

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL053118\
 Data File : VL032019.D
 Acq On : 31 May 2018 18:01
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 6/4/2018 10:54:56 AM

Quant Time: Jun 01 02:21:21 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL053118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 01 02:21:21 2018
 QLast Update : Fri Jun 01 01:58:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.86	49	1332639	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.40	114	2583958	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.37	117	2446622	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.70	95	1914970	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.14	85	121278	0.71	ppbv	96
3) Chlorodifluoromethane	3.08	51	72019	0.58	ppbv	100
4) Chloromethane	3.24	50	33725	0.52	ppbv	93
5) Vinyl Chloride	3.37	62	37208	0.50	ppbv	98
6) Bromomethane	3.59	94	26331	0.55	ppbv	94
7) Chloroethane	3.68	64	16134	0.57	ppbv	96
8) Dichlorotetrafluoroethane	3.29	85	94760	0.54	ppbv	99
9) Propene	3.10	41	18923m	0.42	ppbv	
10) Heptane	8.36	43	62835	0.40	ppbv	94
11) Trichlorofluoromethane	4.09	101	150716	0.70	ppbv	85
12) 1,1,2-Trichlorotrifluoroet	4.64	101	94217	0.61	ppbv	98
13) Ethanol	3.74	45	9591m	0.56	ppbv	
14) Bromoethene	3.87	108	30330	0.55	ppbv	95
15) Acetone	4.00	43	81774	0.44	ppbv	96
16) 1,3-Butadiene	3.44	39	31660	0.53	ppbv	97
17) tert-Butyl alcohol	4.47	59	41699m	0.54	ppbv	
18) 1,1-Dichloroethene	4.44	96	39906	0.60	ppbv	84
19) Isopropyl Alcohol	4.13	45	59642	0.58	ppbv #	92
20) Methylene Chloride	4.50	84	41726	0.65	ppbv	95
21) Allyl Chloride	4.57	41	57010	0.53	ppbv	96
22) trans-1,2-Dichloroethene	5.06	96	43792	0.59	ppbv	95
23) Vinyl Acetate	5.26	43	108551	0.50	ppbv #	97
24) 1,1-Dichloroethane	5.19	63	116766	0.57	ppbv	98
25) Ethyl Acetate	5.88	43	164387	0.51	ppbv	99
26) Hexane	5.88	57	70802	0.46	ppbv	86
27) Carbon Disulfide	4.72	76	91653	0.52	ppbv #	88
28) Methyl tert-Butyl Ether	5.23	73	83800	0.45	ppbv	98
29) Chloroform	5.95	83	136842	0.56	ppbv	96
30) Cyclohexane	7.36	84	38061m	0.38	ppbv	
31) cis-1,2-Dichloroethene	5.74	61	56822m	0.41	ppbv	
32) 1,1,1-Trichloroethane	6.73	97	102863m	0.46	ppbv	
34) 2-Butanone	5.44	43	97431m	0.46	ppbv	
35) Carbon Tetrachloride	7.25	117	109525	0.53	ppbv	93
36) Benzene	7.12	78	105066	0.43	ppbv	95
37) 1,2-Dichloroethane	6.52	62	81236	0.47	ppbv	97
38) Trichloroethene	8.08	130	40893m	0.44	ppbv	
39) 1,2-Dichloropropane	7.85	63	41027	0.48	ppbv #	86
40) 1,4-Dioxane	8.12	88	16998m	0.45	ppbv	
41) Tetrahydrofuran	6.28	42	30832m	0.33	ppbv	
42) Bromodichloromethane	8.03	83	100980	0.51	ppbv	99
43) Methyl Methacrylate	8.26	69	31169m	0.38	ppbv	

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Manual Integrations
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Quant Time: Jun 01 02:21:21 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL053118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 01 02:21:21 2018
 QLast Update : Fri Jun 01 01:58:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	8.11	57	174534	0.44	ppbv	94
45) t-1,3-Dichloropropene	9.53	75	36553m	0.33	ppbv	
46) cis-1,3-Dichloropropene	8.95	75	51865m	0.38	ppbv	
47) 1,1,2-Trichloroethane	9.74	97	50671	0.50	ppbv #	88
48) Dibromochloromethane	10.58	129	81198	0.50	ppbv	100
49) Bromoform	13.33	173	58892	0.46	ppbv	97
50) 4-Methyl-2-Pentanone	9.01	43	84028	0.42	ppbv	96
51) 2-Hexanone	10.42	43	68546m	0.37	ppbv	
52) Tetrachloroethene	11.49	164	42727m	0.47	ppbv	
53) Toluene	10.07	91	94771	0.36	ppbv	98
54) 1,2-Dibromoethane	10.88	107	68318	0.46	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.41	131	62701	0.56	ppbv #	1
57) Chlorobenzene	12.42	112	121798m	0.57	ppbv	
58) Ethyl Benzene	12.99	91	136371	0.38	ppbv	92
59) m/p-Xylene	13.28	91	270505m	0.89	ppbv	
60) o-Xylene	13.97	91	127620m	0.42	ppbv	
61) Styrene	13.81	104	19390m	0.32	ppbv	
62) Isopropylbenzene	14.95	105	175570m	0.45	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.96	83	120468	0.56	ppbv	97
64) n-propylbenzene	15.85	120	42409m	0.44	ppbv	
65) tert-Butylbenzene	17.03	119	147709	0.43	ppbv	93
66) Benzyl Chloride	17.28	91	17830m	0.56	ppbv	
67) sec-Butylbenzene	17.58	105	225308	0.47	ppbv	99
69) p-Isopropyltoluene	17.94	119	157430m	0.41	ppbv	
70) n-Butylbenzene	18.84	91	167379m	0.42	ppbv	
71) 2-Chlorotoluene	15.75	91	119474	0.42	ppbv	100
72) 4-Ethyltoluene	16.13	105	114405	0.37	ppbv #	93
73) 1,3,5-Trimethylbenzene	16.29	105	116750	0.41	ppbv	88
74) 1,2,4-Trimethylbenzene	17.05	105	146954	0.47	ppbv	91
75) 1,3-Dichlorobenzene	17.29	146	113284	0.58	ppbv	92
76) 1,4-Dichlorobenzene	17.44	146	98431	0.51	ppbv	97
77) 1,2-Dichlorobenzene	18.11	146	104863m	0.54	ppbv	
78) Hexachloro-1,3-Butadiene	23.66	225	47227m	0.59	ppbv	
79) Naphthalene	22.56	128	49411m	0.23	ppbv	
80) Naphthalene, 2-methyl-	25.22	142	4395	0.08	ppbv #	83
81) 1,2,4-Trichlorobenzene	22.28	180	38824m	0.32	ppbv	

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

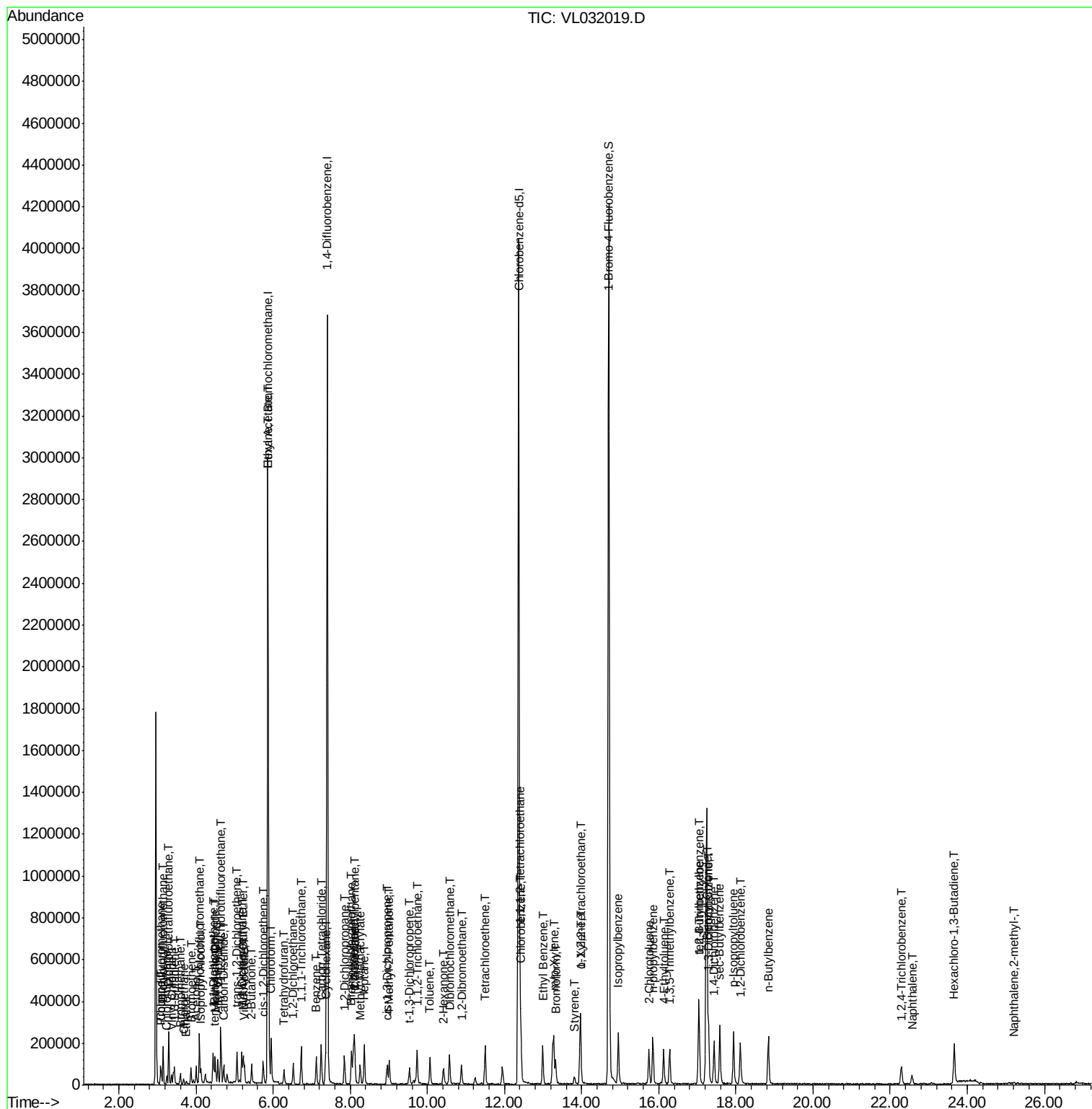
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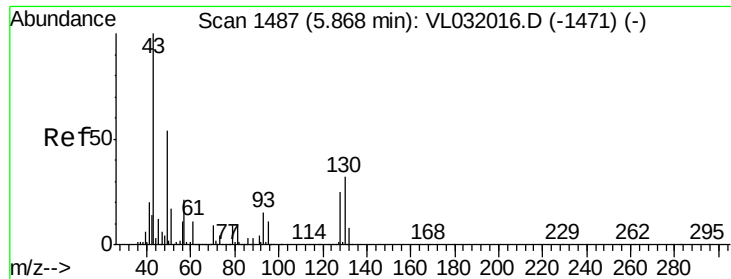
Instrument :
MSVOA_L
ClientSampleId :
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 01 01:58:27 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.86 min Scan# 1486

Delta R.T. -0.00 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1332639

Ion Ratio Lower Upper

49 100

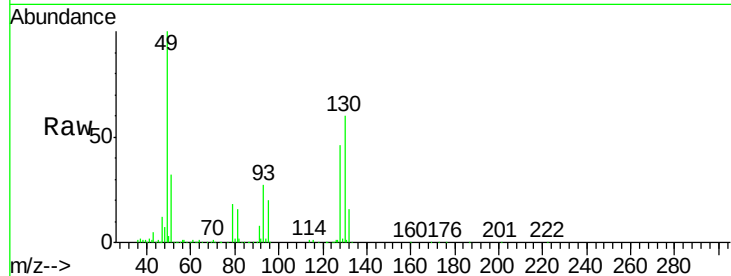
128 49.1 24.1 72.3

130 62.7 30.9 92.8

Manual Integrations
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6/4/2018 10:54:56 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.86

800000

600000

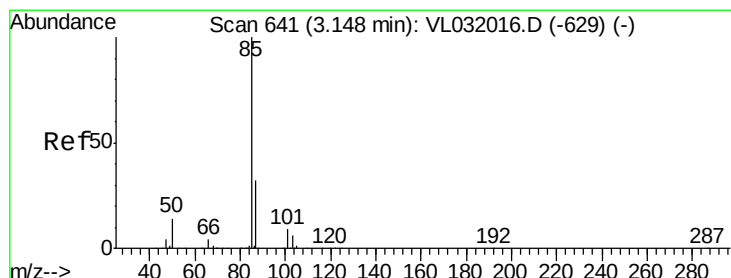
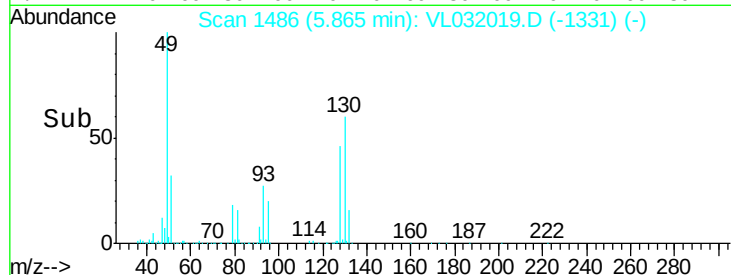
400000

200000

0

5.80 5.85 5.90 5.95

Time-->



#2

Dichlorodifluoromethane

Concen: 0.71 ppbv

RT: 3.14 min Scan# 640

Delta R.T. -0.00 min

Lab File: VL032019.D

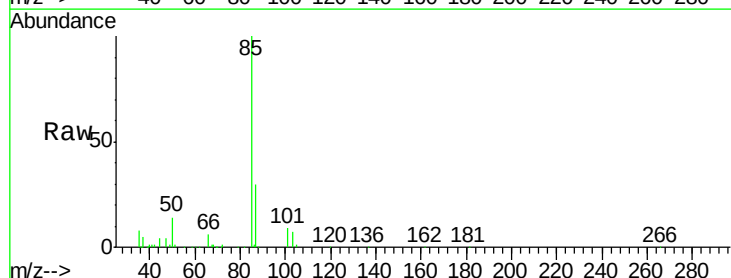
Acq: 31 May 2018 18:01

Tgt Ion: 85 Resp: 121278

Ion Ratio Lower Upper

85 100

87 29.9 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.14

100000

80000

60000

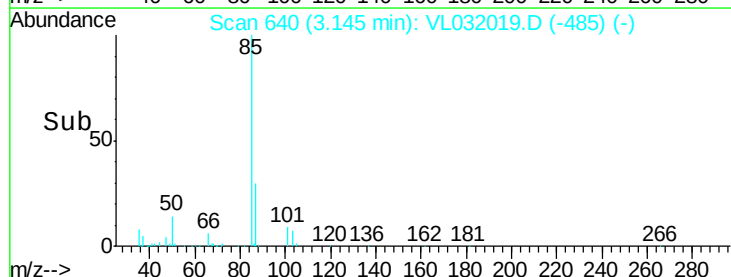
40000

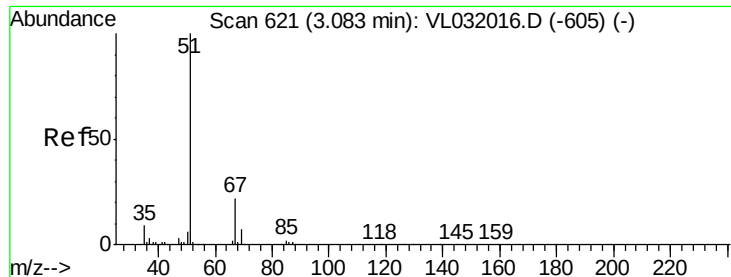
20000

0

3.10 3.15 3.20

Time-->





#3

Chlorodifluoromethane

Concen: 0.58 ppbv

RT: 3.08 min Scan# 621

Delta R.T. 0.00 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 72019

Ion Ratio Lower Upper

51 100

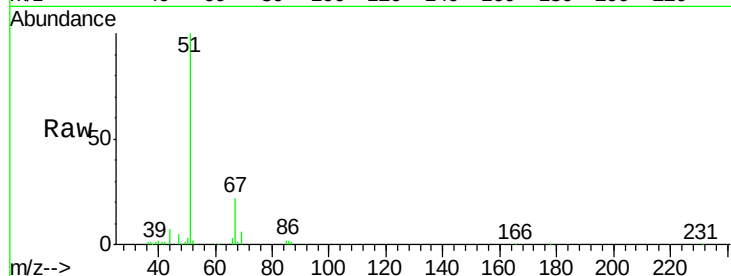
67 21.6 17.2 25.8

Manual Integrations

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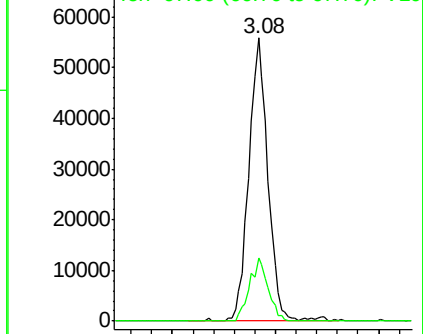
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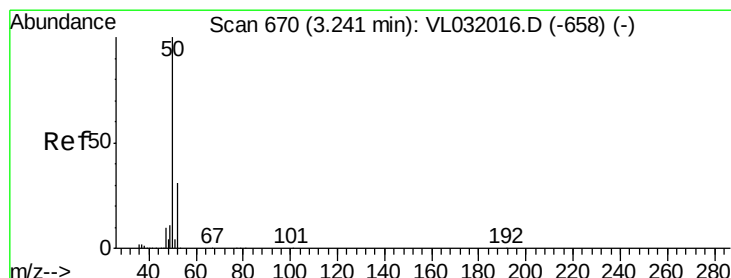
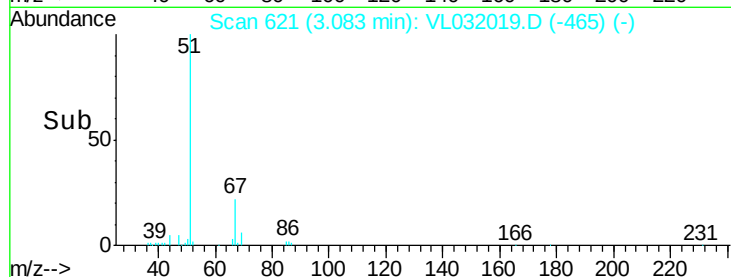


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 0.52 ppbv

RT: 3.24 min Scan# 671

Delta R.T. 0.00 min

Lab File: VL032019.D

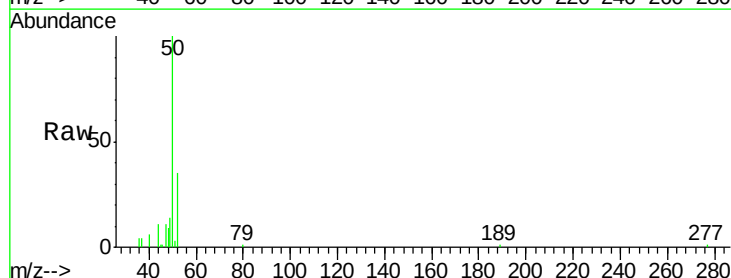
Acq: 31 May 2018 18:01

Tgt Ion: 50 Resp: 33725

Ion Ratio Lower Upper

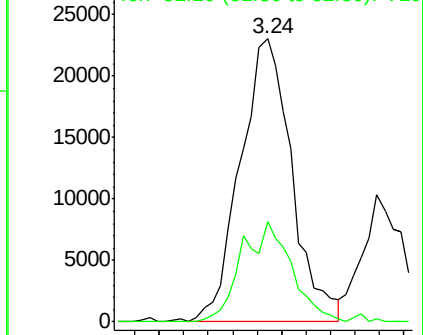
50 100

52 35.3 25.0 37.6

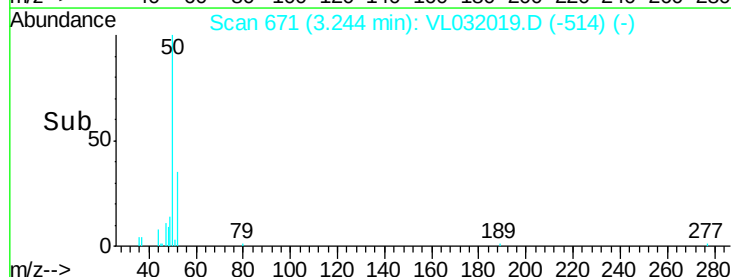


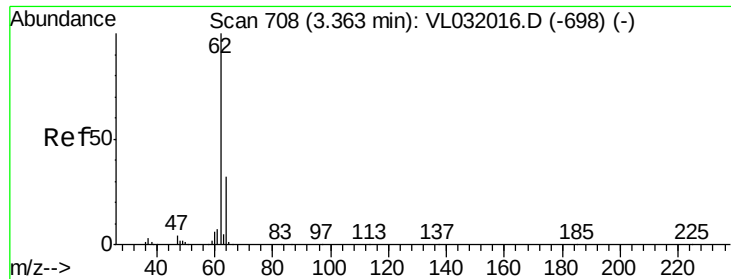
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->





#5

Vinyl Chloride

Concen: 0.50 ppbv

RT: 3.37 min Scan# 709

Delta R.T. 0.00 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 37208

Ion Ratio Lower Upper

62 100

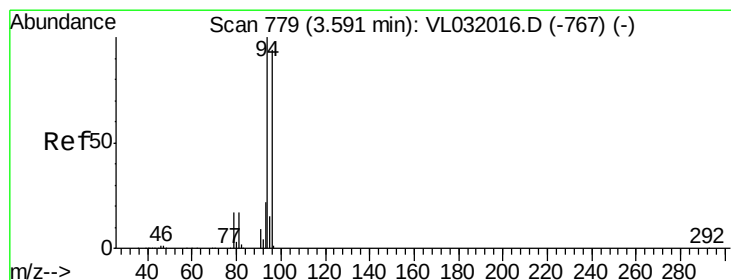
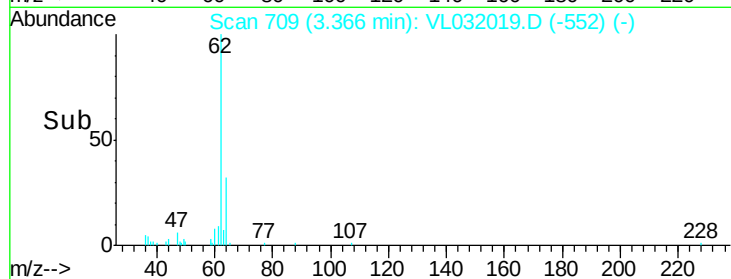
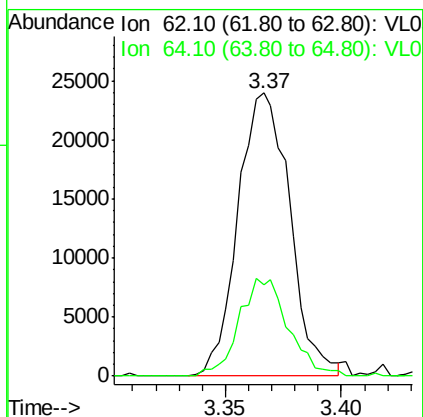
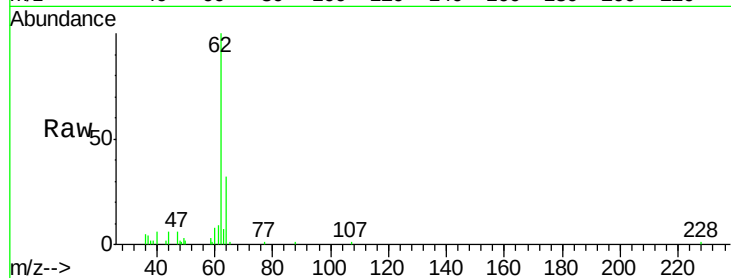
64 32.4 25.2 37.8

Manual Integrations

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#6

Bromomethane

Concen: 0.55 ppbv

RT: 3.59 min Scan# 779

Delta R.T. 0.00 min

Lab File: VL032019.D

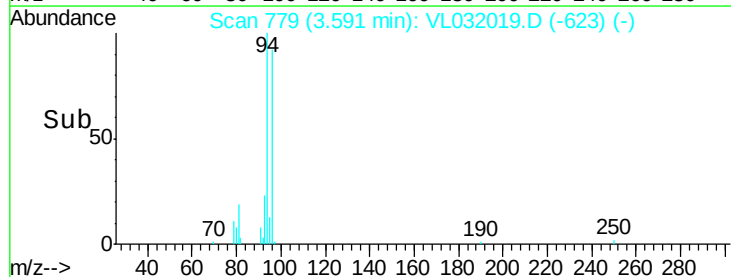
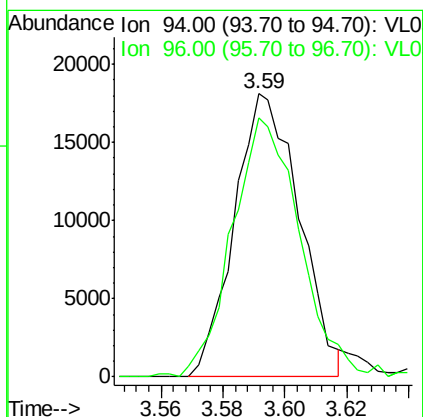
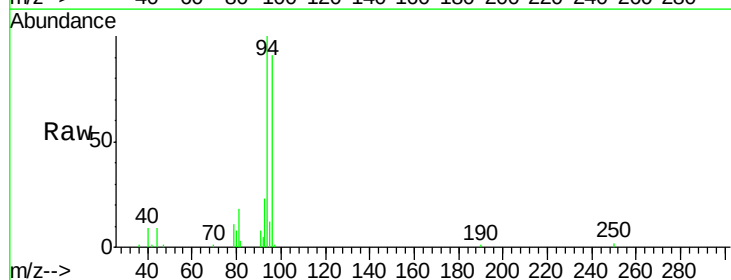
Acq: 31 May 2018 18:01

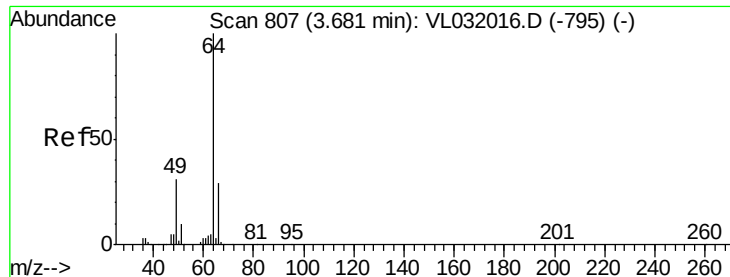
Tgt Ion: 94 Resp: 26331

Ion Ratio Lower Upper

94 100

96 87.7 75.1 112.7





#7

Chloroethane

Concen: 0.57 ppbv

RT: 3.68 min Scan# 806

Delta R.T. -0.00 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 16134

Ion Ratio Lower Upper

64 100

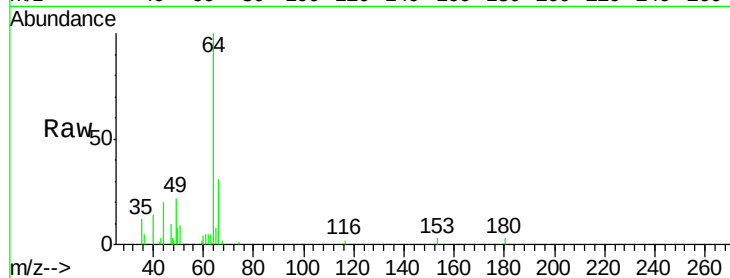
66 31.4 23.4 35.2

Manual Integrations

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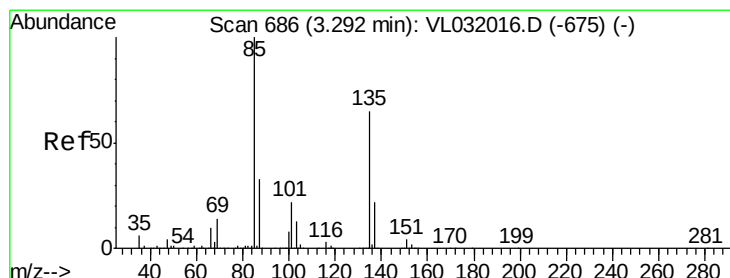
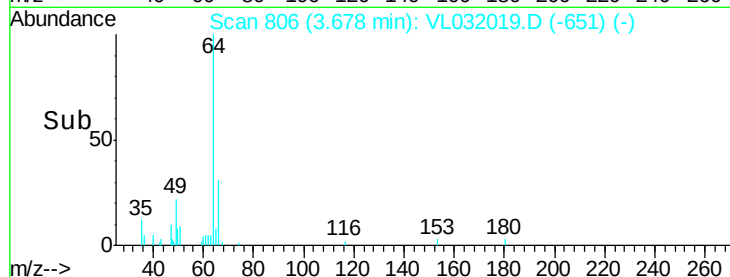
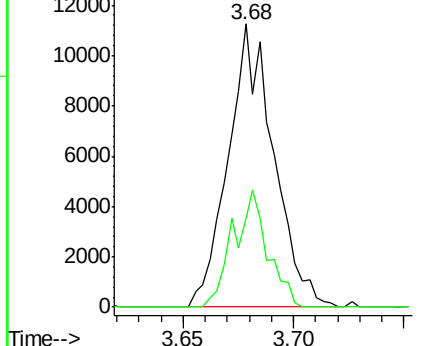
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.54 ppbv

RT: 3.29 min Scan# 686

Delta R.T. 0.00 min

Lab File: VL032019.D

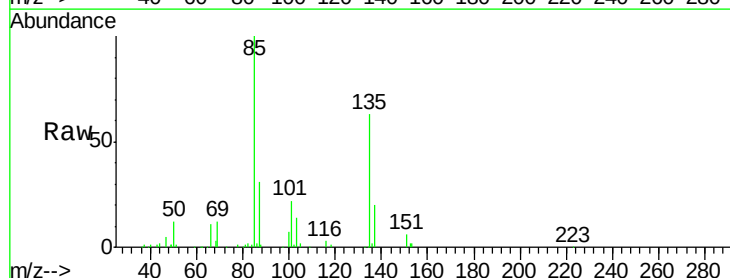
Acq: 31 May 2018 18:01

Tgt Ion: 85 Resp: 94760

Ion Ratio Lower Upper

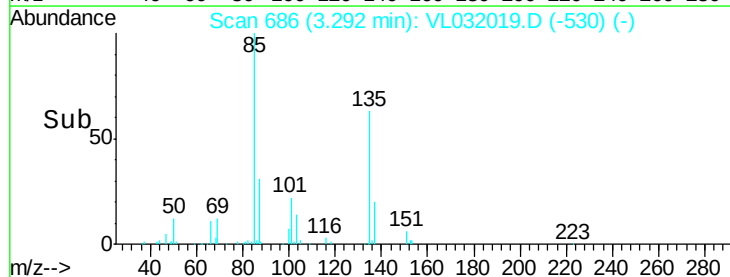
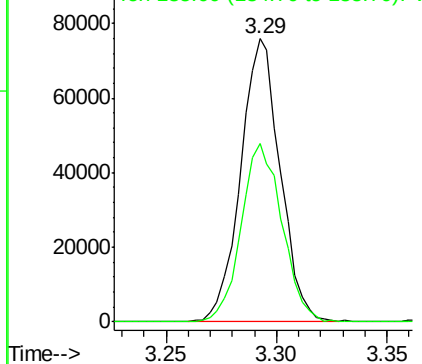
85 100

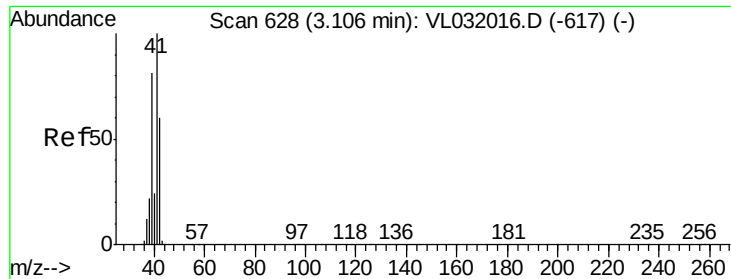
135 65.3 52.6 79.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

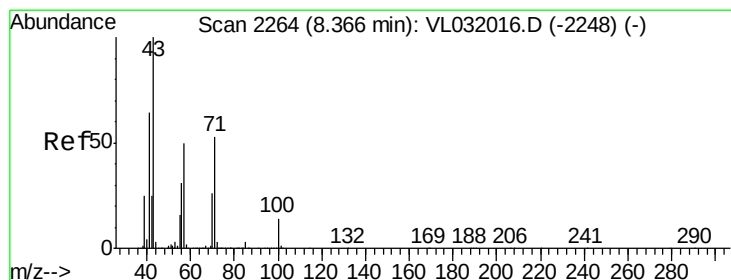
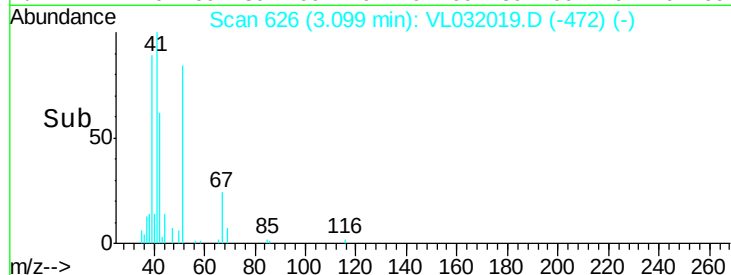
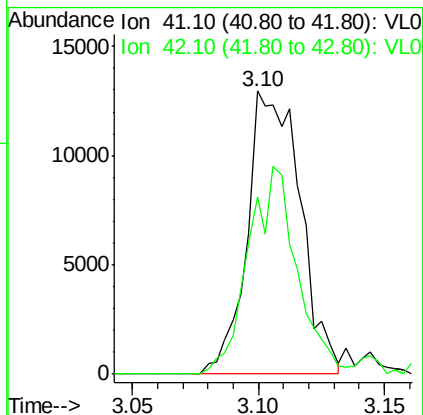
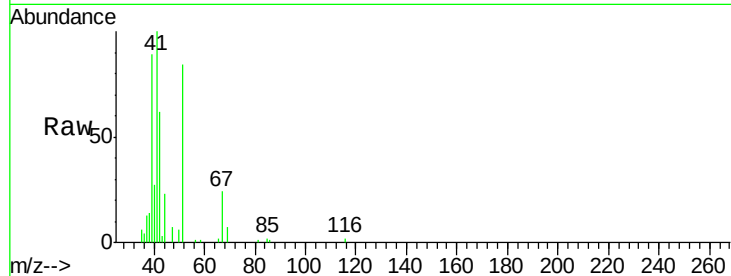
Concen: 0.42 ppbv m
 RT: 3.10 min Scan# 626
 Delta R.T. -0.01 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

Instrument :
 MSVOA_L
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Tot Ion: 41 Resp: 18923
 Ion Ratio Lower Upper
 41 100
 42 71.7 54.4 81.6

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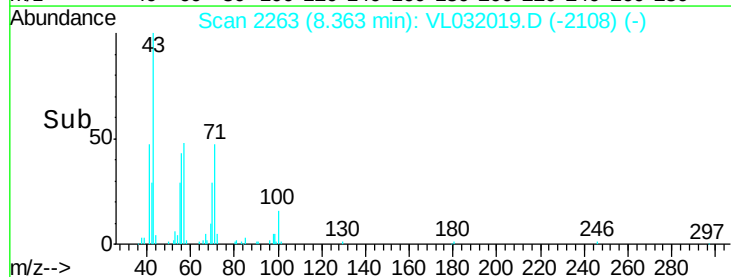
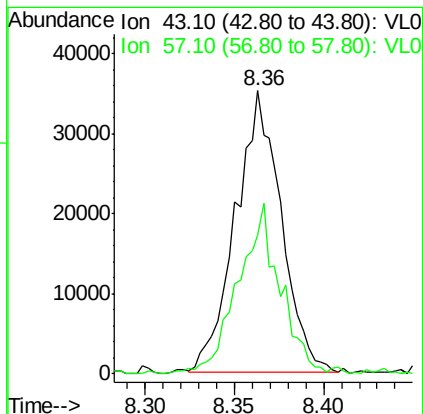
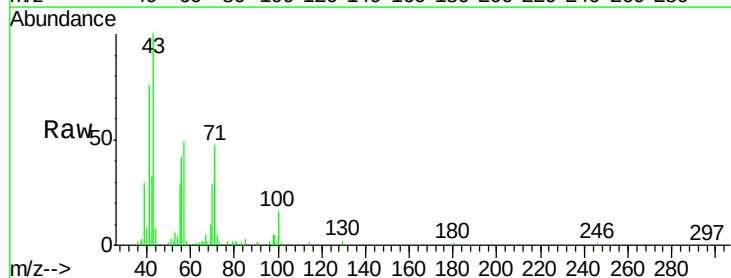


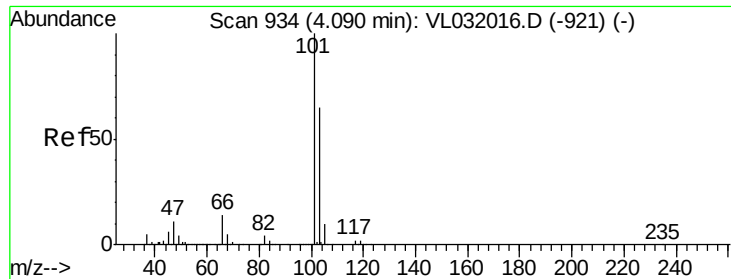
#10

Heptane

Concen: 0.40 ppbv
 RT: 8.36 min Scan# 2263
 Delta R.T. -0.00 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

Tgt Ion: 43 Resp: 62835
 Ion Ratio Lower Upper
 43 100
 57 56.3 41.7 62.5





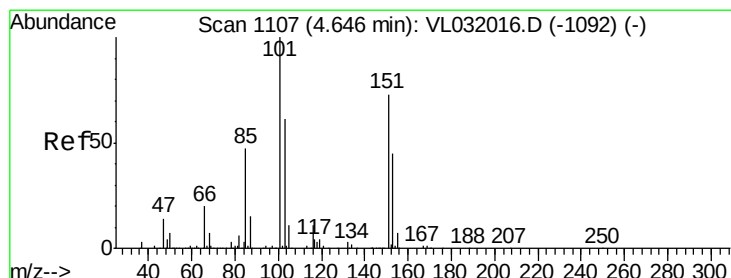
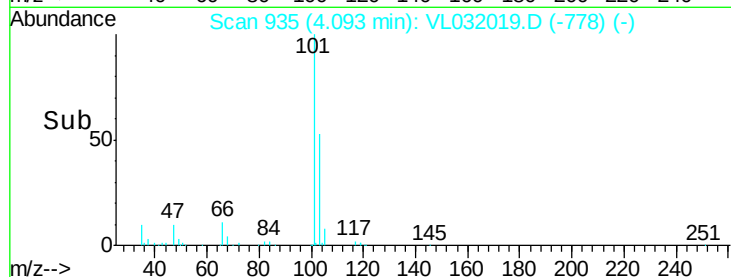
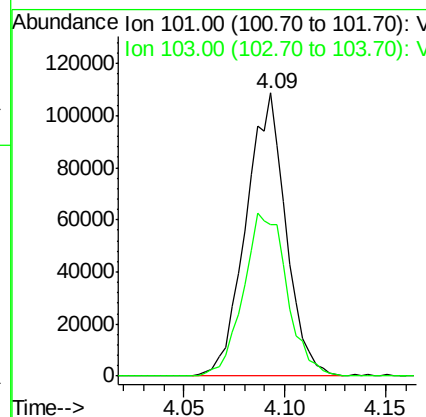
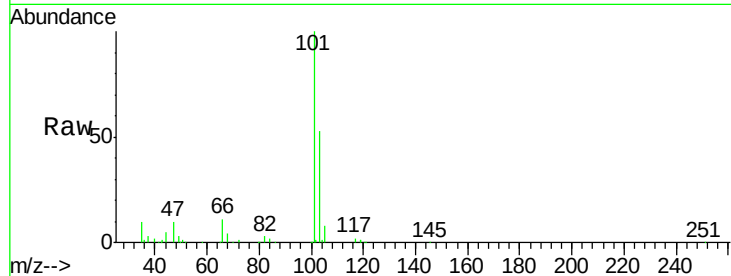
#11
 Trichlorofluoromethane
 Concen: 0.70 ppbv
 RT: 4.09 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
101	100		
103	53.4	52.0	78.0

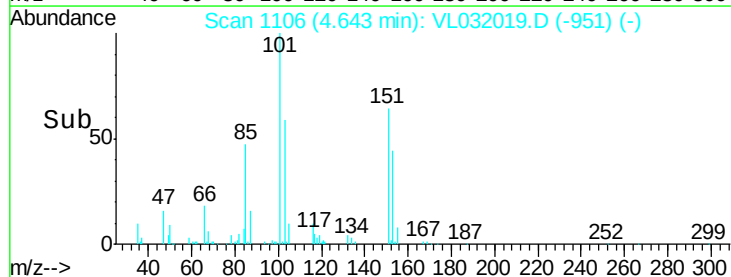
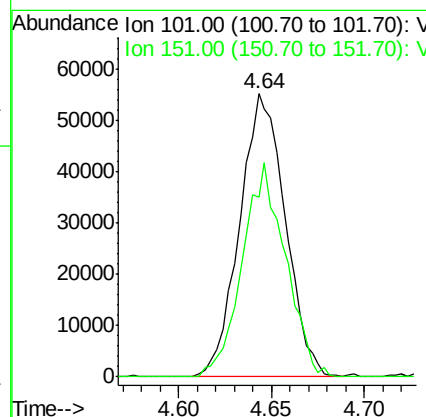
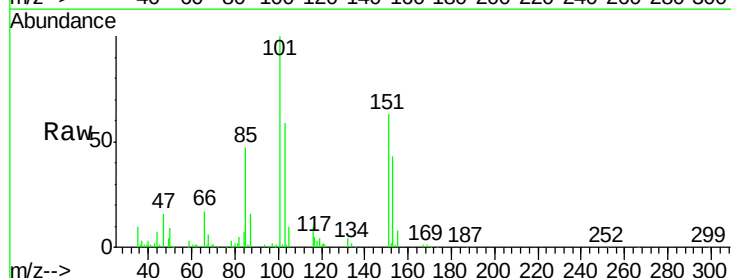
Manual Integrations
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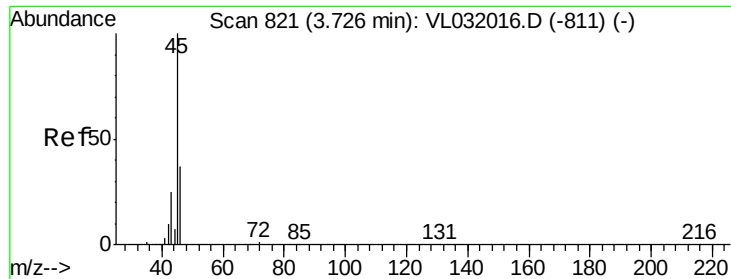
MMDadoda
 6/4/2018 10:54:56 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.61 ppbv
 RT: 4.64 min Scan# 1106
 Delta R.T. -0.00 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

Tgt Ion	Ratio	Lower	Upper
101	100		
151	71.2	58.2	87.4





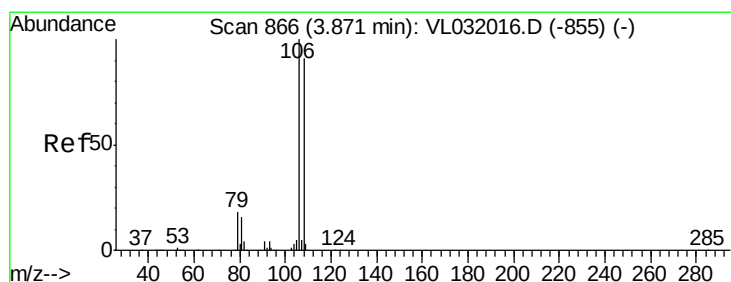
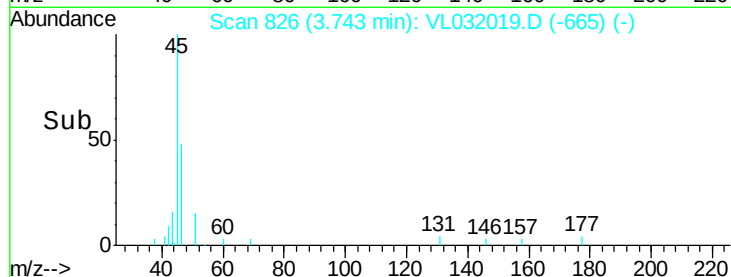
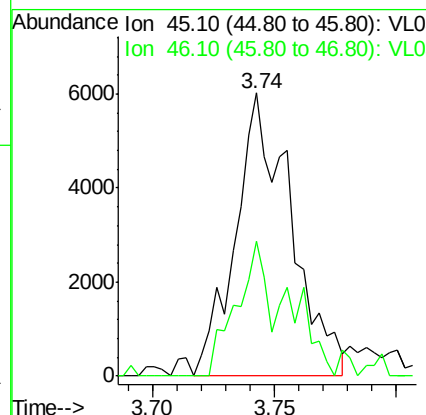
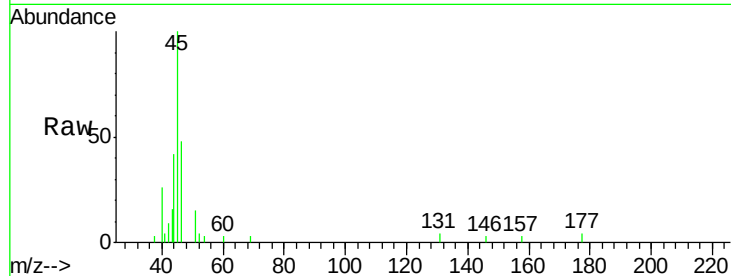
#13
Ethanol
Concen: 0.56 ppbv m
RT: 3.74 min Scan# 826
Delta R.T. 0.02 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
45	100		
46	44.4	14.9	59.5

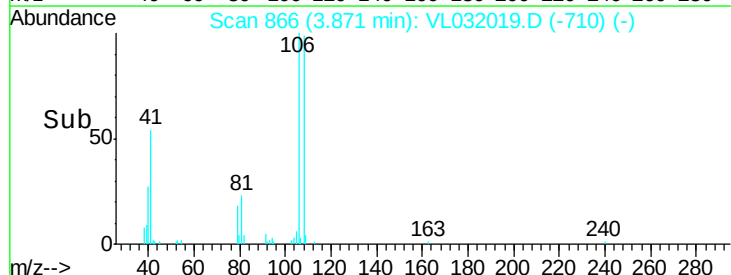
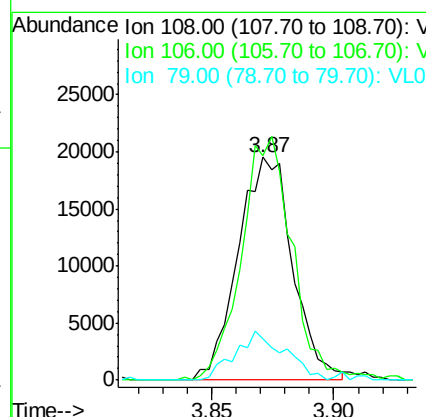
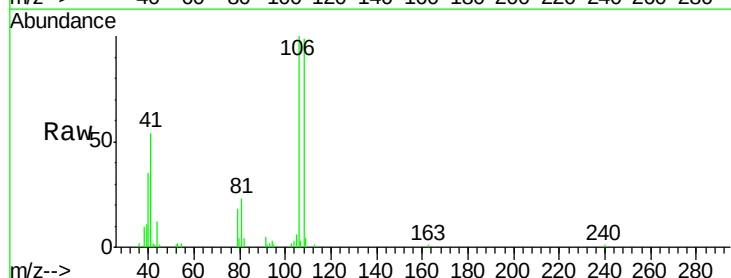
Manual Integrations
APPROVED

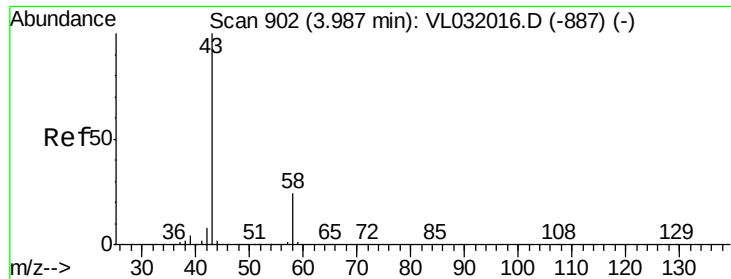
MMDadoda
6/4/2018 10:54:56 AM



#14
Bromoethene
Concen: 0.55 ppbv
RT: 3.87 min Scan# 866
Delta R.T. 0.00 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Tgt Ion	Ratio	Lower	Upper
108	100		
106	101.7	85.1	127.7
79	21.1	15.2	22.8





#15

Acetone

Concen: 0.44 ppbv

RT: 4.00 min Scan# 906

Delta R.T. 0.01 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 81774

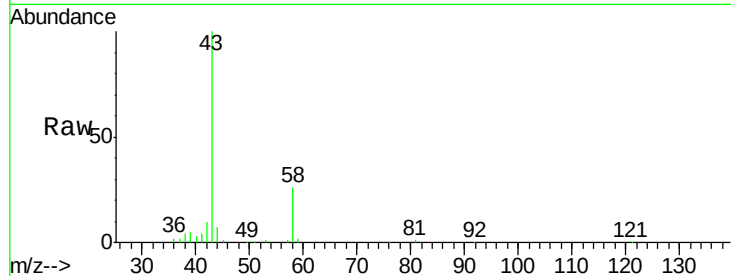
Ion Ratio Lower Upper

43 100

58 27.8 20.7 31.1

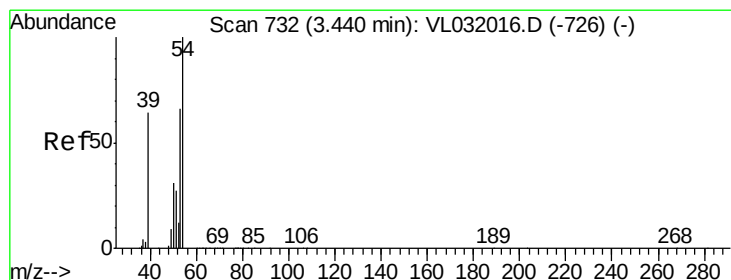
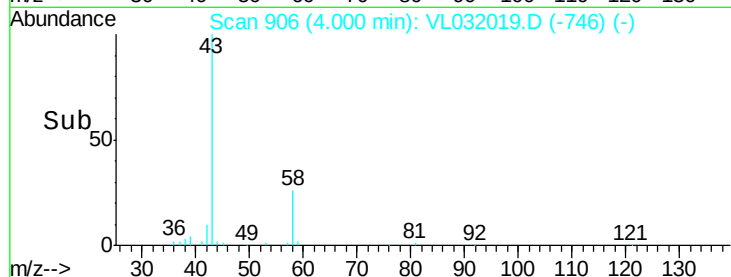
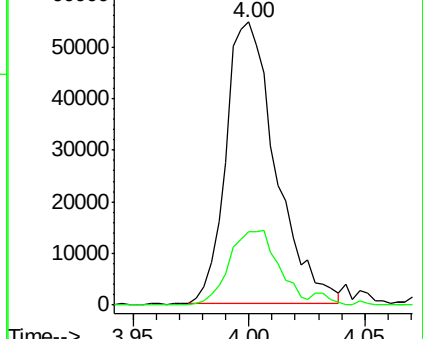
Manual Integrations
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MMDadoda
6/4/2018 10:54:56 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.53 ppbv

RT: 3.44 min Scan# 731

Delta R.T. -0.00 min

Lab File: VL032019.D

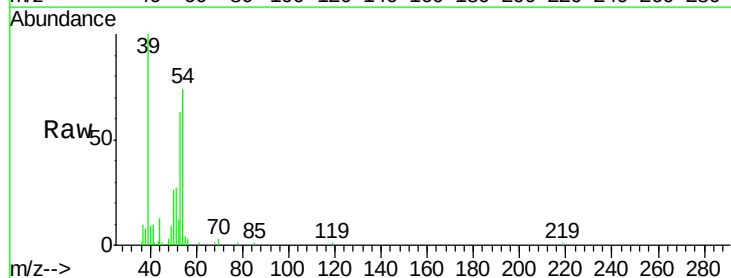
Acq: 31 May 2018 18:01

Tgt Ion: 39 Resp: 31660

Ion Ratio Lower Upper

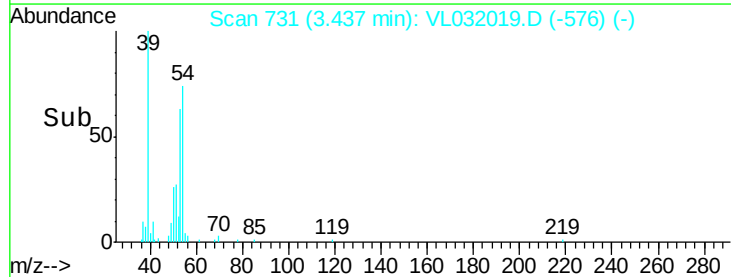
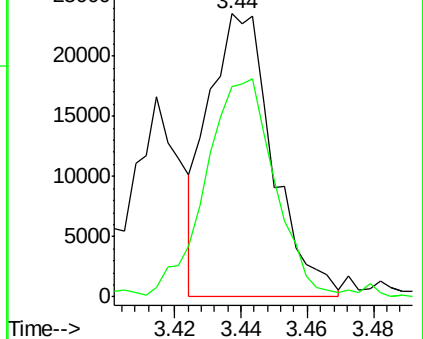
39 100

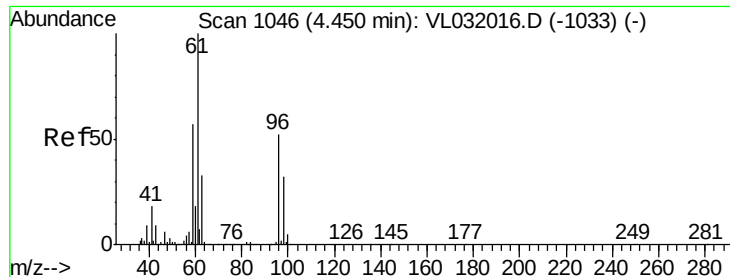
54 84.9 65.7 98.5



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.54 ppbv m

RT: 4.47 min Scan# 1053

Delta R.T. 0.02 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 59 Resp: 41699

Ion Ratio Lower Upper

59 100

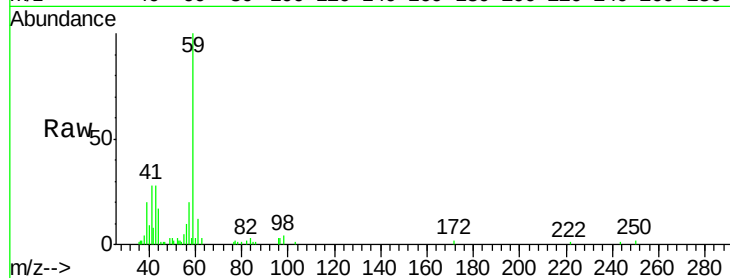
57 0.0 8.3 12.5#

Manual Integrations

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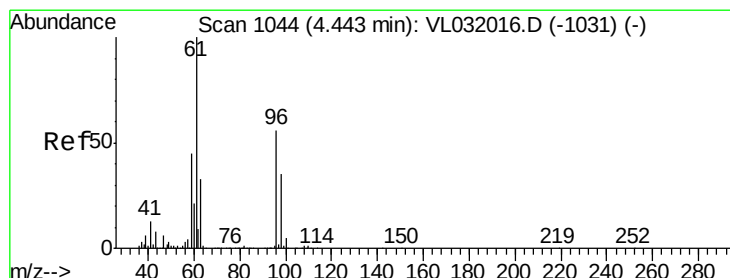
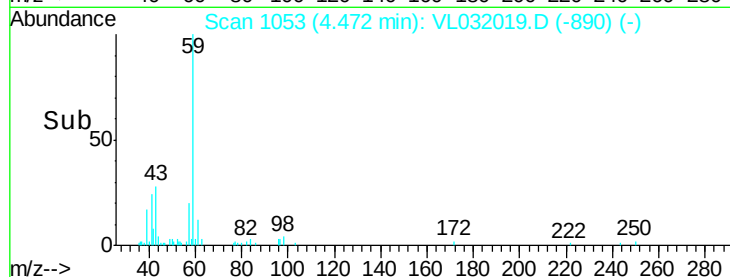
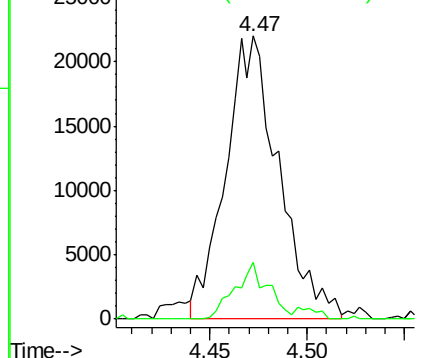
MMDadoda

6/4/2018 10:54:56 AM



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.60 ppbv

RT: 4.44 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

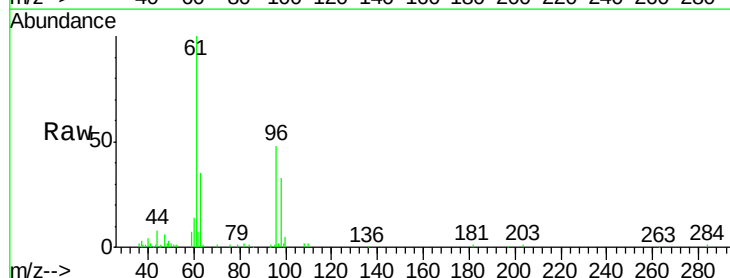
Tgt Ion: 96 Resp: 39906

Ion Ratio Lower Upper

96 100

61 205.6 143.5 215.3

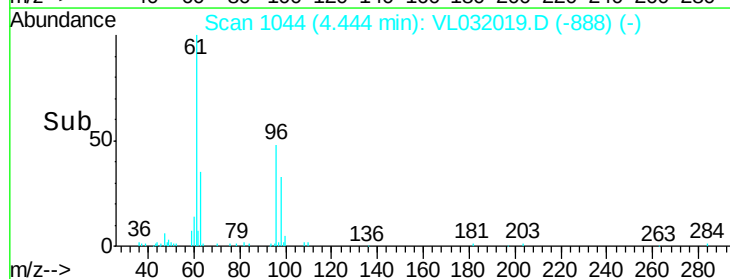
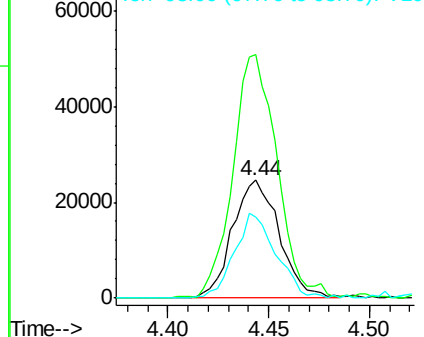
98 69.2 50.0 75.0

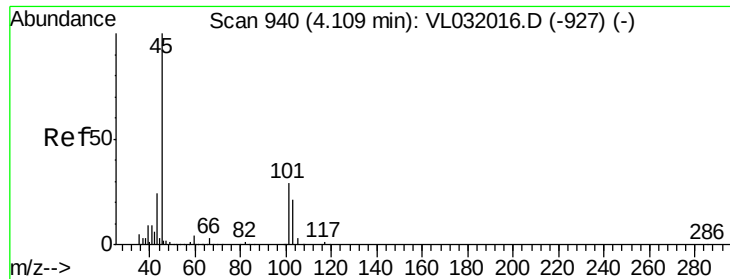


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





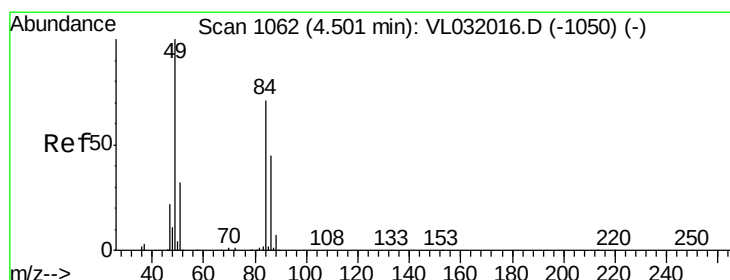
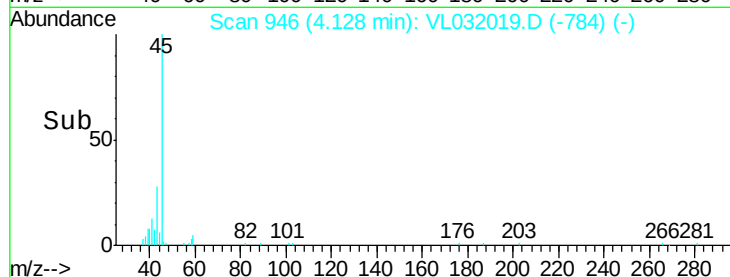
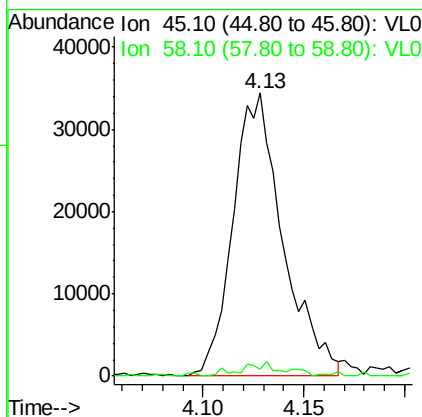
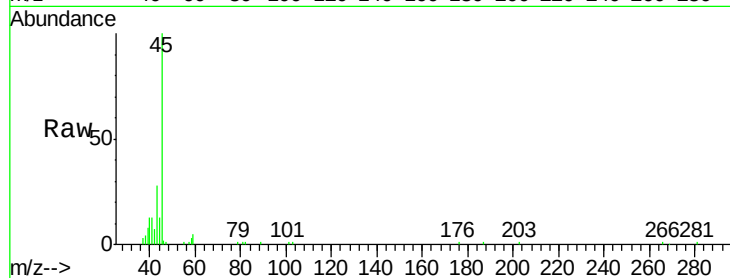
#19
Isopropyl Alcohol
Concen: 0.58 ppbv
RT: 4.13 min Scan# 946
Delta R.T. 0.02 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 45 Resp: 59642
Ion Ratio Lower Upper
45 100
58 4.9 1.5 2.3#

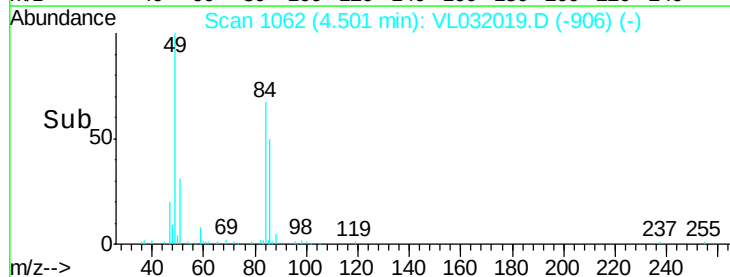
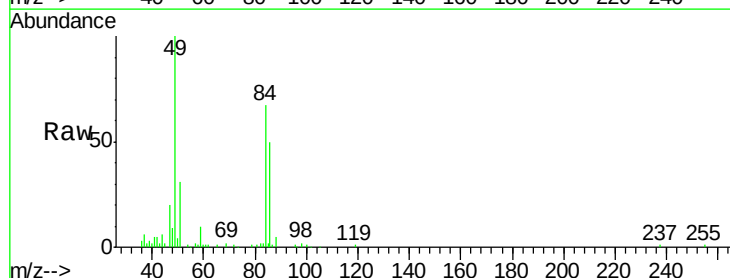
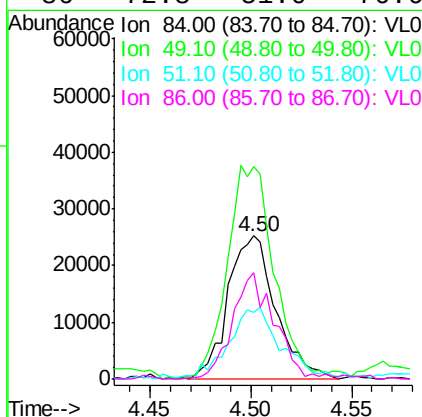
Manual Integrations
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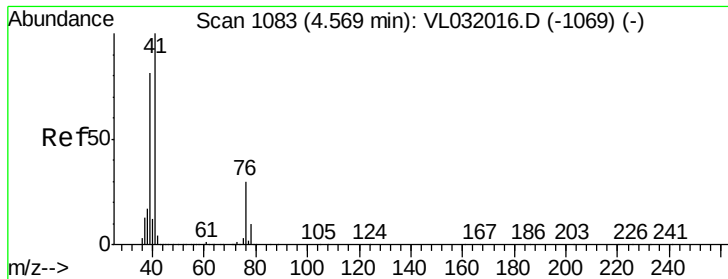
MMDadoda
6/4/2018 10:54:56 AM



#20
Methylene Chloride
Concen: 0.65 ppbv
RT: 4.50 min Scan# 1062
Delta R.T. 0.00 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Tgt Ion: 84 Resp: 41726
Ion Ratio Lower Upper
84 100
49 146.1 113.0 169.4
51 45.4 36.4 54.6
86 72.8 51.0 76.6





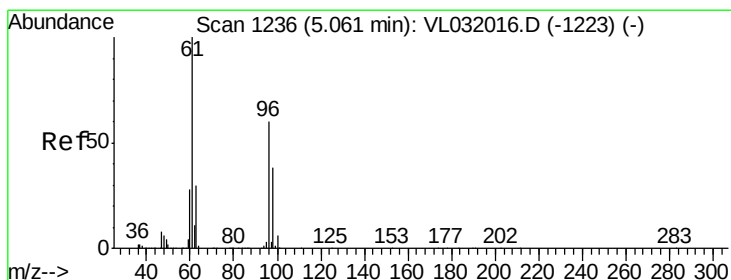
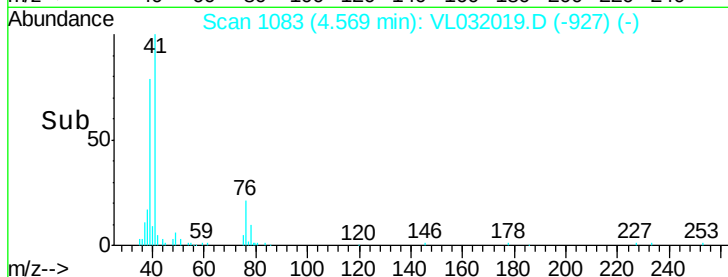
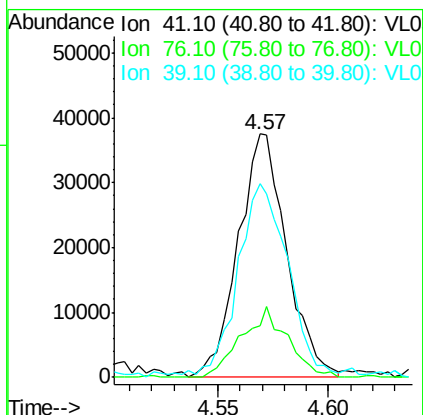
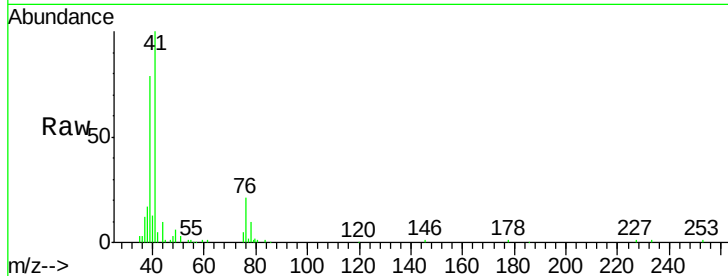
#21
Allvl Chloride
Concen: 0.53 ppbv
RT: 4.57 min Scan# 1083
Delta R.T. 0.00 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
41	100		
76	27.8	23.9	35.9
39	86.1	65.9	98.9

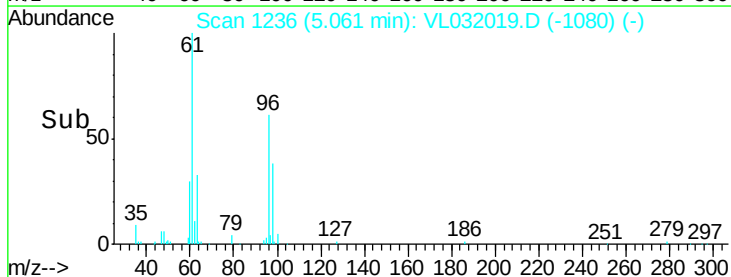
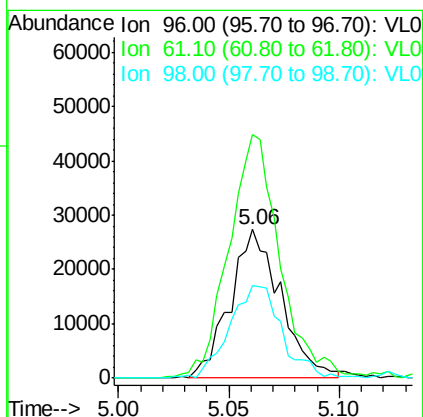
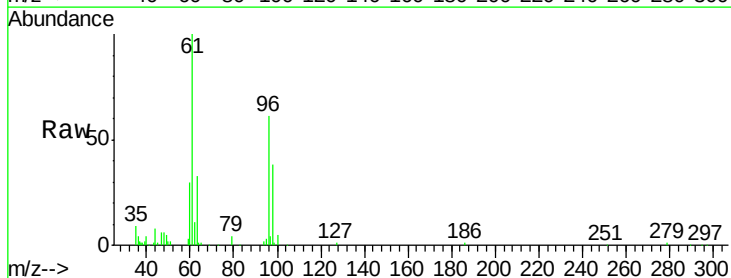
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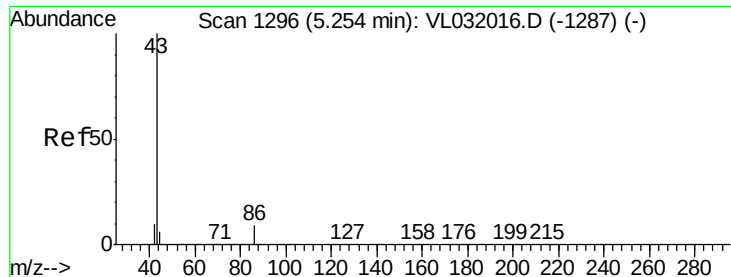
MMDadoda
6/4/2018 10:54:56 AM



#22
trans-1,2-Dichloroethene
Concen: 0.59 ppbv
RT: 5.06 min Scan# 1236
Delta R.T. 0.00 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.2	133.3	199.9
98	60.5	51.0	76.4





#23

Vinyl Acetate

Concen: 0.50 ppbv

RT: 5.26 min Scan# 1297

Delta R.T. 0.00 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Instrument :

MSVOA_L

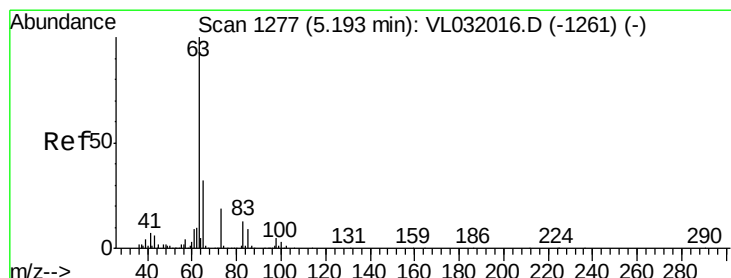
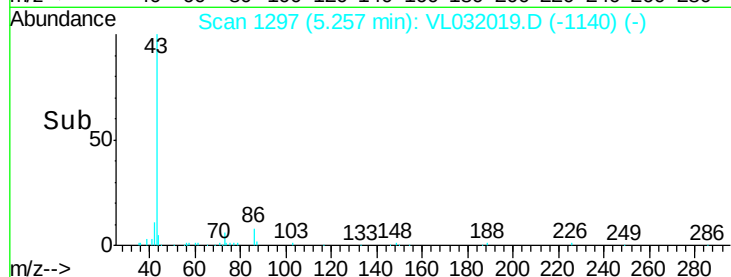
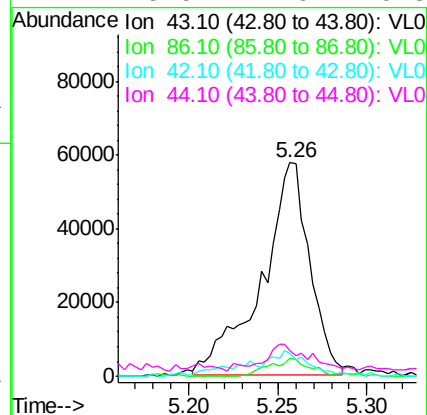
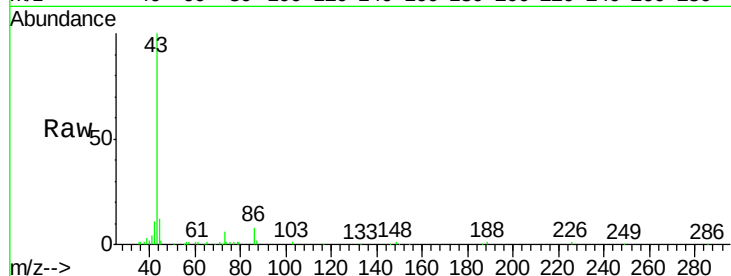
ClientSampleId :

VSTDIC0.5

Tot Ion	43	Resp	108551
Ion Ratio	Lower	Upper	
43	100		
86	7.8	6.2	9.4
42	10.4	8.7	13.1
44	8.5	4.6	6.8#

Manual Integrations
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6/4/2018 10:54:56 AM



#24

1,1-Dichloroethane

Concen: 0.57 ppbv

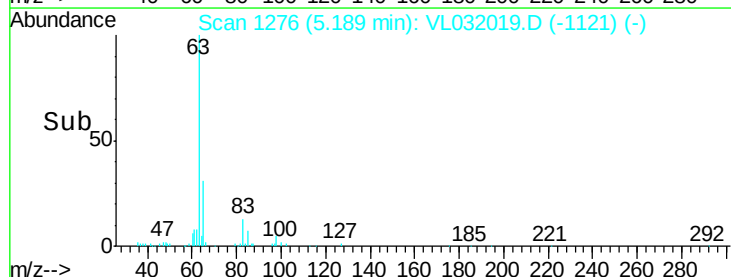
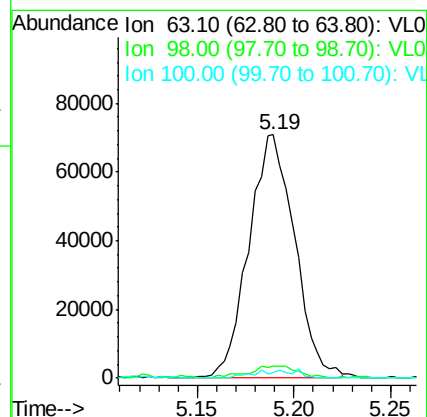
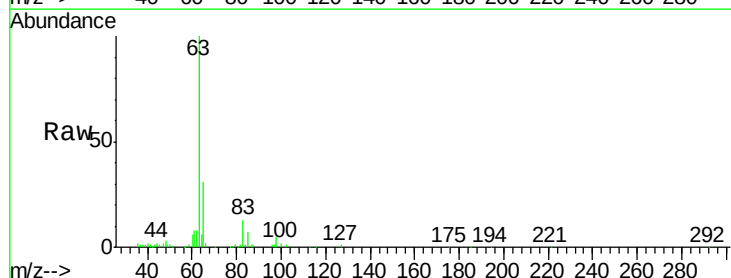
RT: 5.19 min Scan# 1276

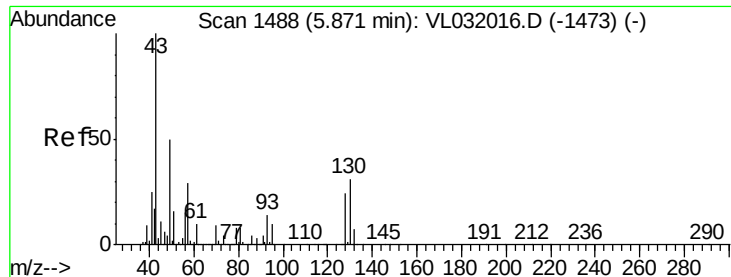
Delta R.T. -0.00 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Tgt Ion	63	Resp	116766
Ion Ratio	Lower	Upper	
63	100		
98	4.3	2.4	7.1
100	2.2	1.5	4.5





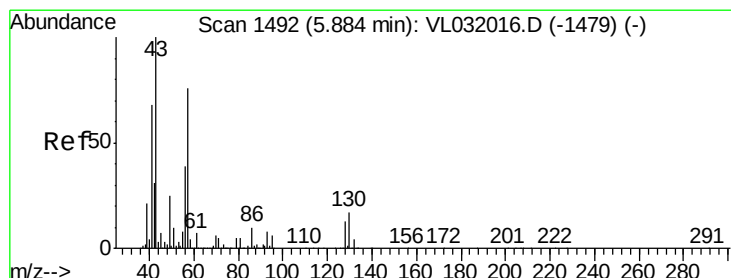
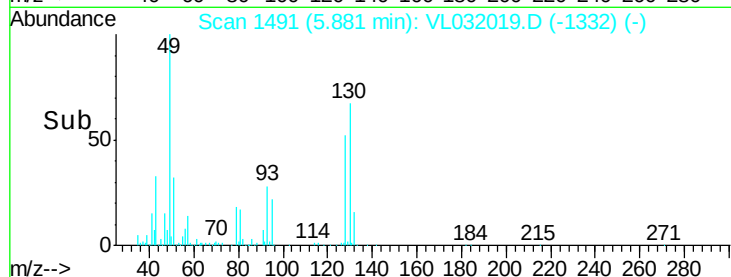
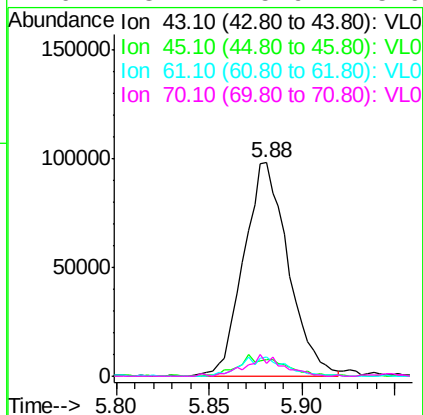
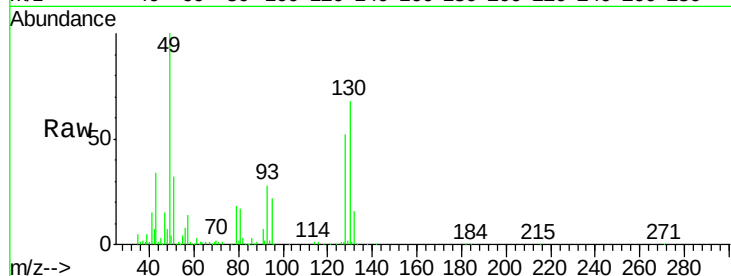
#25
Ethyl Acetate
Concen: 0.51 ppbv
RT: 5.88 min Scan# 1491
Delta R.T. 0.01 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.1	7.8	11.6	
61	9.0	7.4	11.2	
70	8.2	5.9	8.9	

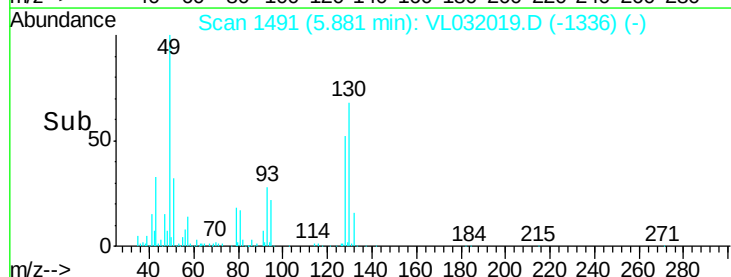
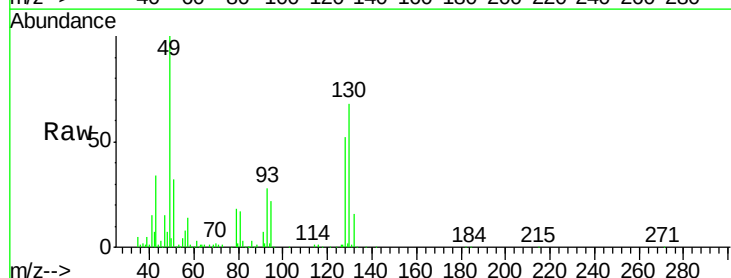
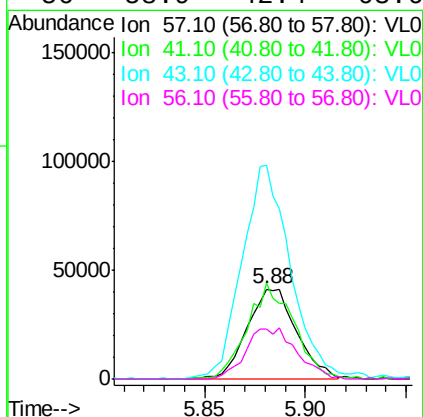
Manual Integrations
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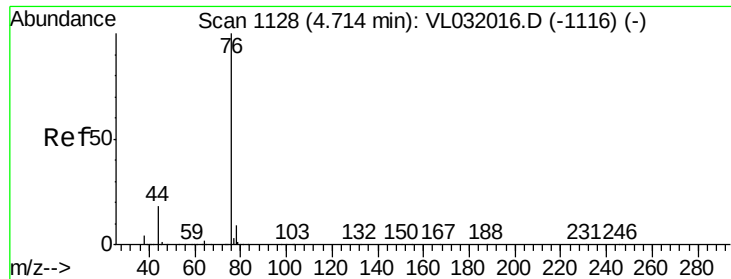
MMDadoda
6/4/2018 10:54:56 AM



#26
Hexane
Concen: 0.46 ppbv
RT: 5.88 min Scan# 1491
Delta R.T. -0.00 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	101.8	71.4	107.2	
43	235.8	168.6	252.8	
56	58.9	42.4	63.6	





#27

Carbon Disulfide

Concen: 0.52 ppbv

RT: 4.72 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Instrument :

MSVOA_L

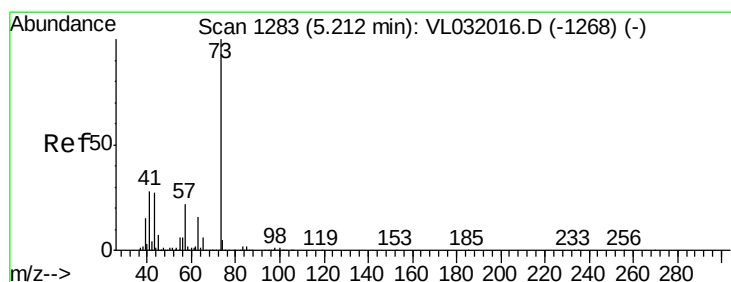
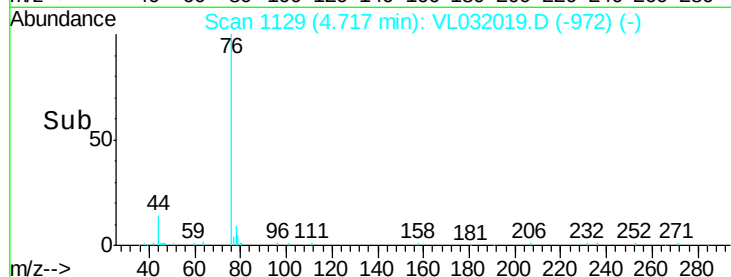
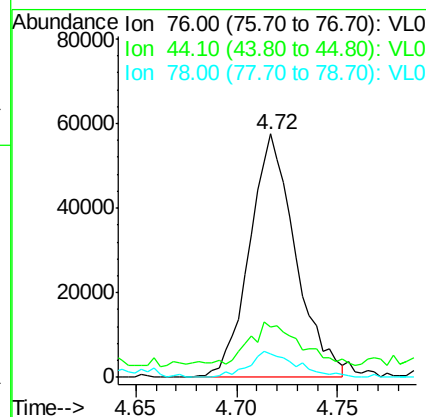
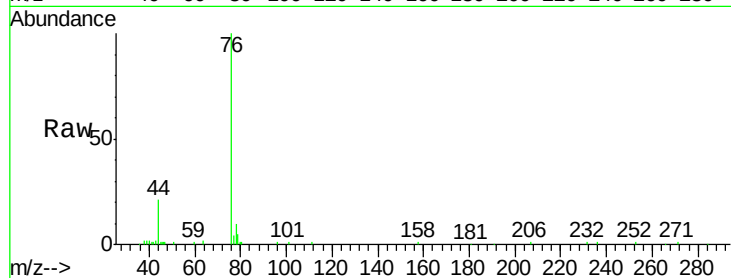
ClientSampleId :

VSTDIC0.5

Tot Ion:	76	Resp:	91653
Ion	Ratio	Lower	Upper
76	100		
44	25.5	14.9	22.3#
78	11.3	7.6	11.4

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#28

Methyl tert-Butyl Ether

Concen: 0.45 ppbv

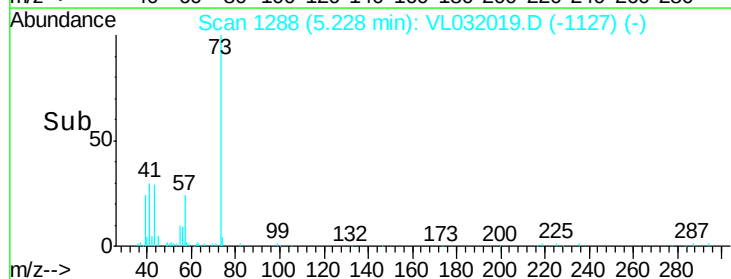
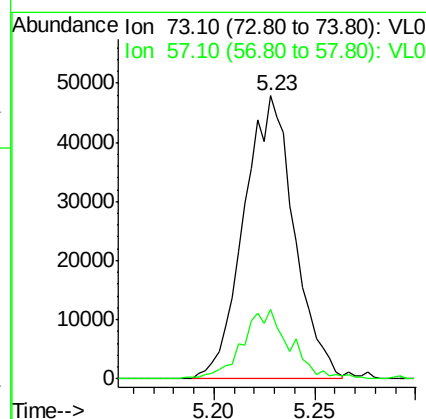
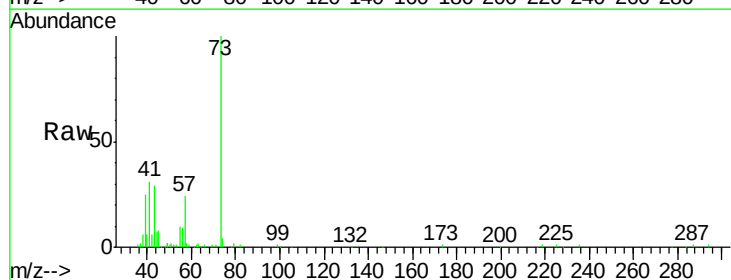
RT: 5.23 min Scan# 1288

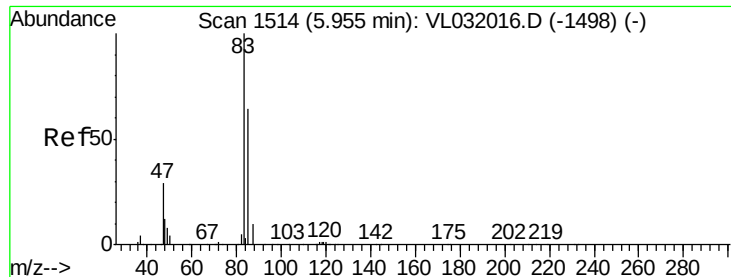
Delta R.T. 0.02 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Tgt Ion:	73	Resp:	83800
Ion	Ratio	Lower	Upper
73	100		
57	23.3	17.8	26.8





#29

Chloroform

Concen: 0.56 ppbv

RT: 5.95 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 83 Resp: 136842

Ion Ratio Lower Upper

83 100

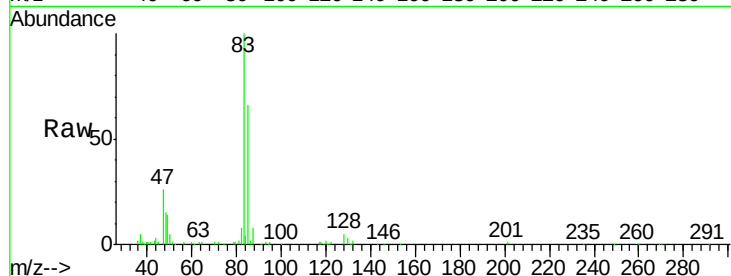
85 66.8 50.9 76.3

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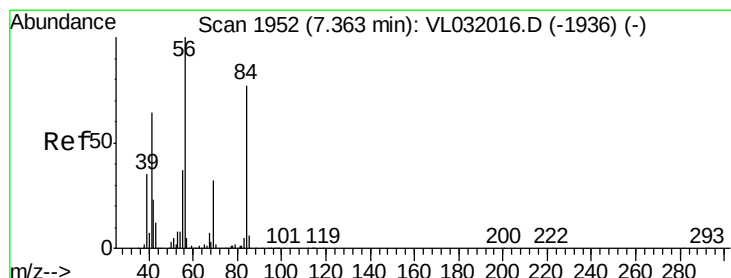
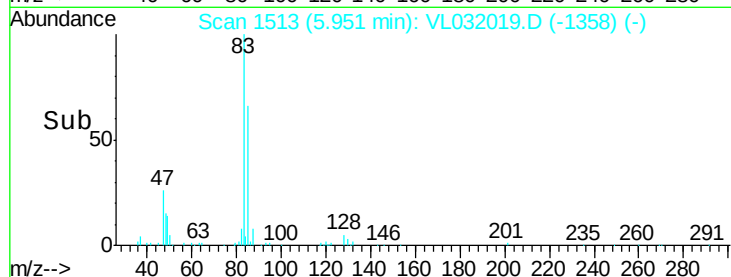
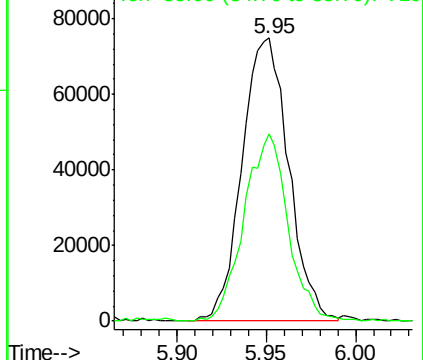
MMDadoda

6/4/2018 10:54:56 AM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 0.38 ppbv m

RT: 7.36 min Scan# 1951

Delta R.T. -0.00 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

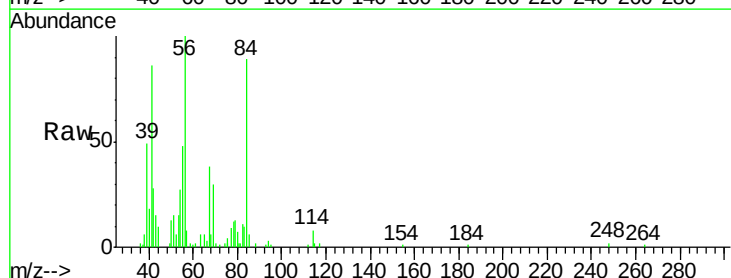
Tgt Ion: 84 Resp: 38061

Ion Ratio Lower Upper

84 100

56 0.0 108.6 162.8#

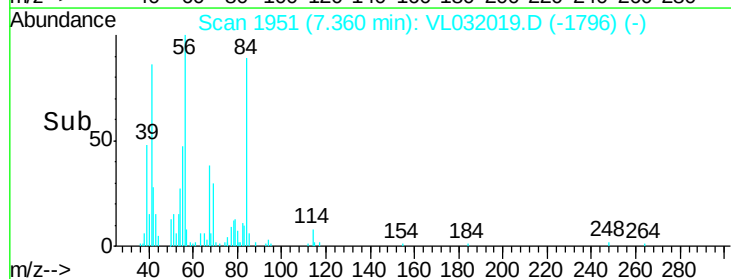
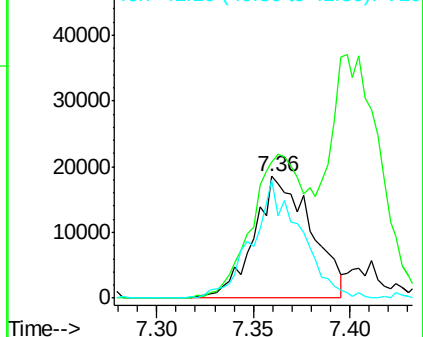
41 84.4 66.8 100.2

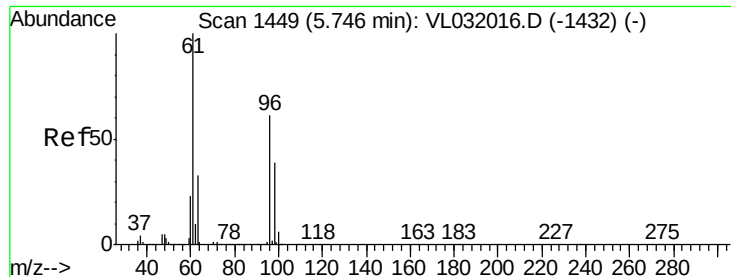


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

cis-1,2-Dichloroethene

Concen: 0.41 ppbv m

RT: 5.74 min Scan# 1446

Delta R.T. -0.01 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Instrument :

MSVOA_L

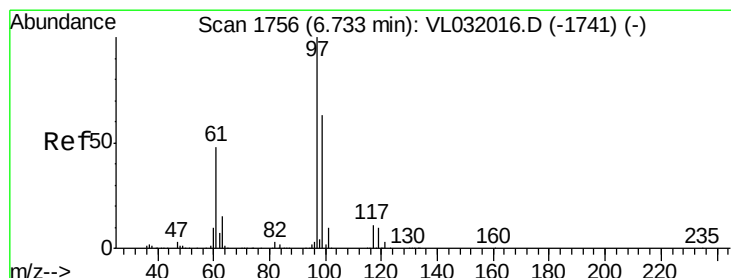
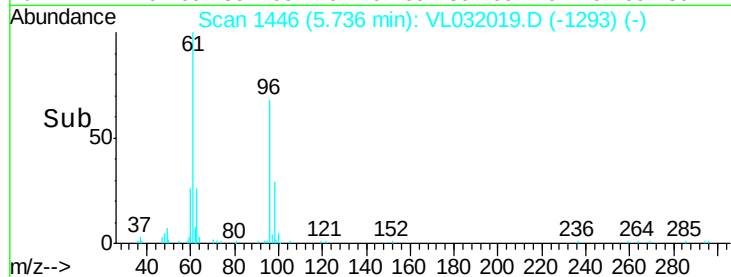
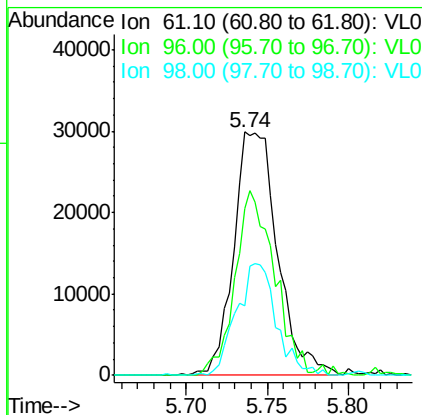
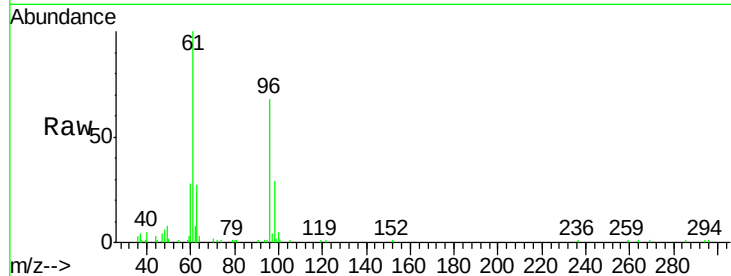
ClientSampleId :

VSTDIC0.5

Tot Ion:	61	Resp:	56822
Ion	Ratio	Lower	Upper
61	100		
96	68.4	49.0	73.6
98	28.6	31.2	46.8#

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 0.46 ppbv m

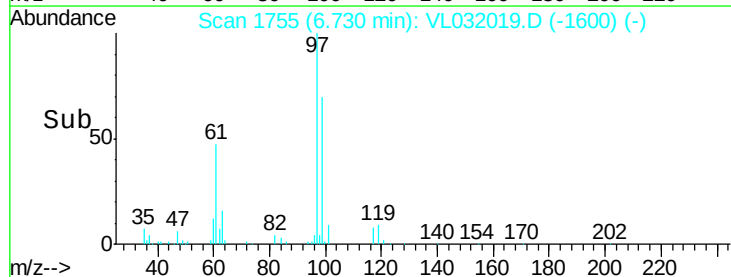
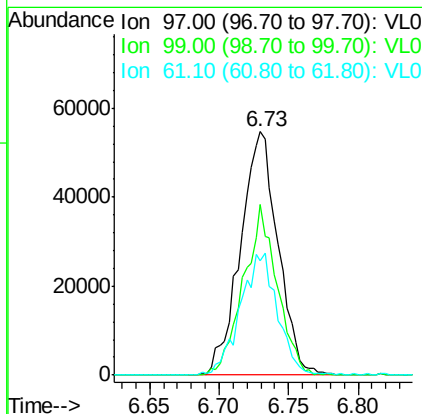
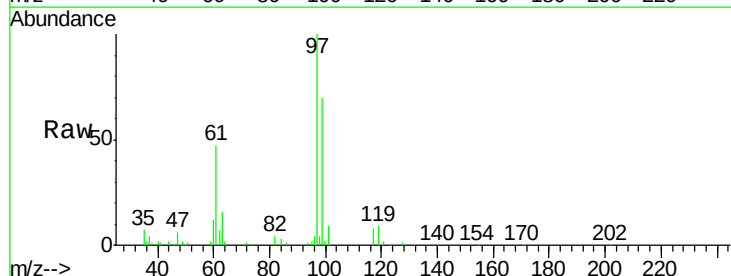
RT: 6.73 min Scan# 1755

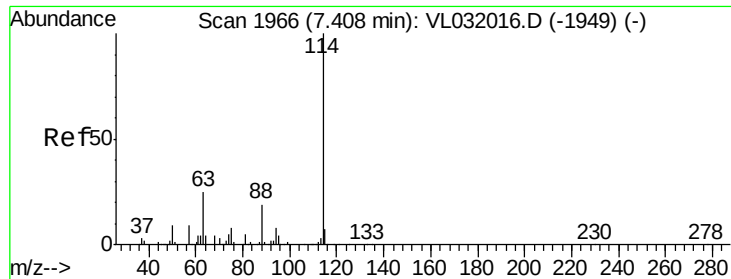
Delta R.T. -0.00 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Tgt Ion:	97	Resp:	102863
Ion	Ratio	Lower	Upper
97	100		
99	62.7	51.5	77.3
61	49.5	39.4	59.2





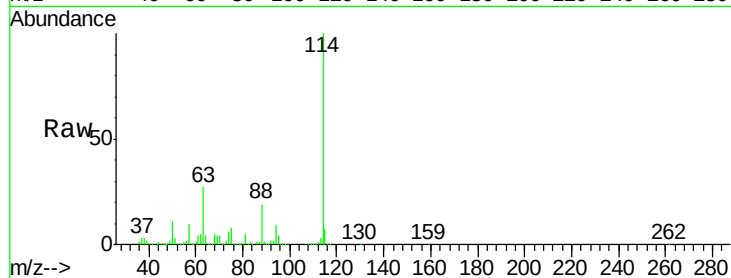
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.40 min Scan# 1964
 Delta R.T. -0.01 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.3	21.1	31.7
88	18.6	14.8	22.2

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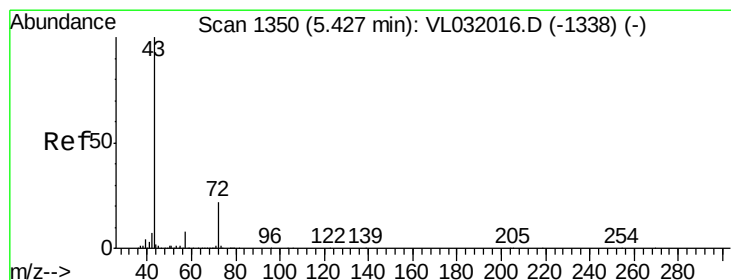
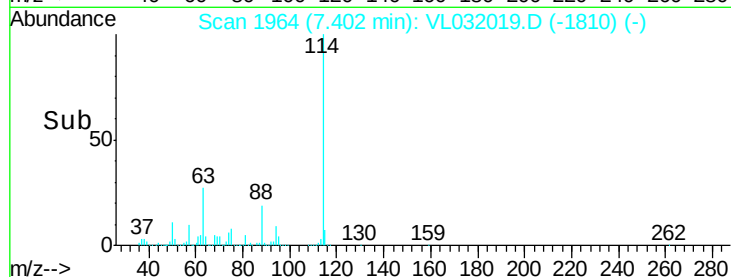
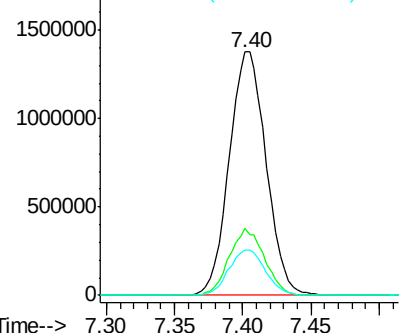
MMDadoda
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Abundance Ion 114.10 (113.80 to 114.80): VL0

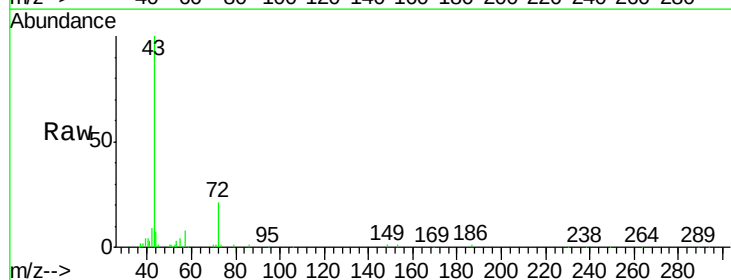
Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



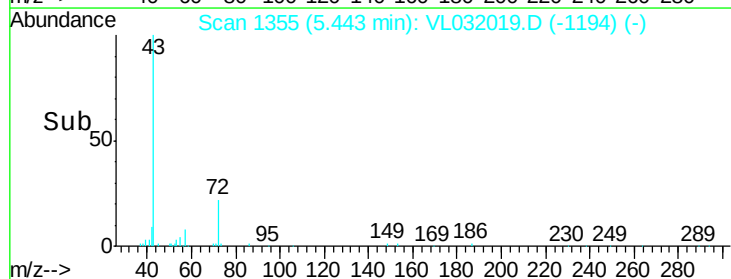
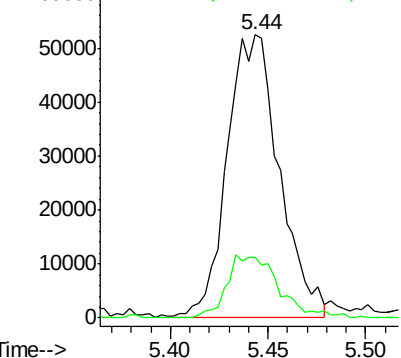
#34
 2-Butanone
 Concen: 0.46 ppbv m
 RT: 5.44 min Scan# 1355
 Delta R.T. 0.02 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

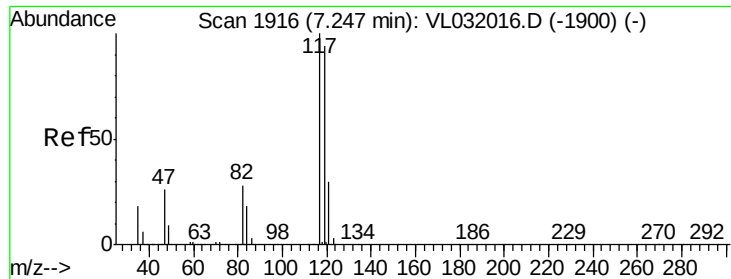
Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.1	18.6	27.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.53 ppbv

RT: 7.25 min Scan# 1916

Delta R.T. 0.00 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Instrument :

MSVOA_L

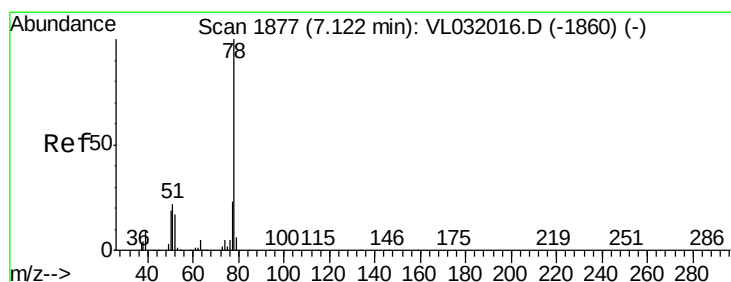
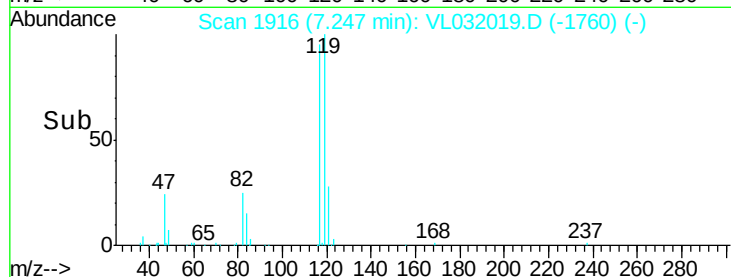
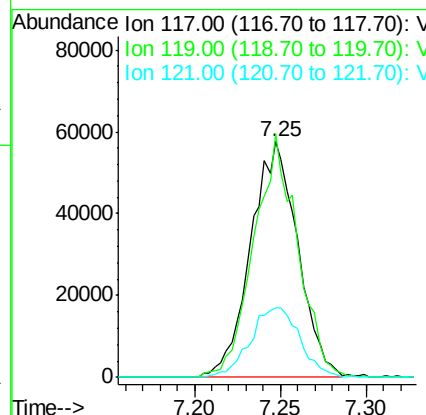
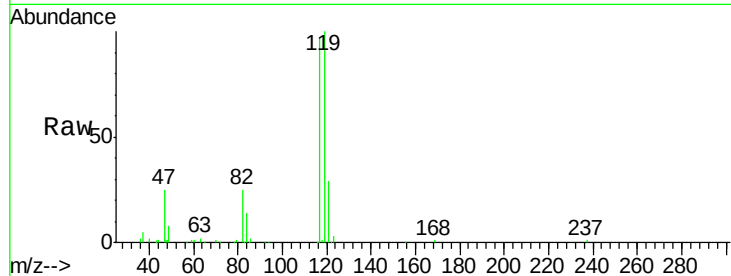
ClientSampleId :

VSTDIC0.5

Tot Ion:	117	Resp:	109525
Ion Ratio	Lower	Upper	
117	100		
119	103.3	75.3	112.9
121	29.7	24.1	36.1

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#36

Benzene

Concen: 0.43 ppbv

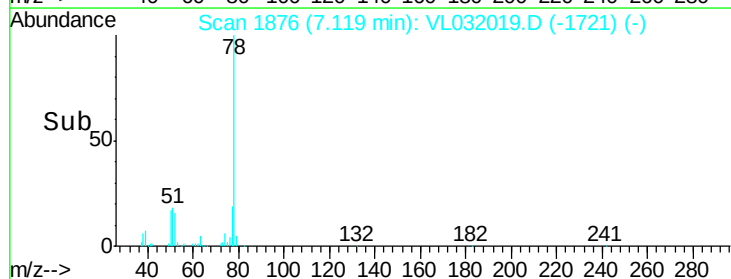
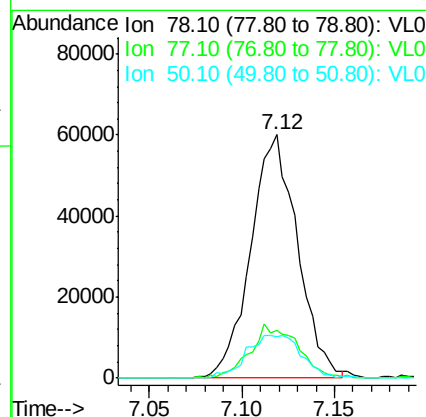
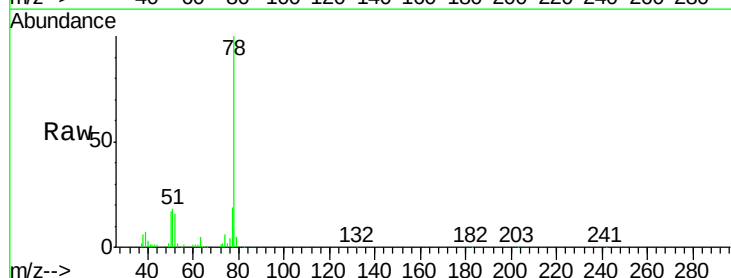
RT: 7.12 min Scan# 1876

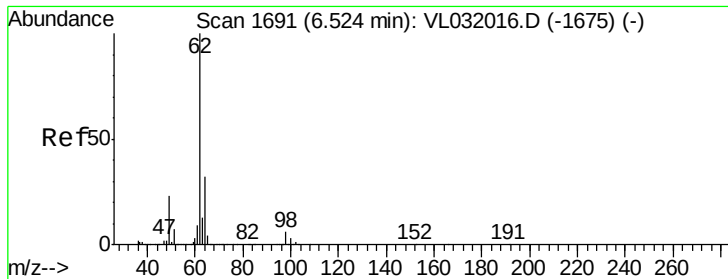
Delta R.T. -0.00 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Tgt Ion:	78	Resp:	105066
Ion Ratio	Lower	Upper	
78	100		
77	19.4	18.1	27.1
50	16.7	14.9	22.3





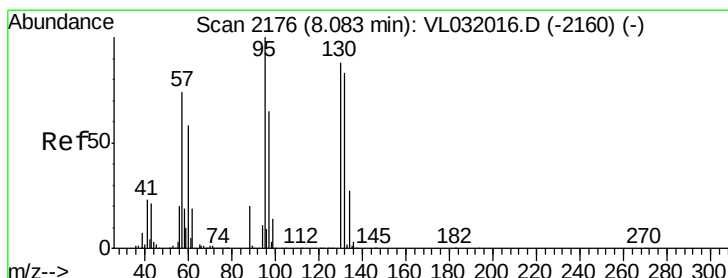
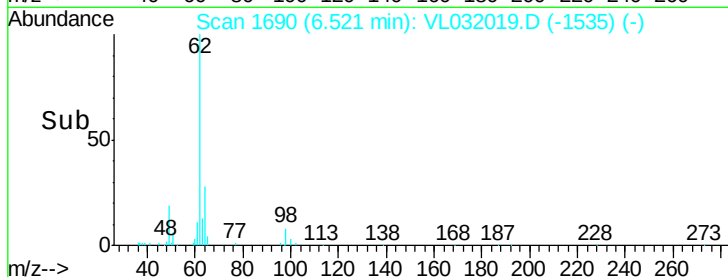
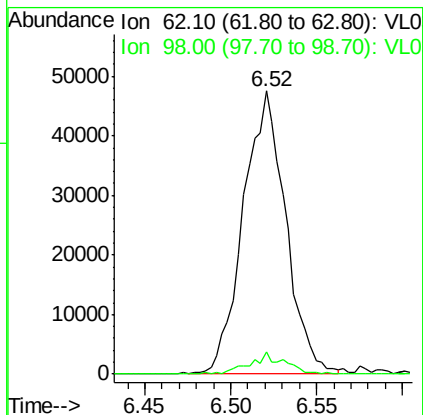
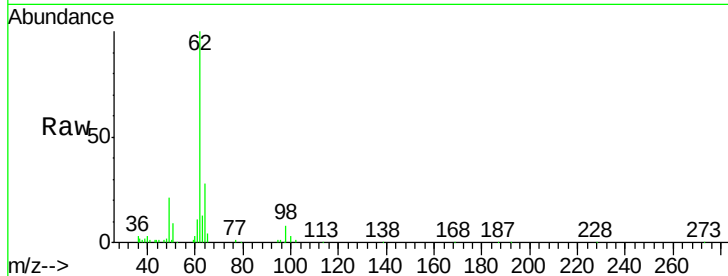
#37
 1,2-Dichloroethane
 Concen: 0.47 ppbv
 RT: 6.52 min Scan# 1690
 Delta R.T. -0.00 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.3	4.2	6.4

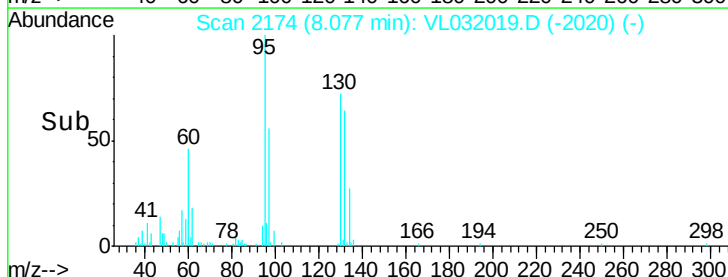
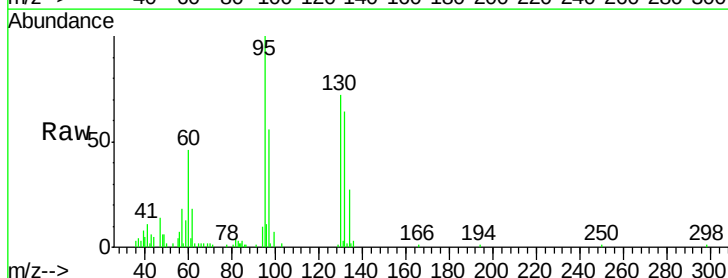
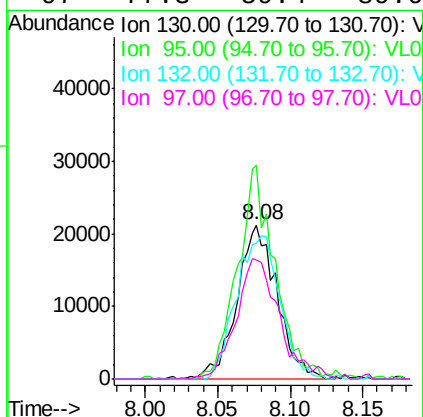
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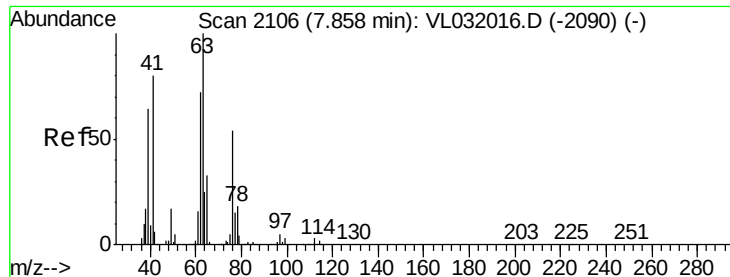
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#38
 Trichloroethene
 Concen: 0.44 ppbv m
 RT: 8.08 min Scan# 2174
 Delta R.T. -0.01 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

Tgt Ion	Ratio	Lower	Upper
130	100		
95	139.0	90.7	136.1#
132	88.7	75.6	113.4
97	77.3	59.4	89.0





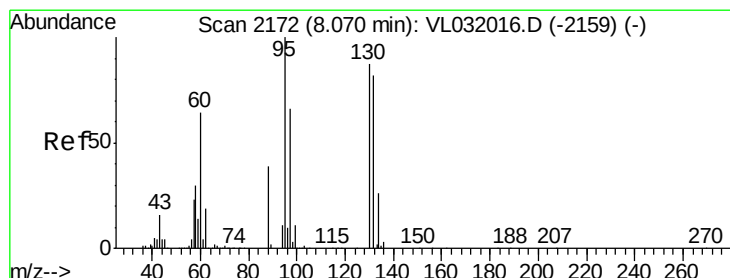
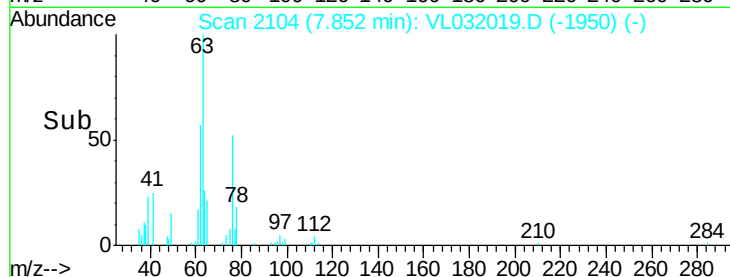
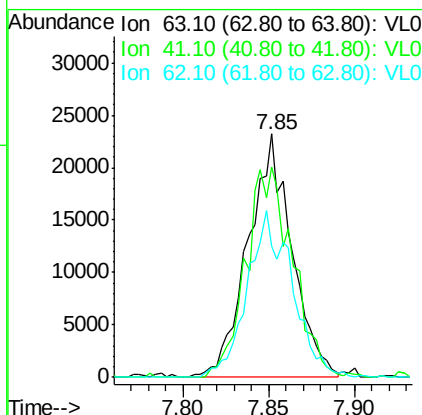
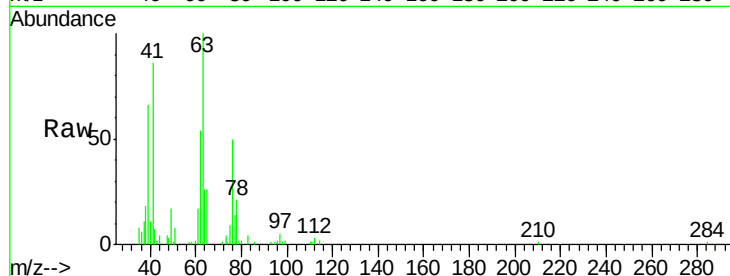
#39
 1,2-Dichloropropane
 Concen: 0.48 ppbv
 RT: 7.85 min Scan# 2104
 Delta R.T. -0.01 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
63	100		
41	86.2	64.0	96.0
62	54.0	57.6	86.4#

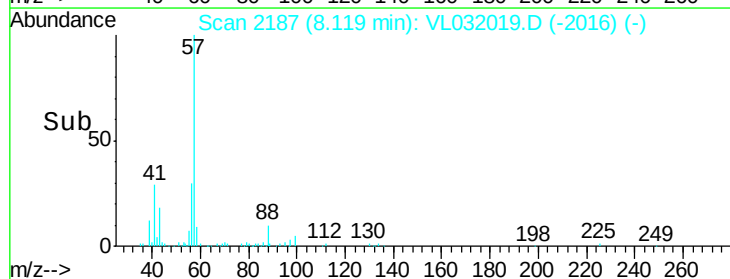
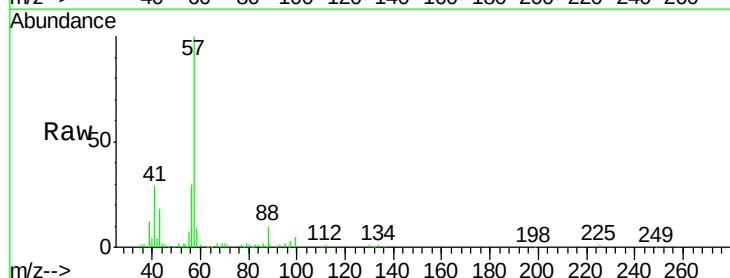
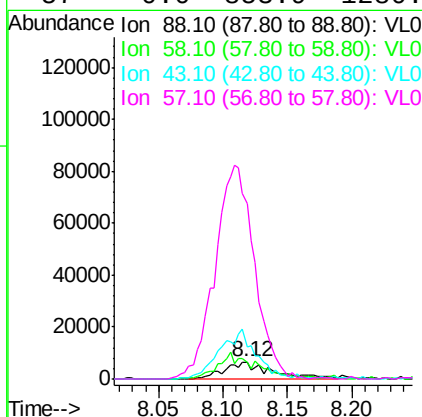
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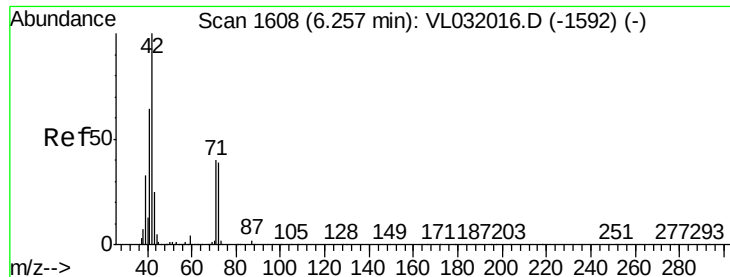
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#40
 1,4-Dioxane
 Concen: 0.45 ppbv m
 RT: 8.12 min Scan# 2187
 Delta R.T. 0.05 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	100.5	150.7#
43	0.0	193.8	290.6#
57	0.0	853.9	1280.9#





#41

Tetrahydrofuran

Concen: 0.33 ppbv m

RT: 6.28 min Scan# 1615

Delta R.T. 0.02 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Instrument :

MSVOA_L

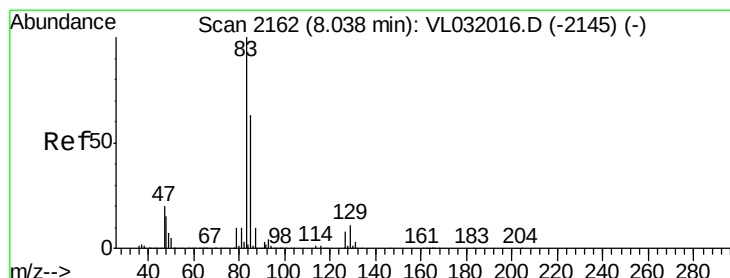
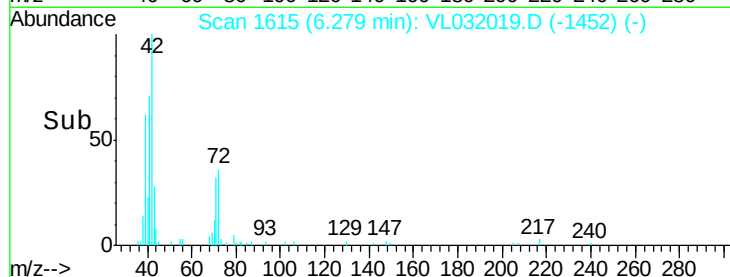
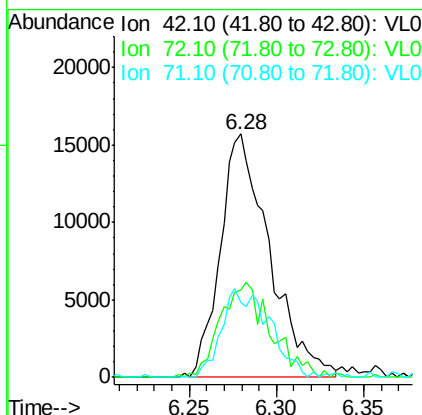
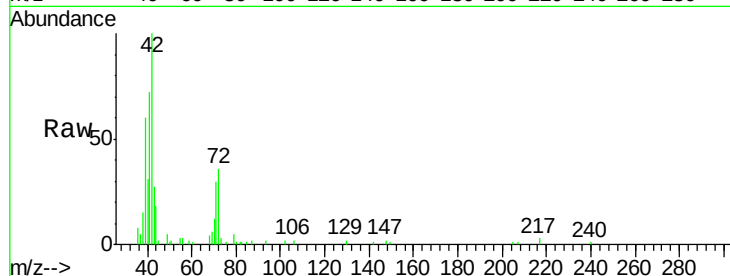
ClientSampleId :

VSTDIC0.5

Tot Ion:	42	Resp:	30832
Ion Ratio		Lower	Upper
42	100		
72	40.1	32.3	48.5
71	35.6	32.3	48.5

Manual Integrations
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#42

Bromodichloromethane

Concen: 0.51 ppbv

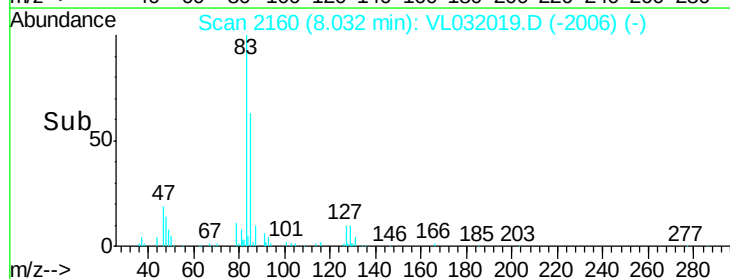
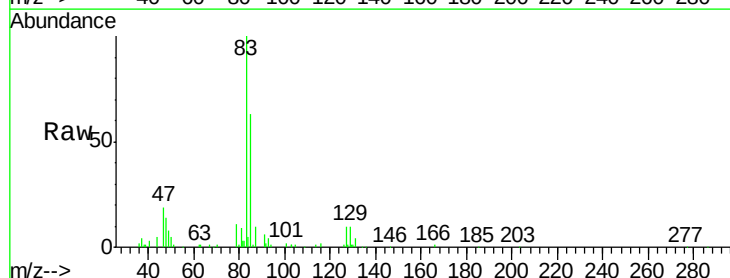
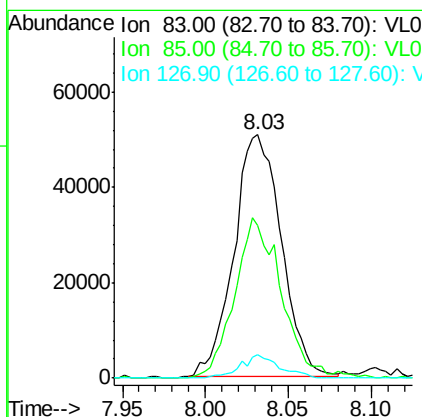
RT: 8.03 min Scan# 2160

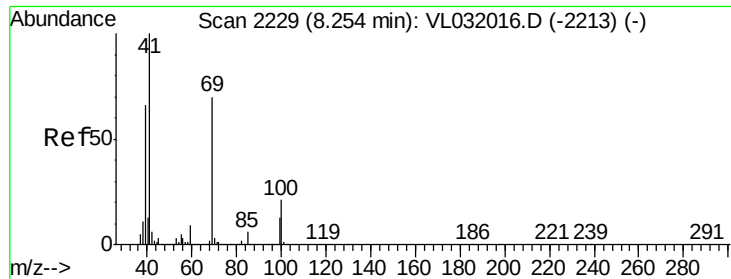
Delta R.T. -0.01 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Tgt Ion:	83	Resp:	100980
Ion Ratio		Lower	Upper
83	100		
85	63.3	50.3	75.5
127	9.8	6.6	9.8





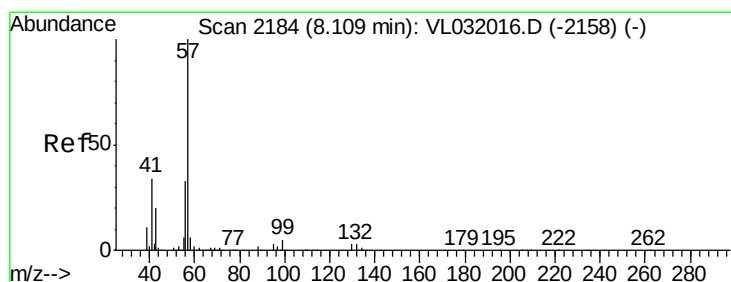
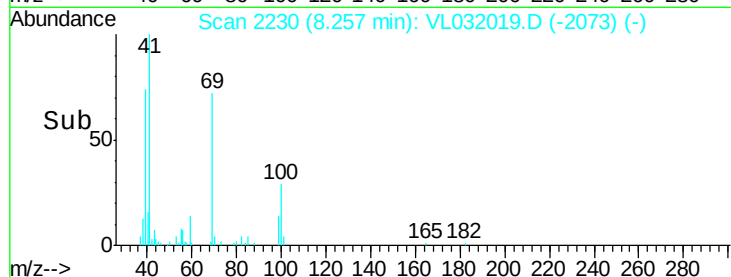
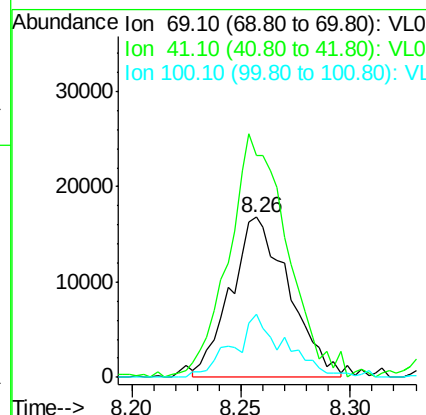
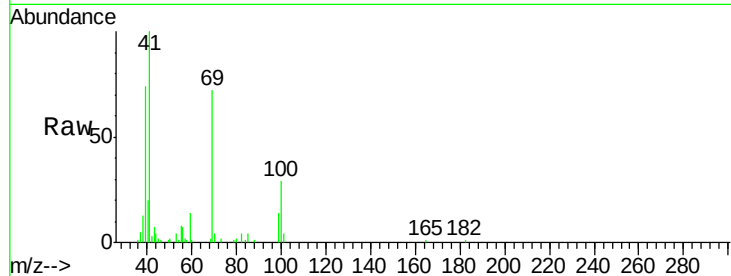
#43
Methvl Methacrylate
Concen: 0.38 ppbv m
RT: 8.26 min Scan# 2230
Delta R.T. 0.00 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	155.1	115.5	173.3	
100	35.6	25.4	38.0	

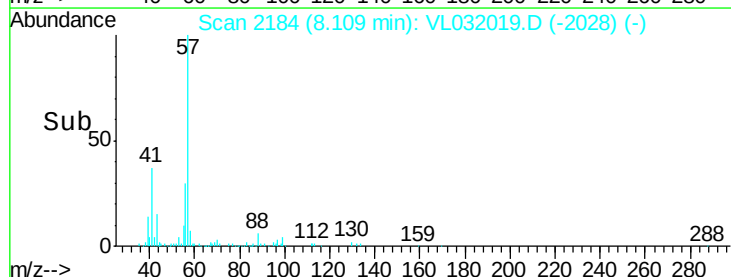
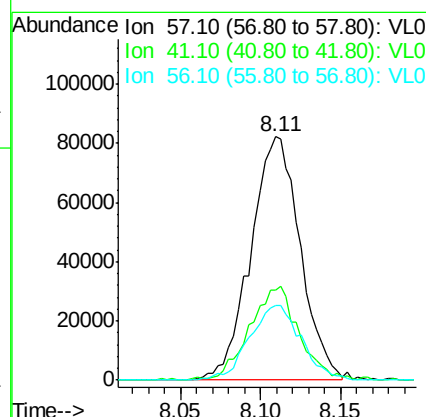
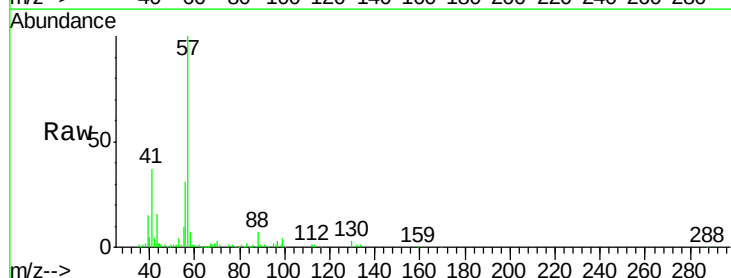
Manual Integrations
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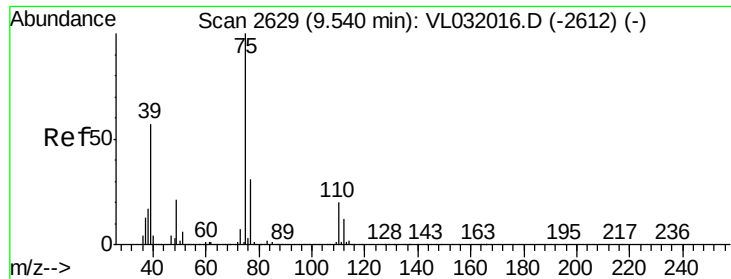
MMDadoda
6/4/2018 10:54:56 AM



#44
2,2,4-Trimethylpentane
Concen: 0.44 ppbv
RT: 8.11 min Scan# 2184
Delta R.T. 0.00 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	38.8	26.6	40.0	
56	32.2	24.9	37.3	





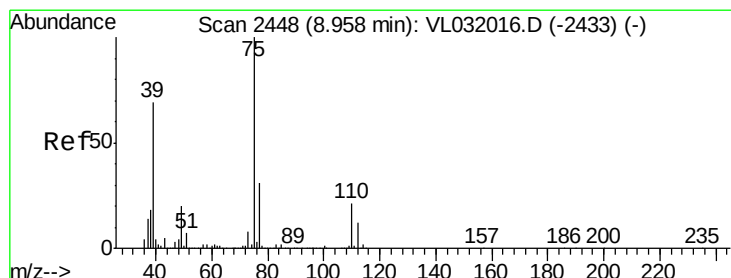
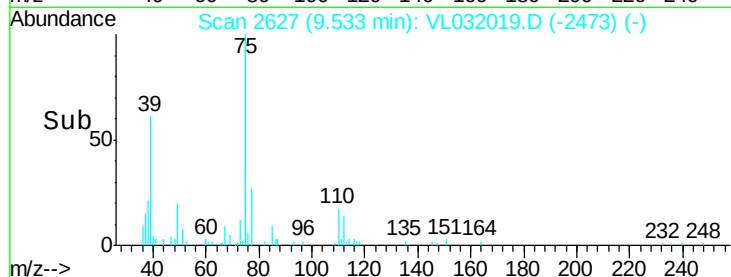
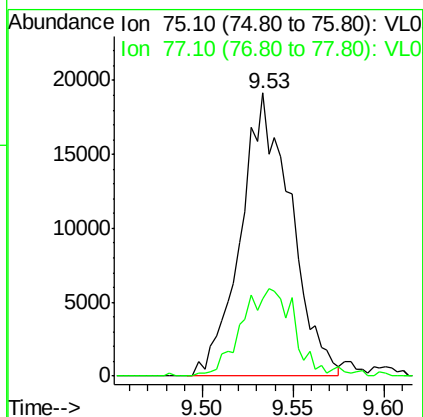
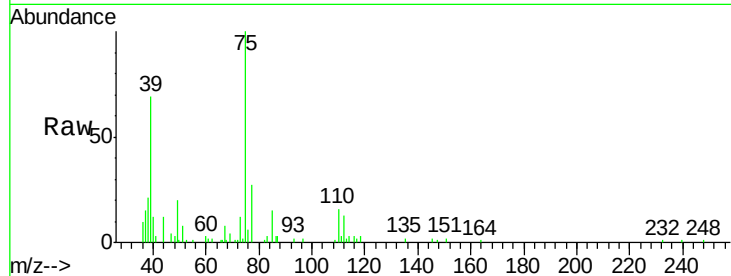
#45
t-1,3-Dichloropropene
Concen: 0.33 ppbv m
RT: 9.53 min Scan# 2627
Delta R.T. -0.01 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 75 Resp: 36553
Ion Ratio Lower Upper
75 100
77 27.3 25.0 37.4

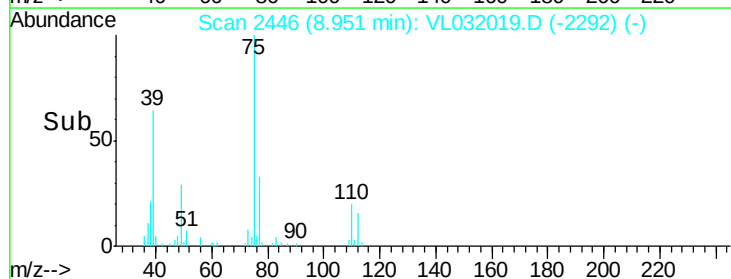
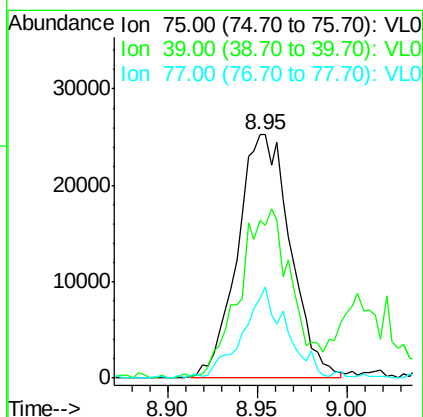
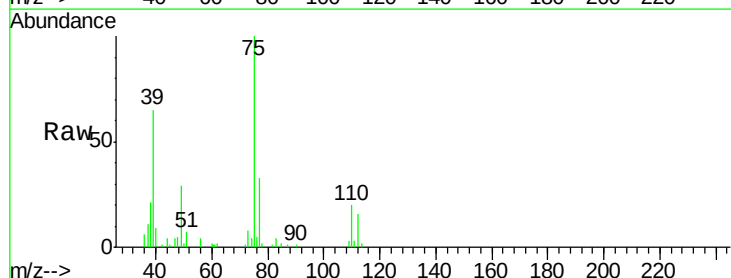
Manual Integrations
APPROVED

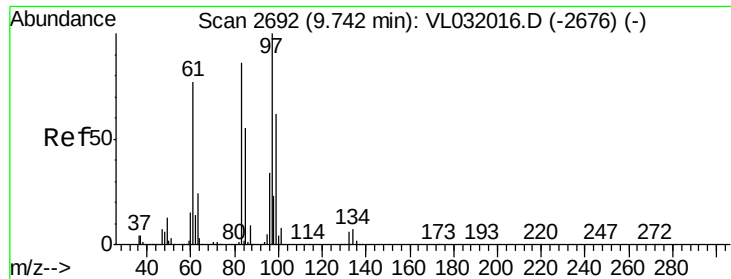
MMDadoda
6/4/2018 10:54:56 AM



#46
cis-1,3-Dichloropropene
Concen: 0.38 ppbv m
RT: 8.95 min Scan# 2446
Delta R.T. -0.01 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Tgt Ion: 75 Resp: 51865
Ion Ratio Lower Upper
75 100
39 64.9 55.0 82.6
77 33.0 25.0 37.6





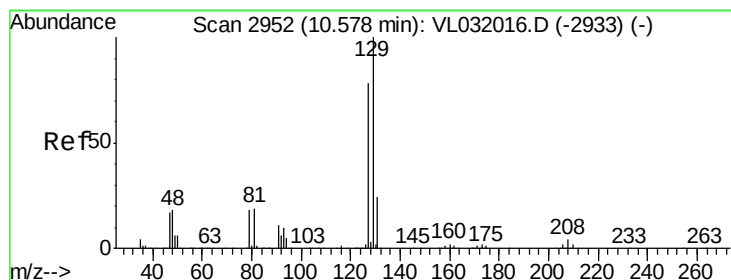
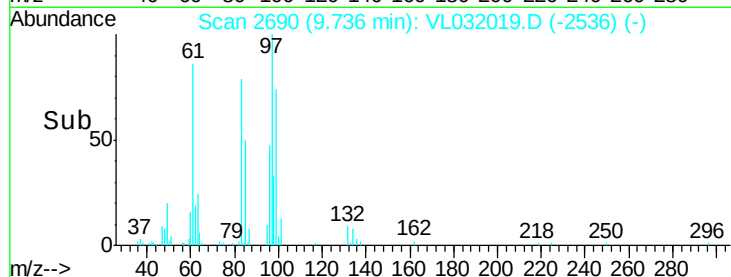
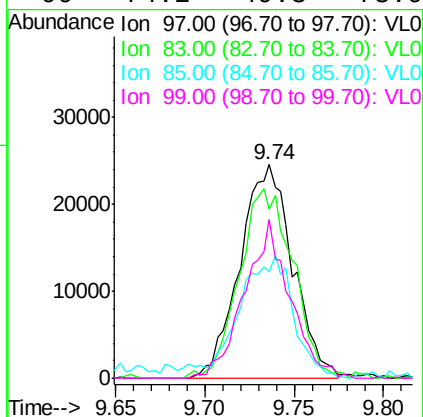
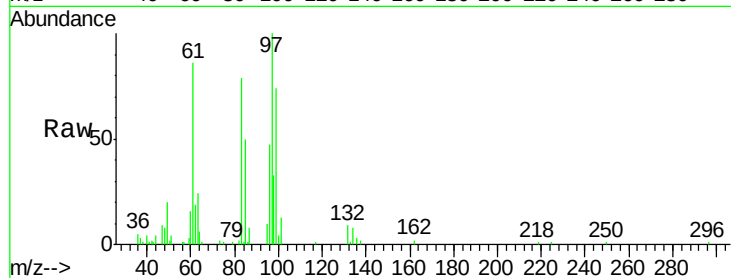
#47
 1,1,2-Trichloroethane
 Concen: 0.50 ppbv
 RT: 9.74 min Scan# 2690
 Delta R.T. -0.01 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
97	100		
83	77.2	69.1	103.7
85	49.1	44.5	66.7
99	74.2	49.3	73.9#

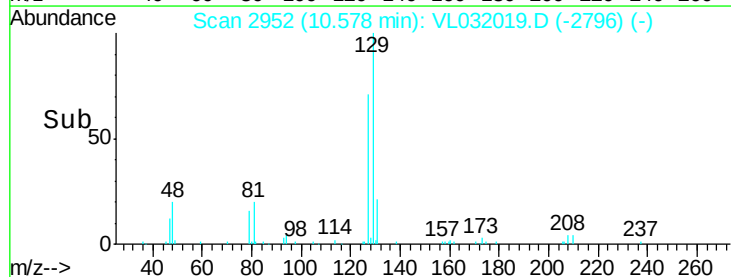
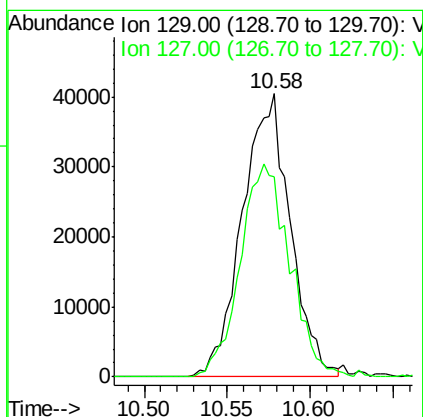
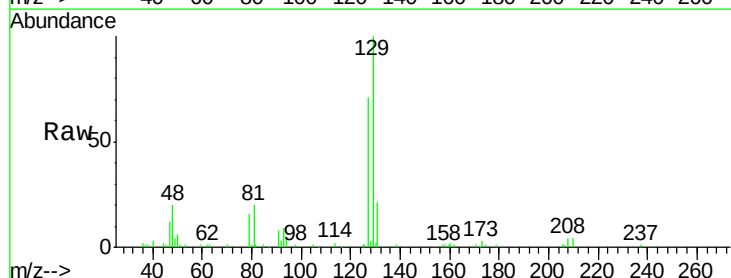
Manual Integrations
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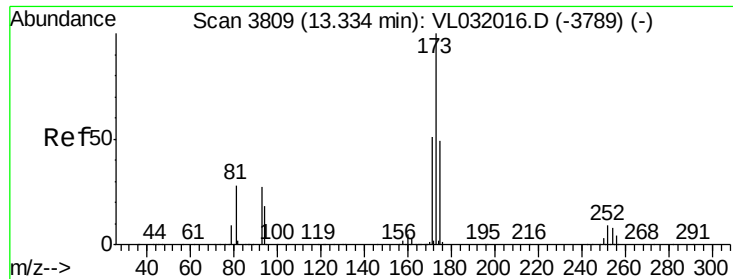
MMDadoda
 6/4/2018 10:54:56 AM



#48
 Dibromochloromethane
 Concen: 0.50 ppbv
 RT: 10.58 min Scan# 2952
 Delta R.T. 0.00 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.3	117.9





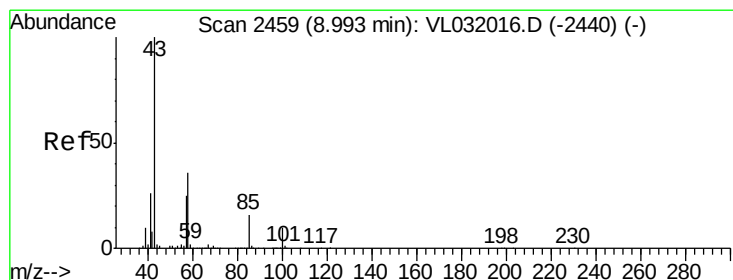
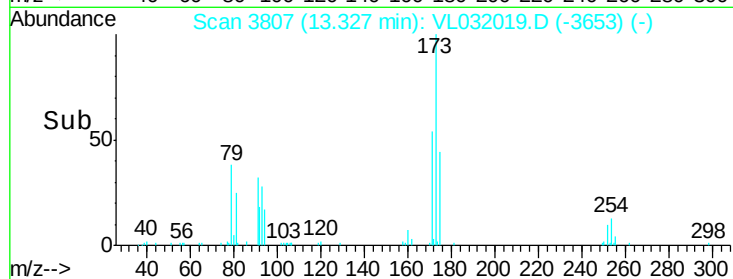
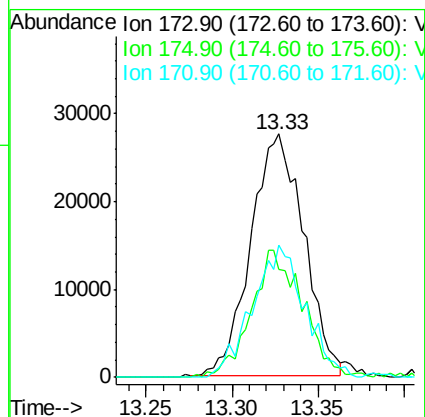
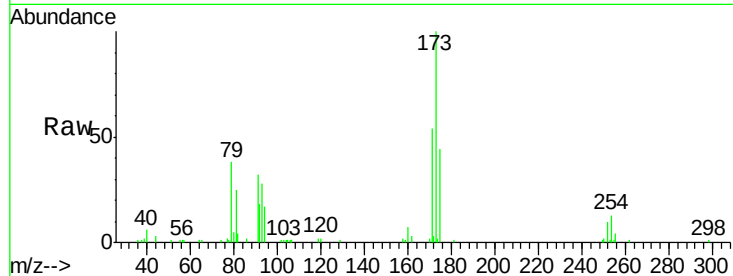
#49
Bromoform
Concen: 0.46 ppbv
RT: 13.33 min Scan# 3807
Delta R.T. -0.01 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
173	100		
175	52.1	39.8	59.8
171	54.4	41.7	62.5

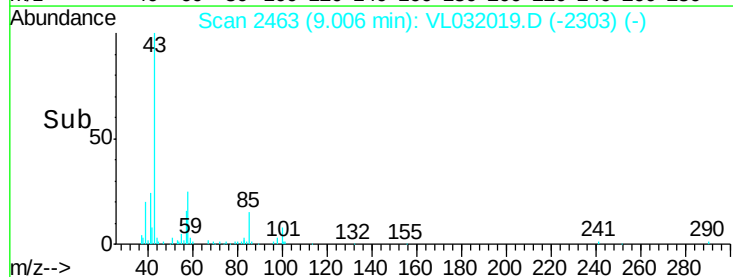
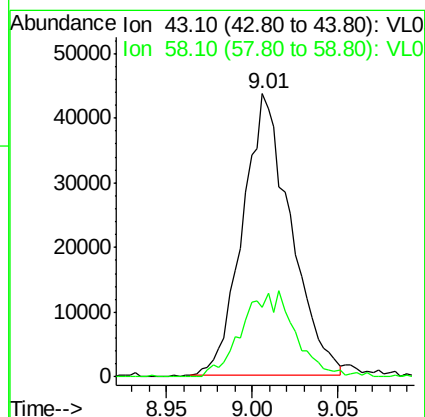
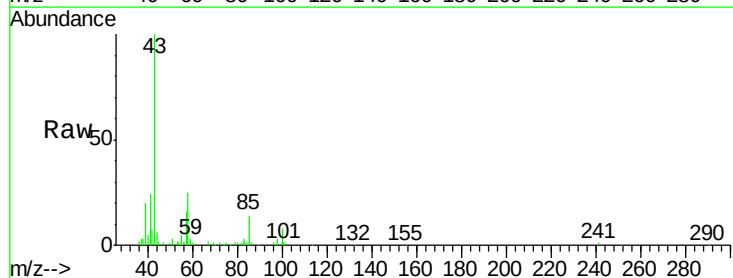
Manual Integrations
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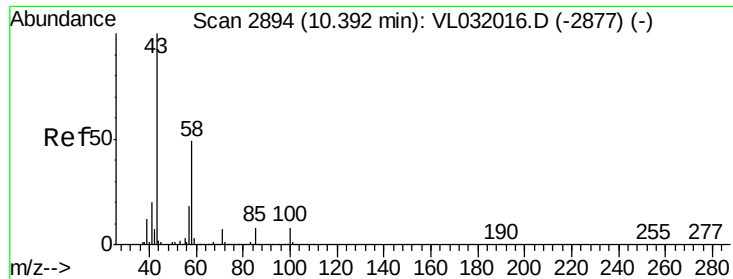
MMDadoda
6/4/2018 10:54:56 AM



#50
4-Methyl-2-Pentanone
Concen: 0.42 ppbv
RT: 9.01 min Scan# 2463
Delta R.T. 0.01 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.1	29.1	43.7





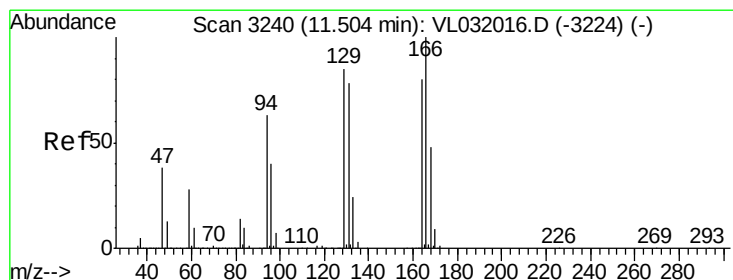
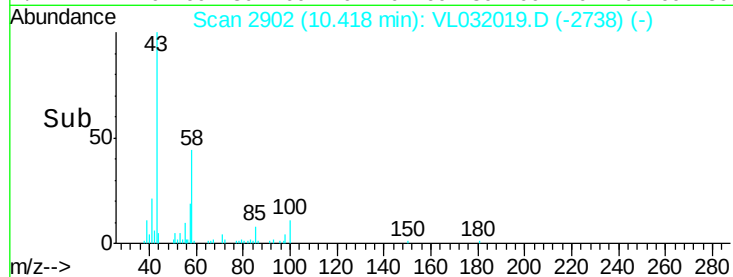
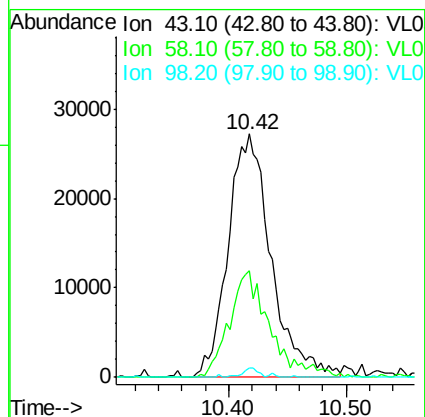
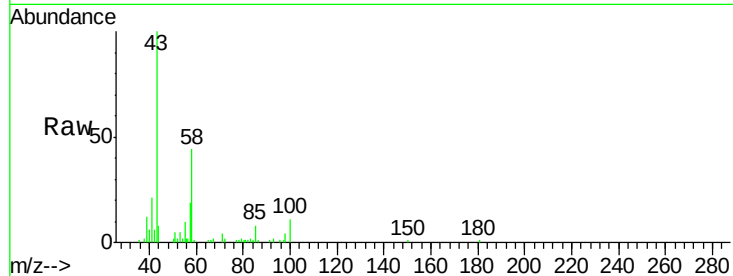
#51
2-Hexanone
Concen: 0.37 ppbv m
RT: 10.42 min Scan# 2902
Delta R.T. 0.03 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
58	41.5	39.0	58.6
98	1.8	0.4	0.6

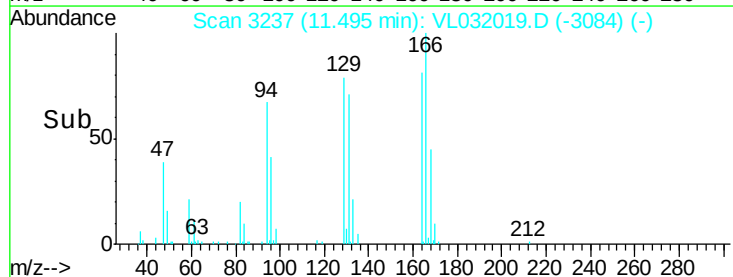
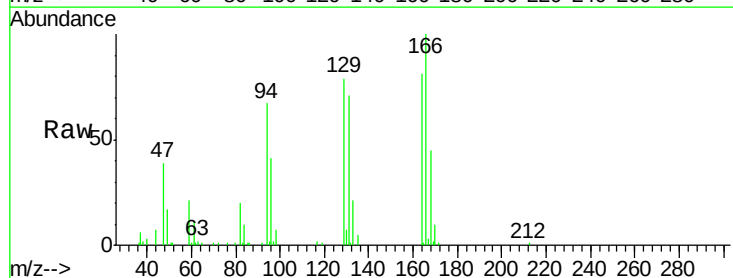
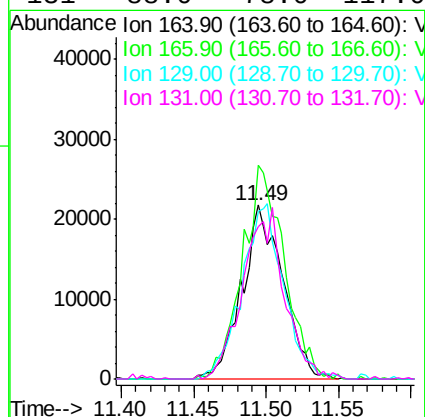
Manual Integrations
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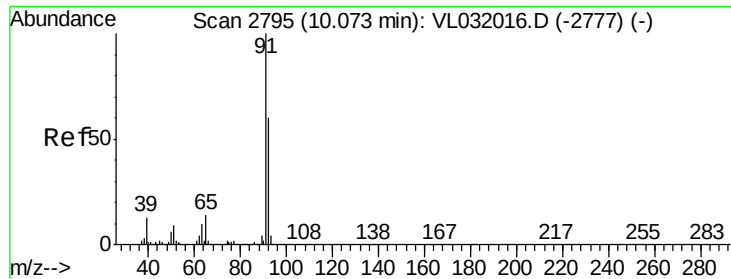
MMDadoda
6/4/2018 10:54:56 AM



#52
Tetrachloroethene
Concen: 0.47 ppbv m
RT: 11.49 min Scan# 3237
Delta R.T. -0.01 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.1	100.2	150.2
129	97.0	85.4	128.0
131	88.0	78.0	117.0





#53

Toluene

Concen: 0.36 ppbv

RT: 10.07 min Scan# 2794

Delta R.T. -0.00 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 94771

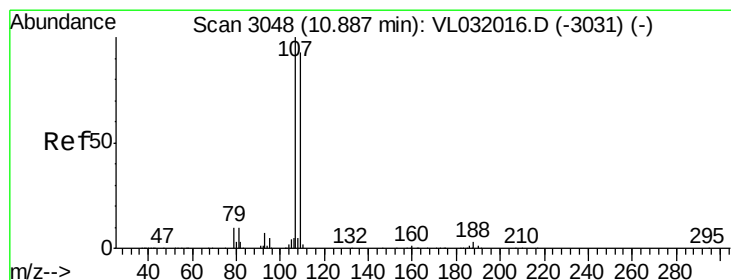
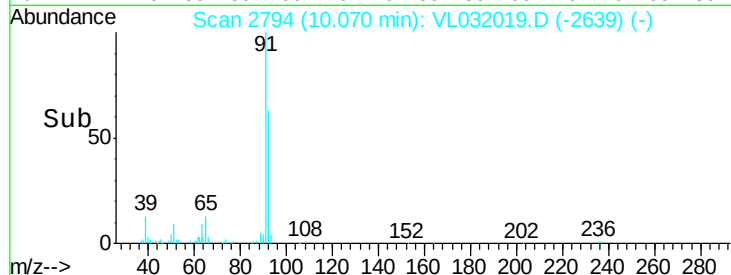
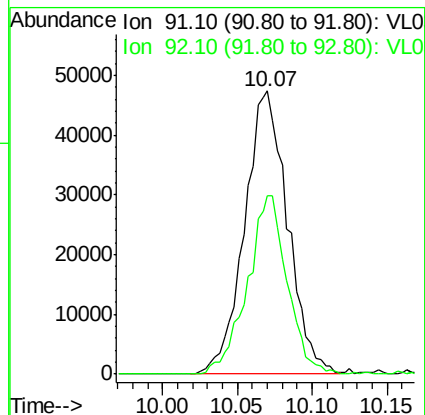
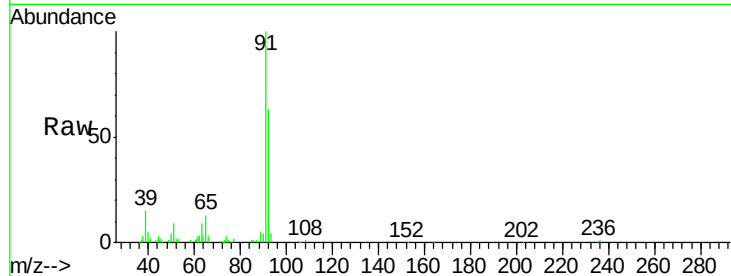
Ion Ratio Lower Upper

91 100

92 58.6 48.2 72.2

Manual Integrations
APPROVED

MMDadoda
6/4/2018 10:54:56 AM



#54

1,2-Dibromoethane

Concen: 0.46 ppbv

RT: 10.88 min Scan# 3046

Delta R.T. -0.01 min

Lab File: VL032019.D

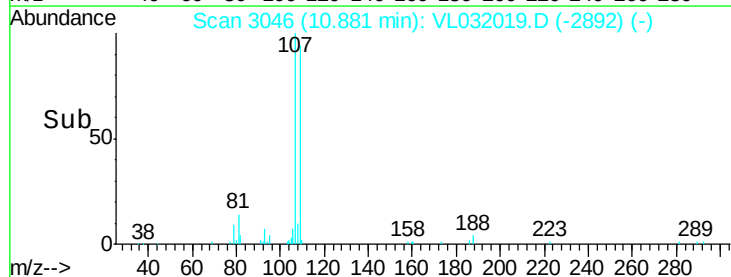
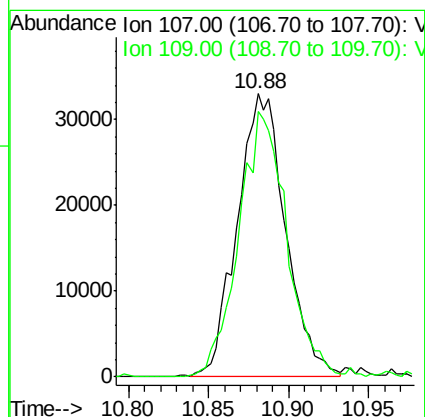
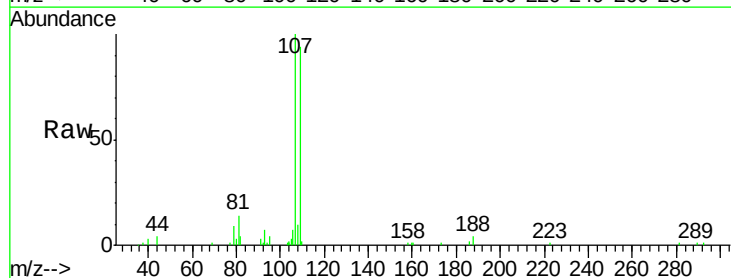
Acq: 31 May 2018 18:01

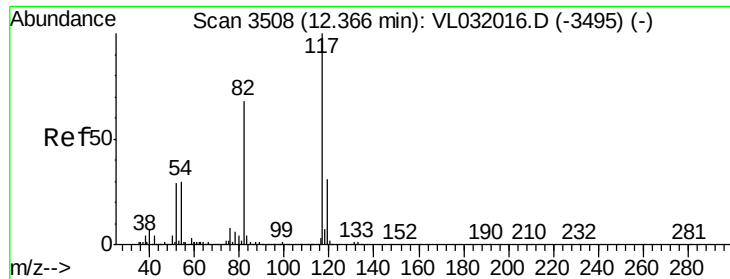
Tgt Ion: 107 Resp: 68318

Ion Ratio Lower Upper

107 100

109 93.0 74.6 111.8





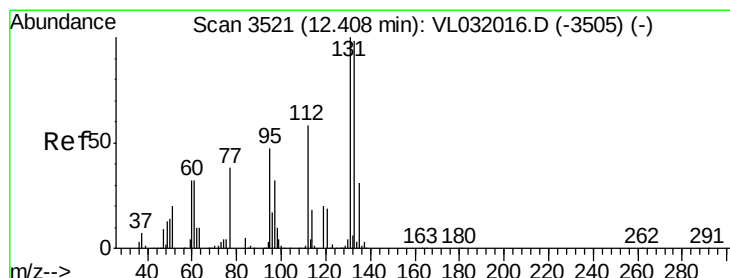
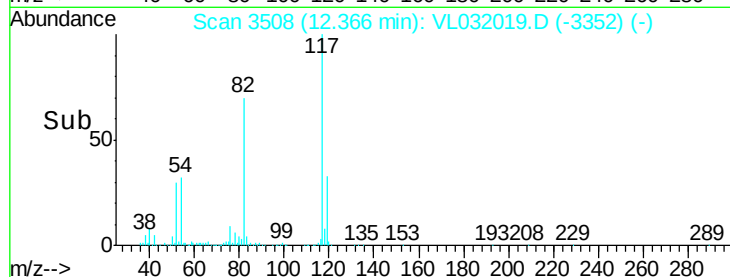
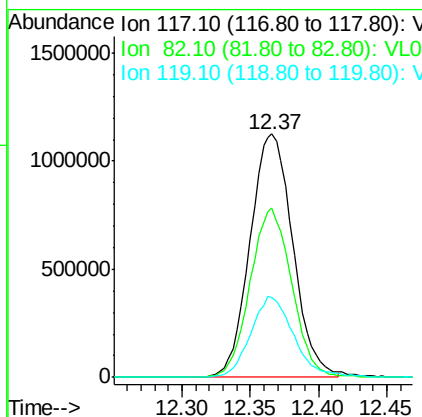
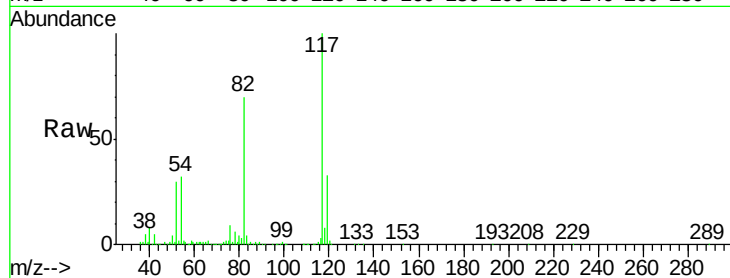
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.37 min Scan# 3508
Delta R.T. 0.00 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.1	52.7	79.1
119	33.6	25.5	38.3

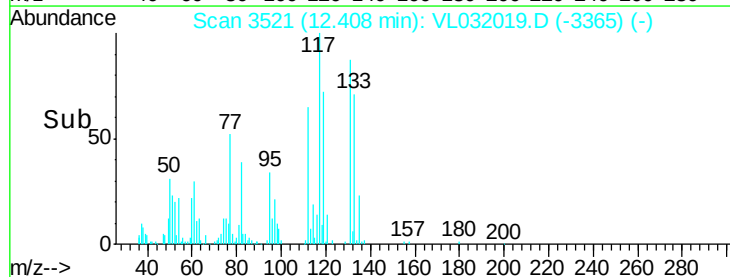
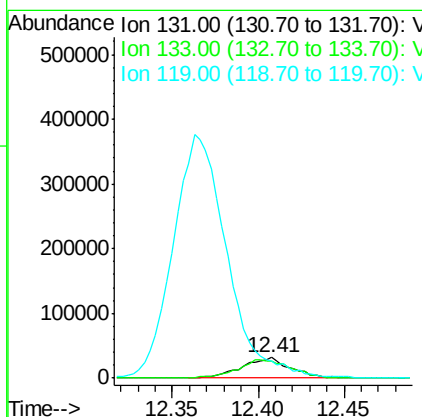
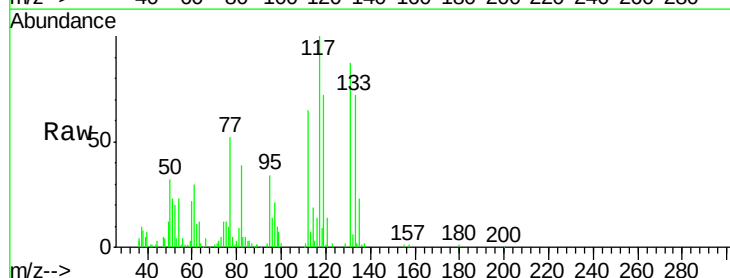
Manual Integrations
APPROVED

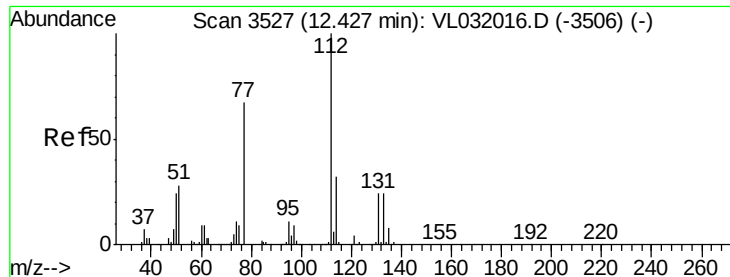
MMDadoda
6/4/2018 10:54:56 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.56 ppbv
RT: 12.41 min Scan# 3521
Delta R.T. 0.00 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.6	76.7	115.1
119	1313.0	49.2	73.8#





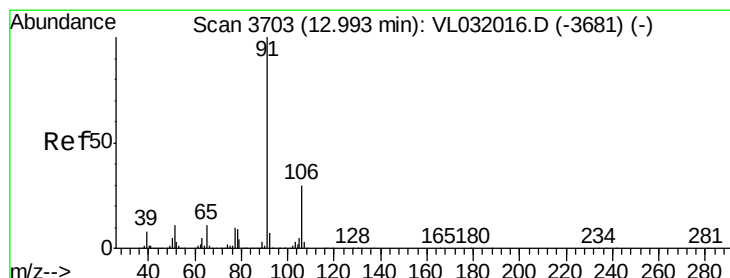
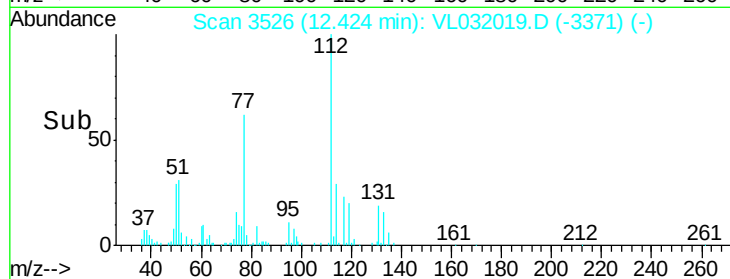
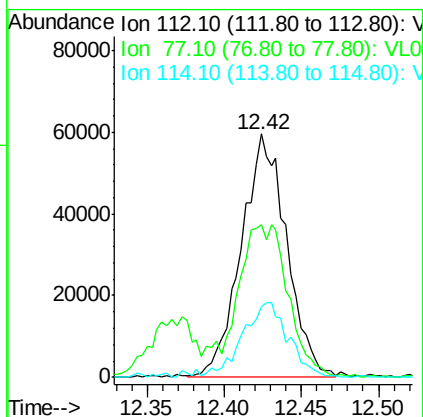
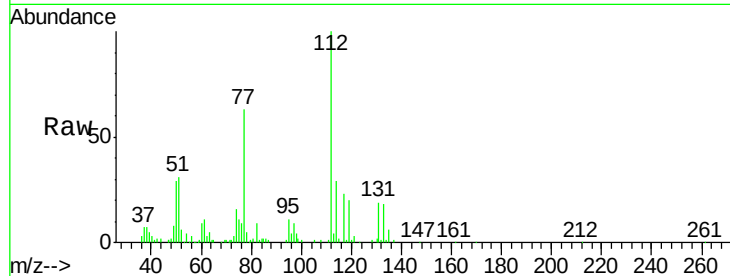
#57
Chlorobenzene
Concen: 0.57 ppbv m
RT: 12.42 min Scan# 3526
Delta R.T. -0.00 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
112	100		
77	62.7	54.3	81.5
114	29.3	28.6	35.0

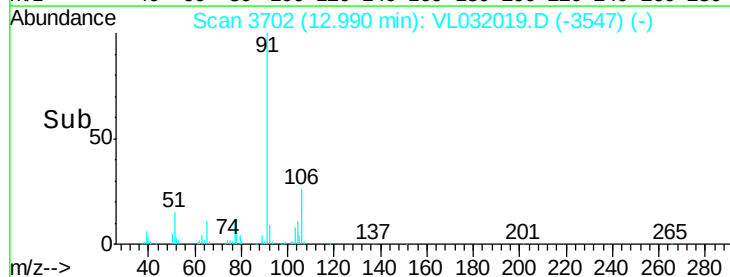
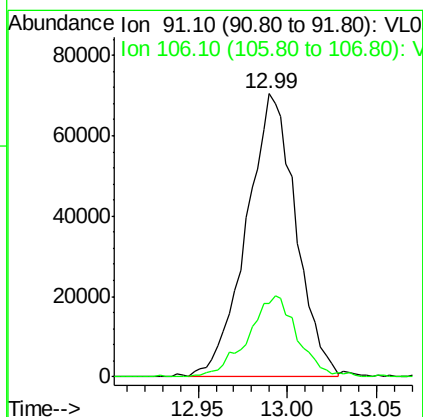
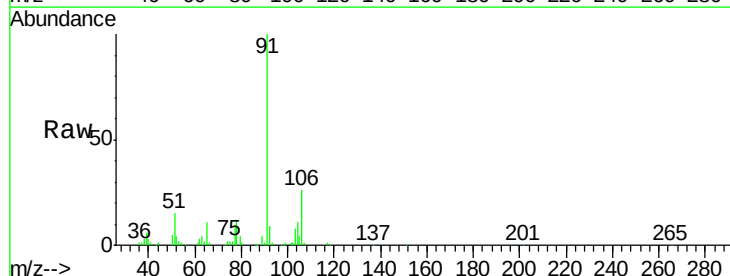
Manual Integrations
APPROVED

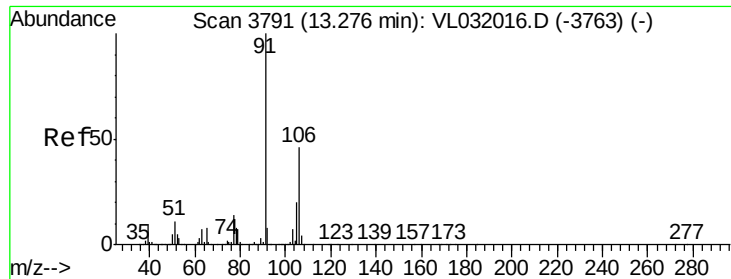
MMDadoda
6/4/2018 10:54:56 AM



#58
Ethyl Benzene
Concen: 0.38 ppbv
RT: 12.99 min Scan# 3702
Delta R.T. -0.00 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Tgt Ion	Ratio	Lower	Upper
91	100		
106	25.9	24.2	36.2





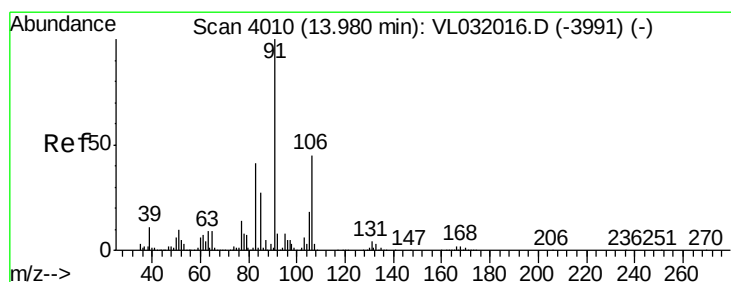
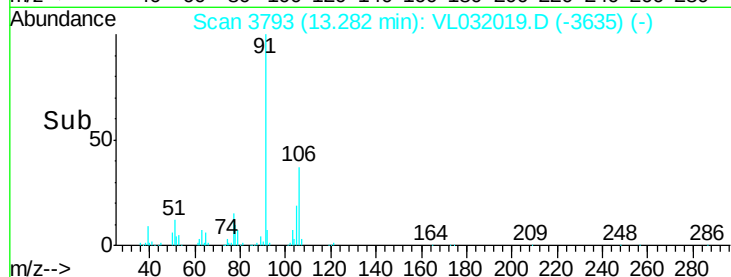
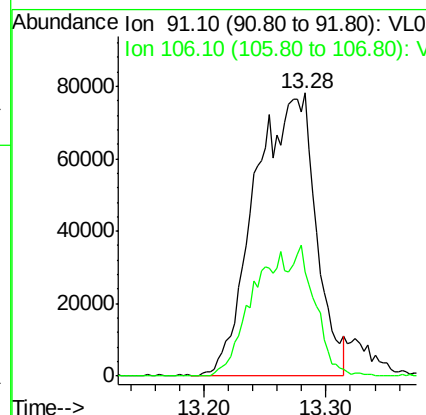
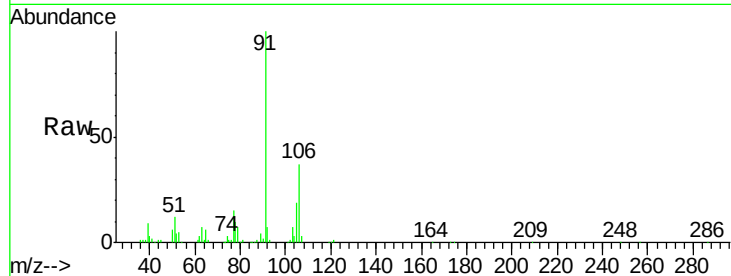
#59
m/p-Xylene
Concen: 0.89 ppbv m
RT: 13.28 min Scan# 3793
Delta R.T. 0.01 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 270505
Ion Ratio Lower Upper
91 100
106 0.0 35.7 53.5#

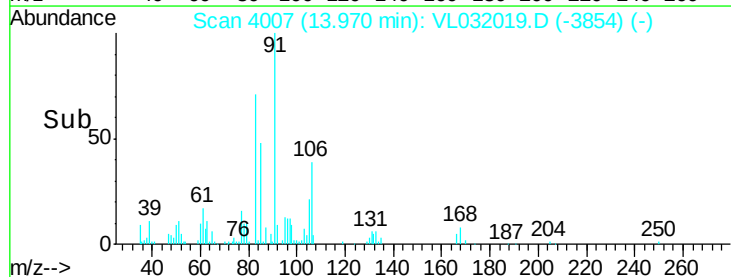
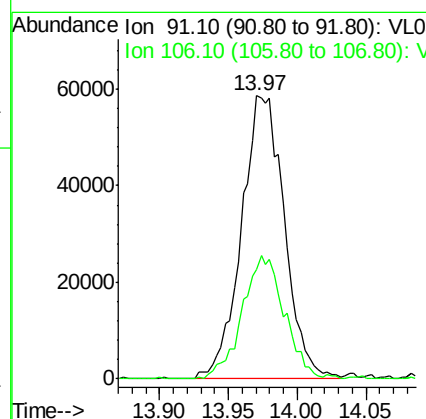
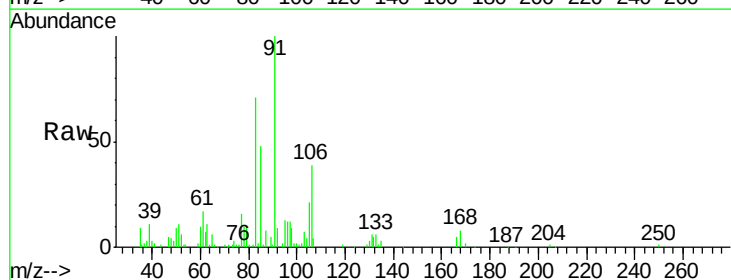
Manual Integrations
APPROVED

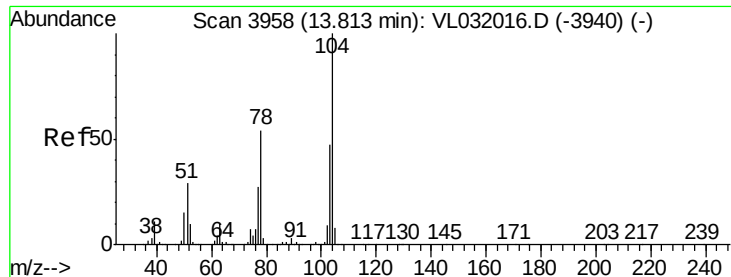
MMDadoda
6/4/2018 10:54:56 AM



#60
o-Xylene
Concen: 0.42 ppbv m
RT: 13.97 min Scan# 4007
Delta R.T. -0.01 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Tgt Ion: 91 Resp: 127620
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.5#





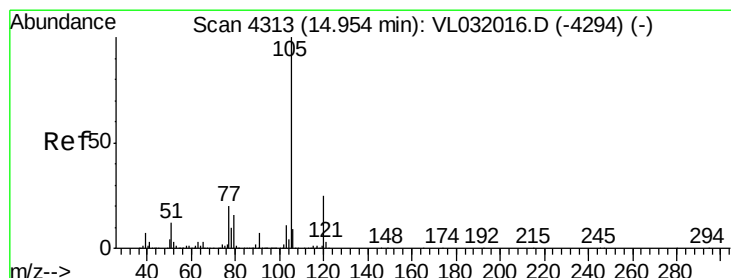
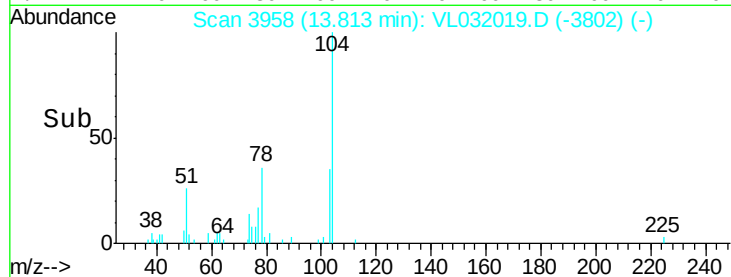
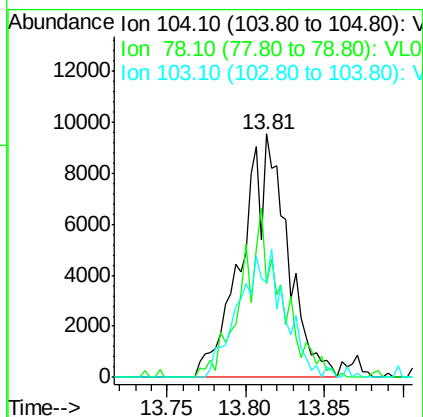
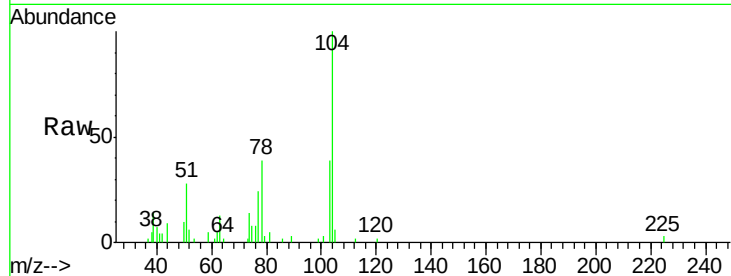
#61
Stvrene
Concen: 0.32 ppbv m
RT: 13.81 min Scan# 3958
Delta R.T. 0.00 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
104	100		
78	59.2	43.0	64.4
103	52.3	37.4	56.2

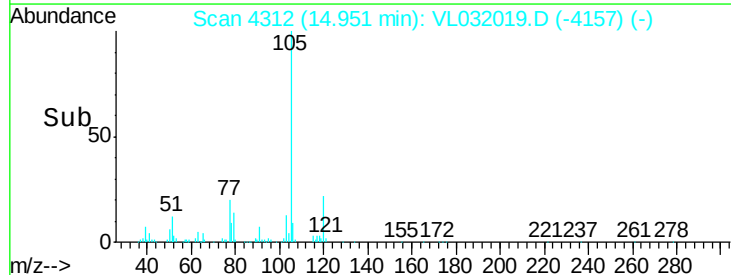
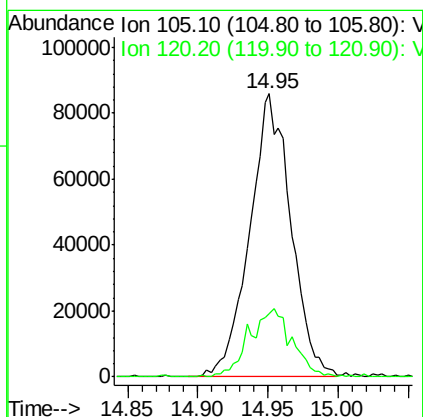
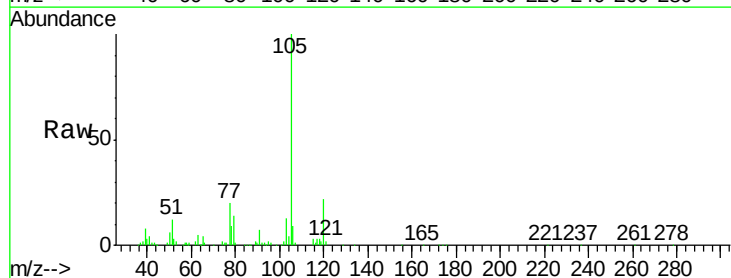
Manual Integrations
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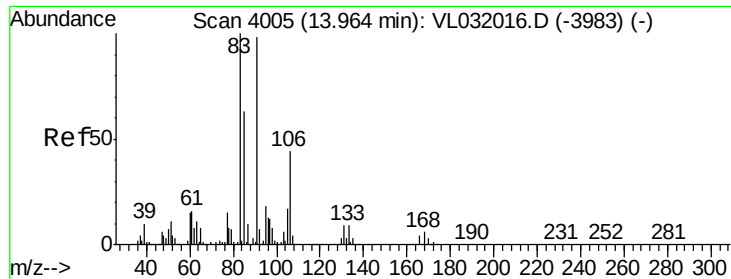
MMDadoda
6/4/2018 10:54:56 AM



#62
Isopropylbenzene
Concen: 0.45 ppbv m
RT: 14.95 min Scan# 4312
Delta R.T. -0.00 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	19.8	29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 0.56 ppbv

RT: 13.96 min Scan# 4004

Delta R.T. -0.00 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 83 Resp: 120468

Ion Ratio Lower Upper

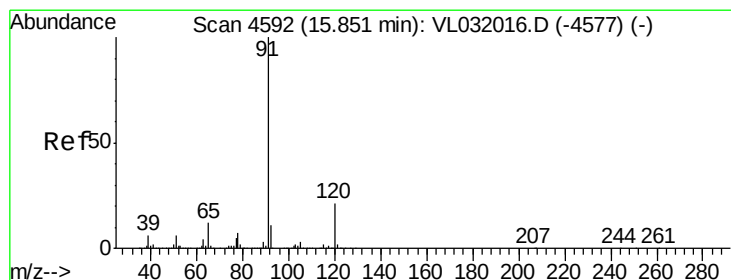
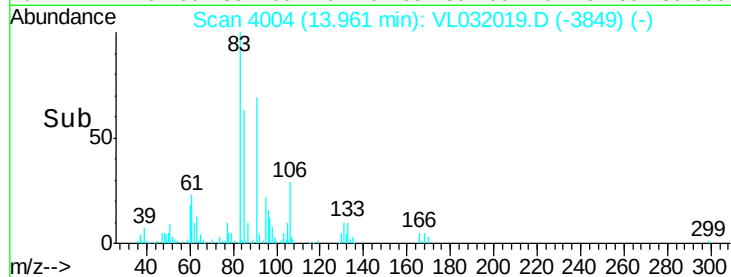
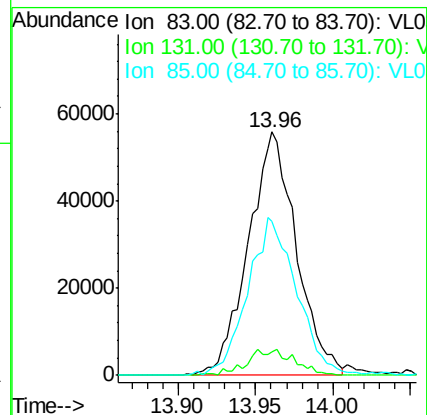
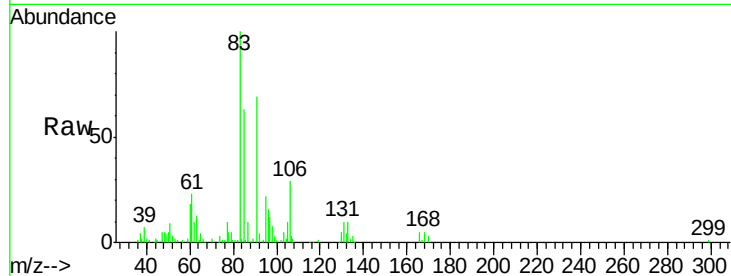
83 100

131 10.6 4.7 14.0

85 66.5 32.2 96.6

Manual Integrations
APPROVED

MMDadoda
6/4/2018 10:54:56 AM



#64

n-propylbenzene

Concen: 0.44 ppbv m

RT: 15.85 min Scan# 4591

Delta R.T. -0.00 min

Lab File: VL032019.D

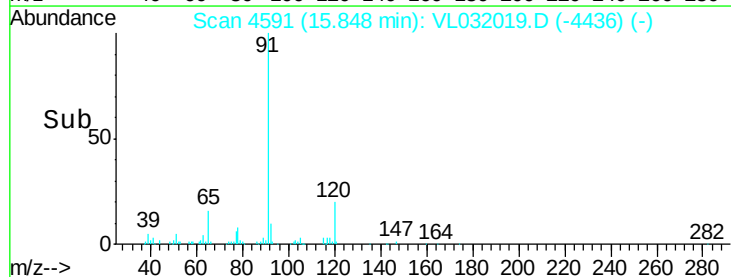
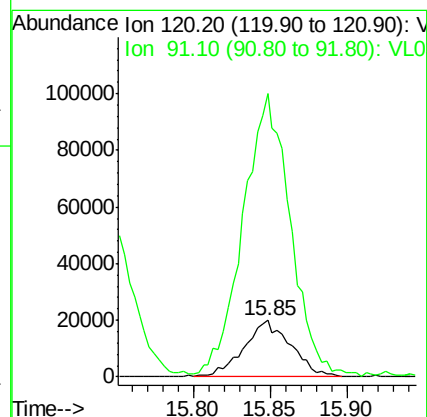
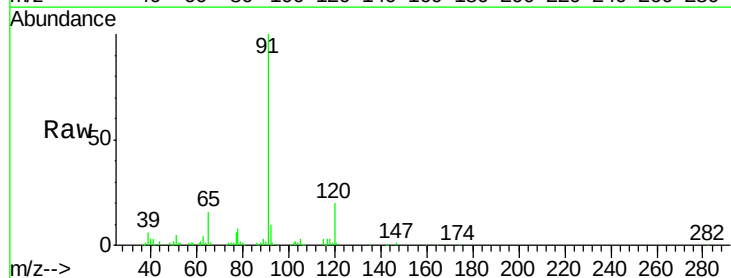
Acq: 31 May 2018 18:01

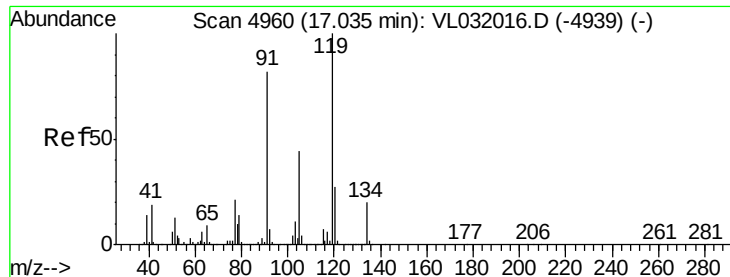
Tgt Ion: 120 Resp: 42409

Ion Ratio Lower Upper

120 100

91 0.0 391.1 586.7#





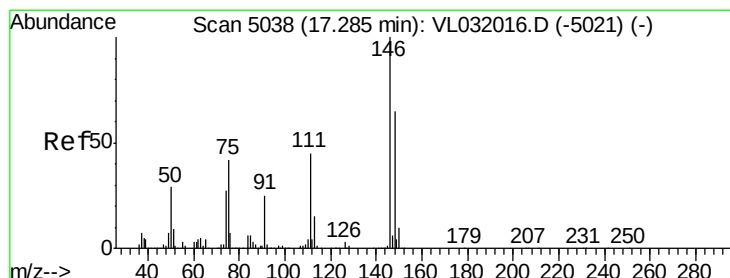
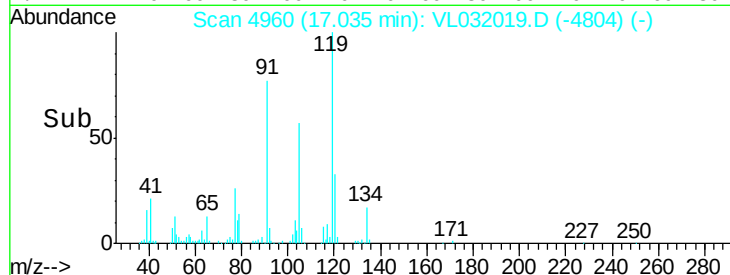
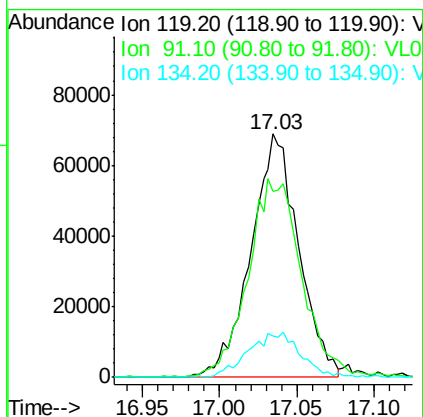
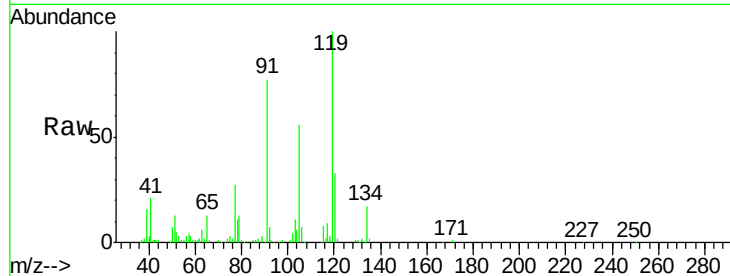
#65
 tert-Butylbenzene
 Concen: 0.43 ppbv
 RT: 17.03 min Scan# 4960
 Delta R.T. 0.00 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	147709		
91	92.2	68.2	102.4	
134	20.5	15.6	23.4	

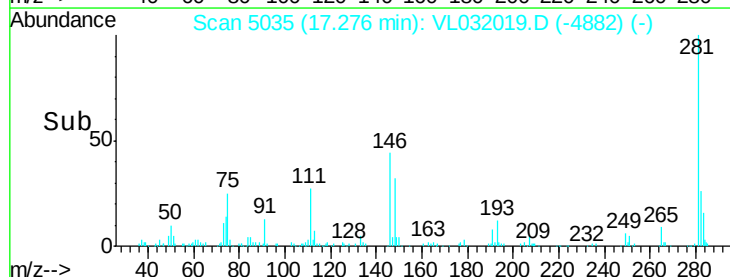
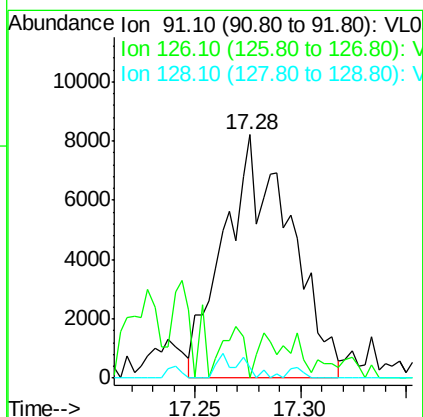
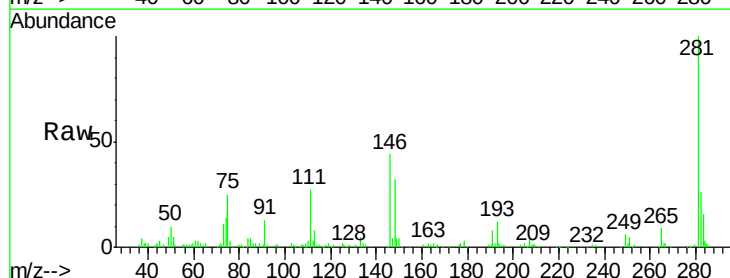
Manual Integrations
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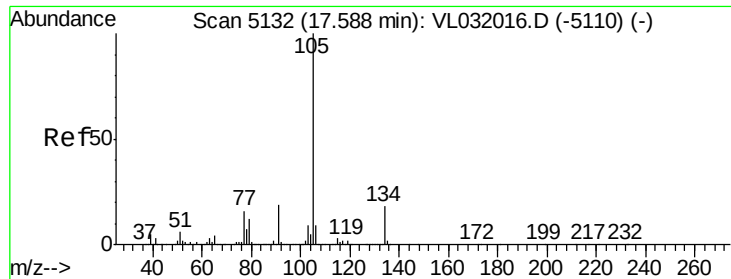
MMDadoda
 6/4/2018 10:54:56 AM



#66
 Benzyl Chloride
 Concen: 0.56 ppbv m
 RT: 17.28 min Scan# 5035
 Delta R.T. -0.01 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	17830		
126	0.0	14.2	21.2#	
128	0.0	4.5	6.7#	





#67

sec-Butylbenzene

Concen: 0.47 ppbv

RT: 17.58 min Scan# 5130

Delta R.T. -0.01 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 105 Resp: 225308

Ion Ratio Lower Upper

105 100

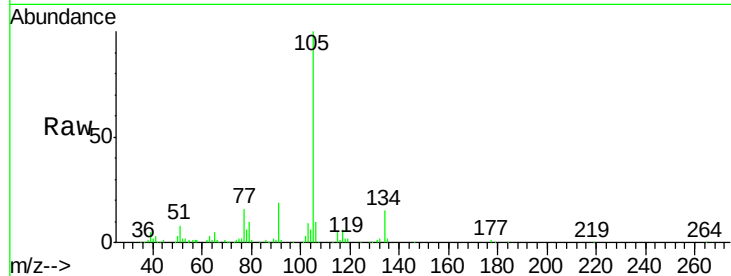
134 18.5 14.4 21.6

Manual Integrations

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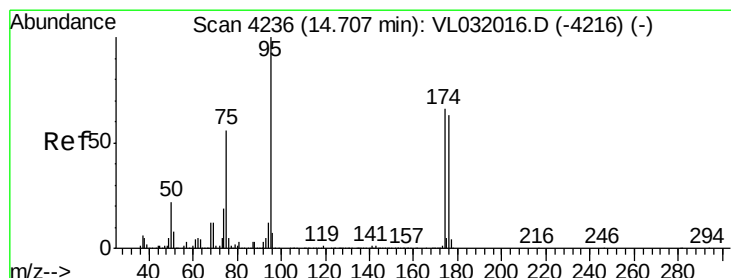
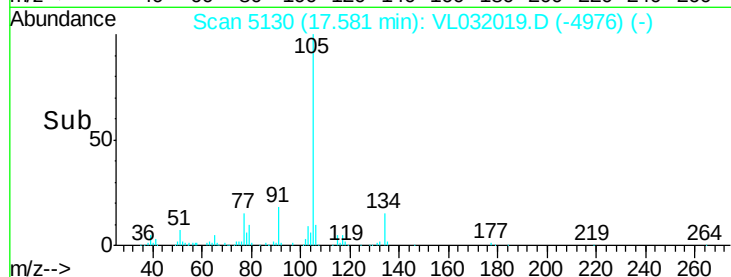
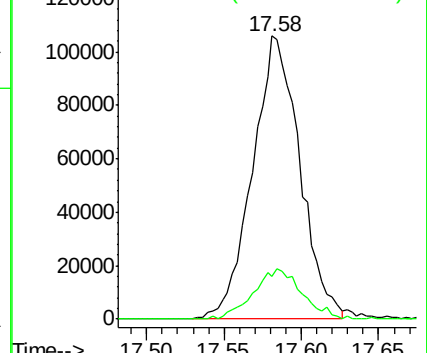
MMDadoda

6/4/2018 10:54:56 AM



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: 10.08 ppbv

RT: 14.70 min Scan# 4235

Delta R.T. -0.00 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

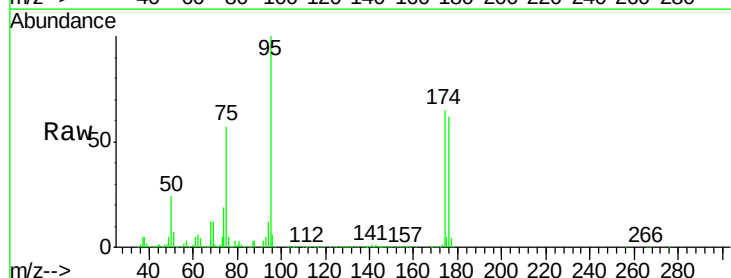
Tgt Ion: 95 Resp: 1914970

Ion Ratio Lower Upper

95 100

174 67.3 53.2 79.8

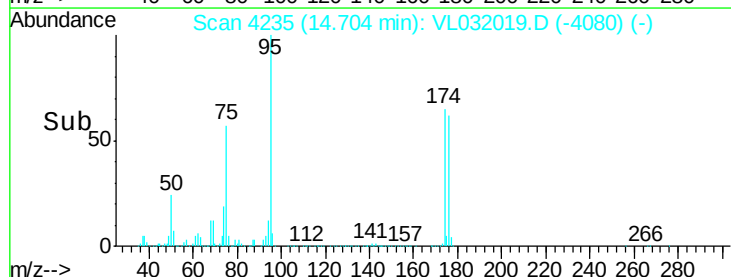
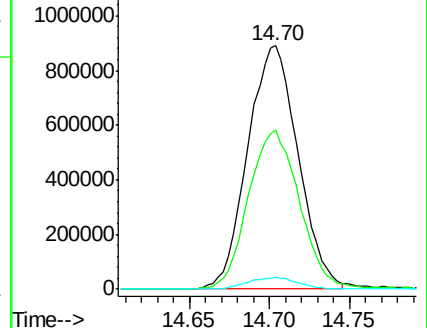
175 4.9 3.7 5.5

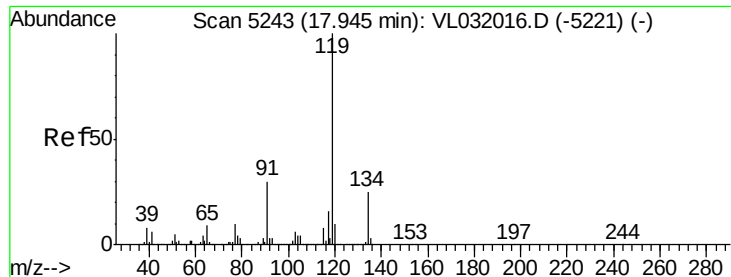


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





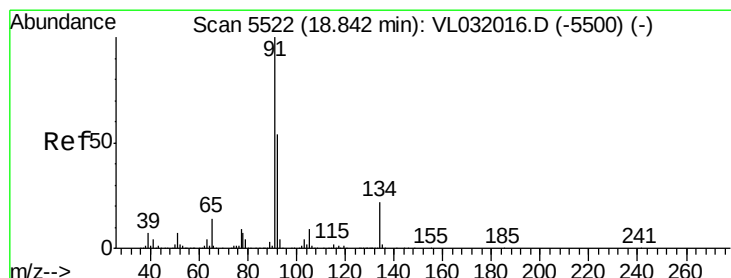
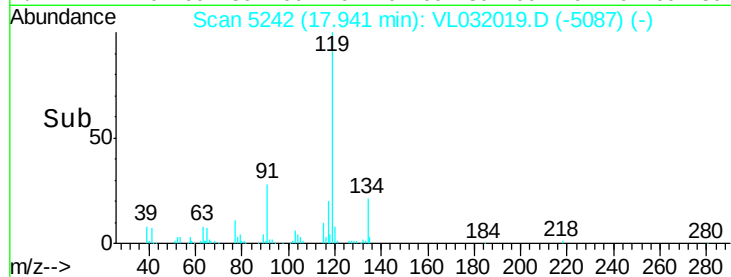
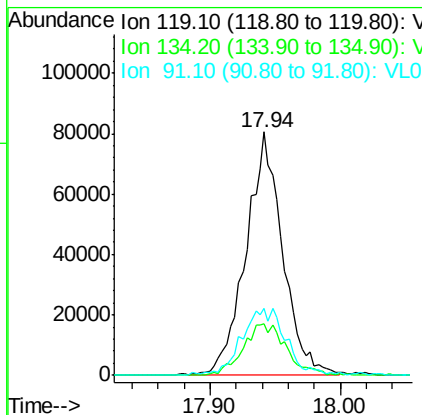
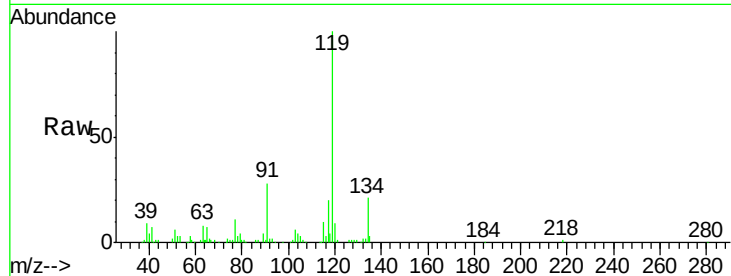
#69
 p-Isopropyltoluene
 Concen: 0.41 ppbv m
 RT: 17.94 min Scan# 5242
 Delta R.T. -0.00 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	119	Resp:	157430
Ion Ratio	Lower	Upper	
119	100		
134	25.2	19.9	29.9
91	33.3	24.1	36.1

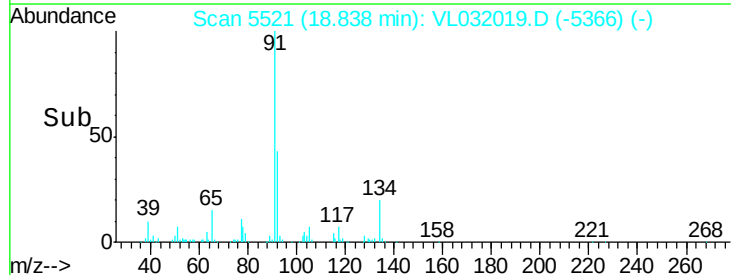
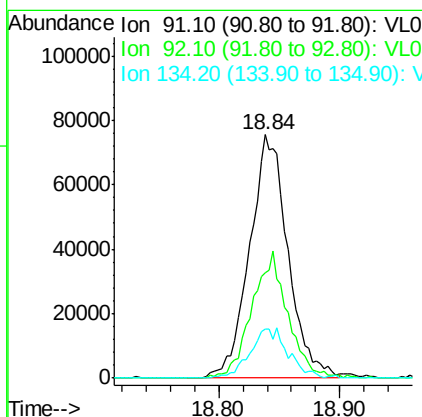
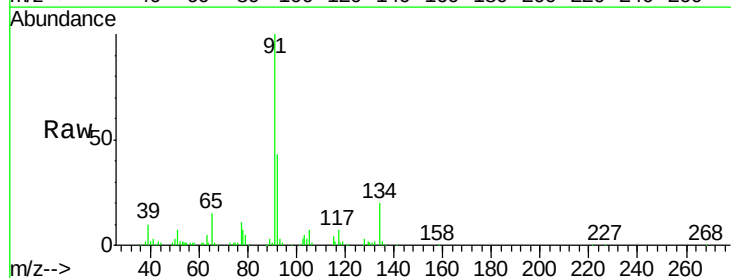
Manual Integrations
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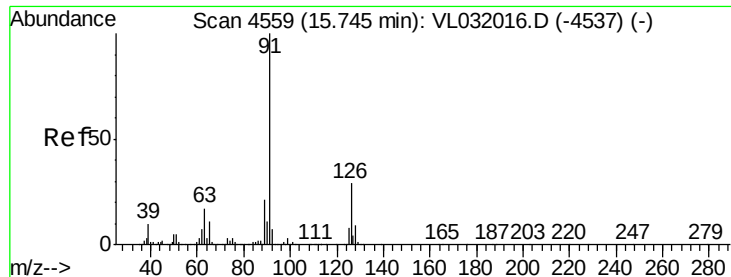
MMDadoda
 6/4/2018 10:54:56 AM



#70
 n-Butylbenzene
 Concen: 0.42 ppbv m
 RT: 18.84 min Scan# 5521
 Delta R.T. -0.00 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

Tgt Ion:	91	Resp:	167379
Ion Ratio	Lower	Upper	
91	100		
92	0.0	42.5	63.7#
134	0.0	17.4	26.2#





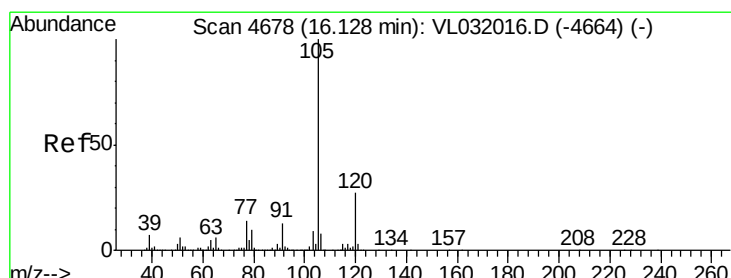
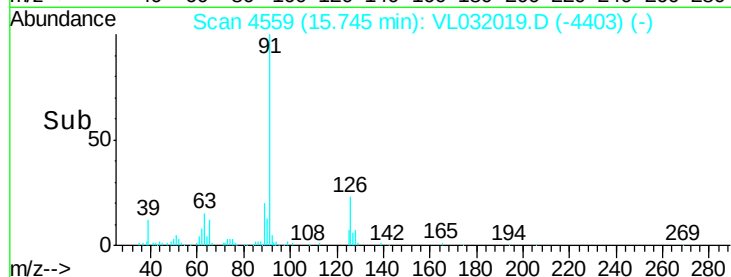
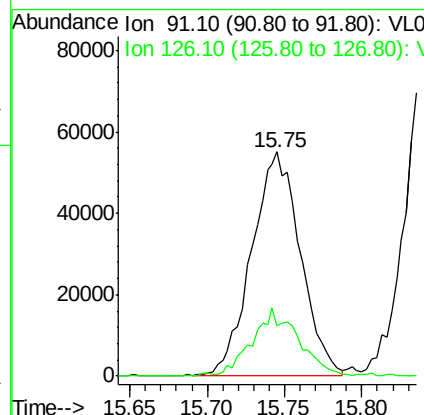
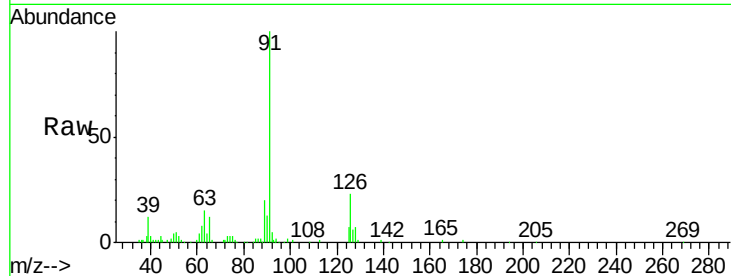
#71
2-Chlorotoluene
Concen: 0.42 ppbv
RT: 15.75 min Scan# 4559
Delta R.T. 0.00 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
91	100		
126	29.4	11.7	46.7

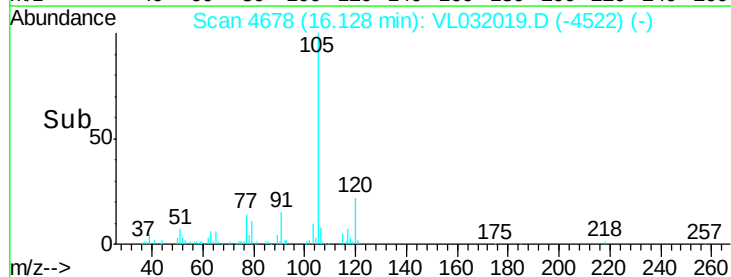
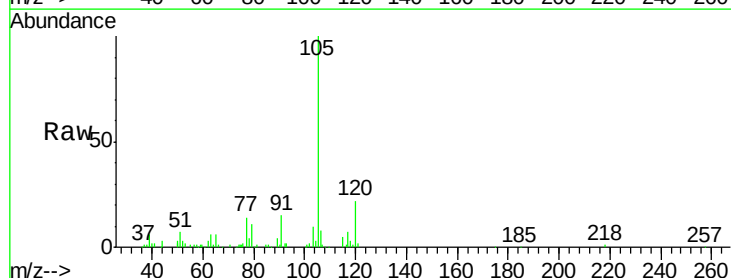
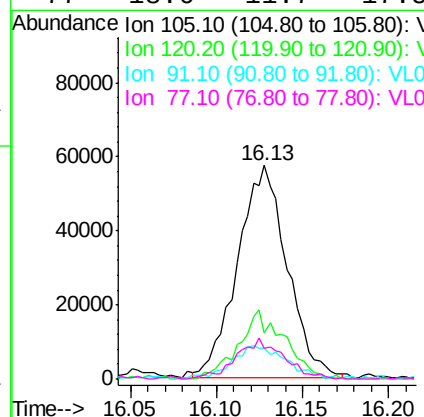
Manual Integrations
APPROVED

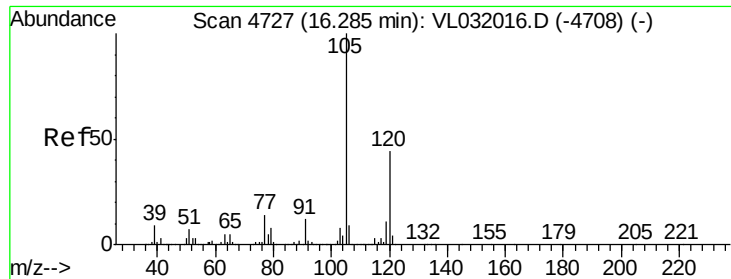
MMDadoda
6/4/2018 10:54:56 AM



#72
4-Ethyltoluene
Concen: 0.37 ppbv
RT: 16.13 min Scan# 4678
Delta R.T. 0.00 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Tgt Ion	Ratio	Lower	Upper
105	100		
120	30.5	23.4	35.0
91	18.3	10.7	16.1#
77	18.6	11.7	17.5#





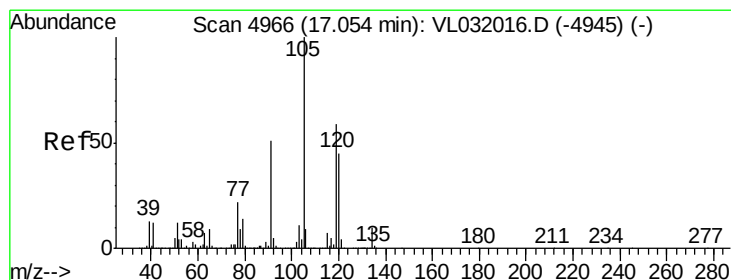
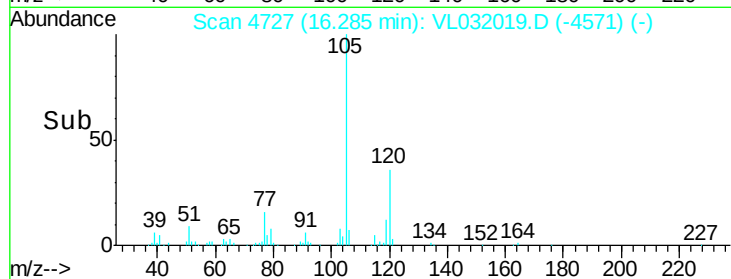
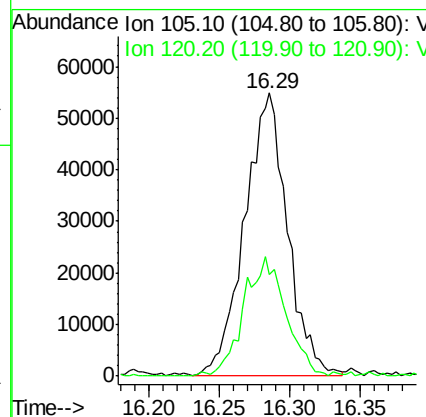
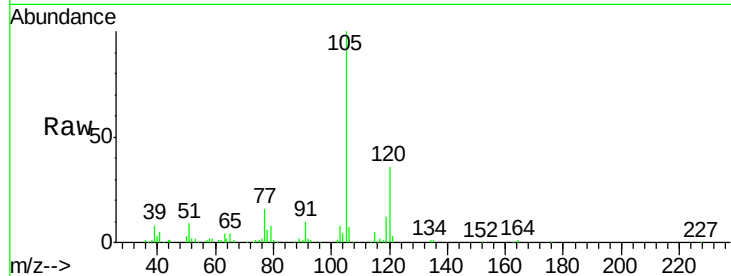
#73
 1,3,5-Trimethylbenzene
 Concen: 0.41 ppbv
 RT: 16.29 min Scan# 4727
 Delta R.T. 0.00 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
105	100		
120	35.9	35.0	52.4

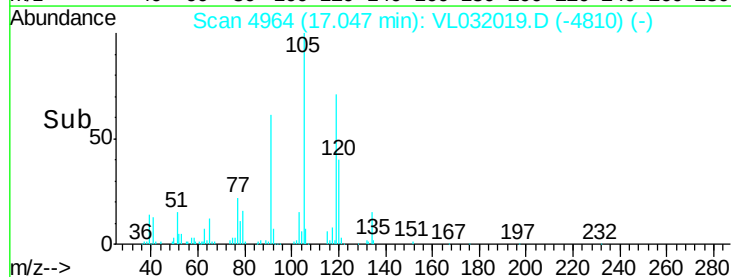
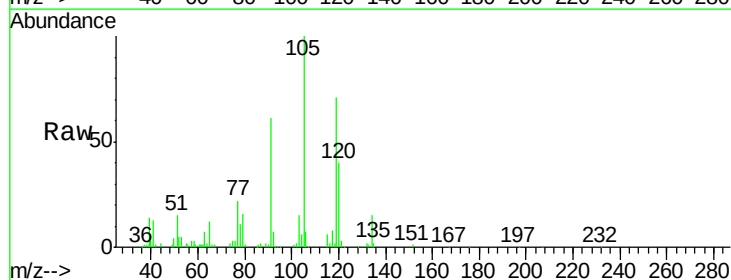
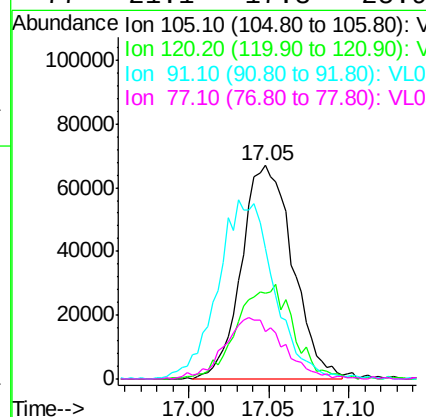
Manual Integrations
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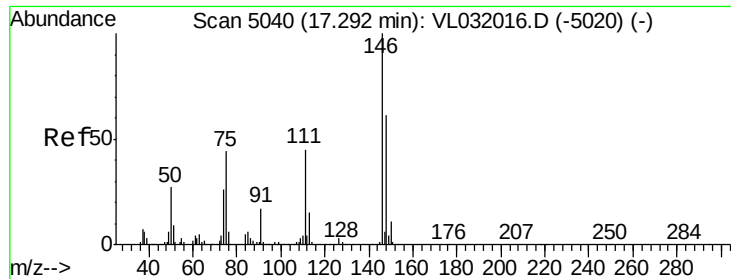
MMDadoda
 6/4/2018 10:54:56 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.47 ppbv
 RT: 17.05 min Scan# 4964
 Delta R.T. -0.01 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

Tgt Ion	Ratio	Lower	Upper
105	100		
120	38.8	36.0	54.0
91	60.2	41.4	62.0
77	21.1	17.3	25.9





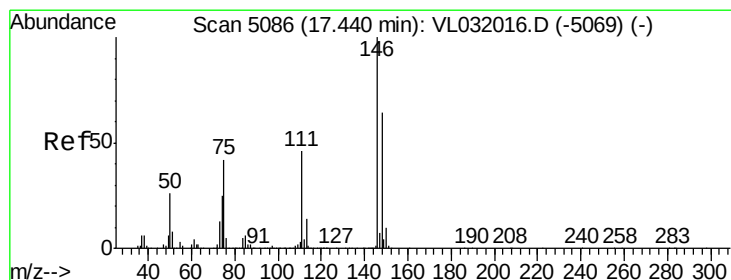
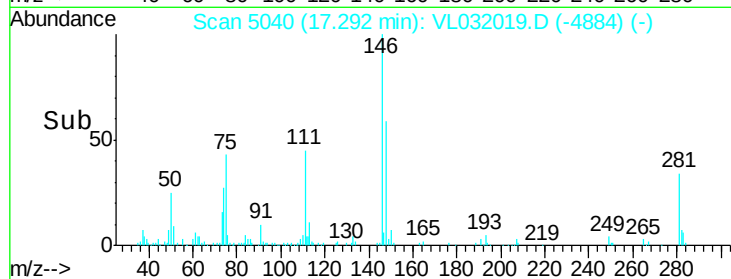
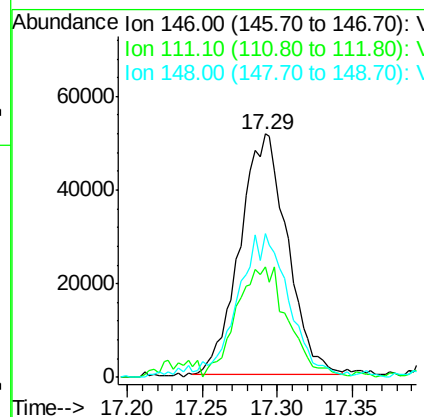
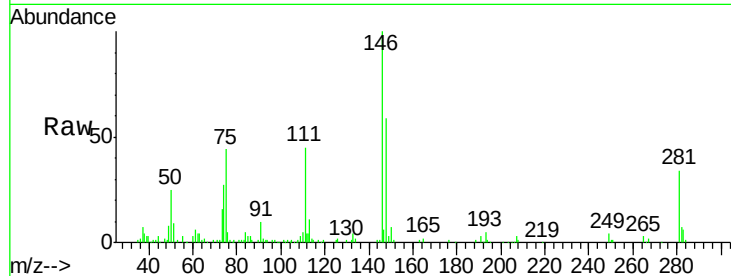
#75
1,3-Dichlorobenzene
Concen: 0.58 ppbv
RT: 17.29 min Scan# 5040
Delta R.T. 0.00 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	56.3	23.7	71.1
148	67.2	32.1	96.5

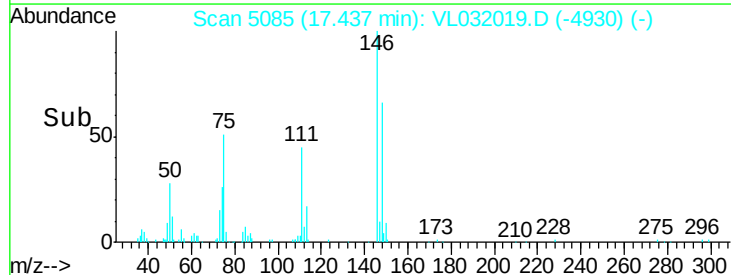
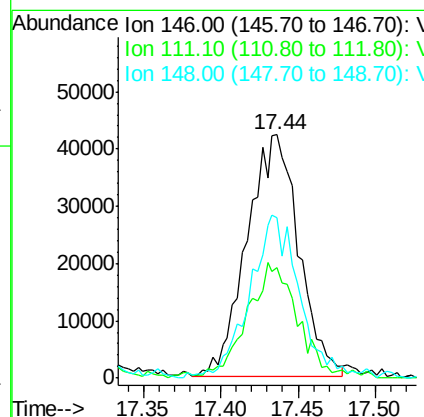
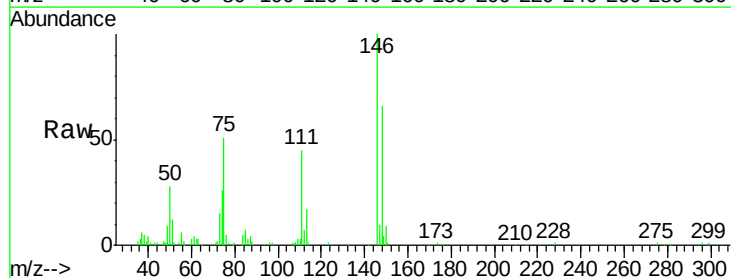
Manual Integrations
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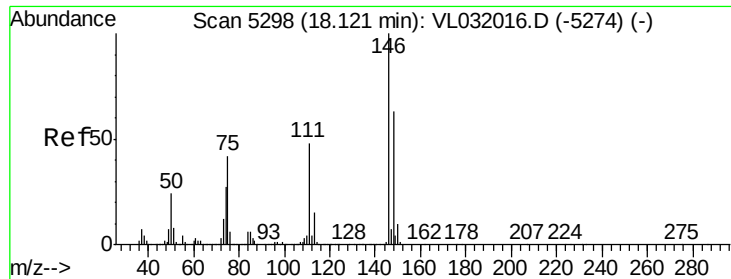
MMDadoda
6/4/2018 10:54:56 AM



#76
1,4-Dichlorobenzene
Concen: 0.51 ppbv
RT: 17.44 min Scan# 5085
Delta R.T. -0.00 min
Lab File: VL032019.D
Acq: 31 May 2018 18:01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.6	22.4	67.0
148	65.8	32.1	96.3





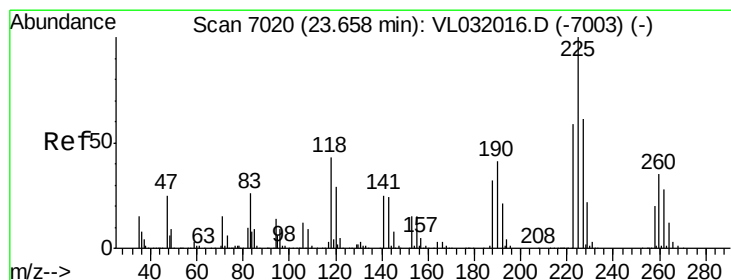
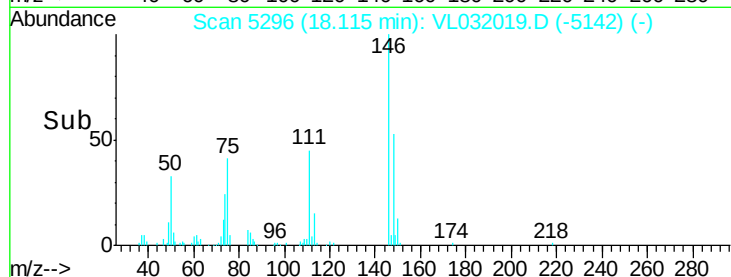
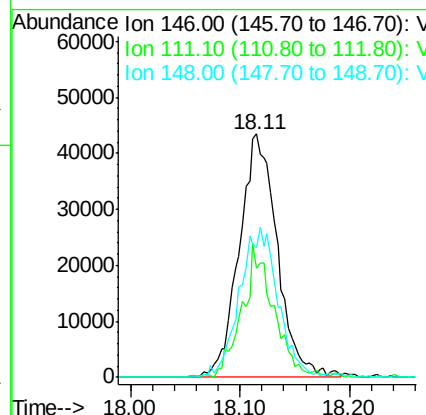
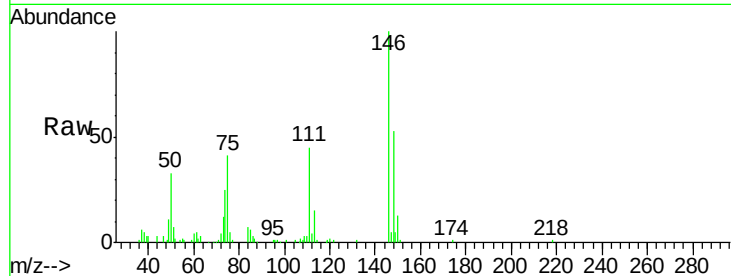
#77
 1,2-Dichlorobenzene
 Concen: 0.54 ppbv m
 RT: 18.11 min Scan# 5296
 Delta R.T. -0.01 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.9	24.2	72.6
148	62.5	32.0	96.2

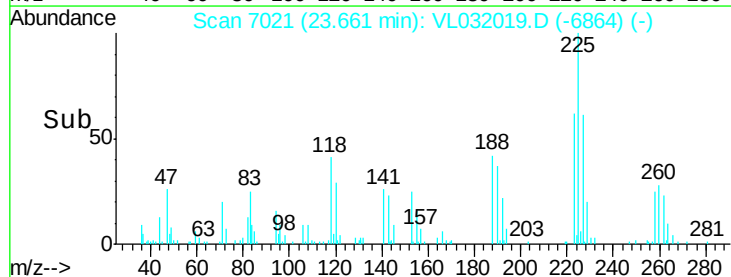
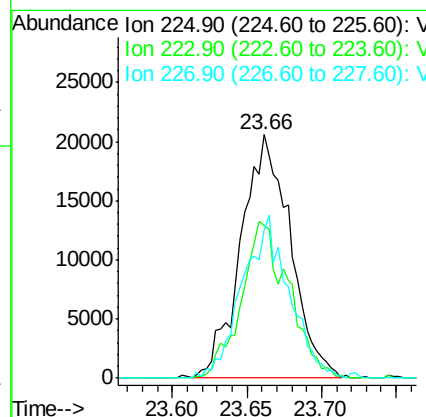
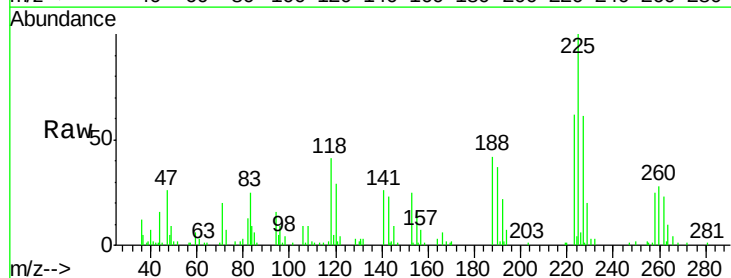
Manual Integrations
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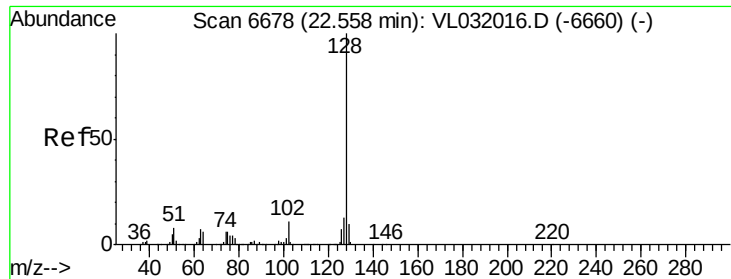
MMDadoda
 6/4/2018 10:54:56 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.59 ppbv m
 RT: 23.66 min Scan# 7021
 Delta R.T. 0.00 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.7	49.4	74.2
227	63.4	51.2	76.8





#79

Naphthalene

Concen: 0.23 ppbv m

RT: 22.56 min Scan# 6680

Delta R.T. 0.01 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Instrument :

MSVOA_L

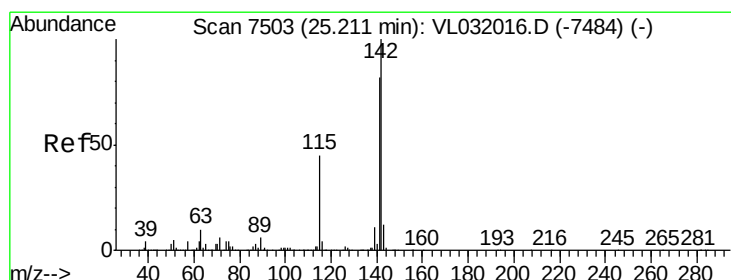
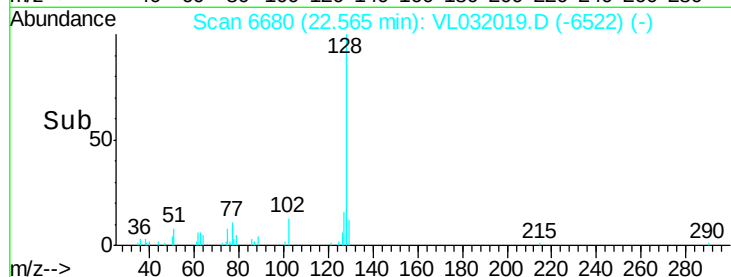
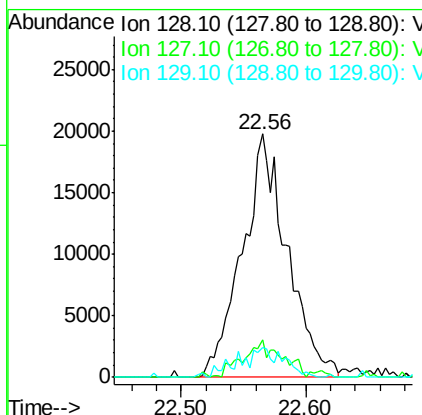
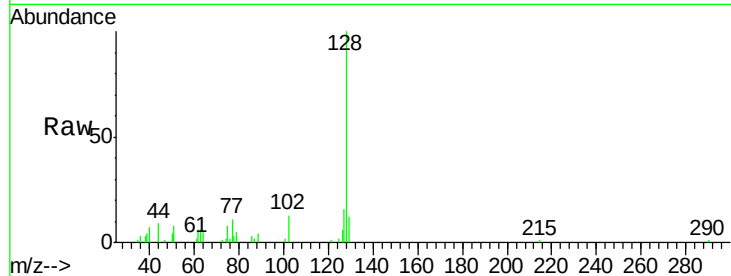
ClientSampleId :

VSTDIC0.5

Tot Ion:128	Resp:	49411
Ion Ratio	Lower	Upper
128	100	
127	15.6	10.2 15.2#
129	12.1	8.2 12.2

Manual Integrations
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#80

Naphthalene, 2-methyl-

Concen: 0.08 ppbv

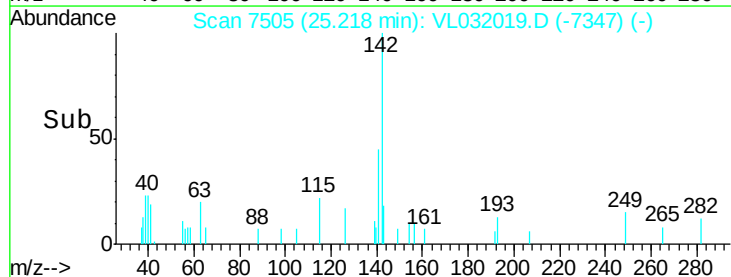
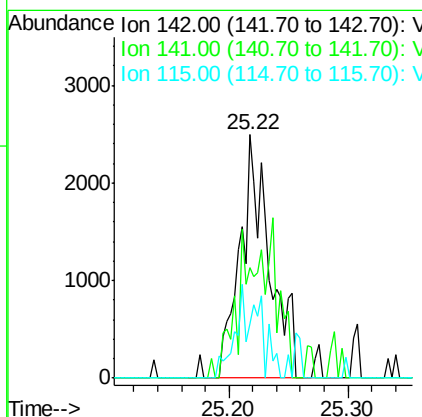
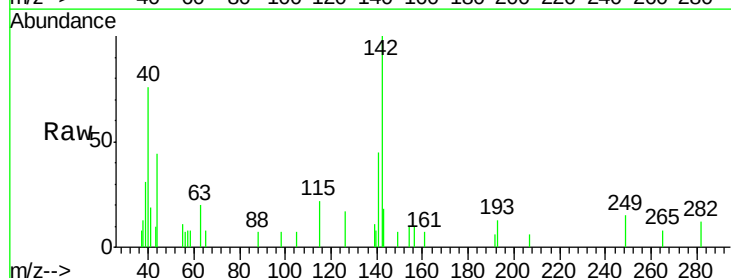
RT: 25.22 min Scan# 7505

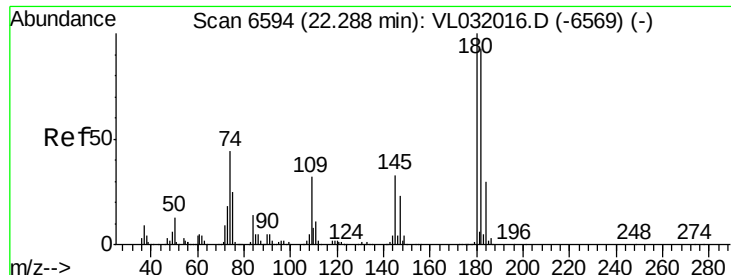
Delta R.T. 0.01 min

Lab File: VL032019.D

Acq: 31 May 2018 18:01

Tgt Ion:142	Resp:	4395
Ion Ratio	Lower	Upper
142	100	
141	70.4	67.4 101.2
115	31.3	35.3 52.9#





#81
 1,2,4-Trichlorobenzene
 Concen: 0.32 ppbv m
 RT: 22.28 min Scan# 6592
 Delta R.T. -0.01 min
 Lab File: VL032019.D
 Acq: 31 May 2018 18:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	180	Resp:	38824
Ion Ratio	Lower	Upper	
180	100		
182	93.2	77.8	116.6
184	32.7	24.9	37.3

Manual Integrations
 APPROVED

MMDadoda
 6/4/2018 10:54:56 AM

