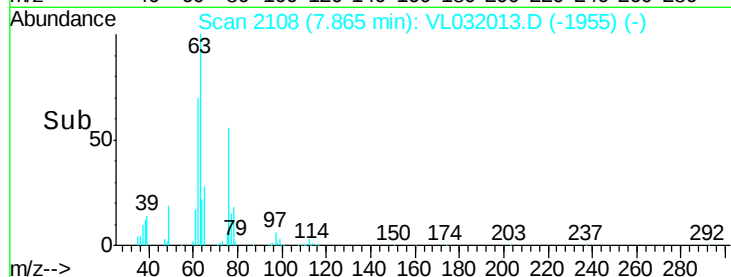
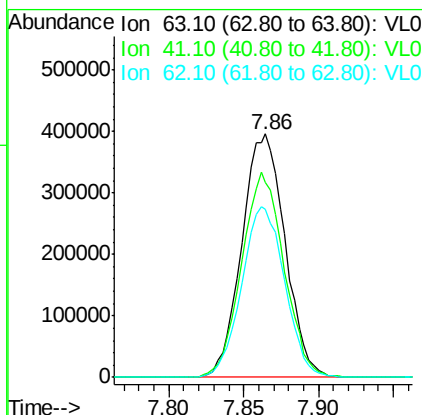
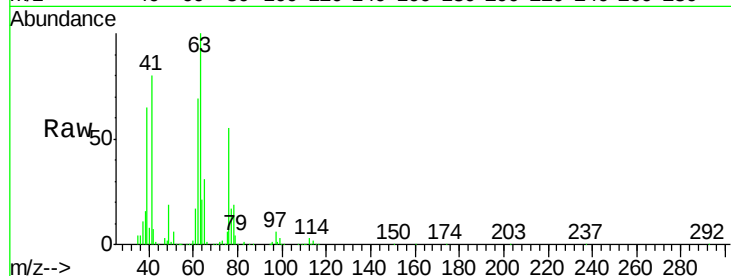
ClientSampleId :

VL0516ABS01

Tot Ion:	63	Resp:	794667
Ion Ratio	Lower	Upper	
63	100		
41	79.9	60.7	91.1
62	69.1	54.7	82.1

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#40

1,4-Dioxane

Concen: 9.66 ppbv

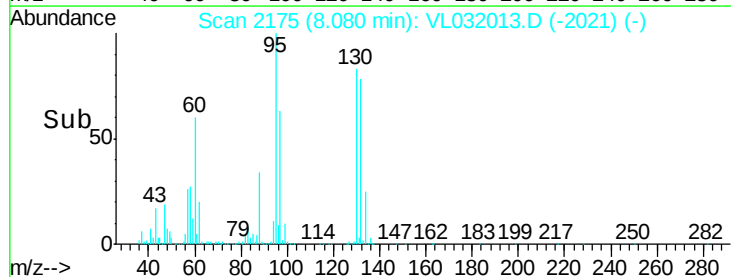
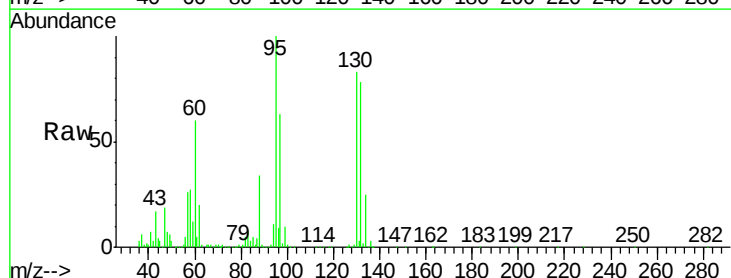
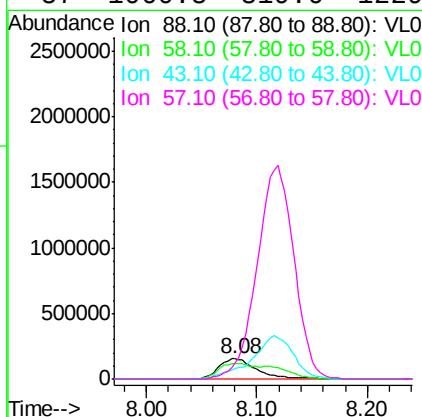
RT: 8.08 min Scan# 2175

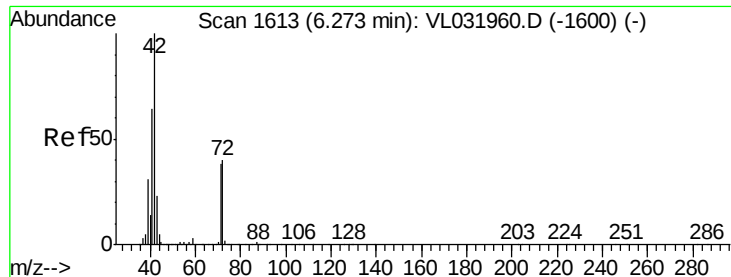
Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Tgt Ion:	88	Resp:	356424
Ion Ratio	Lower	Upper	
88	100		
58	125.2	94.9	142.3
43	240.5	188.2	282.2
57	1060.8	819.6	1229.4





#41

Tetrahydrofuran

Concen: 10.75 ppbv

RT: 6.26 min Scan# 1610

Delta R.T. -0.01 min

Lab File: VL032013.D

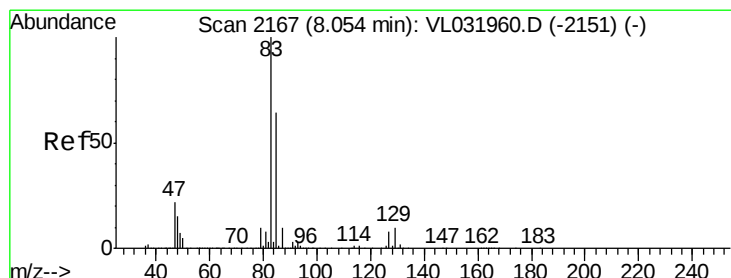
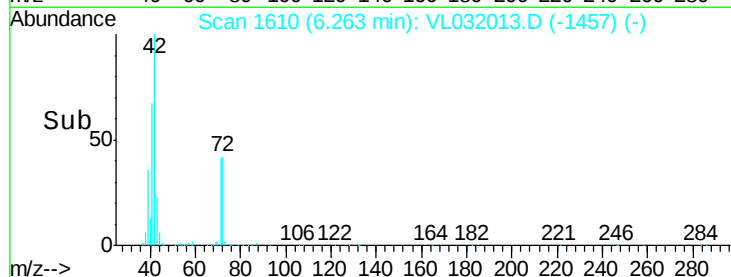
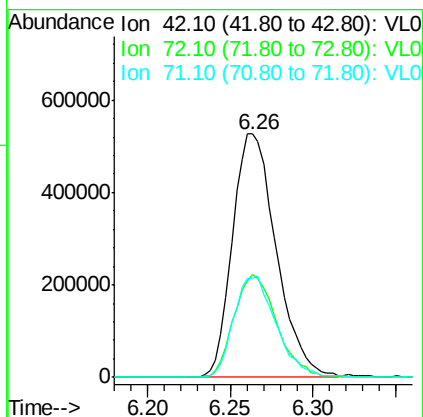
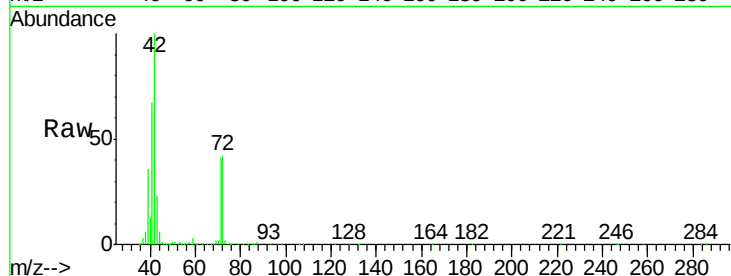
Acq: 17 May 2018 9:31

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.5	32.3	48.5
71	40.5	31.4	47.2

Instrument :
MSVOA_L
ClientSampleId :
VL0516ABS01

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#42

Bromodichloromethane

Concen: 10.19 ppbv

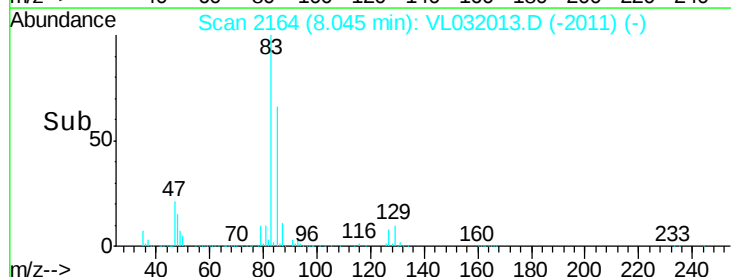
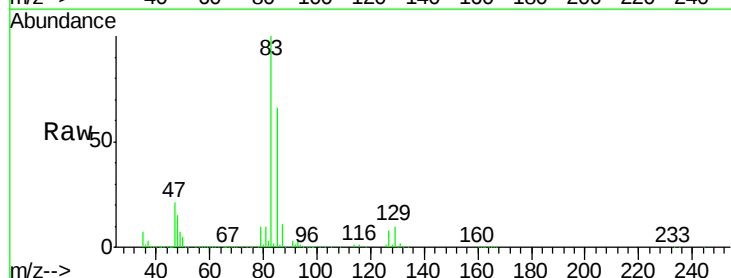
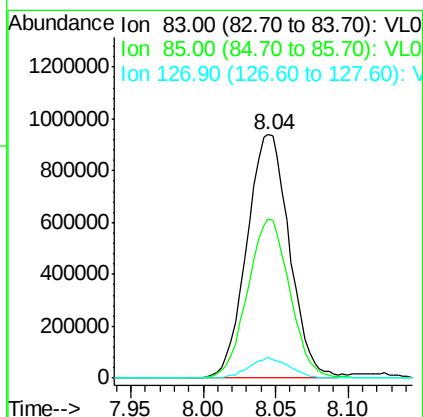
RT: 8.04 min Scan# 2164

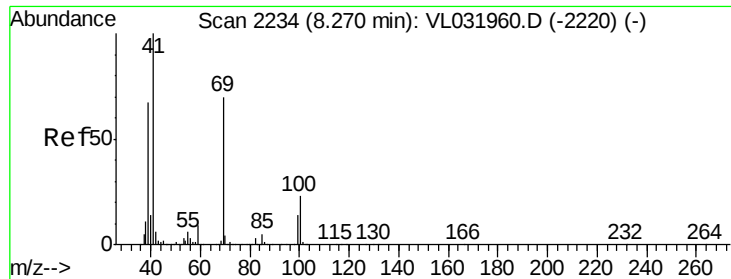
Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.0	76.6
127	8.5	6.7	10.1





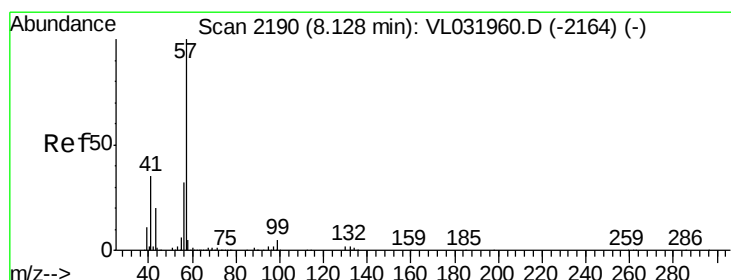
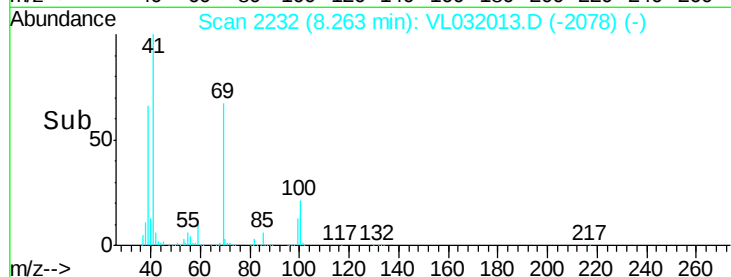
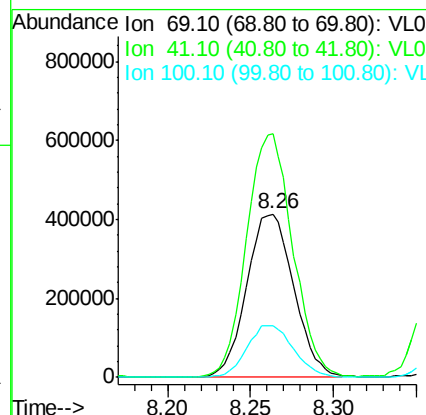
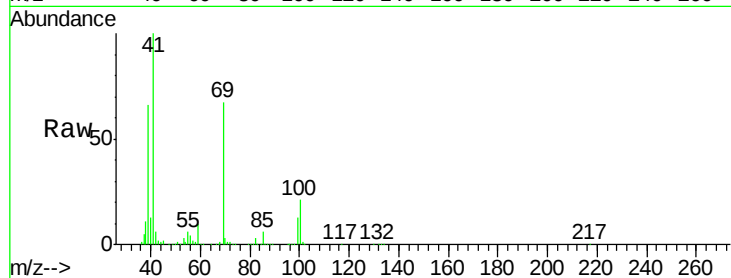
#43
Methyl Methacrylate
Concen: 10.28 ppbv
RT: 8.26 min Scan# 2232
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Instrument :
MSVOA_L
ClientSampleId :
VL0516ABS01

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	146.3	119.4	179.2	
100	31.6	26.0	39.0	

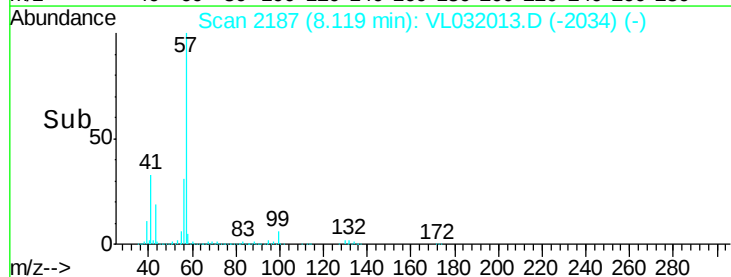
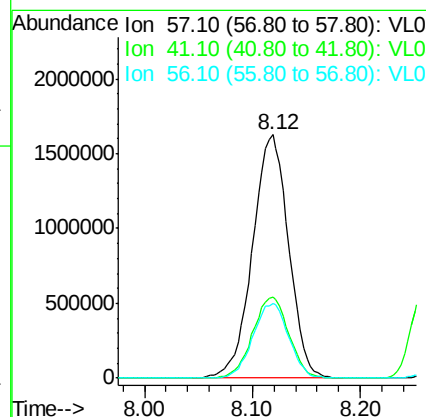
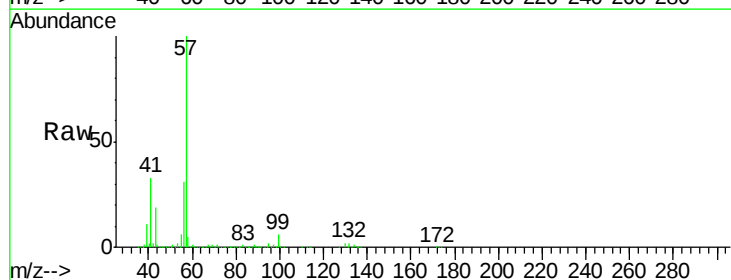
Manual Integrations
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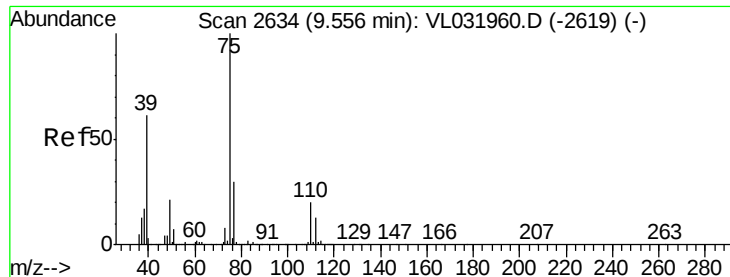
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 9.95 ppbv
RT: 8.12 min Scan# 2187
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	33.3	26.6	39.8	
56	30.5	24.4	36.6	





#45

t-1,3-Dichloropropene

Concen: 11.30 ppbv

RT: 9.55 min Scan# 2631

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Instrument :

MSVOA_L

ClientSampleId :

VL0516ABS01

Tot Ion: 75 Resp: 1187136

Ion Ratio Lower Upper

75 100

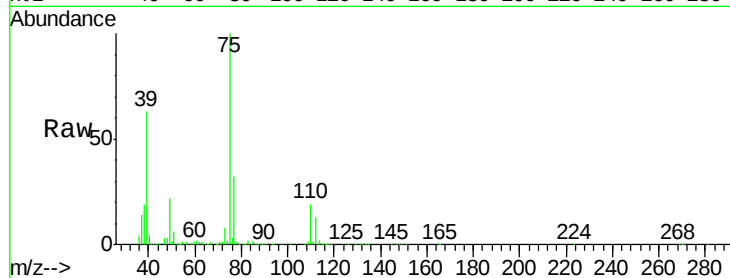
77 31.6 24.4 36.6

Manual Integrations

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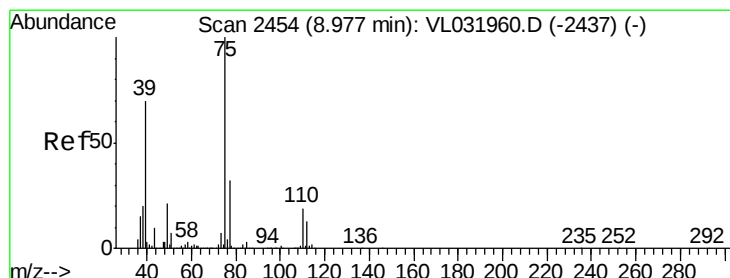
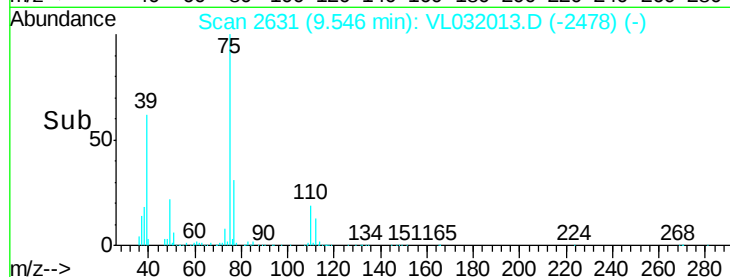
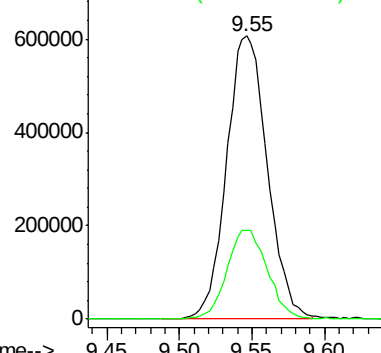
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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 11.24 ppbv

RT: 8.96 min Scan# 2450

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

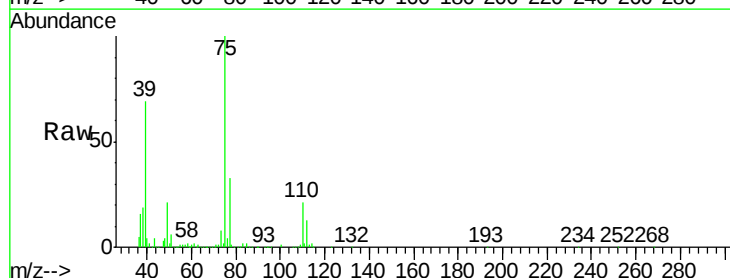
Tgt Ion: 75 Resp: 1458197

Ion Ratio Lower Upper

75 100

39 68.9 55.7 83.5

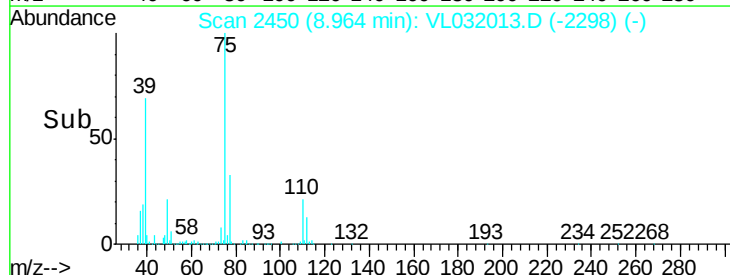
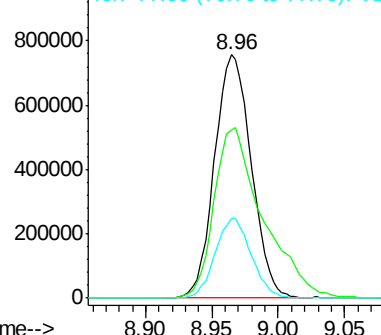
77 32.6 25.9 38.9

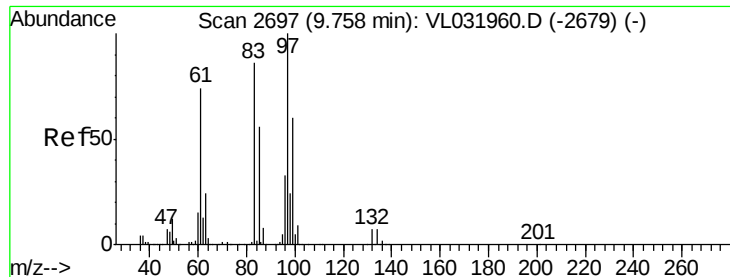


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





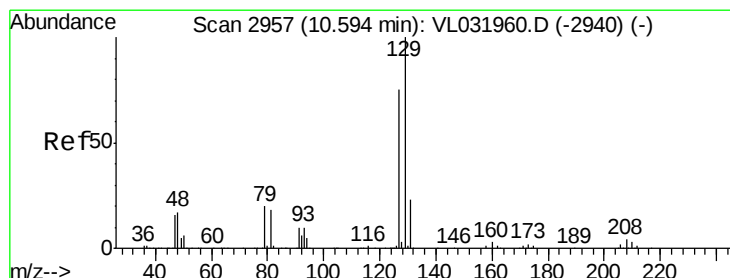
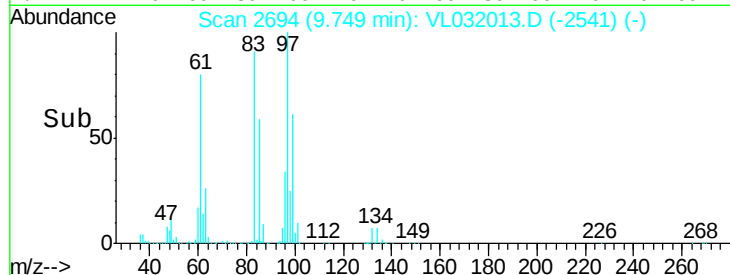
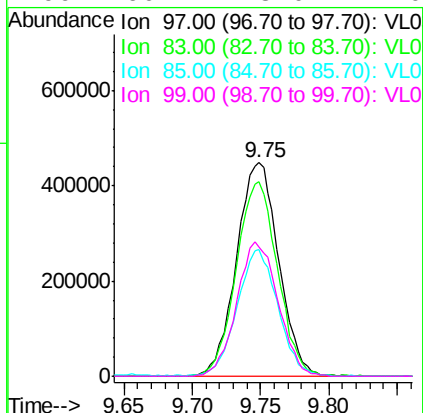
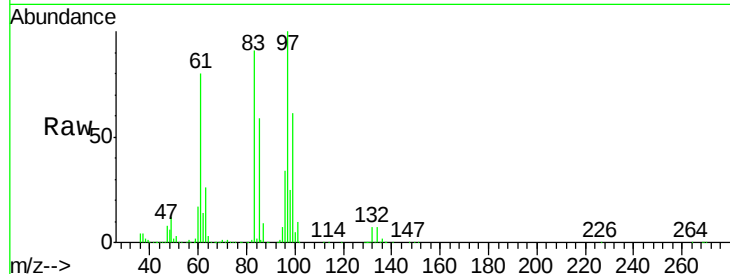
#47
 1,1,2-Trichloroethane
 Concen: 9.91 ppbv
 RT: 9.75 min Scan# 2694
 Delta R.T. -0.01 min
 Lab File: VL032013.D
 Acq: 17 May 2018 9:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0516ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	91.1	69.0	103.4
85	58.9	45.0	67.6
99	60.4	48.0	72.0

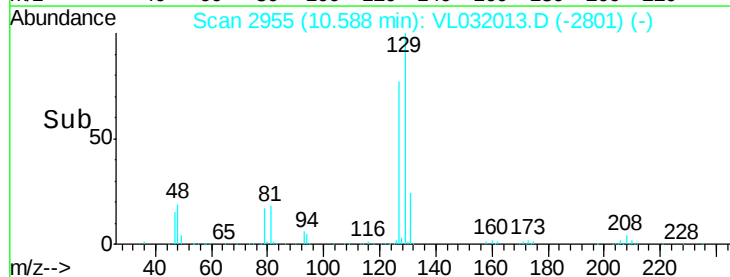
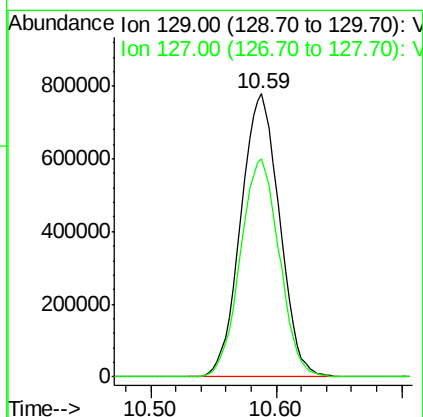
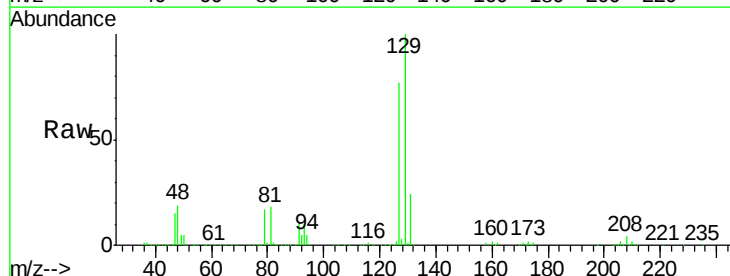
Manual Integrations
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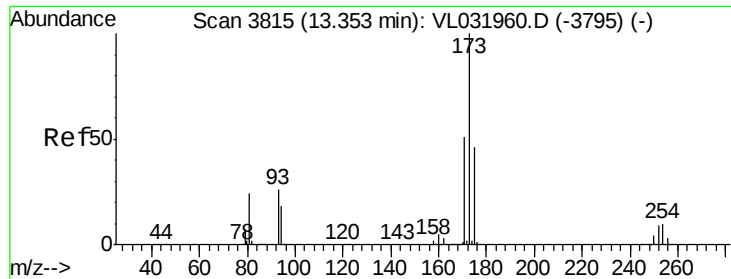
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#48
 Dibromochloromethane
 Concen: 10.77 ppbv
 RT: 10.59 min Scan# 2955
 Delta R.T. -0.01 min
 Lab File: VL032013.D
 Acq: 17 May 2018 9:31

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.1	117.2





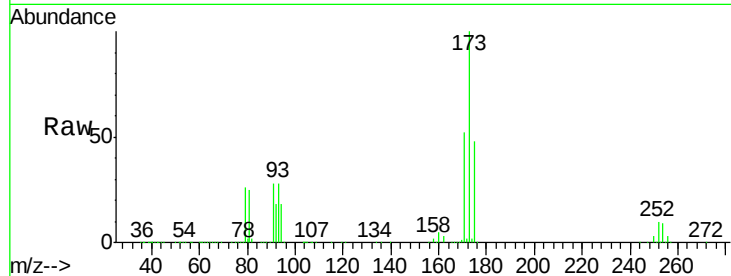
#49
Bromoform
Concen: 11.15 ppbv
RT: 13.34 min Scan# 3812
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Instrument :
MSVOA_L
ClientSampleId :
VL0516ABS01

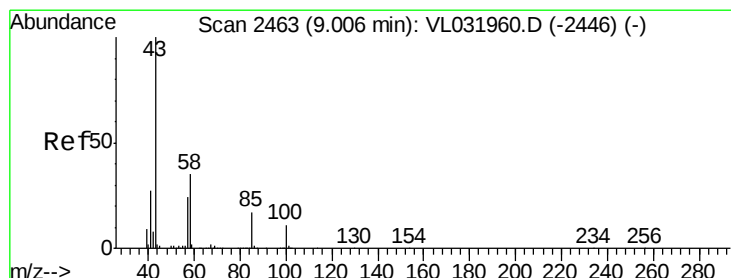
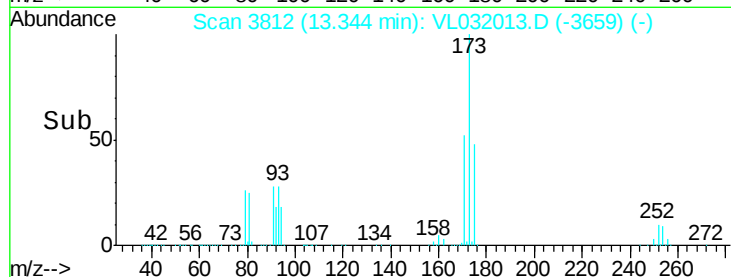
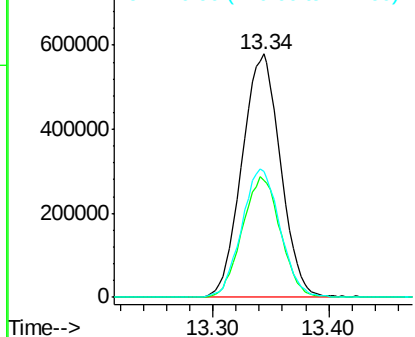
Tot Ion:173 Resp: 1342775
Ion Ratio Lower Upper
173 100
175 49.3 39.2 58.8
171 52.5 41.5 62.3

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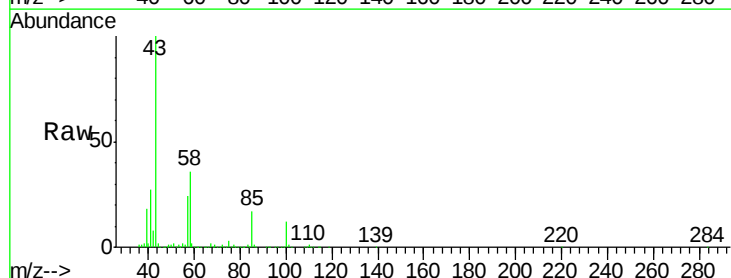


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

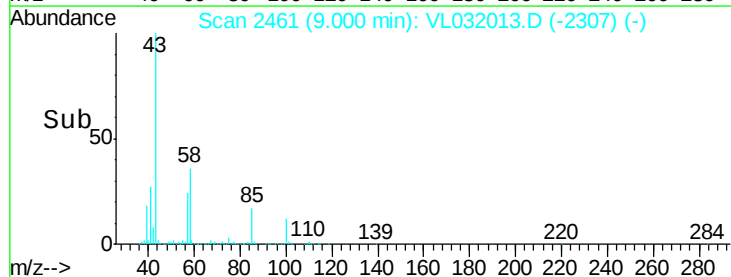
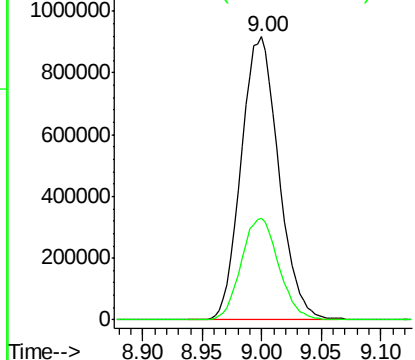


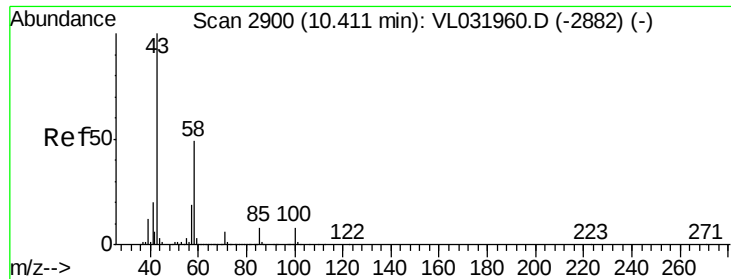
#50
4-Methyl-2-Pentanone
Concen: 10.27 ppbv
RT: 9.00 min Scan# 2461
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Tgt Ion: 43 Resp: 1998205
Ion Ratio Lower Upper
43 100
58 36.1 28.6 42.8



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





#51

2-Hexanone

Concen: 10.78 ppbv

RT: 10.40 min Scan# 2897

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Instrument :

MSVOA_L

ClientSampleId :

VL0516ABS01

Tot Ion: 43 Resp: 1908266

Ion Ratio Lower Upper

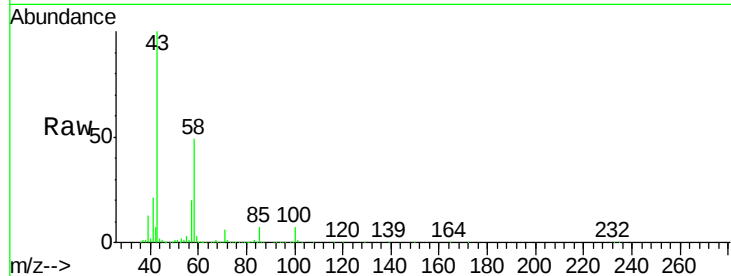
43 100

58 47.8 38.6 58.0

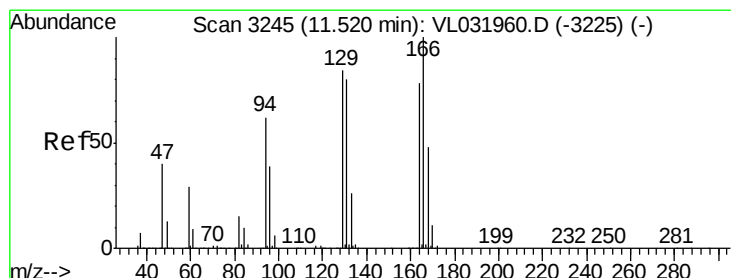
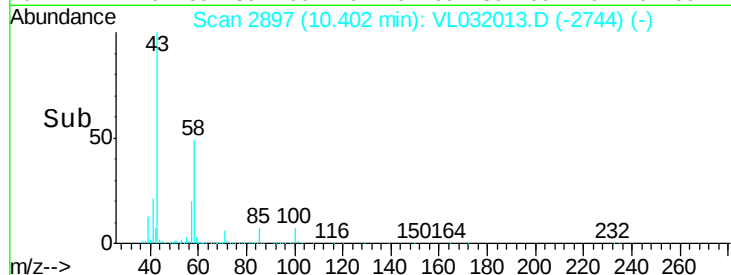
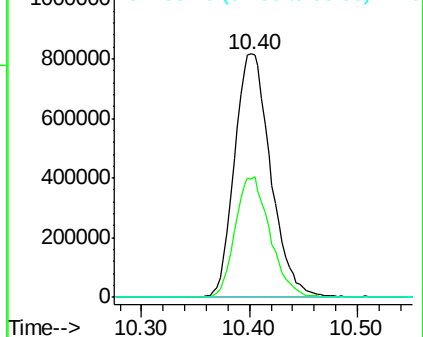
98 0.4 0.2 0.2#

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 9.76 ppbv

RT: 11.51 min Scan# 3241

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Tgt Ion: 164 Resp: 850022

Ion Ratio Lower Upper

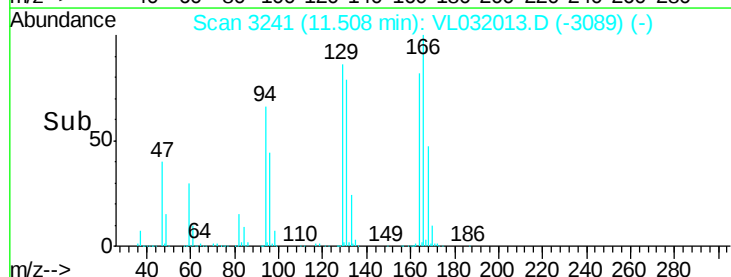
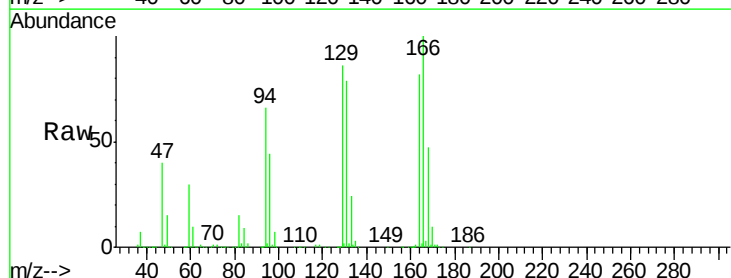
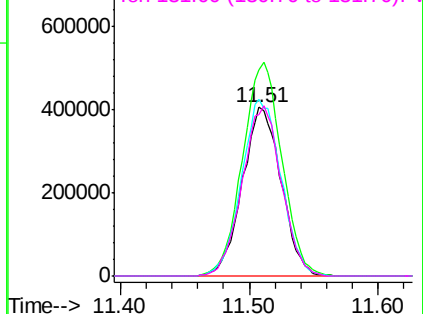
164 100

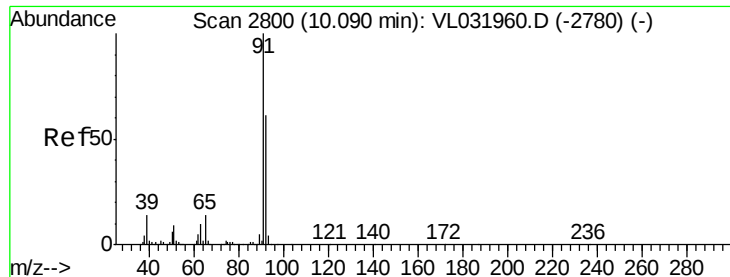
166 122.0 101.9 152.9

129 104.4 85.8 128.6

131 95.8 81.6 122.4

Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 10.55 ppbv

RT: 10.08 min Scan# 2797

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Instrument :

MSVOA_L

ClientSampleId :

VL0516ABS01

Tot Ion: 91 Resp: 2674915

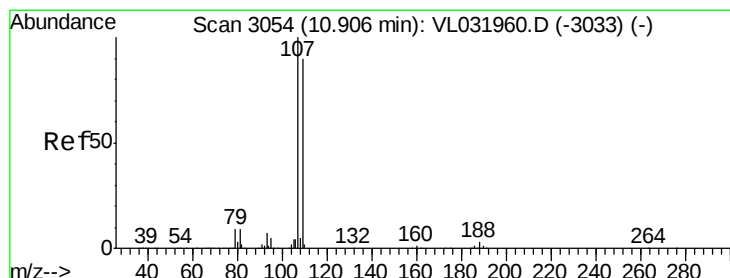
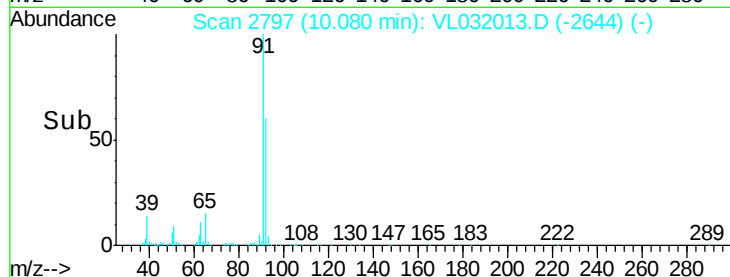
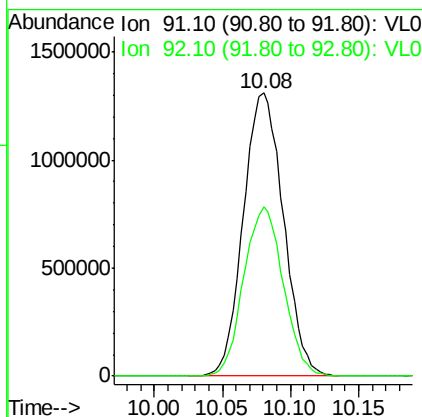
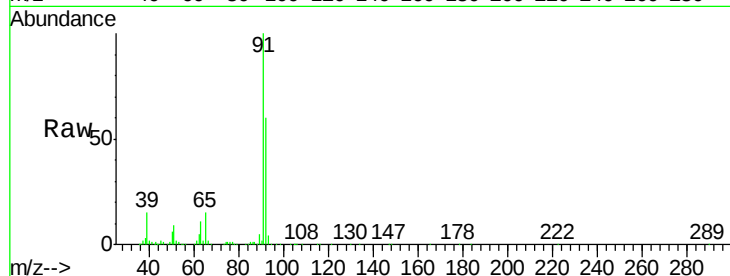
Ion Ratio Lower Upper

91 100

92 59.1 47.4 71.2

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#54

1,2-Dibromoethane

Concen: 10.16 ppbv

RT: 10.90 min Scan# 3051

Delta R.T. -0.01 min

Lab File: VL032013.D

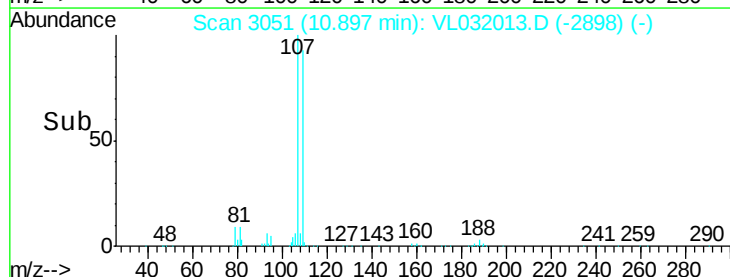
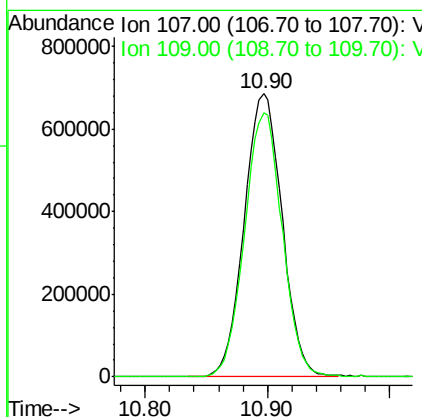
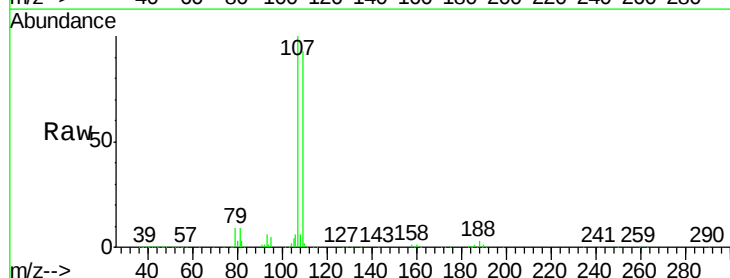
Acq: 17 May 2018 9:31

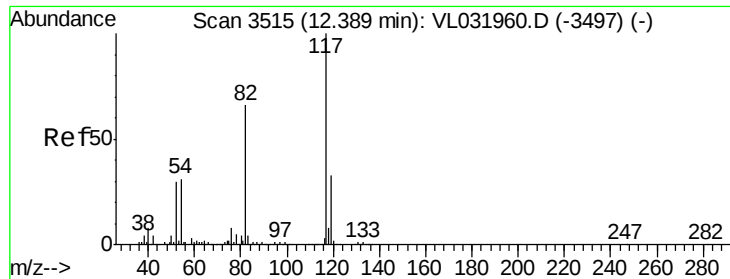
Tgt Ion: 107 Resp: 1465946

Ion Ratio Lower Upper

107 100

109 93.4 72.1 108.1





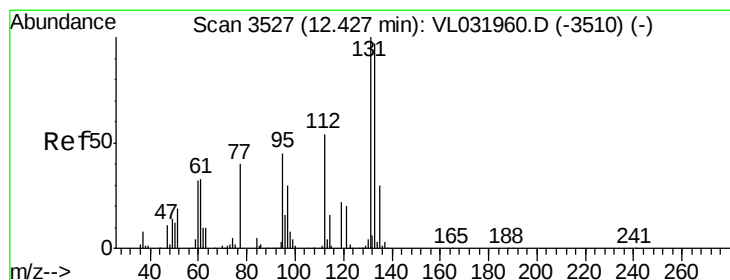
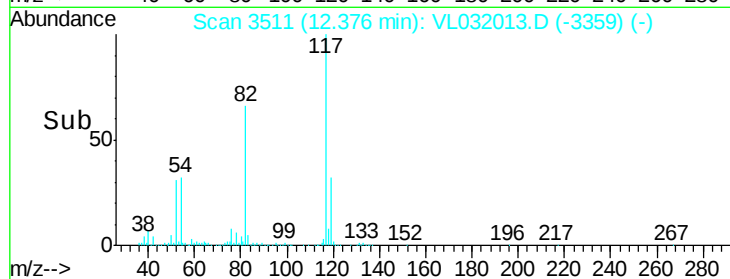
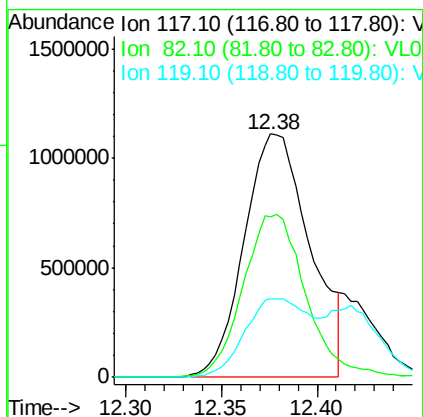
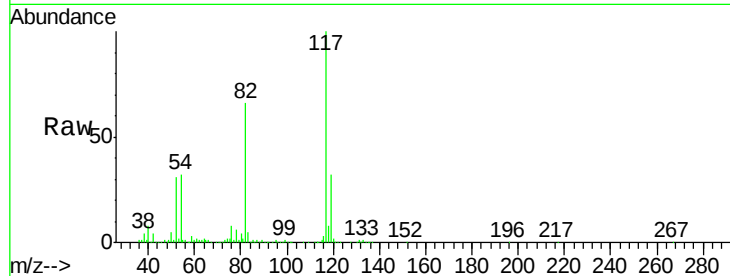
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.38 min Scan# 3511
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Instrument :
MSVOA_L
ClientSampleId :
VL0516ABS01

Tot Ion:117 Resp: 2670603
Ion Ratio Lower Upper
117 100
82 64.0 51.6 77.4
119 55.6 44.2 66.4

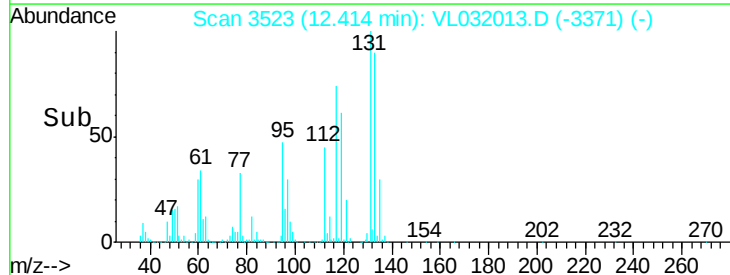
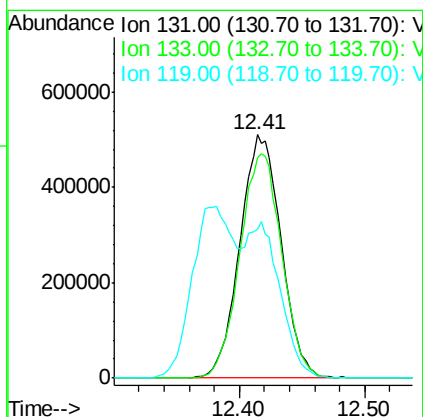
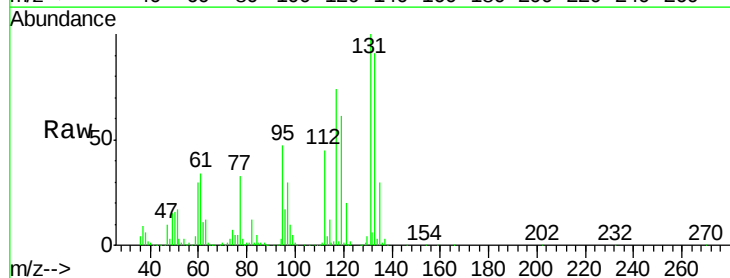
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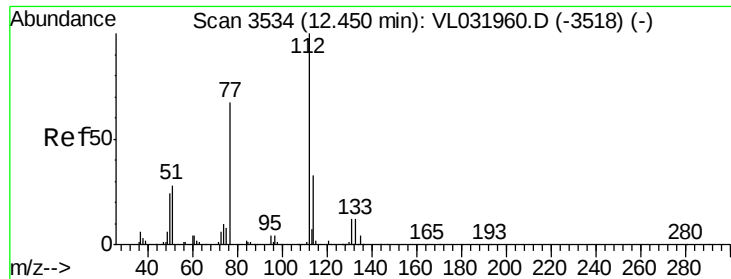
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.52 ppbv
RT: 12.41 min Scan# 3523
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Tgt Ion:131 Resp: 1158081
Ion Ratio Lower Upper
131 100
133 94.4 76.2 114.4
119 57.3 44.7 67.1





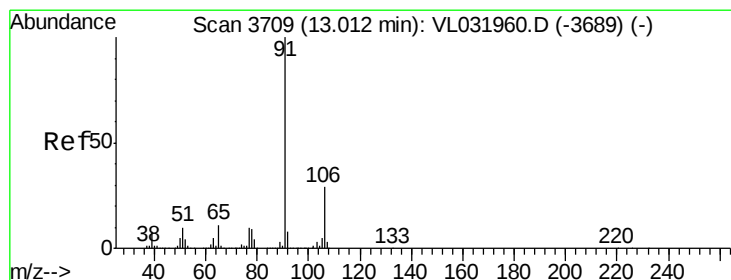
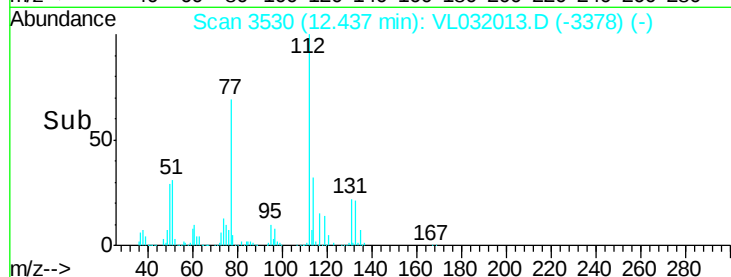
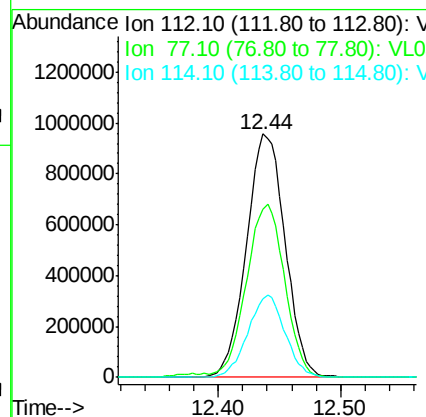
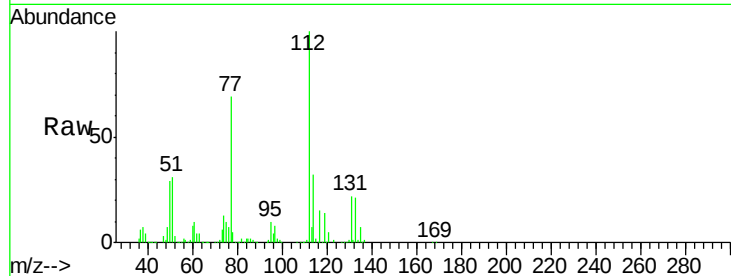
#57
Chlorobenzene
Concen: 9.05 ppbv
RT: 12.44 min Scan# 3530
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Instrument :
MSVOA_L
ClientSampleId :
VL0516ABS01

Tot Ion:112 Resp: 2084552
Ion Ratio Lower Upper
112 100
77 68.8 54.6 82.0
114 32.0 29.2 35.6

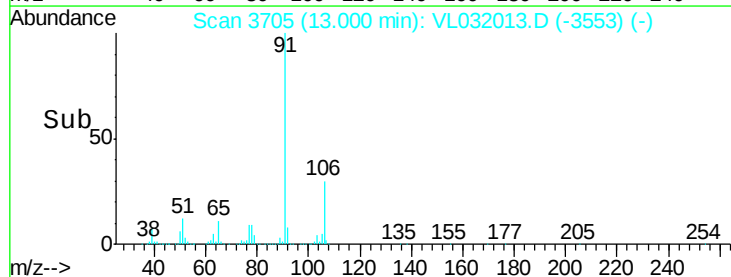
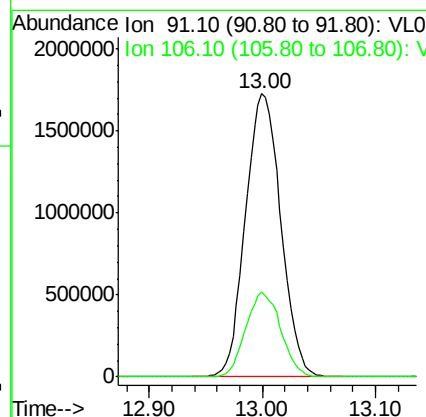
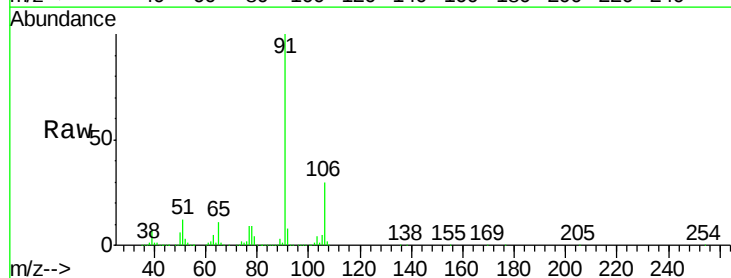
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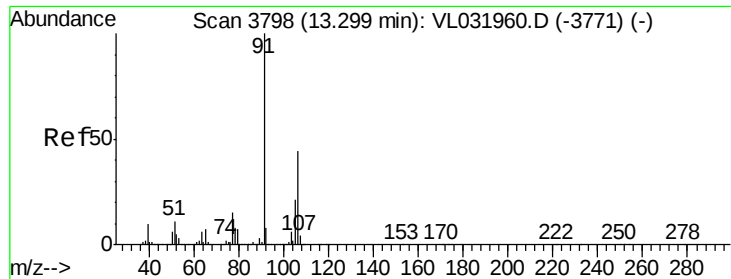
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#58
Ethyl Benzene
Concen: 9.81 ppbv
RT: 13.00 min Scan# 3705
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Tgt Ion: 91 Resp: 3752038
Ion Ratio Lower Upper
91 100
106 29.9 23.4 35.2





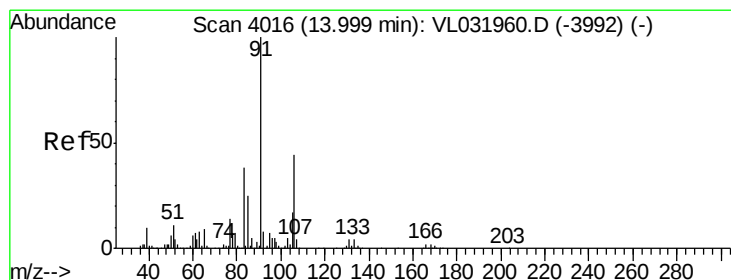
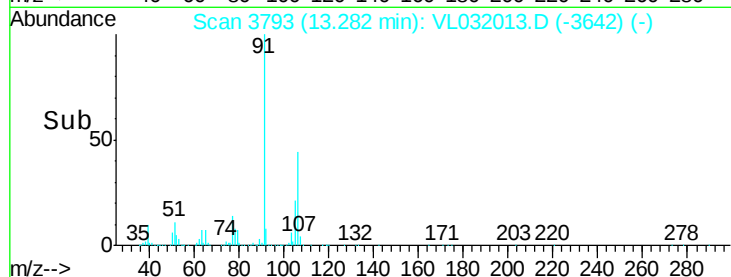
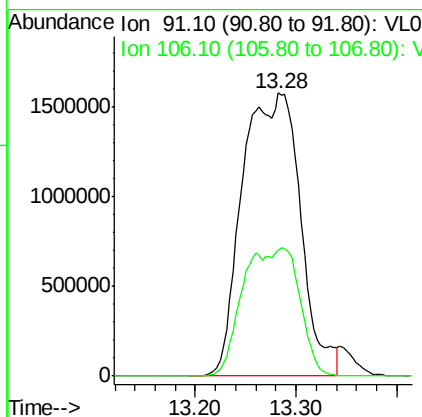
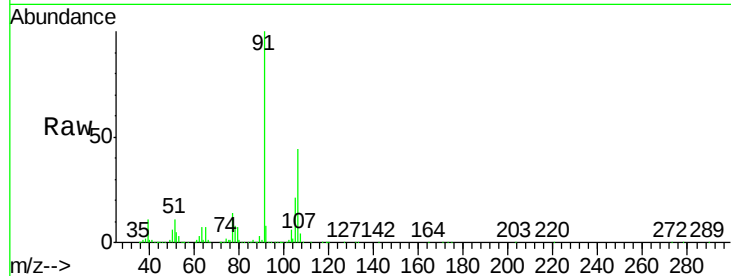
#59
m/p-Xylene
Concen: 19.37 ppbv m
RT: 13.28 min Scan# 3793
Delta R.T. -0.02 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Instrument :
MSVOA_L
ClientSampleId :
VL0516ABS01

Tot Ion: 91 Resp: 6284802
Ion Ratio Lower Upper
91 100
106 44.2 35.9 53.9

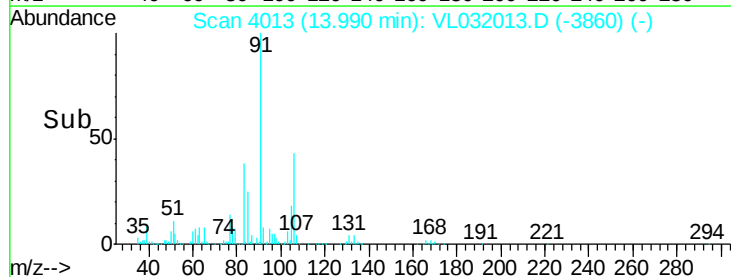
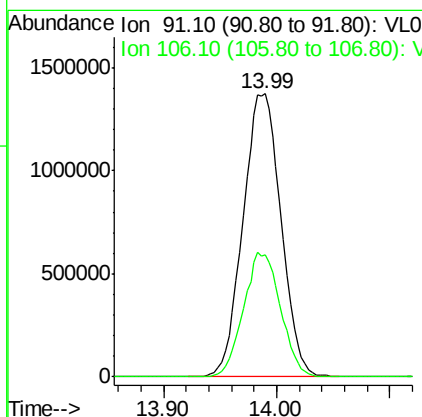
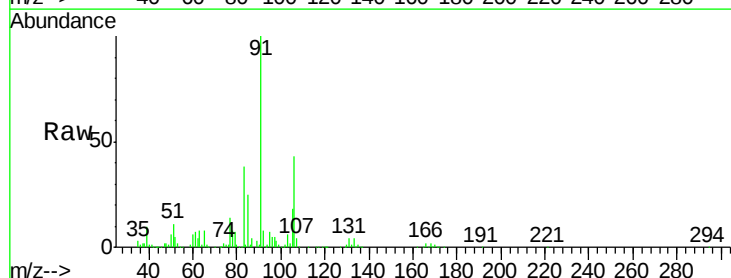
Manual Integrations
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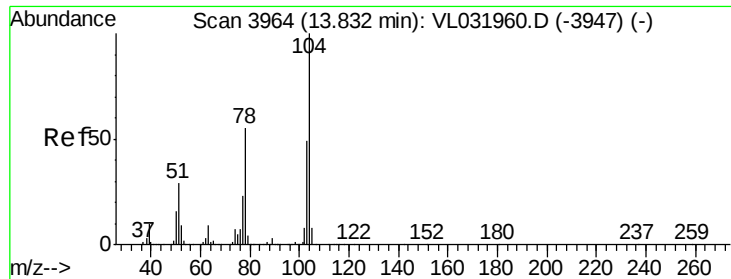
MMDadoda
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#60
o-Xylene
Concen: 9.84 ppbv
RT: 13.99 min Scan# 4013
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Tgt Ion: 91 Resp: 3202538
Ion Ratio Lower Upper
91 100
106 42.9 21.5 64.5





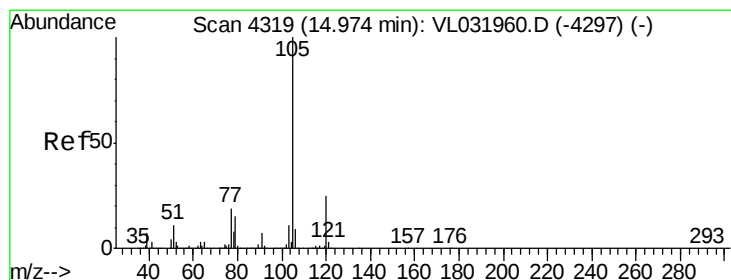
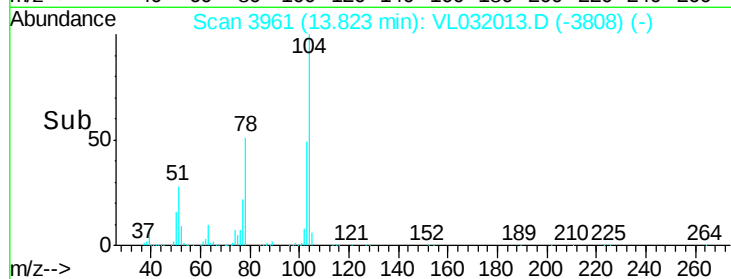
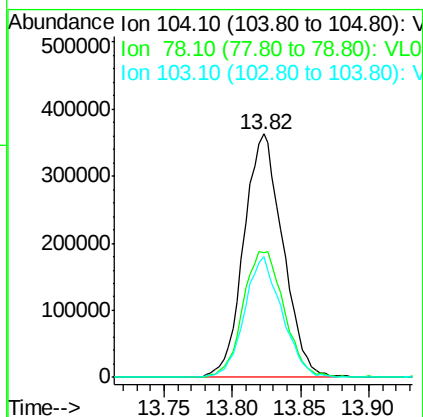
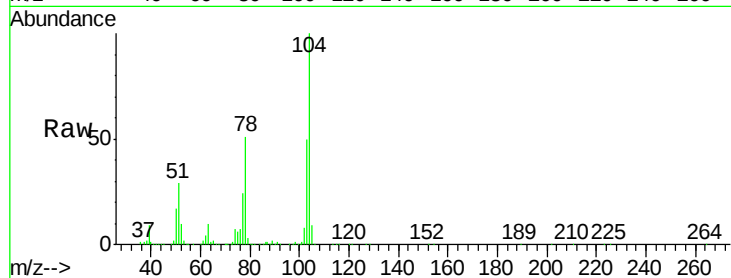
#61
Stvrene
Concen: 10.93 ppbv
RT: 13.82 min Scan# 3961
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Instrument :
MSVOA_L
ClientSampleId :
VL0516ABS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.6	43.8	65.8
103	47.7	38.4	57.6

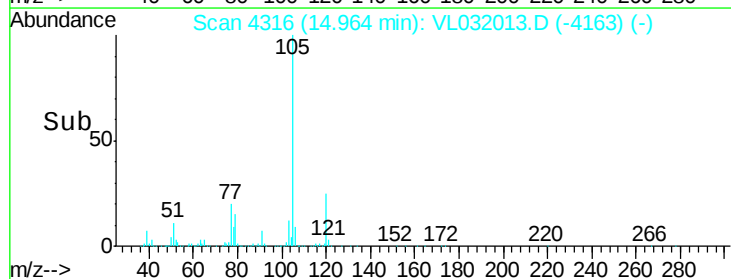
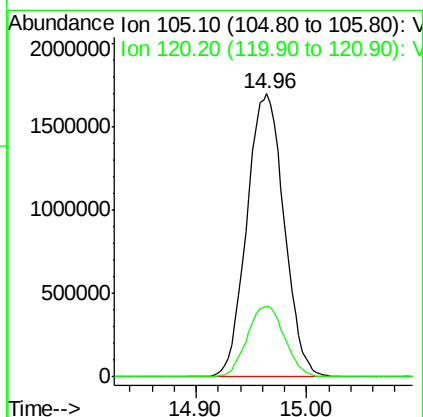
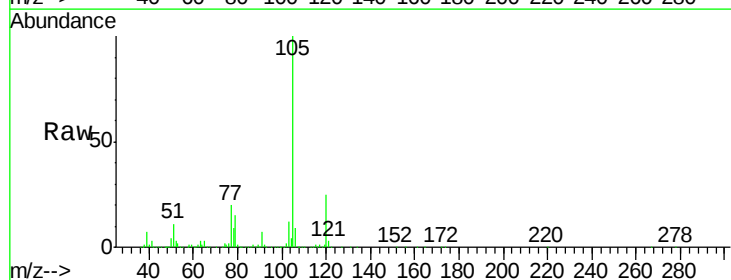
Manual Integrations
APPROVED

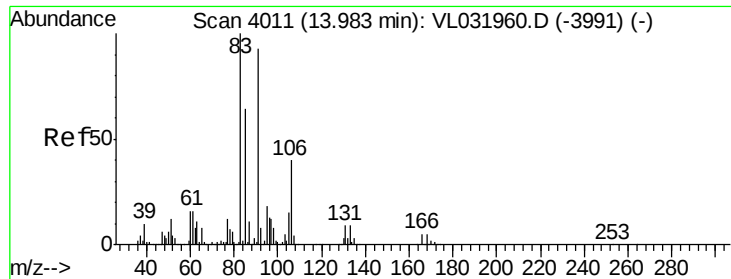
MMDadoda
5/17/2018 3:34:18 PM



#62
Isopropylbenzene
Concen: 9.55 ppbv
RT: 14.96 min Scan# 4316
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.2	19.9	29.9





#63

1,1,2,2-Tetrachloroethane

Concen: 9.19 ppbv

RT: 13.97 min Scan# 4008

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Instrument :

MSVOA_L

ClientSampleId :

VL0516ABS01

Tot Ion: 83 Resp: 2125832

Ion Ratio Lower Upper

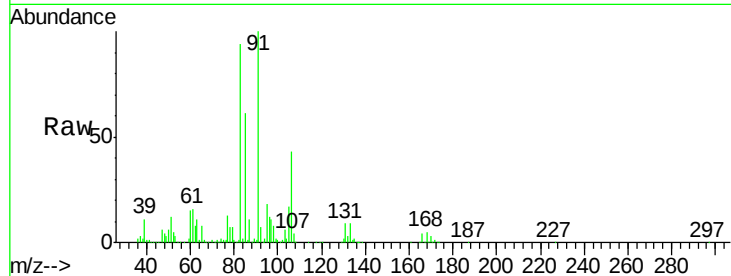
83 100

131 9.5 4.9 14.7

85 65.1 32.7 98.1

Manual Integrations
APPROVED

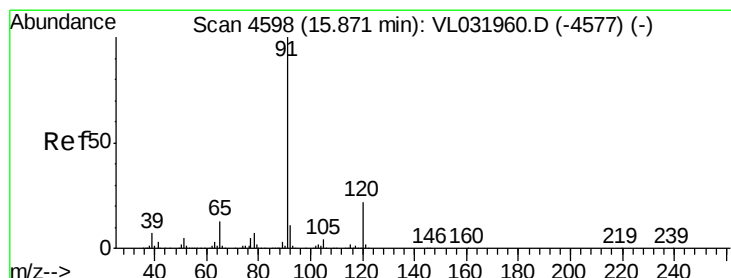
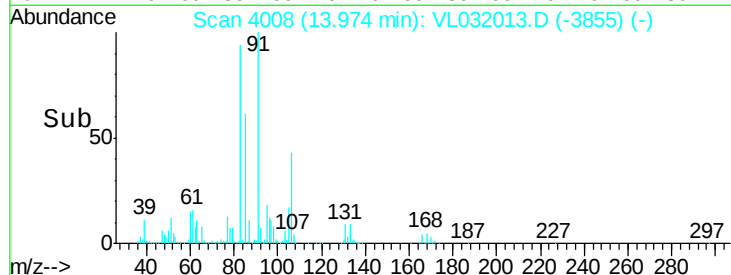
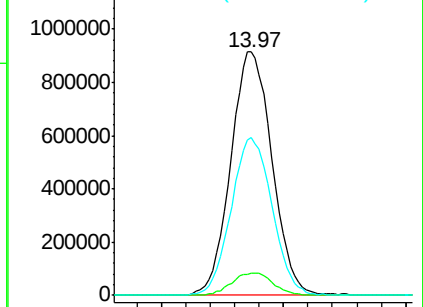
MMDadoda
5/17/2018 3:34:18 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.46 ppbv

RT: 15.86 min Scan# 4594

Delta R.T. -0.01 min

Lab File: VL032013.D

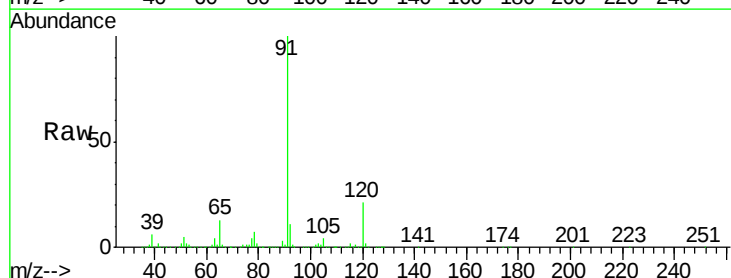
Acq: 17 May 2018 9:31

Tgt Ion: 120 Resp: 987799

Ion Ratio Lower Upper

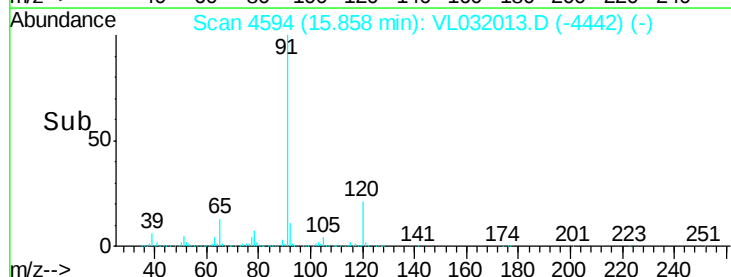
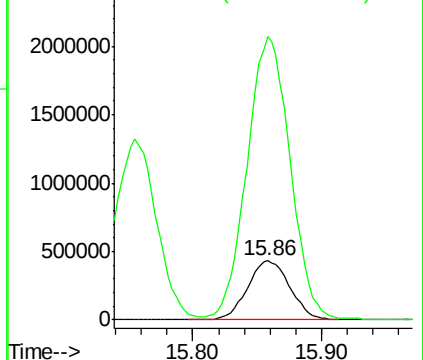
120 100

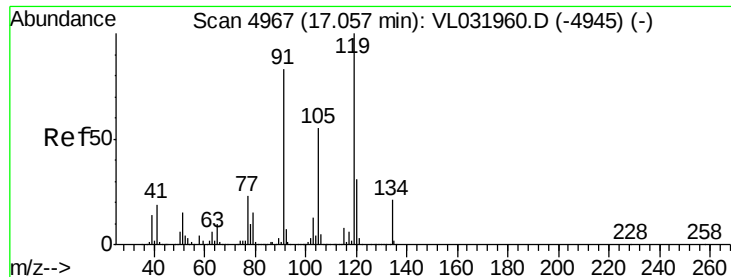
91 490.1 388.6 583.0



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





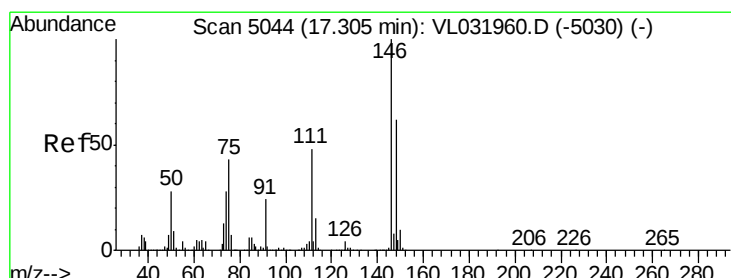
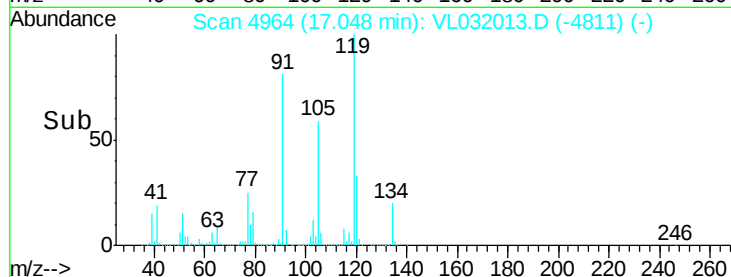
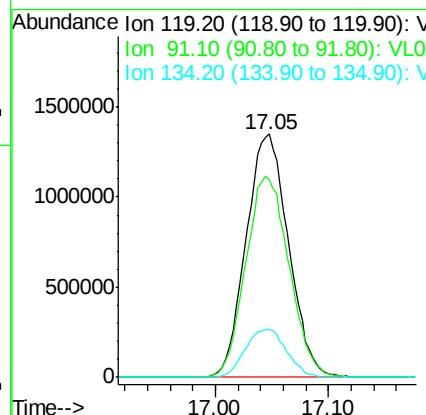
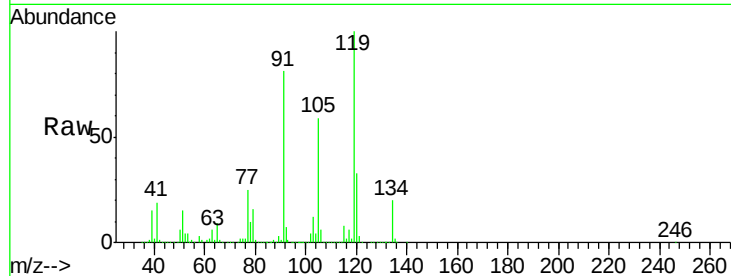
#65
tert-Butylbenzene
Concen: 9.46 ppbv
RT: 17.05 min Scan# 4964
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Instrument :
MSVOA_L
ClientSampleId :
VL0516ABS01

Tot Ion:119 Resp: 3511941
Ion Ratio Lower Upper
119 100
91 84.7 68.1 102.1
134 19.5 15.4 23.0

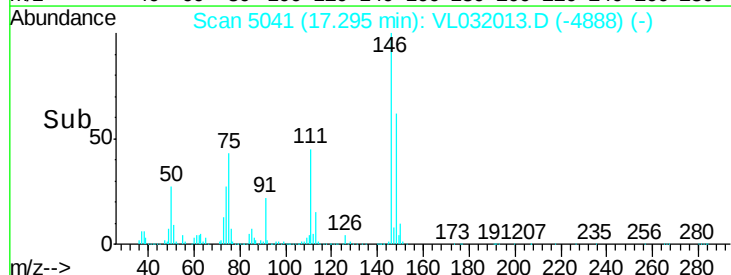
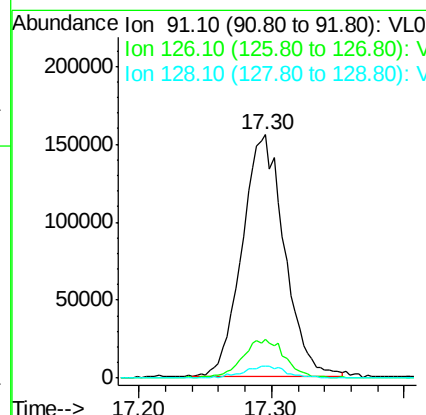
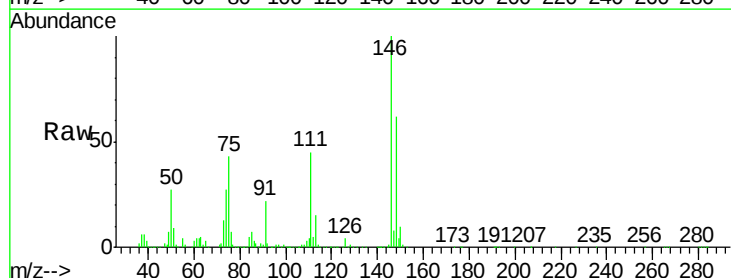
Manual Integrations
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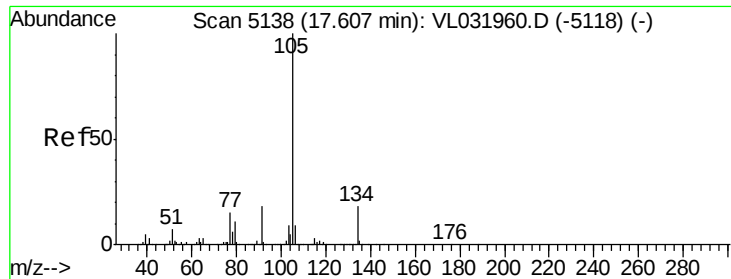
MMDadoda
5/17/2018 3:34:18 PM



#66
Benzyl Chloride
Concen: 10.11 ppbv
RT: 17.30 min Scan# 5041
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Tgt Ion: 91 Resp: 340958
Ion Ratio Lower Upper
91 100
126 16.5 13.4 20.0
128 5.3 4.6 6.8





#67

sec-Butylbenzene

Concen: 9.63 ppbv

RT: 17.59 min Scan# 5134

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Instrument :

MSVOA_L

ClientSampleId :

VL0516ABS01

Tot Ion: 105 Resp: 4963769

Ion Ratio Lower Upper

105 100

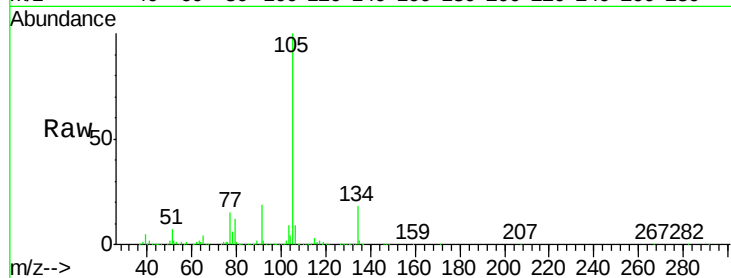
134 17.7 14.2 21.4

Manual Integrations

APPROVED

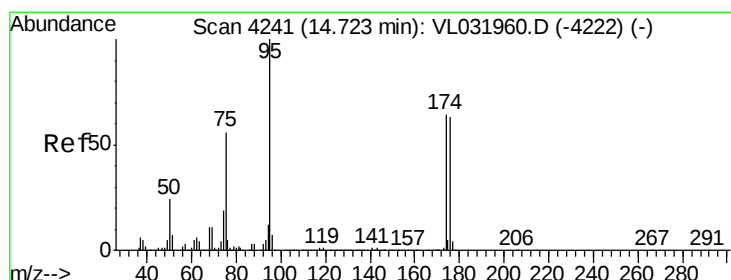
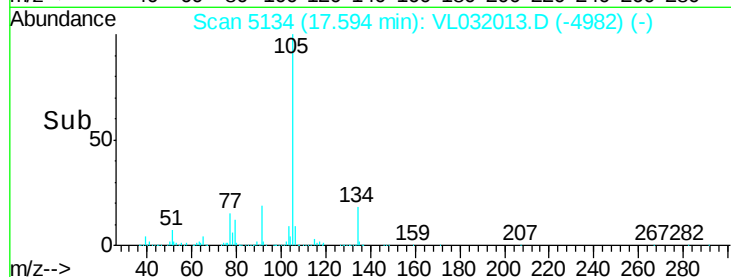
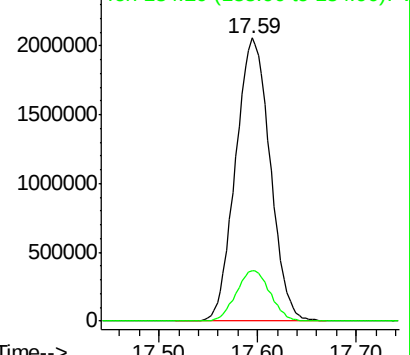
MMDadoda

5/17/2018 3:34:18 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.70 ppbv

RT: 14.71 min Scan# 4238

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

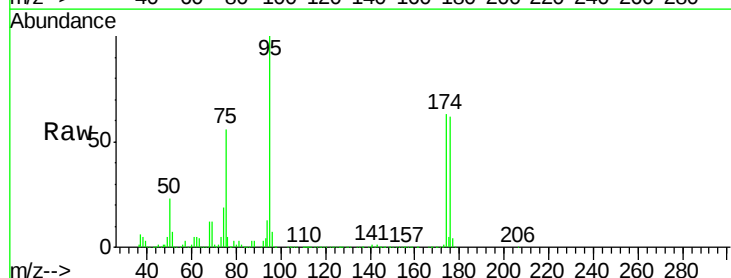
Tgt Ion: 95 Resp: 2009132

Ion Ratio Lower Upper

95 100

174 66.3 53.0 79.6

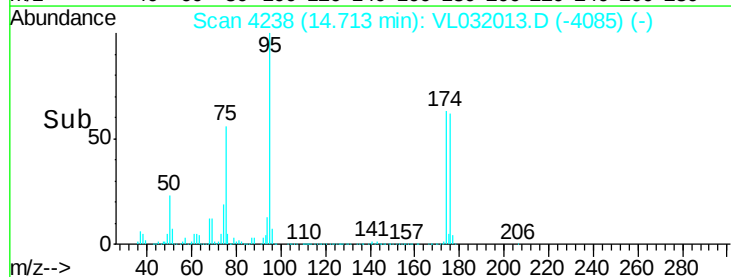
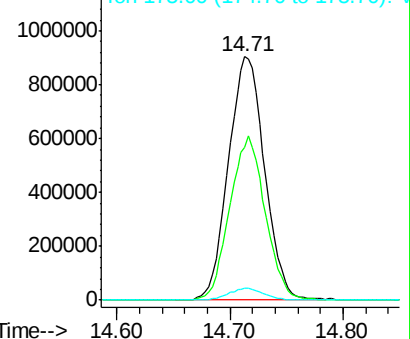
175 4.7 3.9 5.9

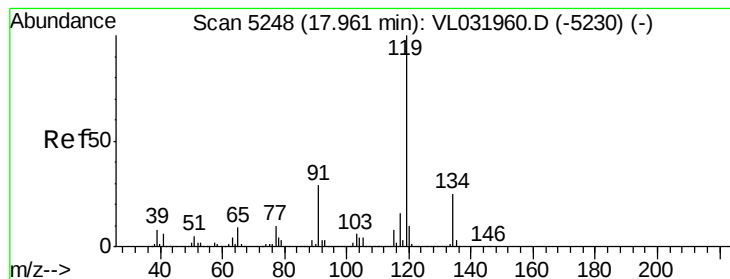


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 9.71 ppbv

RT: 17.95 min Scan# 5245

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Instrument :

MSVOA_L

ClientSampleId :

VL0516ABS01

Tot Ion: 119 Resp: 4022713

Ion Ratio Lower Upper

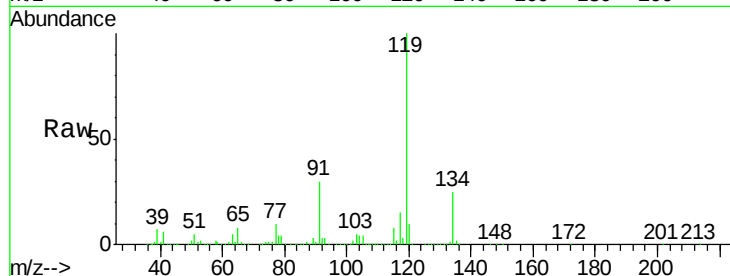
119 100

134 25.1 19.8 29.8

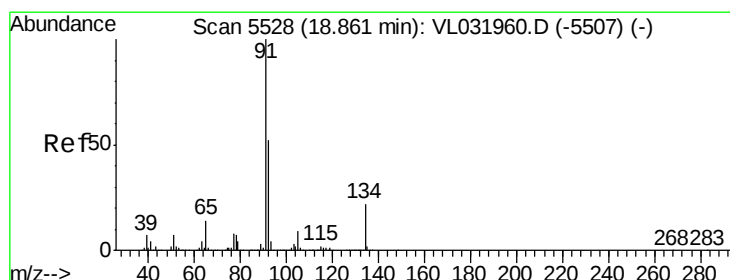
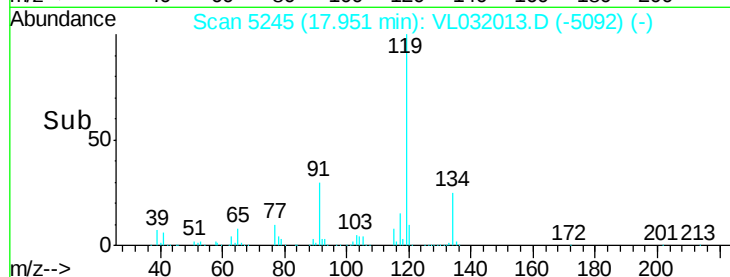
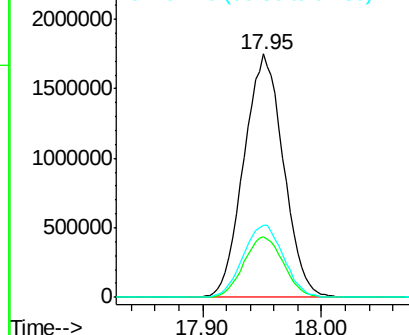
91 30.7 23.8 35.6

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: 9.81 ppbv

RT: 18.85 min Scan# 5524

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

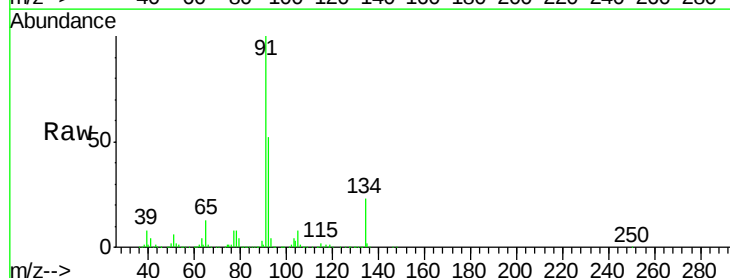
Tgt Ion: 91 Resp: 4201975

Ion Ratio Lower Upper

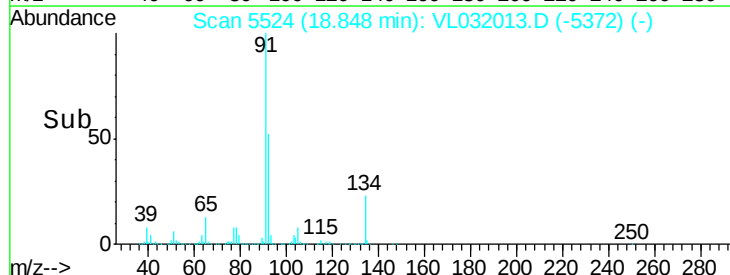
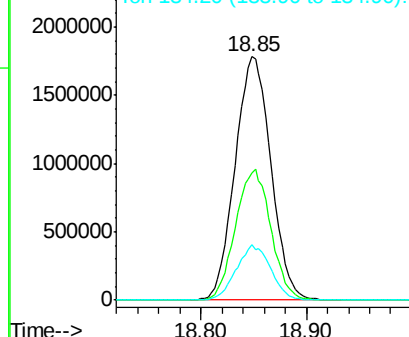
91 100

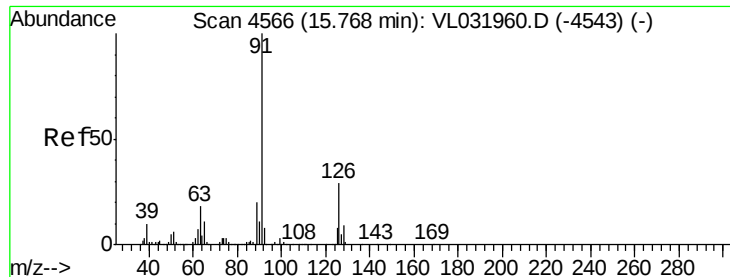
92 52.9 41.8 62.8

134 21.8 17.6 26.4



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





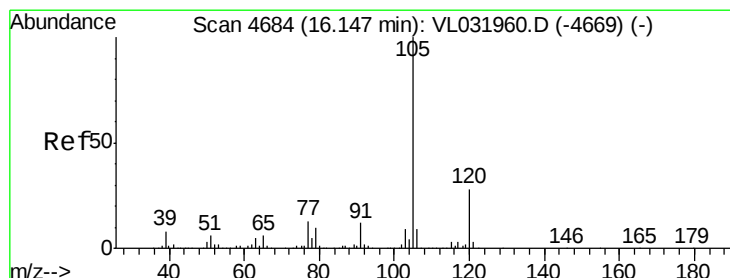
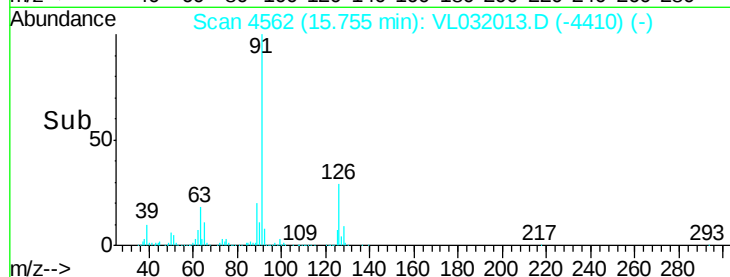
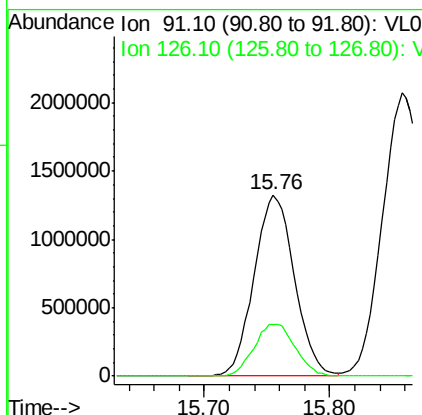
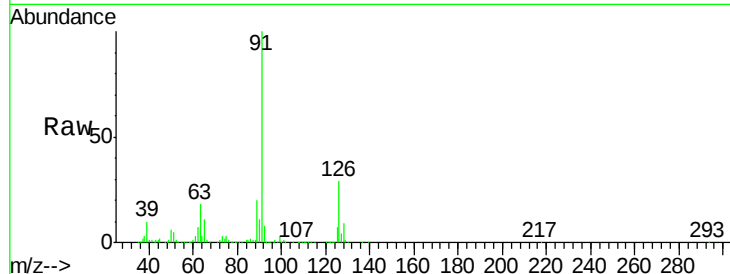
#71
 2-Chlorotoluene
 Concen: 9.74 ppbv
 RT: 15.76 min Scan# 4562
 Delta R.T. -0.01 min
 Lab File: VL032013.D
 Acq: 17 May 2018 9:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0516ABS01

Tot Ion: 91 Resp: 2966257
 Ion Ratio Lower Upper
 91 100
 126 29.5 11.8 47.2

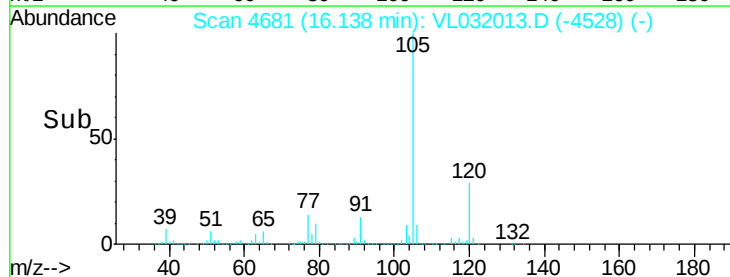
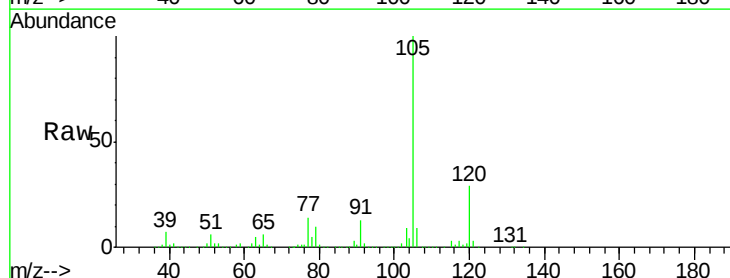
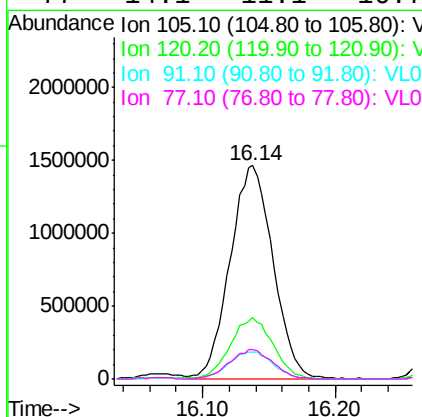
Manual Integrations
 APPROVED

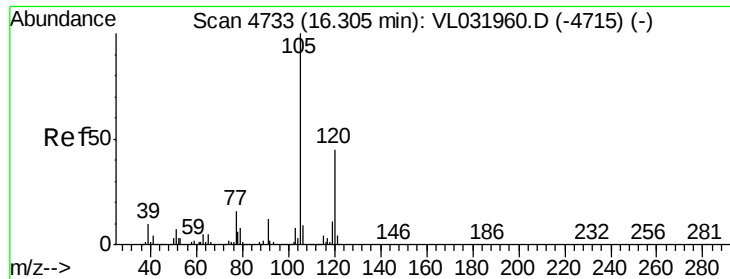
MMDadoda
 5/17/2018 3:34:18 PM



#72
 4-Ethyltoluene
 Concen: 9.89 ppbv
 RT: 16.14 min Scan# 4681
 Delta R.T. -0.01 min
 Lab File: VL032013.D
 Acq: 17 May 2018 9:31

Tgt Ion:105 Resp: 3267700
 Ion Ratio Lower Upper
 105 100
 120 29.4 22.6 33.8
 91 13.1 10.5 15.7
 77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 9.81 ppbv

RT: 16.29 min Scan# 4729

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Instrument :

MSVOA_L

ClientSampleId :

VL0516ABS01

Tot Ion:105 Resp: 2996517

Ion Ratio Lower Upper

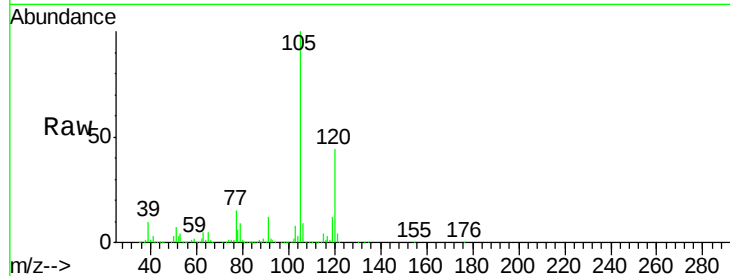
105 100

120 44.2 36.0 54.0

Manual Integrations
APPROVED

MMDadoda

5/17/2018 3:34:18 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

1500000

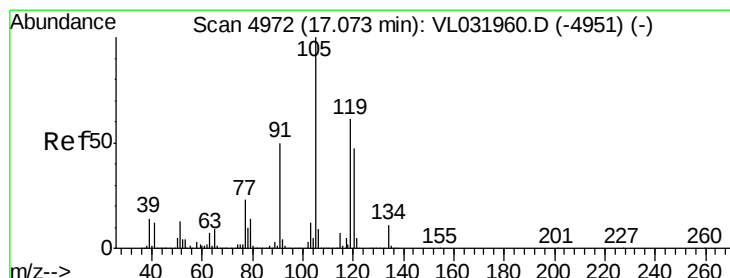
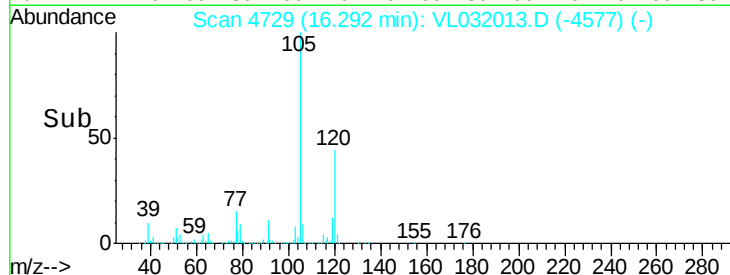
1000000

500000

0

16.20 16.30 16.40

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.43 ppbv

RT: 17.06 min Scan# 4969

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Tgt Ion:105 Resp: 3188524

Ion Ratio Lower Upper

105 100

120 44.8 37.8 56.6

91 48.5 40.5 60.7

77 21.9 18.2 27.2

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V

2000000

1500000

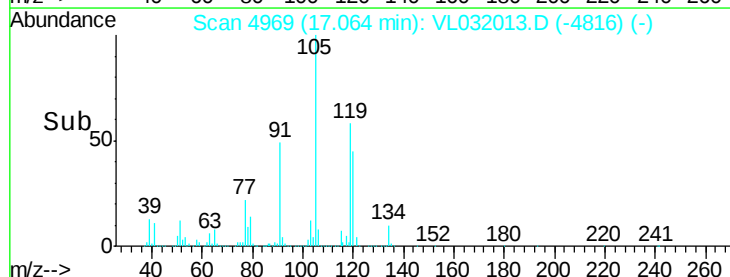
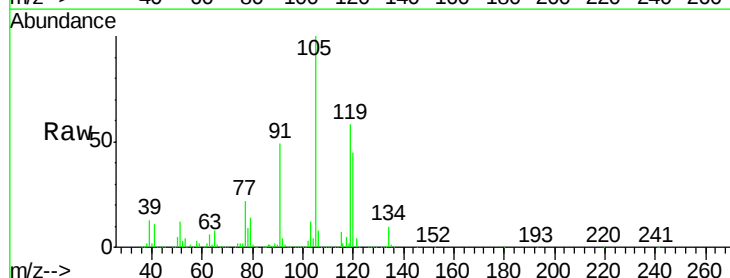
1000000

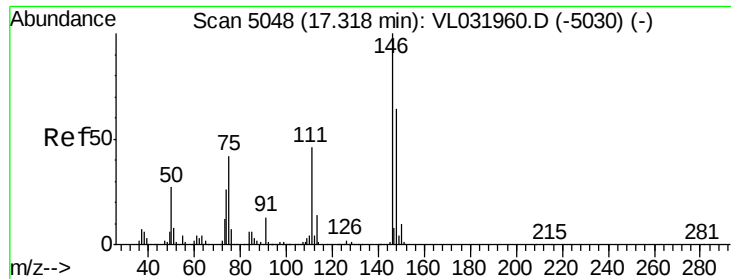
500000

0

17.00 17.10 17.20

Time-->





#75

1,3-Dichlorobenzene

Concen: 9.40 ppbv

RT: 17.30 min Scan# 5043

Delta R.T. -0.02 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

Instrument :

MSVOA_L

ClientSampleId :

VL0516ABS01

Tot Ion:146 Resp: 1960164

Ion Ratio Lower Upper

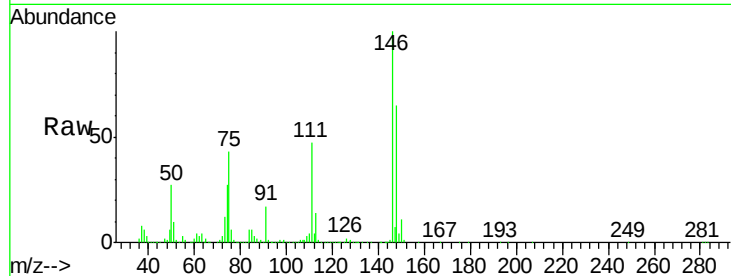
146 100

111 46.9 23.5 70.5

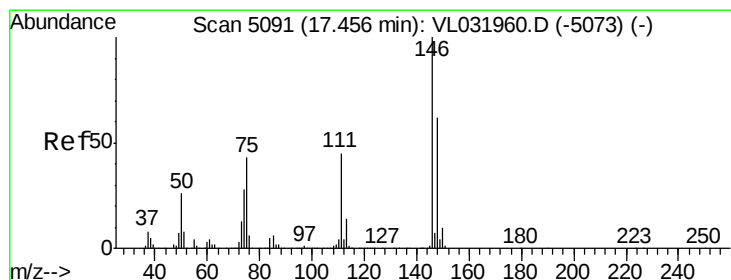
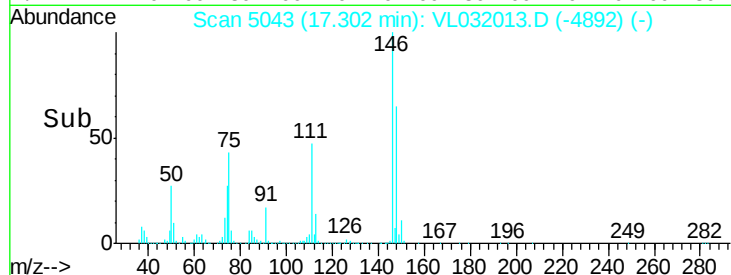
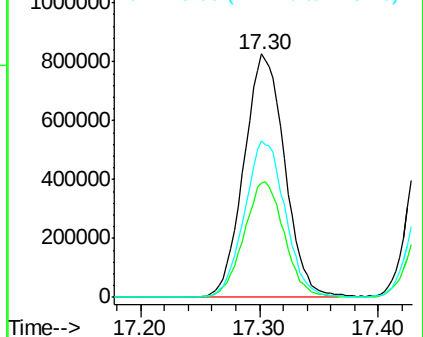
148 64.1 32.3 96.8

Manual Integrations
APPROVED

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5/17/2018 3:34:18 PM



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: 9.59 ppbv

RT: 17.45 min Scan# 5088

Delta R.T. -0.01 min

Lab File: VL032013.D

Acq: 17 May 2018 9:31

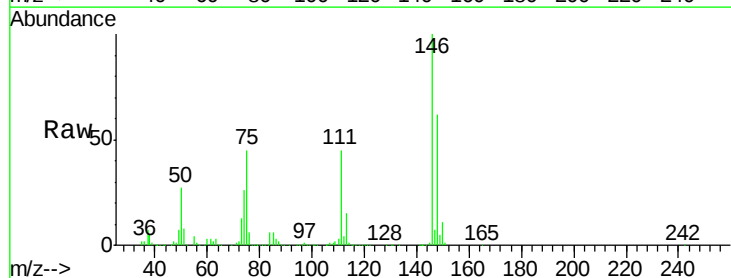
Tgt Ion:146 Resp: 1980023

Ion Ratio Lower Upper

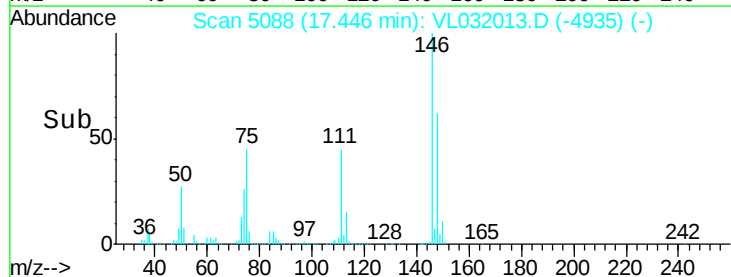
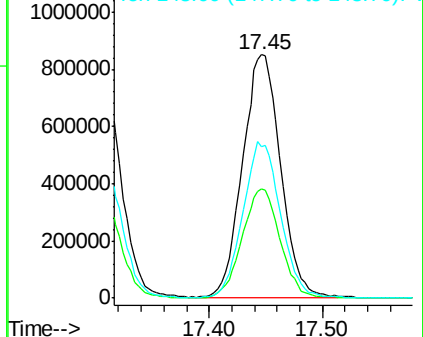
146 100

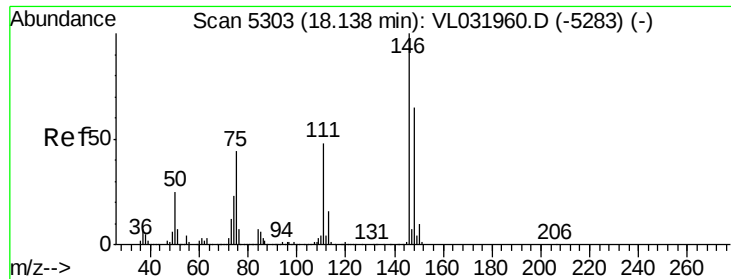
111 44.9 23.0 69.0

148 64.1 32.4 97.2



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





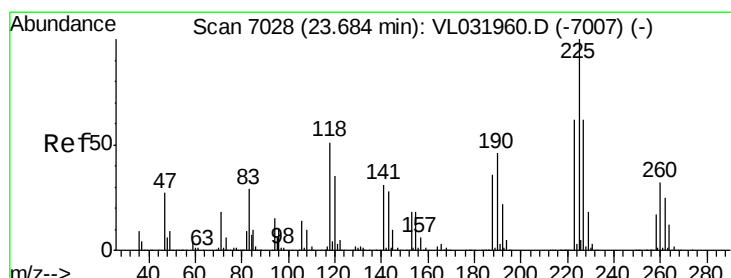
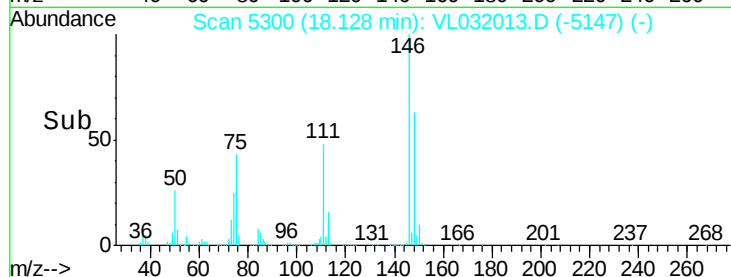
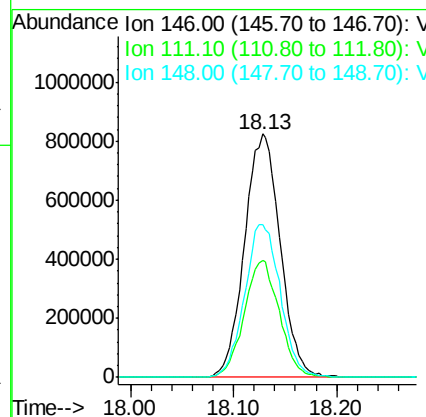
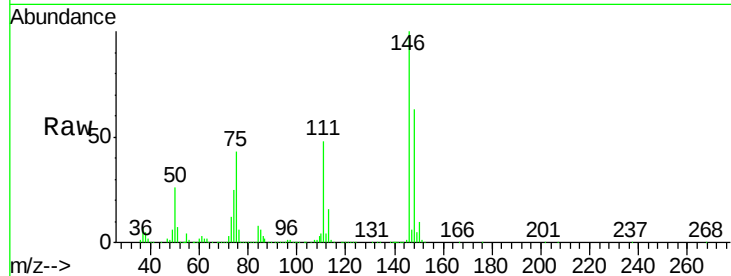
#77
 1,2-Dichlorobenzene
 Concen: 9.45 ppbv
 RT: 18.13 min Scan# 5300
 Delta R.T. -0.01 min
 Lab File: VL032013.D
 Acq: 17 May 2018 9:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0516ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.2	24.2	72.6
148	62.9	32.0	96.2

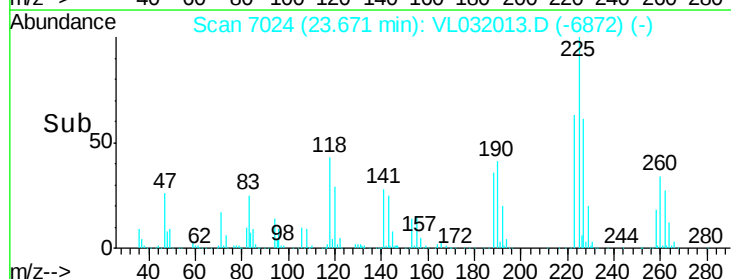
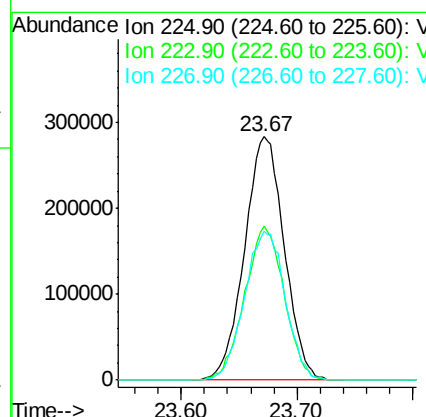
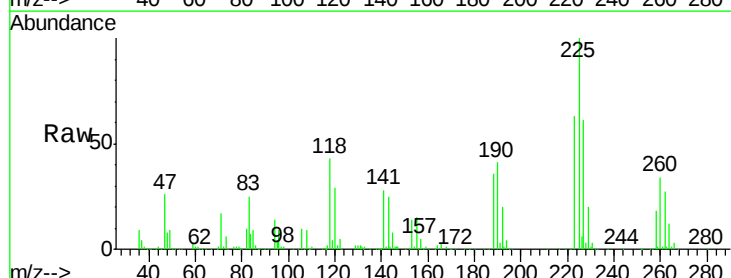
Manual Integrations
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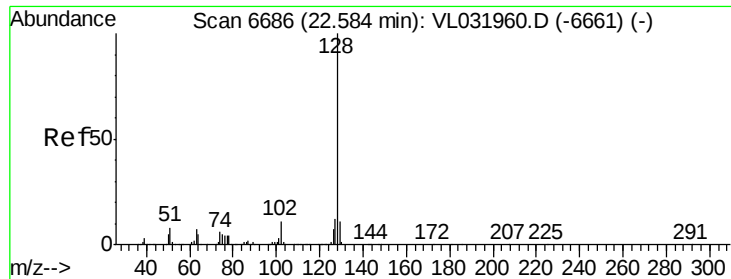
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#78
 Hexachloro-1,3-Butadiene
 Concen: 7.07 ppbv
 RT: 23.67 min Scan# 7024
 Delta R.T. -0.01 min
 Lab File: VL032013.D
 Acq: 17 May 2018 9:31

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.8	76.2
227	62.6	50.9	76.3





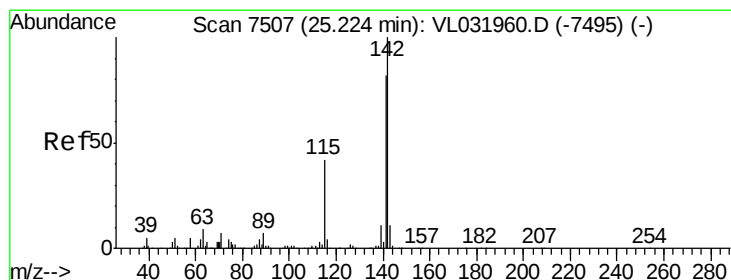
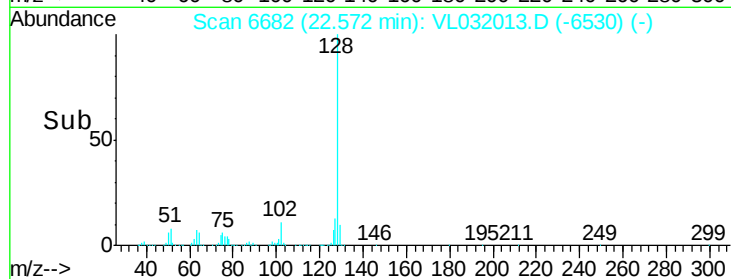
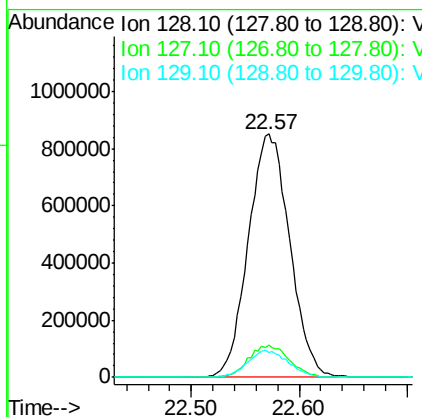
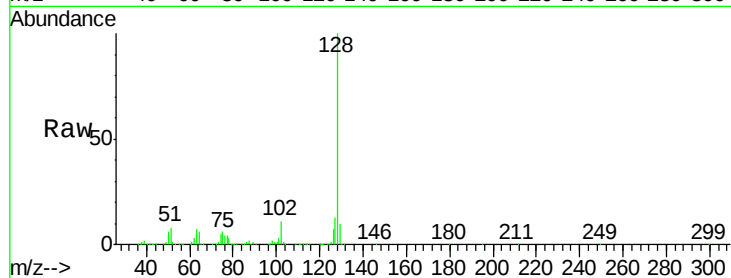
#79
Naphthalene
Concen: 9.62 ppbv
RT: 22.57 min Scan# 6682
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Instrument :
MSVOA_L
ClientSampleId :
VL0516ABS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.0	15.0
129	10.2	9.0	13.4

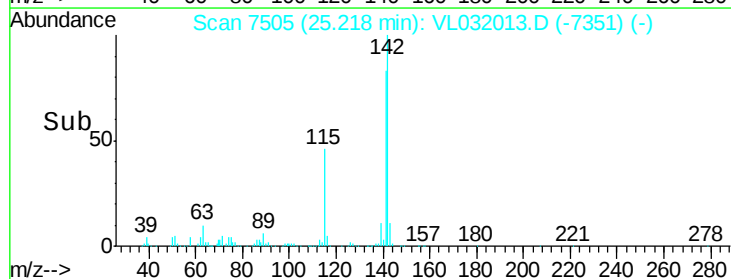
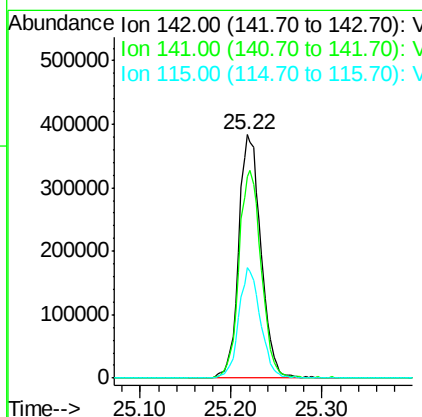
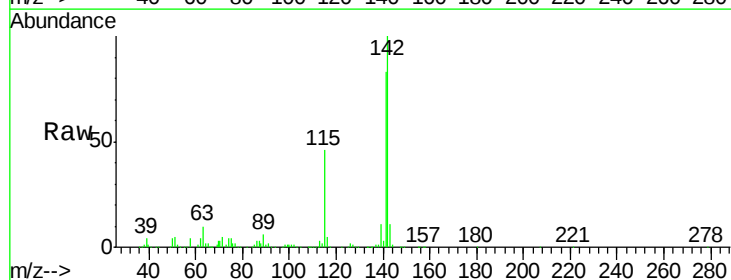
Manual Integrations
APPROVED

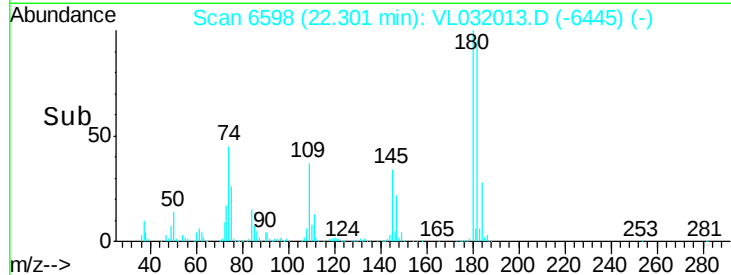
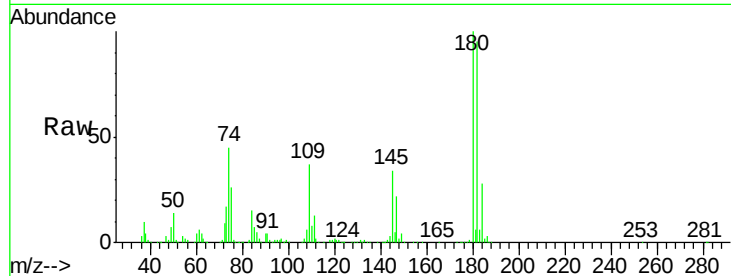
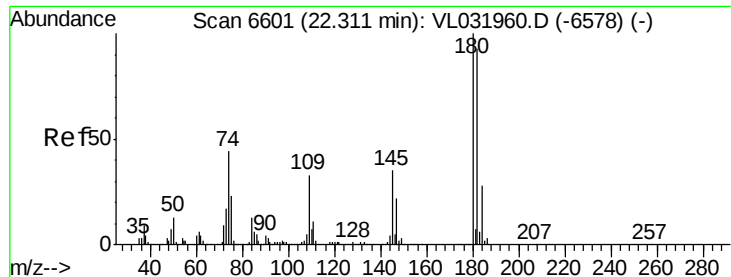
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#80
Naphthalene, 2-methyl-
Concen: 11.54 ppbv
RT: 25.22 min Scan# 7505
Delta R.T. -0.01 min
Lab File: VL032013.D
Acq: 17 May 2018 9:31

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.0	67.9	101.9
115	44.6	33.8	50.8





#81
 1,2,4-Trichlorobenzene
 Concen: 9.15 ppbv
 RT: 22.30 min Scan# 6598
 Delta R.T. -0.01 min
 Lab File: VL032013.D
 Acq: 17 May 2018 9:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0516ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.6	114.8
184	30.2	24.0	36.0

Manual Integrations
 APPROVED

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