

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031421.D
 Acq On : 22 Jan 2018 17:18
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:15 PM

Quant Time: Jan 22 17:49:42 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 18 2018
 QLast Update : Thu Jan 18 06:41:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1267050	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	2887208	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3208388	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2568552	10.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.17	85	2093990	8.56	ppbv	98
3) Chlorodifluoromethane	3.11	51	2292043	12.26	ppbv	99
4) Chloromethane	3.27	50	1044058	12.40	ppbv	100
5) Vinyl Chloride	3.40	62	1075528	12.35	ppbv	99
6) Bromomethane	3.62	94	762717	13.10	ppbv	99
7) Chloroethane	3.71	64	443382	13.01	ppbv	99
8) Dichlorotetrafluoroethane	3.32	85	2588522	11.55	ppbv	99
9) Propene	3.13	41	872247	12.65	ppbv	99
10) Heptane	8.41	43	2706683	13.07	ppbv	99
11) Trichlorofluoromethane	4.12	101	3280988	12.59	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.68	101	2080096	12.59	ppbv	99
13) Ethanol	3.76	45	221493	6.41	ppbv	96
14) Bromoethene	3.90	108	890058	13.07	ppbv	99
15) Acetone	4.02	43	2199976	10.46	ppbv	100
16) 1,3-Butadiene	3.47	39	1000035	12.72	ppbv	100
17) tert-Butyl alcohol	4.48	59	1163638	12.08	ppbv	99
18) 1,1-Dichloroethene	4.48	96	931431	12.84	ppbv	97
19) Isopropyl Alcohol	4.14	45	1466835	10.19	ppbv	100
20) Methylene Chloride	4.54	84	855970	11.29	ppbv	98
21) Allyl Chloride	4.60	41	1488250	13.08	ppbv	99
22) trans-1,2-Dichloroethene	5.10	96	988641	12.79	ppbv	96
23) Vinyl Acetate	5.29	43	3029233	12.71	ppbv	100
24) 1,1-Dichloroethane	5.23	63	2468552	12.26	ppbv	99
25) Ethyl Acetate	5.91	43	4226603	11.77	ppbv	100
26) Hexane	5.93	57	1889119	12.57	ppbv	99
27) Carbon Disulfide	4.75	76	2653745	13.23	ppbv	100
28) Methyl tert-Butyl Ether	5.25	73	2364989	12.93	ppbv	100
29) Chloroform	6.00	83	3138115	12.15	ppbv	100
30) Cyclohexane	7.40	84	1515201	12.61	ppbv	98
31) cis-1,2-Dichloroethene	5.78	61	1881447	12.87	ppbv	95
32) 1,1,1-Trichloroethane	6.77	97	3256775	12.04	ppbv	100
34) 2-Butanone	5.47	43	2785215	11.60	ppbv	100
35) Carbon Tetrachloride	7.30	117	3425398	12.43	ppbv	97
36) Benzene	7.16	78	3702325	12.38	ppbv	99
37) 1,2-Dichloroethane	6.57	62	2753464	12.50	ppbv	100
38) Trichloroethene	8.12	130	1625832	13.11	ppbv	99
39) 1,2-Dichloropropane	7.90	63	1434492	12.98	ppbv	95
40) 1,4-Dioxane	8.12	88	593852	10.70	ppbv	87
41) Tetrahydrofuran	6.29	42	1496156	12.28	ppbv	99
42) Bromodichloromethane	8.08	83	3526335	13.00	ppbv	100
43) Methyl Methacrylate	8.30	69	1537718	13.79	ppbv	99

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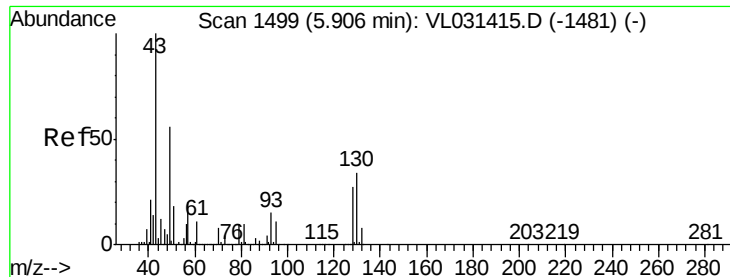
MMDadoda
 1/24/2018 5:10:15 PM

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 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	8.15	57	6366030	12.71	ppbv	100
45) t-1,3-Dichloropropene	9.58	75	2363566	15.40	ppbv	99
46) cis-1,3-Dichloropropene	9.00	75	2754265	14.52	ppbv	98
47) 1,1,2-Trichloroethane	9.79	97	1704629	13.11	ppbv	98
48) Dibromochloromethane	10.63	129	3171016	13.78	ppbv	99
49) Bromoform	13.38	173	2423100	13.39	ppbv	99
50) 4-Methyl-2-Pentanone	9.03	43	3842199	12.12	ppbv	100
51) 2-Hexanone	10.44	43	3841590	11.93	ppbv #	100
52) Tetrachloroethene	11.55	164	1522697	12.93	ppbv	98
53) Toluene	10.12	91	4837633	13.73	ppbv	100
54) 1,2-Dibromoethane	10.94	107	2763333	13.55	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.46	131	2103711	12.71	ppbv #	75
57) Chlorobenzene	12.48	112	3797858	12.53	ppbv	98
58) Ethyl Benzene	13.04	91	6791412	12.96	ppbv	98
59) m/p-Xylene	13.32	91	11208066m	25.86	ppbv	
60) o-Xylene	14.03	91	5639094	12.75	ppbv	99
61) Styrene	13.86	104	1449150	14.94	ppbv	99
62) Isopropylbenzene	15.00	105	6982331	12.56	ppbv	99
63) 1,1,2,2-Tetrachloroethane	14.01	83	3669046	11.00	ppbv	99
64) n-propylbenzene	15.90	120	1786434	12.79	ppbv	95
65) tert-Butylbenzene	17.09	119	6153975	12.45	ppbv	98
66) Benzyl Chloride	17.33	91	712009	15.34	ppbv	100
67) sec-Butylbenzene	17.63	105	8458817	12.05	ppbv	99
69) p-Isopropyltoluene	17.99	119	6972993	12.48	ppbv	100
70) n-Butylbenzene	18.89	91	7081296	12.15	ppbv	99
71) 2-Chlorotoluene	15.79	91	5343134	12.51	ppbv	99
72) 4-Ethyltoluene	16.17	105	5823839	12.89	ppbv	100
73) 1,3,5-Trimethylbenzene	16.33	105	5190032	12.92	ppbv	99
74) 1,2,4-Trimethylbenzene	17.10	105	5516912	12.62	ppbv	94
75) 1,3-Dichlorobenzene	17.34	146	3389436	12.03	ppbv	100
76) 1,4-Dichlorobenzene	17.48	146	3428084	12.27	ppbv	100
77) 1,2-Dichlorobenzene	18.17	146	3286149	11.80	ppbv	99
78) Hexachloro-1,3-Butadiene	23.70	225	936911	10.48	ppbv	99
79) Naphthalene	22.61	128	3982016	18.70	ppbv	99
80) Naphthalene, 2-methyl-	25.25	142	1456410	27.60	ppbv	99
81) 1,2,4-Trichlorobenzene	22.34	180	1962519	15.81	ppbv	100

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



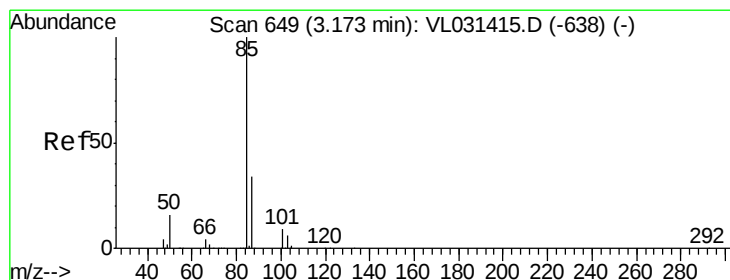
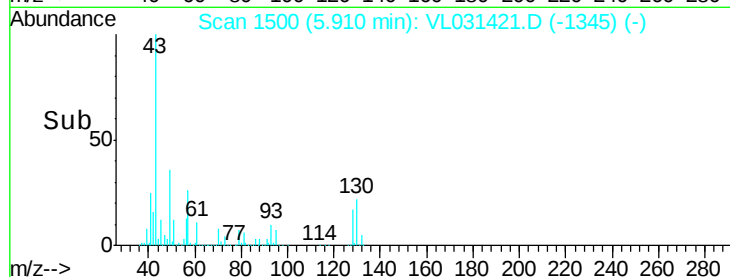
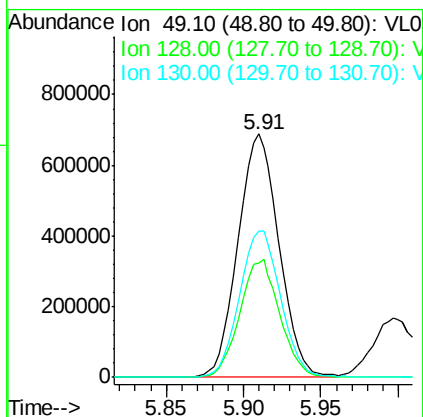
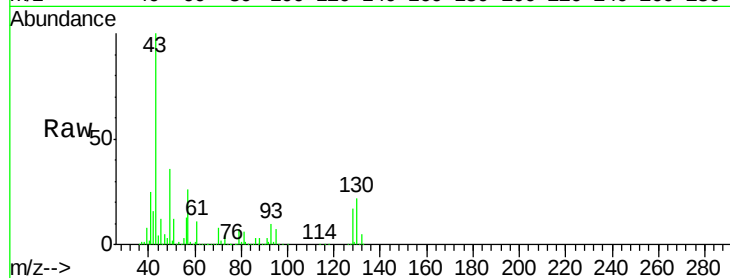
#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 5.91 min Scan# 1500
Delta R.T. -0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

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ClientSampleId :
VSTDIC015

Tot Ion: 49 Resp: 1267050
Ion Ratio Lower Upper
49 100
128 47.5 23.5 70.6
130 60.5 29.9 89.7

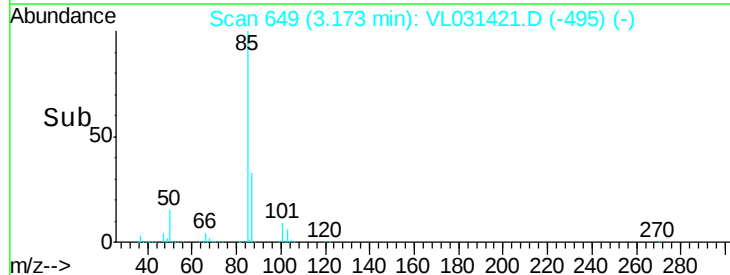
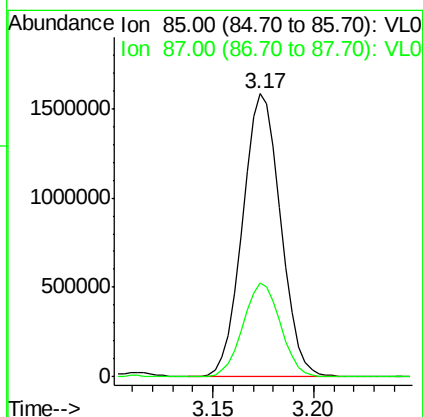
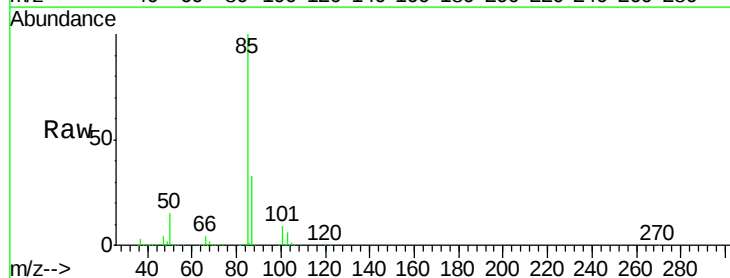
Manual Integrations
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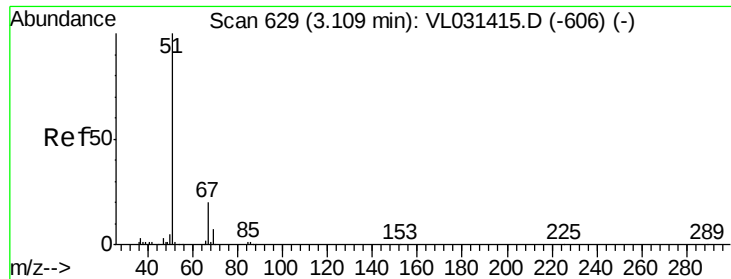
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#2
Dichlorodifluoromethane
Concen: 8.56 ppbv
RT: 3.17 min Scan# 649
Delta R.T. -0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Tgt Ion: 85 Resp: 2093990
Ion Ratio Lower Upper
85 100
87 33.1 27.4 41.0





#3

Chlorodifluoromethane

Concen: 12.26 ppbv

RT: 3.11 min Scan# 629

Delta R.T. -0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 2292043

Ion Ratio Lower Upper

51 100

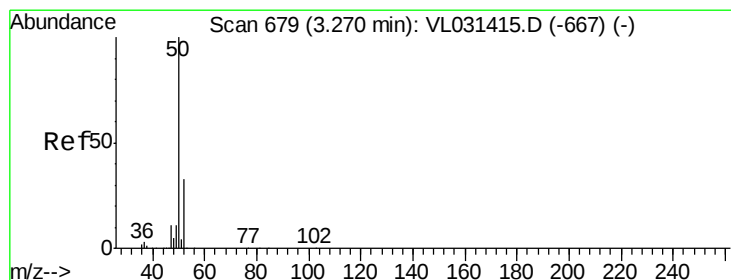
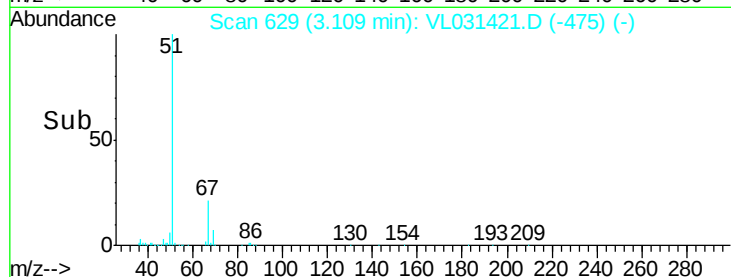
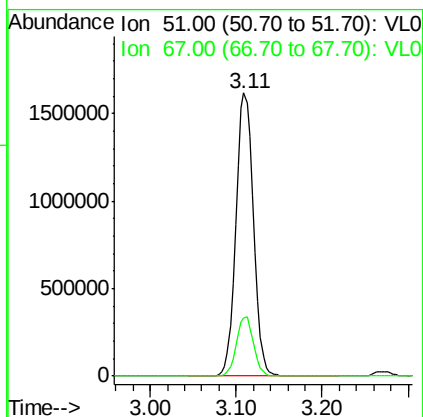
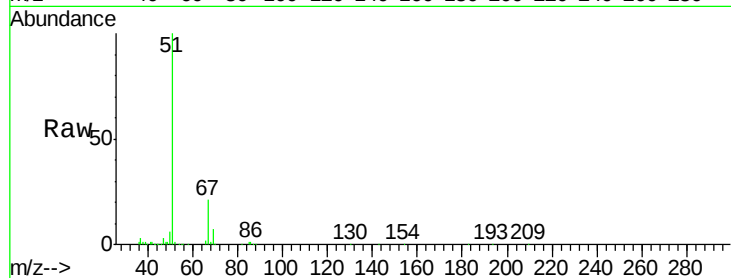
67 20.6 16.0 24.0

Manual Integrations

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#4

Chloromethane

Concen: 12.40 ppbv

RT: 3.27 min Scan# 679

Delta R.T. -0.00 min

Lab File: VL031421.D

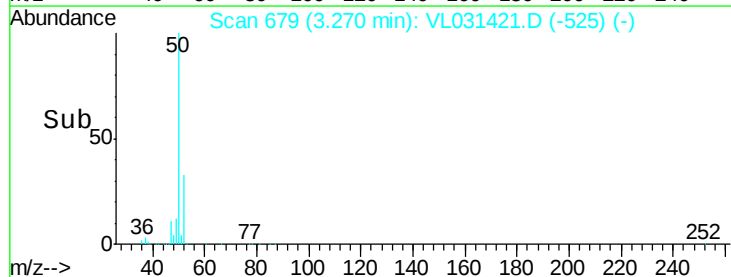
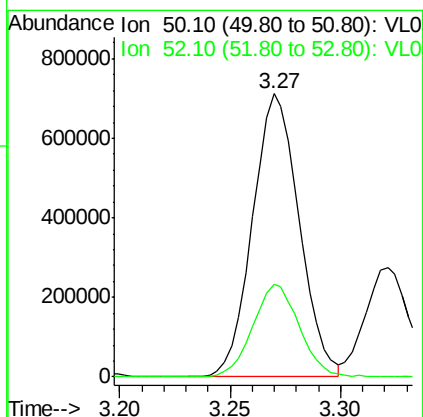
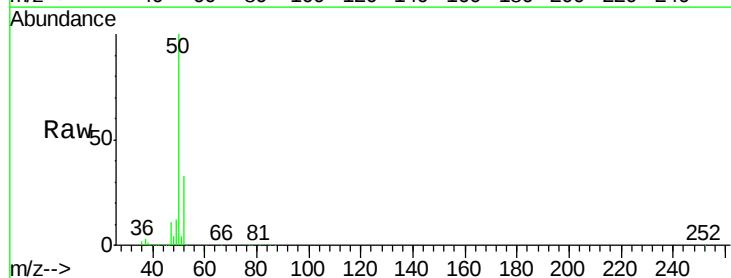
Acq: 22 Jan 2018 17:18

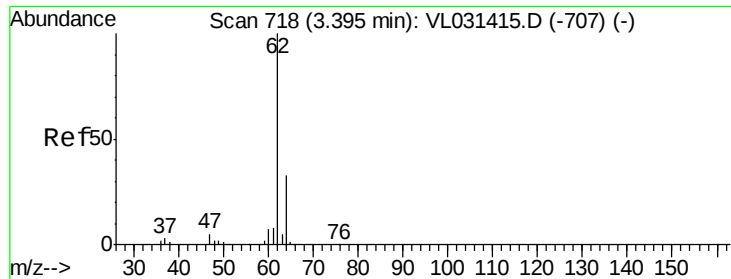
Tgt Ion: 50 Resp: 1044058

Ion Ratio Lower Upper

50 100

52 32.9 26.4 39.6





#5

Vinyl Chloride

Concen: 12.35 ppbv

RT: 3.40 min Scan# 718

Delta R.T. -0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1075528

Ion Ratio Lower Upper

62 100

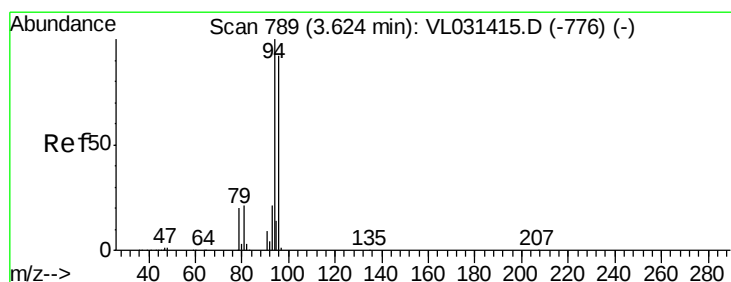
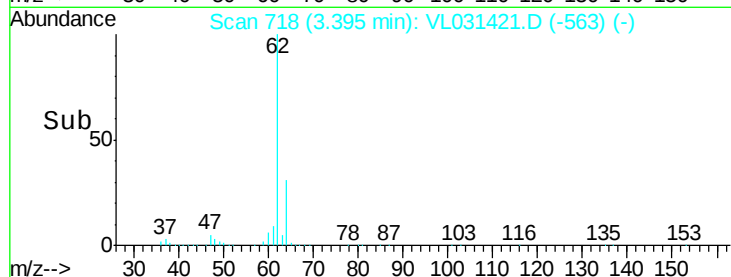
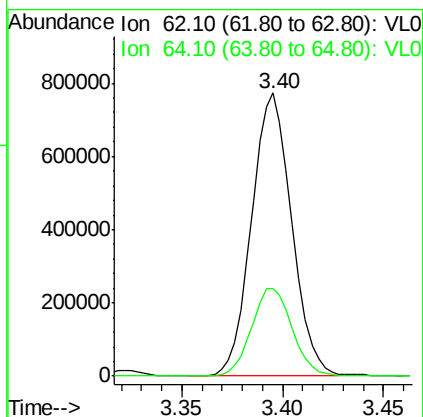
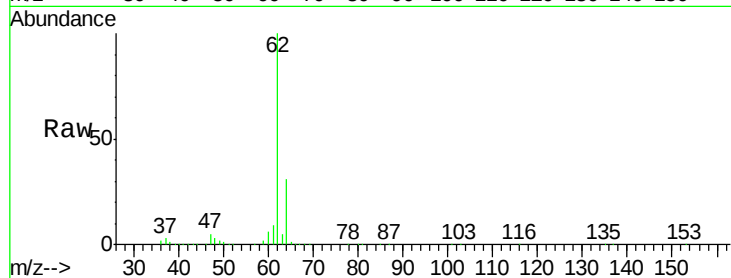
64 31.0 25.4 38.0

Manual Integrations

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#6

Bromomethane

Concen: 13.10 ppbv

RT: 3.62 min Scan# 789

Delta R.T. -0.00 min

Lab File: VL031421.D

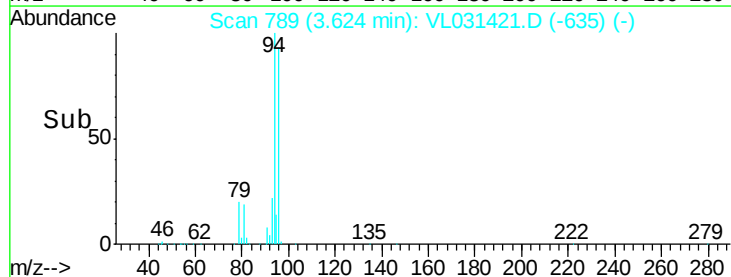
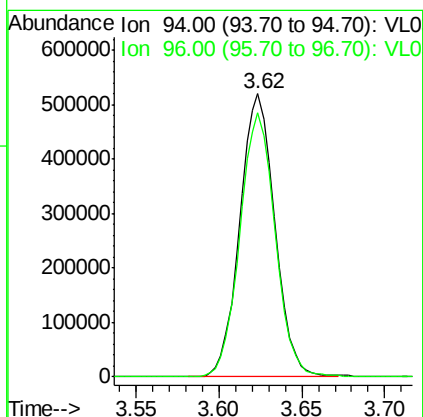
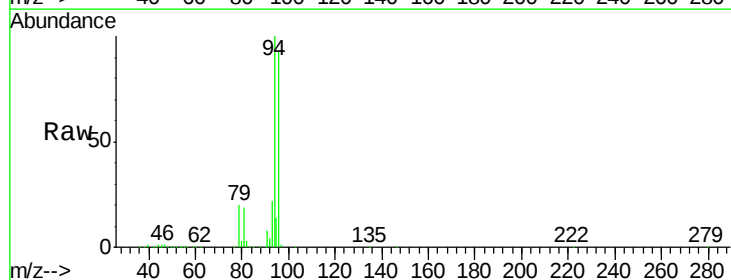
Acq: 22 Jan 2018 17:18

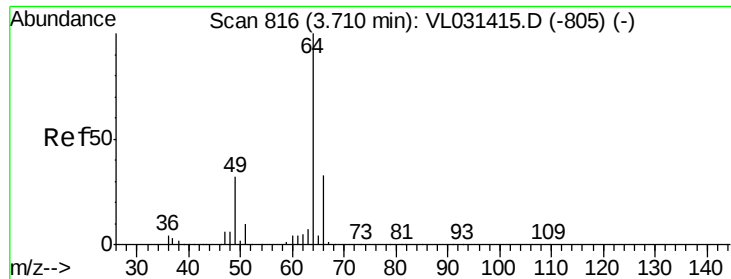
Tgt Ion: 94 Resp: 762717

Ion Ratio Lower Upper

94 100

96 93.4 75.1 112.7





#7

Chloroethane

Concen: 13.01 ppbv

RT: 3.71 min Scan# 817

Delta R.T. -0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 443382

Ion Ratio Lower Upper

64 100

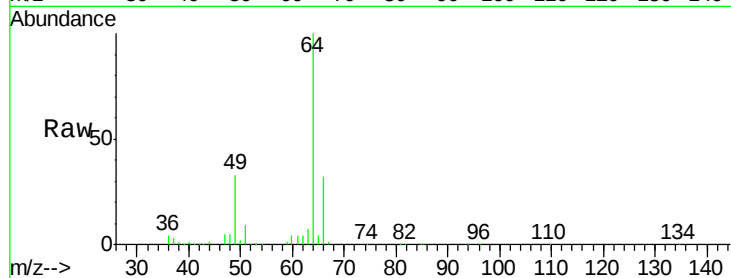
66 32.3 26.3 39.5

Manual Integrations

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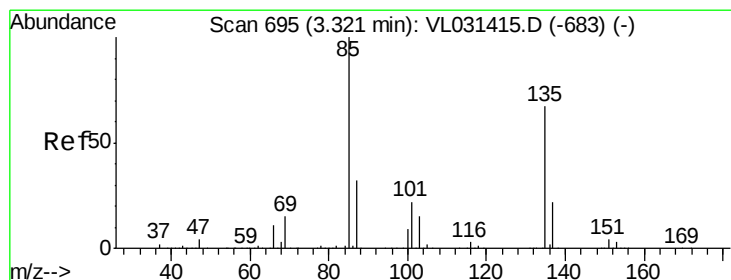
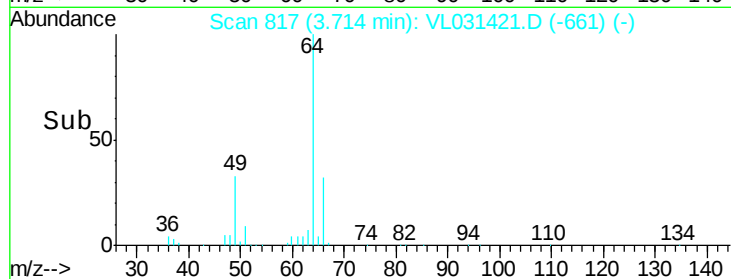
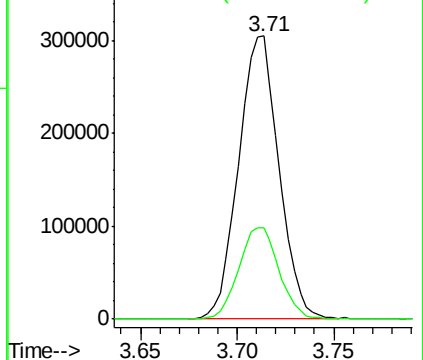
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 11.55 ppbv

RT: 3.32 min Scan# 695

Delta R.T. -0.00 min

Lab File: VL031421.D

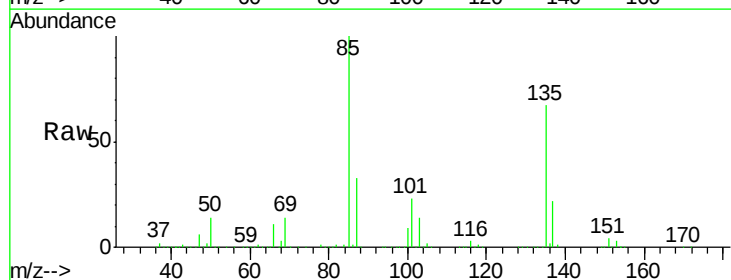
Acq: 22 Jan 2018 17:18

Tgt Ion: 85 Resp: 2588522

Ion Ratio Lower Upper

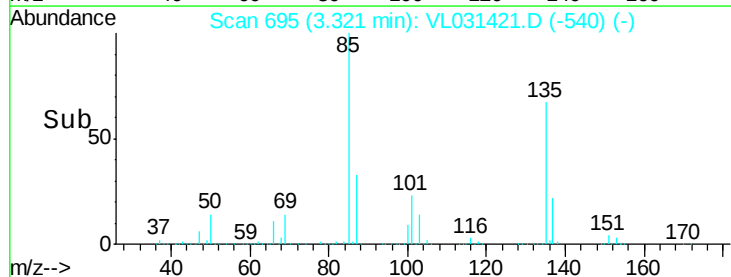
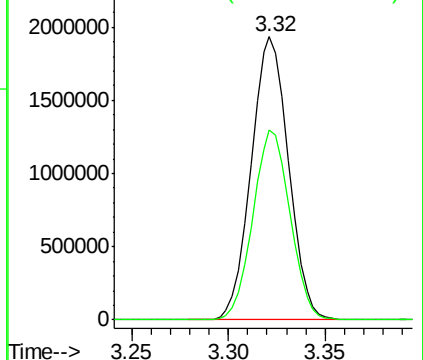
85 100

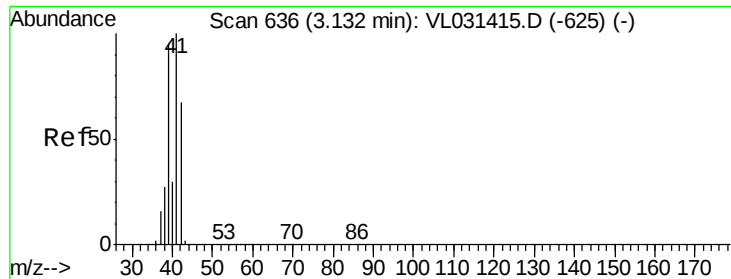
135 67.1 53.3 79.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 12.65 ppbv

RT: 3.13 min Scan# 636

Delta R.T. -0.01 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

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ClientSampleId :

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Tot Ion: 41 Resp: 872247

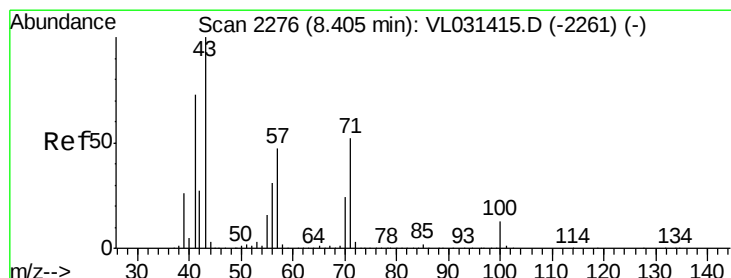
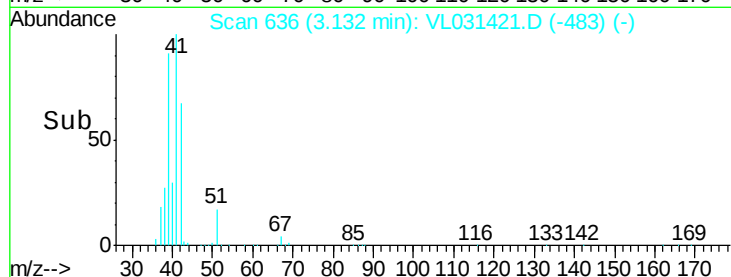
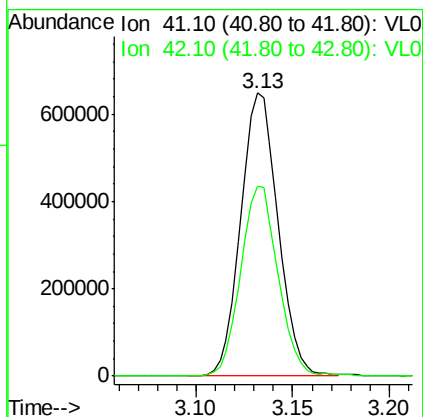
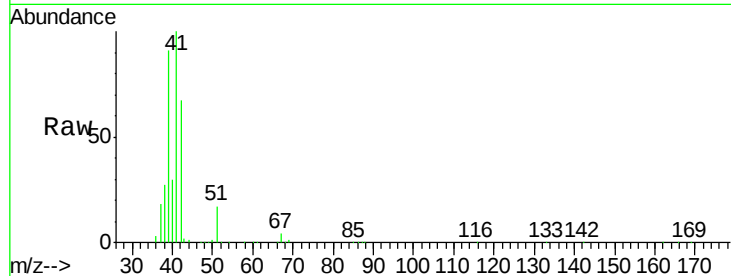
Ion Ratio Lower Upper

41 100

42 67.6 54.6 82.0

Manual Integrations
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#10

Heptane

Concen: 13.07 ppbv

RT: 8.41 min Scan# 2277

Delta R.T. -0.00 min

Lab File: VL031421.D

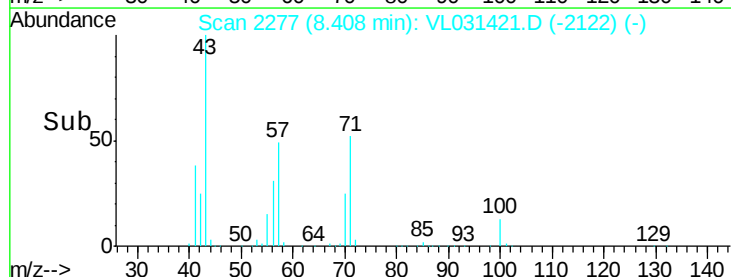
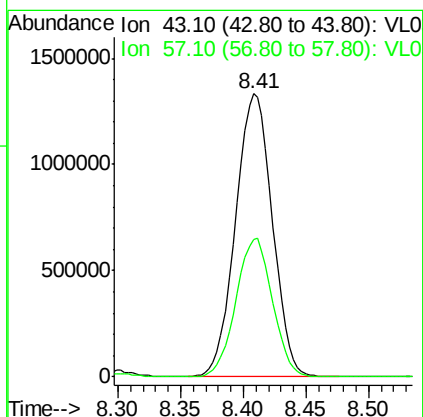
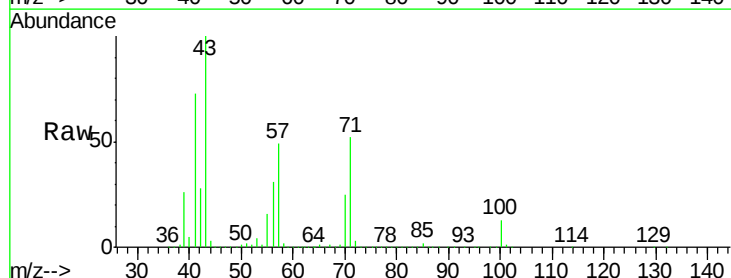
Acq: 22 Jan 2018 17:18

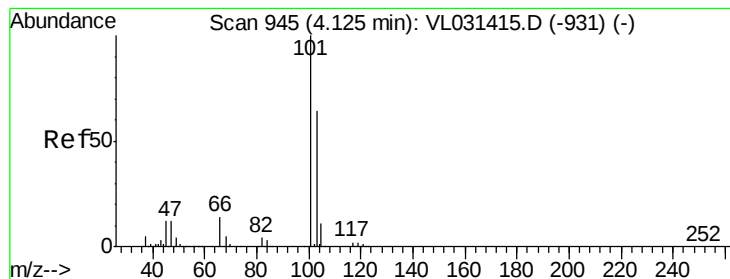
Tgt Ion: 43 Resp: 2706683

Ion Ratio Lower Upper

43 100

57 48.9 39.7 59.5





#11

Trichlorofluoromethane

Concen: 12.59 ppbv

RT: 4.12 min Scan# 944

Delta R.T. -0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:101 Resp: 3280988

Ion Ratio Lower Upper

101 100

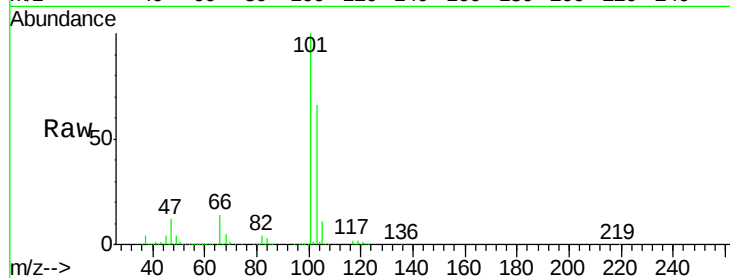
103 65.9 53.1 79.7

Manual Integrations

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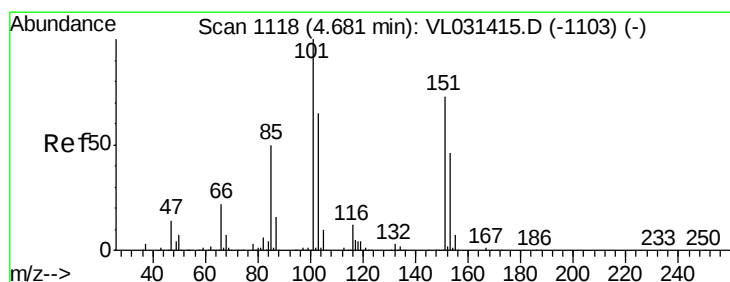
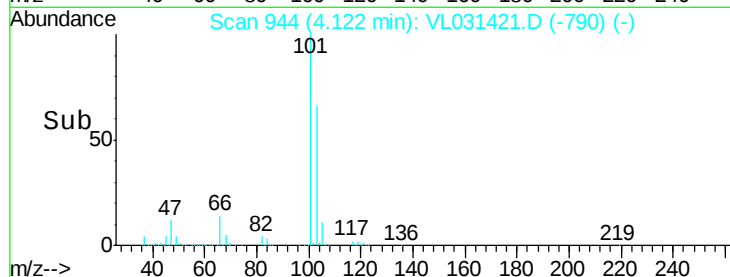
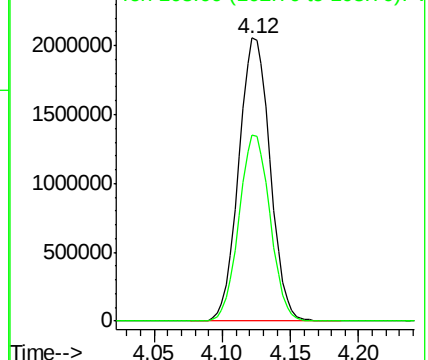
MMMadoda

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 12.59 ppbv

RT: 4.68 min Scan# 1118

Delta R.T. -0.00 min

Lab File: VL031421.D

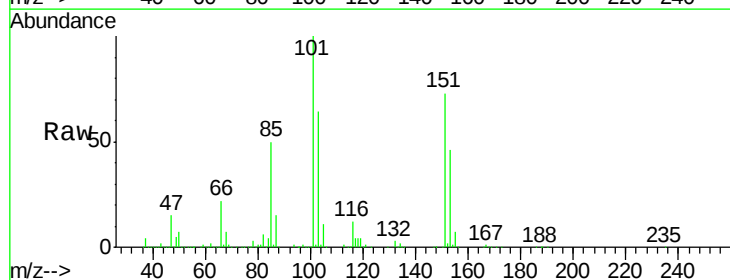
Acq: 22 Jan 2018 17:18

Tgt Ion:101 Resp: 2080096

Ion Ratio Lower Upper

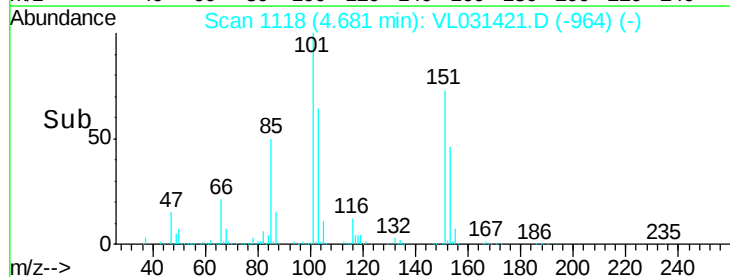
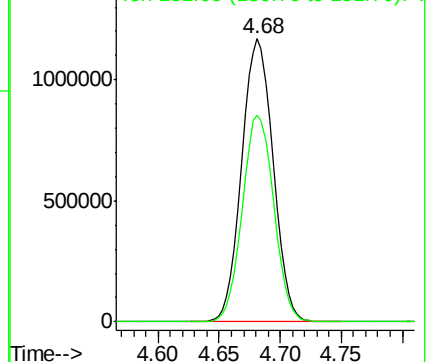
101 100

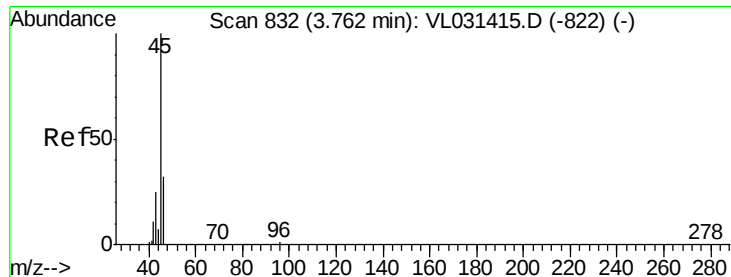
151 73.3 58.1 87.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





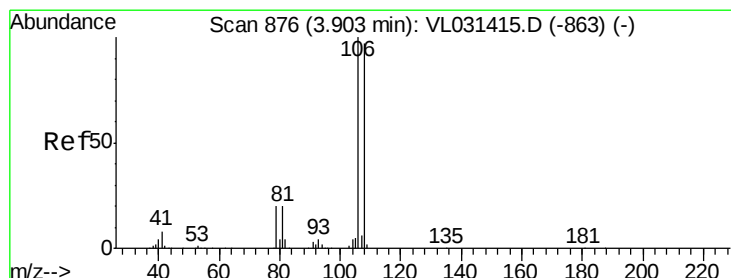
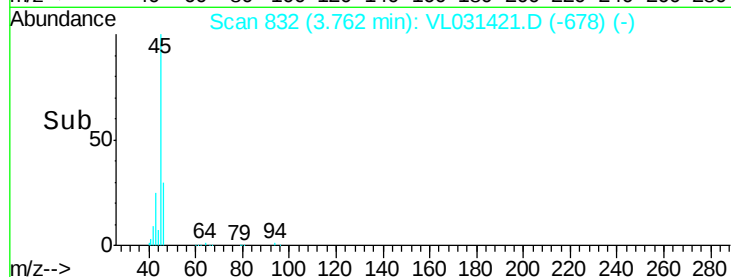
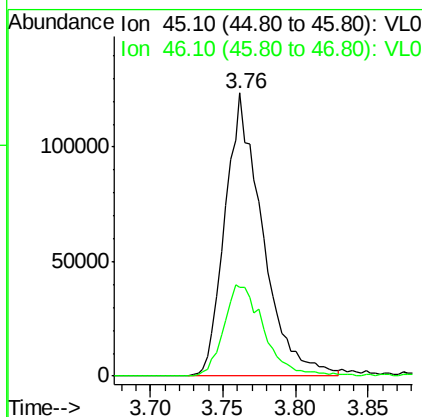
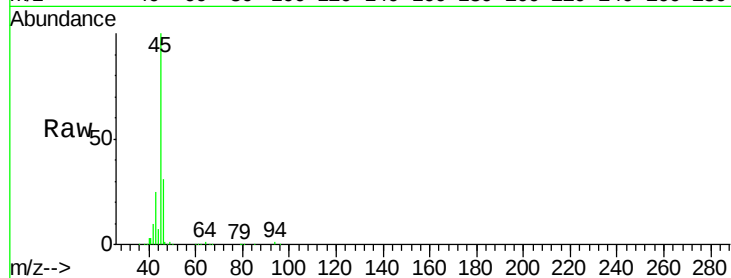
#13
Ethanol
Concen: 6.41 ppbv
RT: 3.76 min Scan# 832
Delta R.T. -0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	45	Resp	221493
Ion Ratio	100	Lower	Upper
46	34.7	14.9	59.5

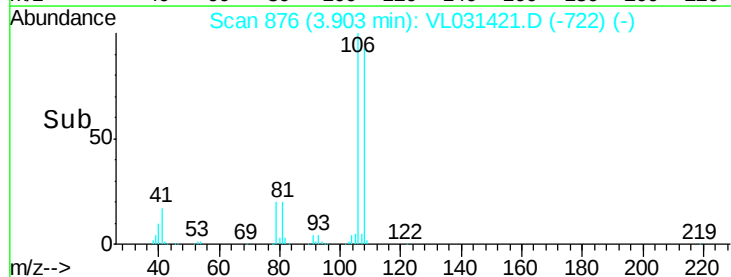
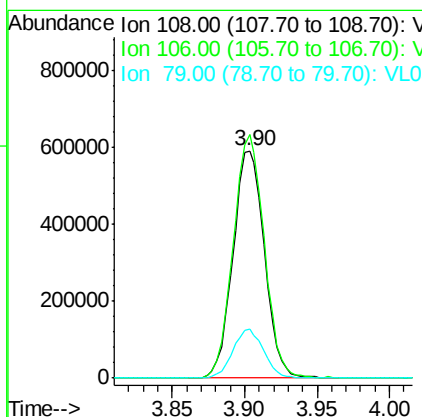
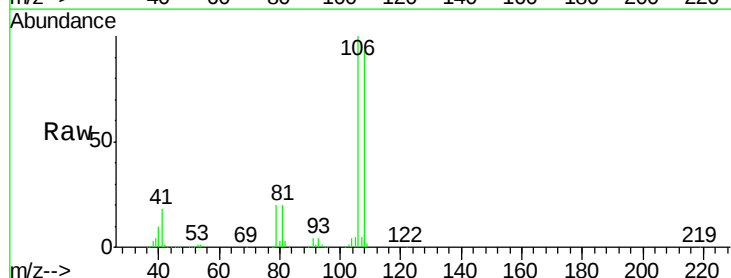
Manual Integrations
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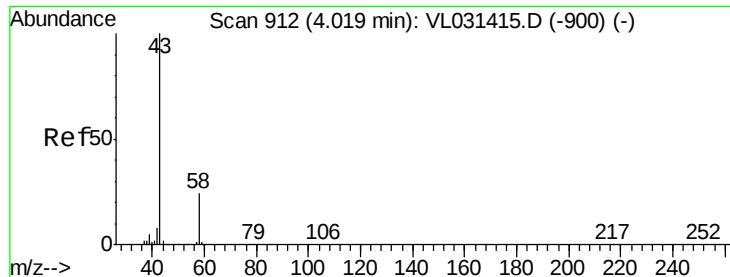
MMDadoda
1/24/2018 5:10:15 PM



#14
Bromoethene
Concen: 13.07 ppbv
RT: 3.90 min Scan# 876
Delta R.T. -0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Tgt Ion	108	Resp	890058
Ion Ratio	100	Lower	Upper
106	105.7	85.3	127.9
79	21.4	16.8	25.2





#15

Acetone

Concen: 10.46 ppbv

RT: 4.02 min Scan# 912

Delta R.T. -0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2199976

Ion Ratio Lower Upper

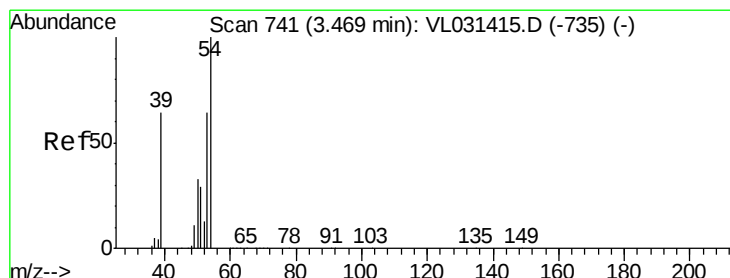
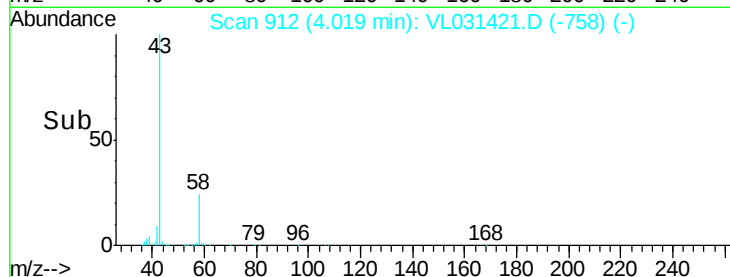
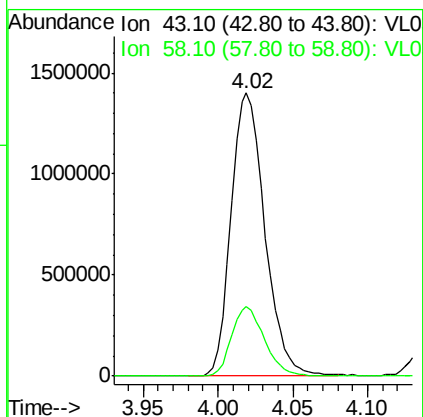
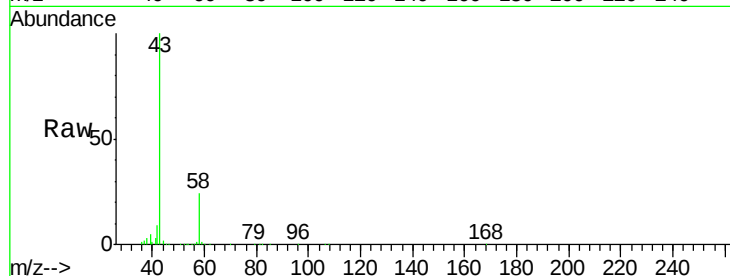
43 100

58 24.1 19.4 29.2

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#16

1,3-Butadiene

Concen: 12.72 ppbv

RT: 3.47 min Scan# 741

Delta R.T. -0.00 min

Lab File: VL031421.D

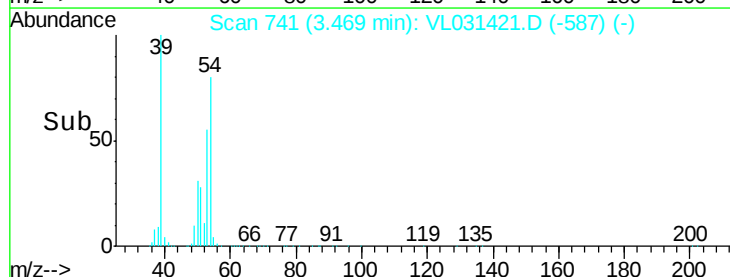
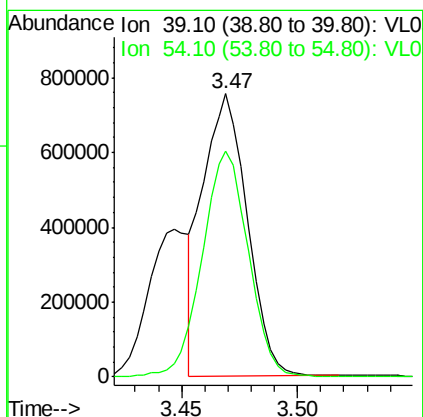
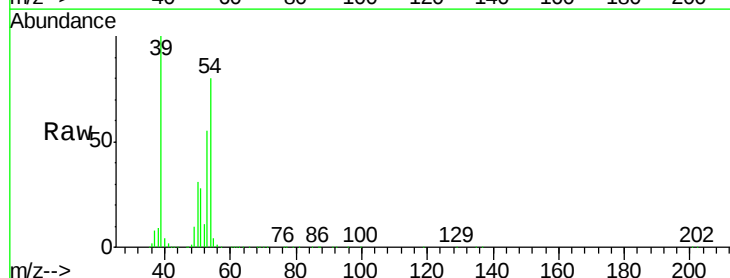
Acq: 22 Jan 2018 17:18

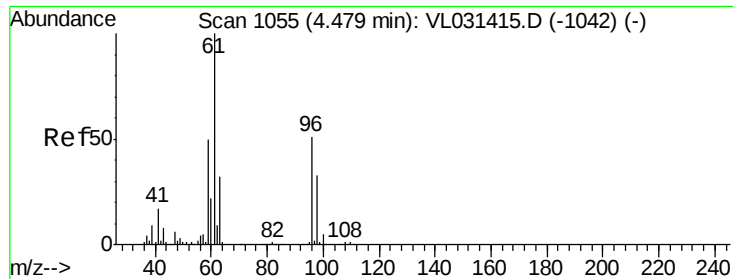
Tgt Ion: 39 Resp: 1000035

Ion Ratio Lower Upper

39 100

54 83.9 67.0 100.6





#17

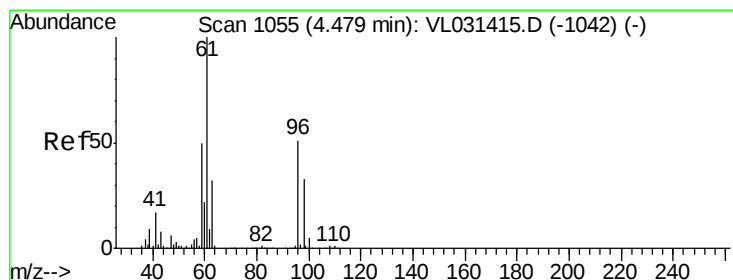
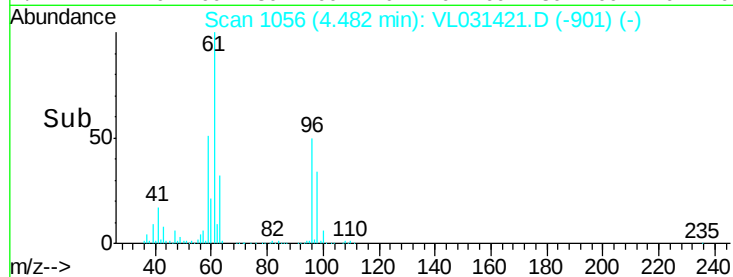
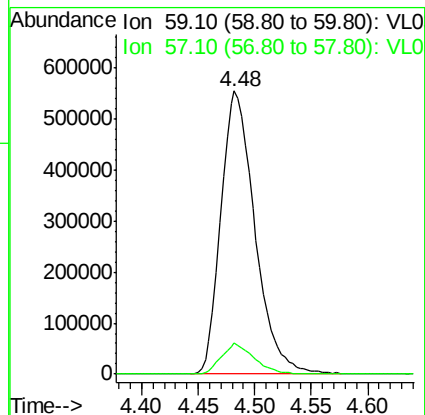
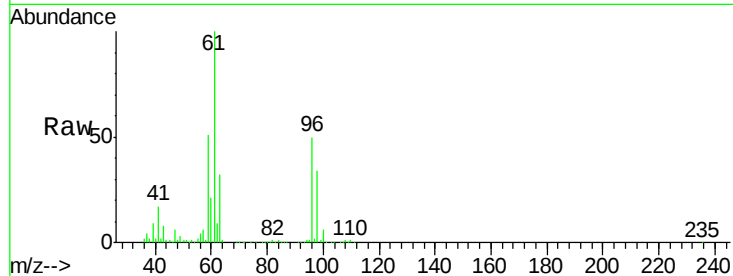
tert-Butyl alcohol
 Concen: 12.08 ppbv
 RT: 4.48 min Scan# 1056
 Delta R.T. -0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC015

Tot Ion: 59 Resp: 1163638
 Ion Ratio Lower Upper
 59 100
 57 10.5 8.6 13.0

Manual Integrations
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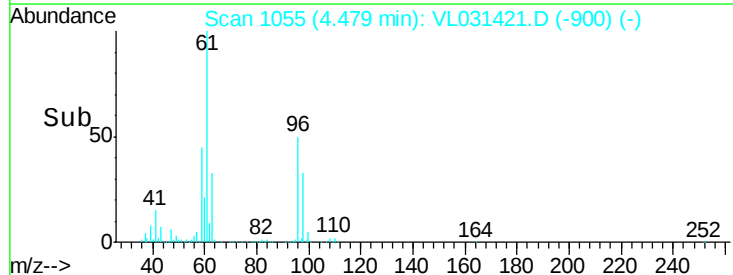
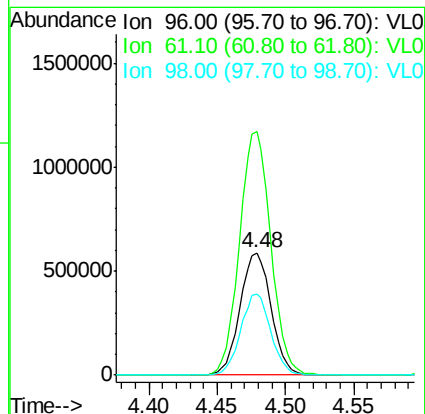
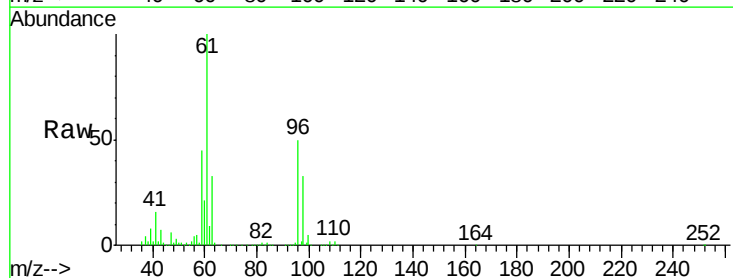
MMDadoda
 1/24/2018 5:10:15 PM

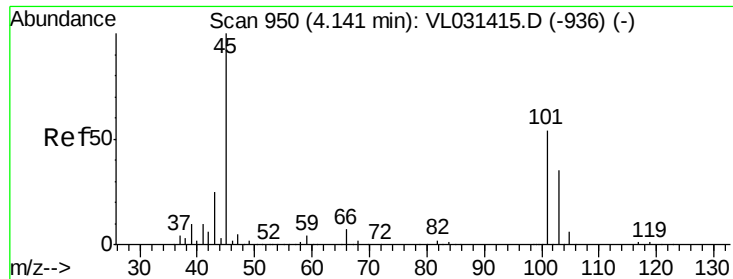


#18

1,1-Dichloroethene
 Concen: 12.84 ppbv
 RT: 4.48 min Scan# 1055
 Delta R.T. -0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Tgt Ion: 96 Resp: 931431
 Ion Ratio Lower Upper
 96 100
 61 199.0 161.6 242.4
 98 66.4 49.6 74.4





#19

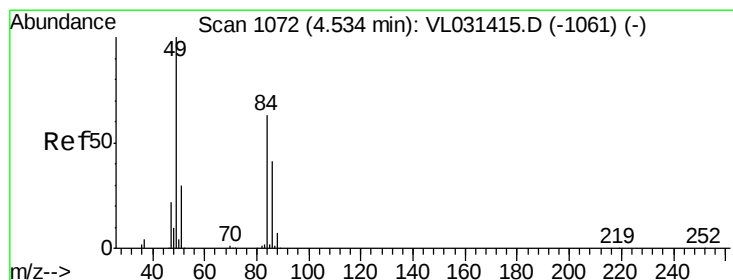
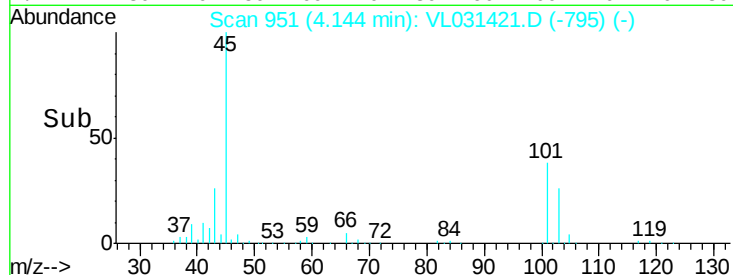
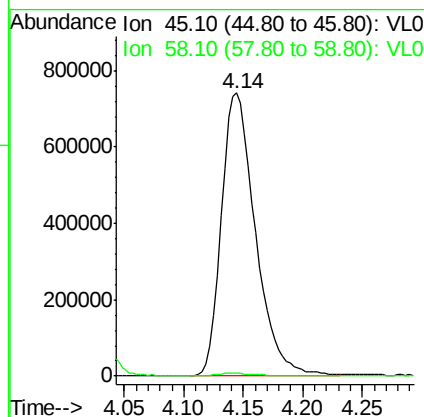
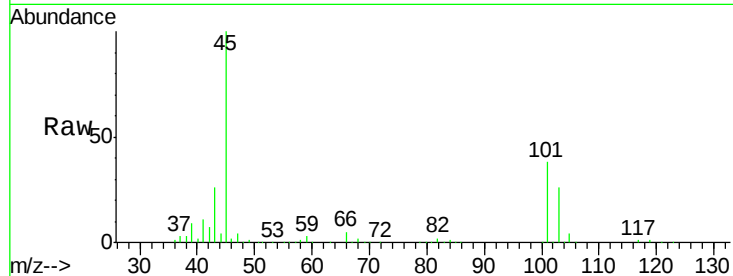
Isopropyl Alcohol
 Concen: 10.19 ppbv
 RT: 4.14 min Scan# 951
 Delta R.T. -0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 45 Resp: 1466835
 Ion Ratio Lower Upper
 45 100
 58 1.4 1.0 1.4

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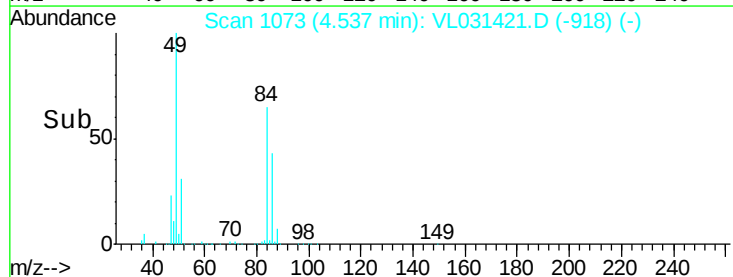
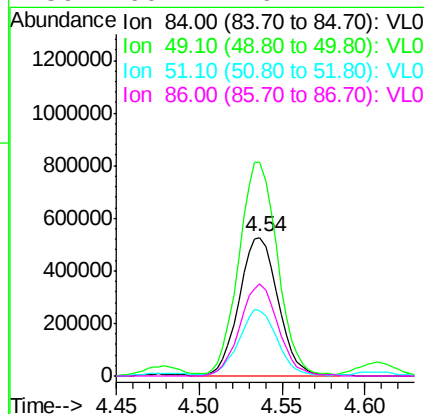
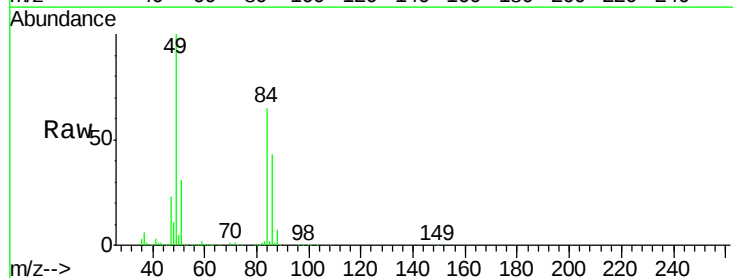
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 1/24/2018 5:10:15 PM

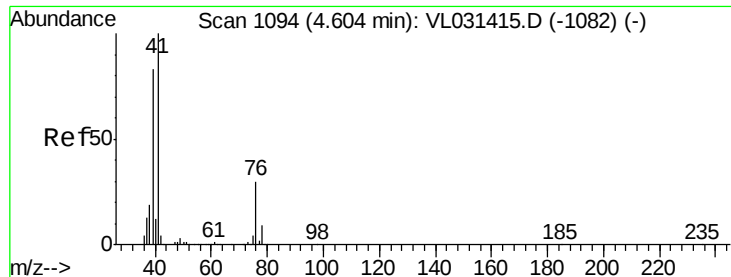


#20

Methylene Chloride
 Concen: 11.29 ppbv
 RT: 4.54 min Scan# 1073
 Delta R.T. -0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Tgt Ion: 84 Resp: 855970
 Ion Ratio Lower Upper
 84 100
 49 153.0 123.4 185.0
 51 46.4 35.6 53.4
 86 66.2 49.4 74.2





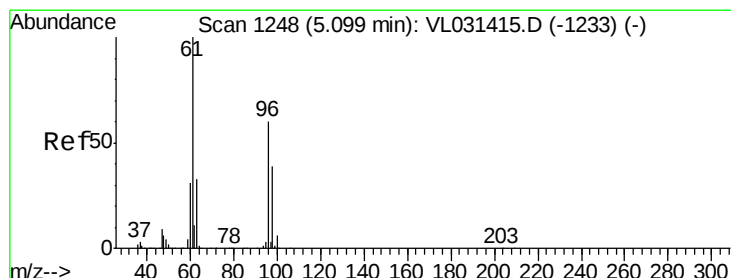
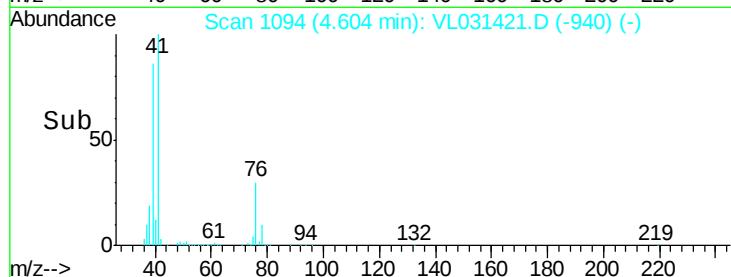
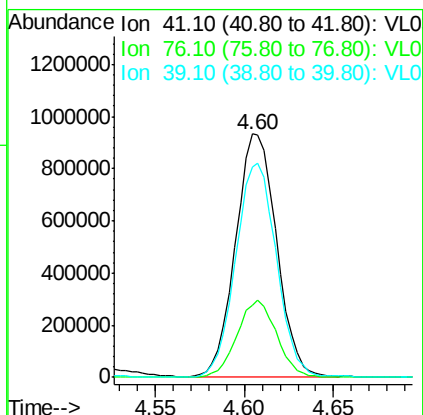
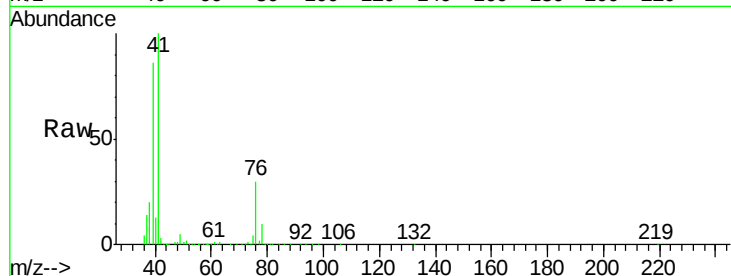
#21
Allvl Chloride
Concen: 13.08 ppbv
RT: 4.60 min Scan# 1094
Delta R.T. -0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.8	24.2	36.2
39	88.0	69.8	104.8

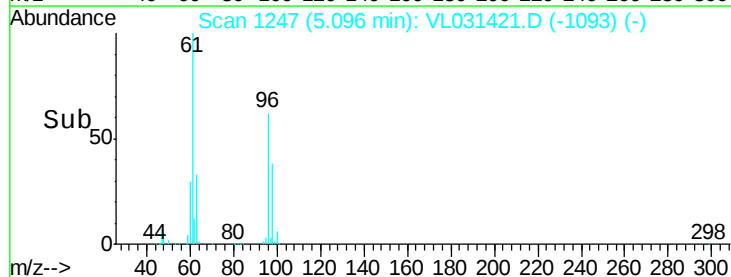
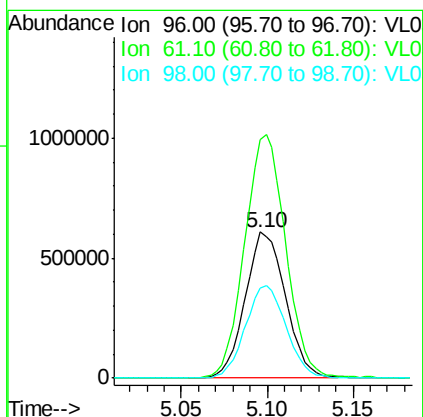
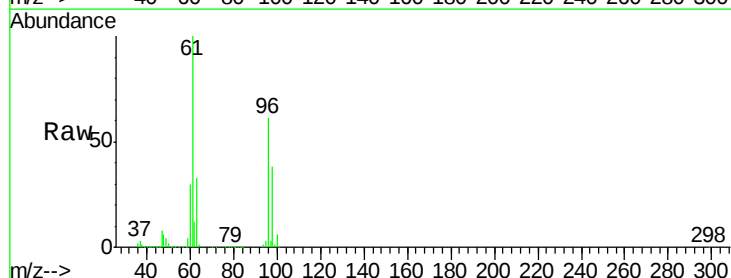
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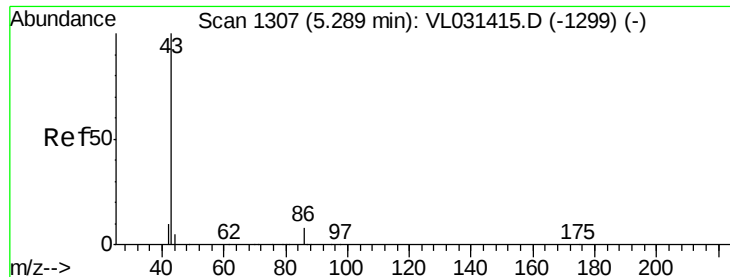
MMDadoda
1/24/2018 5:10:15 PM



#22
trans-1,2-Dichloroethene
Concen: 12.79 ppbv
RT: 5.10 min Scan# 1247
Delta R.T. -0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Tgt Ion	Ratio	Lower	Upper
96	100		
61	162.9	135.0	202.4
98	61.9	52.2	78.2





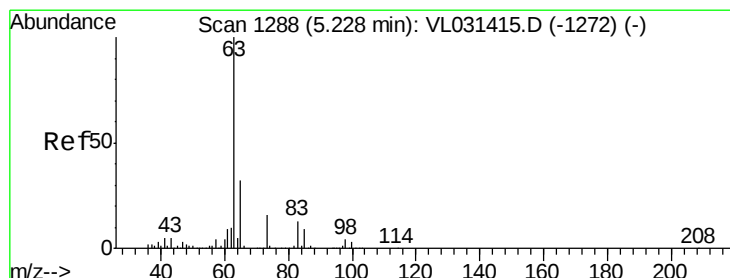
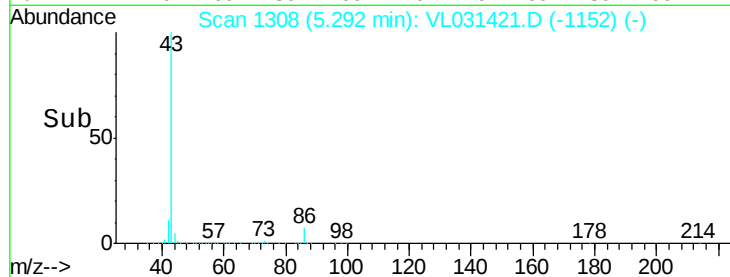
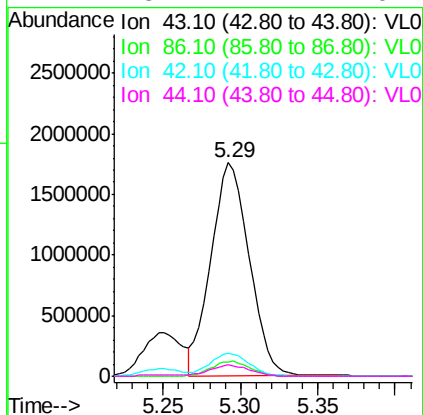
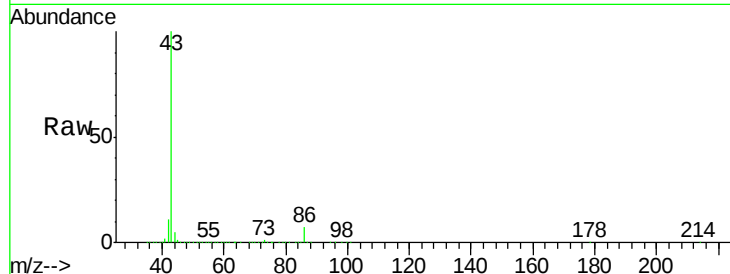
#23
 Vinyl Acetate
 Concen: 12.71 ppbv
 RT: 5.29 min Scan# 1308
 Delta R.T. -0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	43	Resp	3029233
Ion	Ratio	Lower	Upper
43	100		
86	6.9	5.6	8.4
42	10.6	8.6	12.8
44	5.1	4.2	6.4

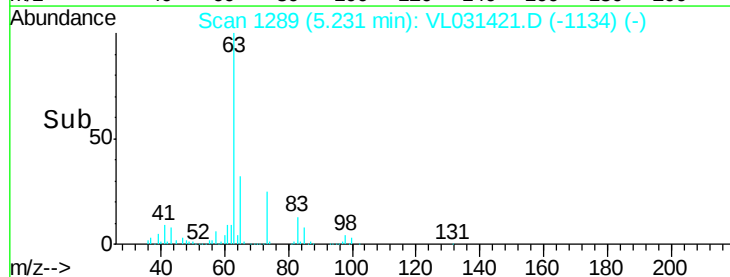
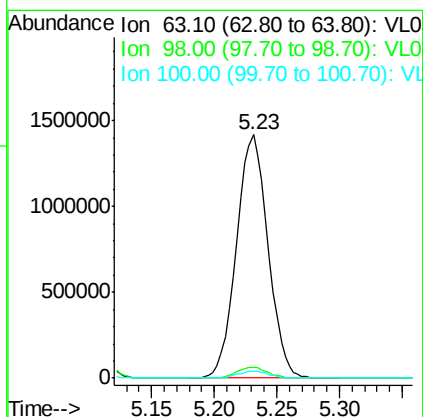
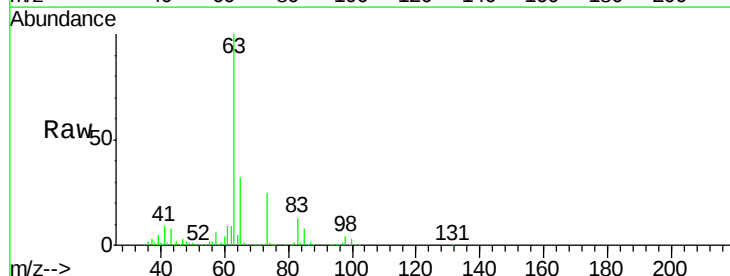
Manual Integrations
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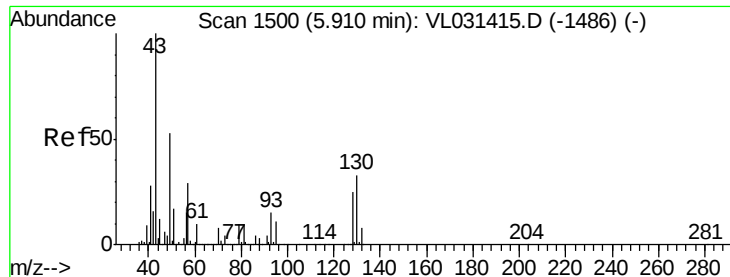
MMDadoda
 1/24/2018 5:10:15 PM



#24
 1,1-Dichloroethane
 Concen: 12.26 ppbv
 RT: 5.23 min Scan# 1289
 Delta R.T. -0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Tgt Ion	63	Resp	2468552
Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.4	7.1
100	2.8	1.3	3.9





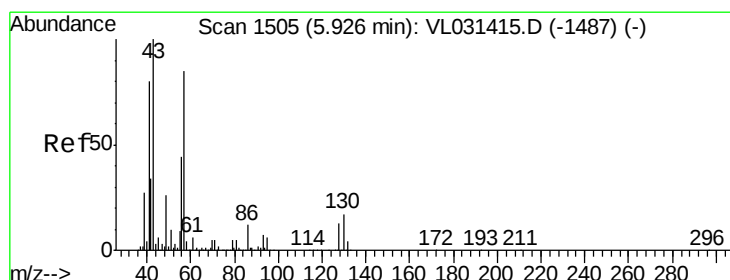
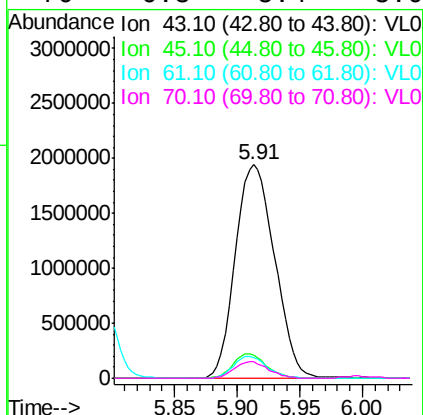
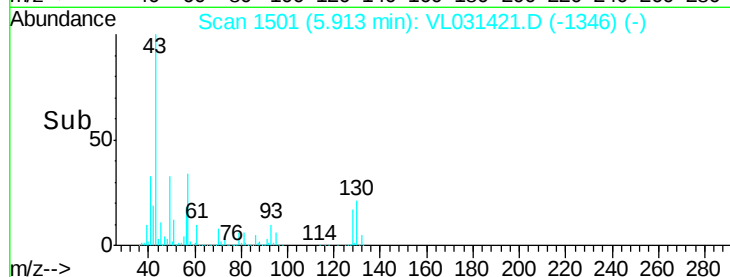
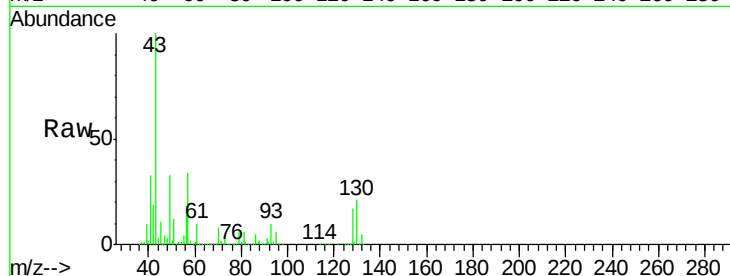
#25
Ethyl Acetate
Concen: 11.77 ppbv
RT: 5.91 min Scan# 1501
Delta R.T. -0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.8	7.8	11.6	
61	8.9	7.0	10.6	
70	6.8	5.4	8.0	

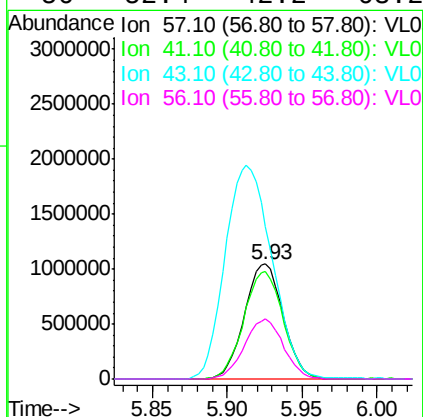
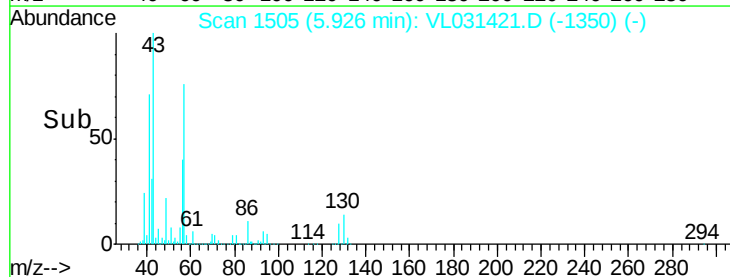
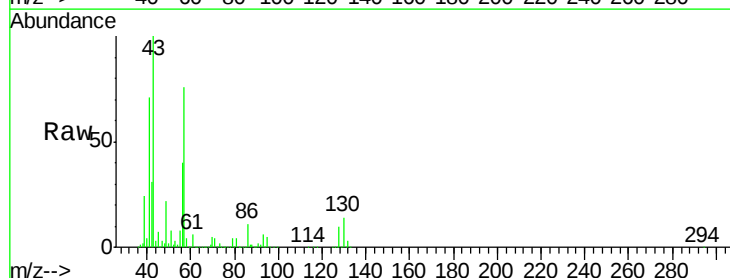
Manual Integrations
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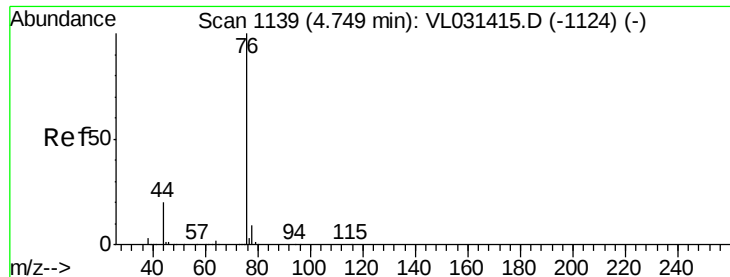
MMDadoda
1/24/2018 5:10:15 PM



#26
Hexane
Concen: 12.57 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. -0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	95.1	77.1	115.7	
43	224.7	180.7	271.1	
56	52.4	42.2	63.2	





#27

Carbon Disulfide

Concen: 13.23 ppbv

RT: 4.75 min Scan# 1140

Delta R.T. -0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 2653745

Ion Ratio Lower Upper

76 100

44 20.7 16.7 25.1

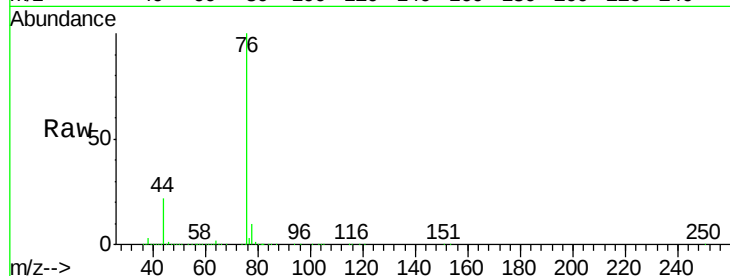
78 9.4 7.5 11.3

Manual Integrations

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MMDadoda

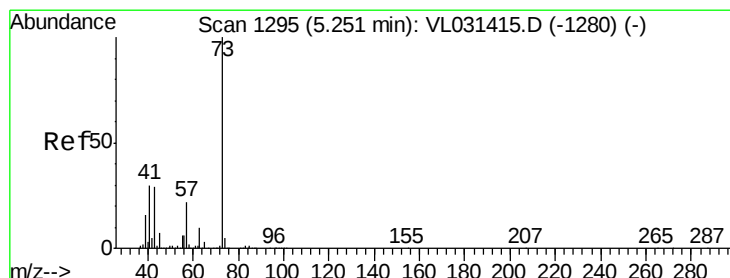
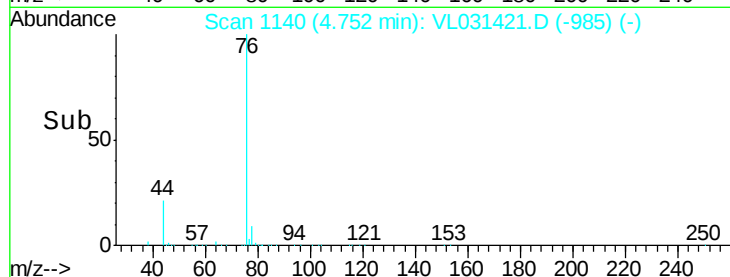
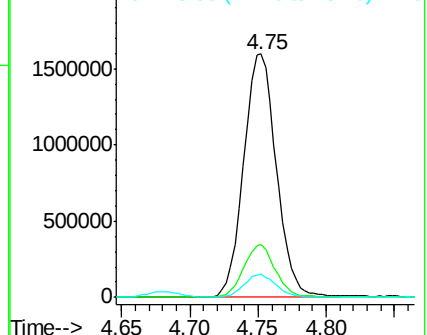
1/24/2018 5:10:15 PM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 12.93 ppbv

RT: 5.25 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VL031421.D

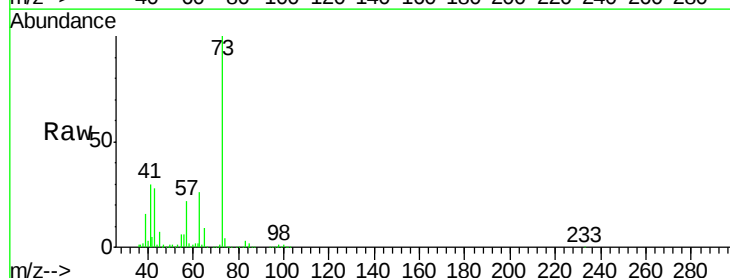
Acq: 22 Jan 2018 17:18

Tgt Ion: 73 Resp: 2364989

Ion Ratio Lower Upper

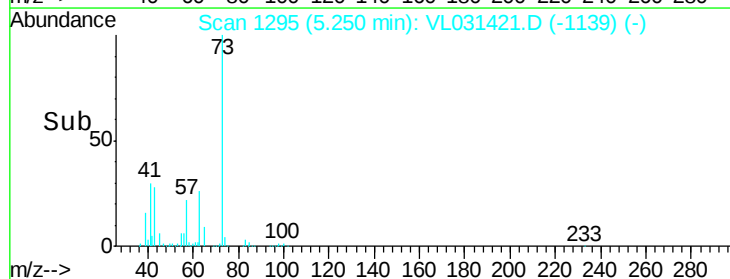
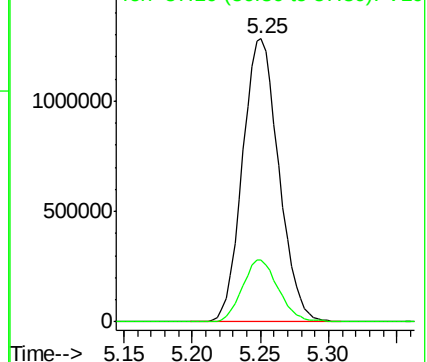
73 100

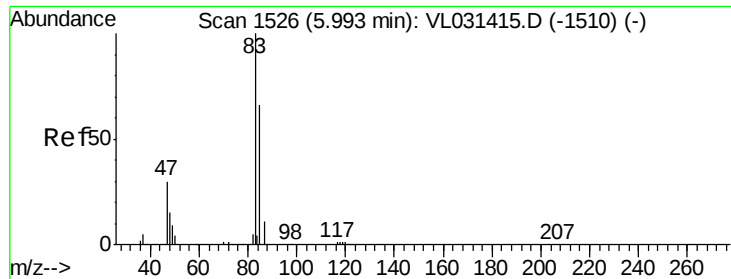
57 22.0 17.5 26.3



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





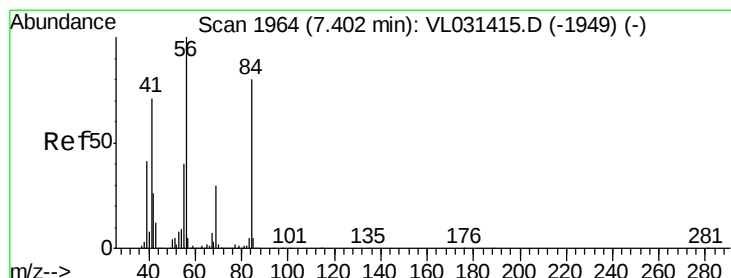
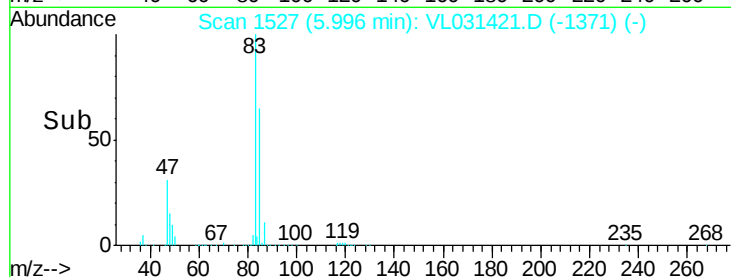
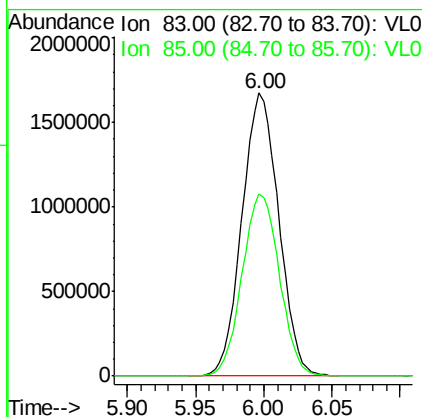
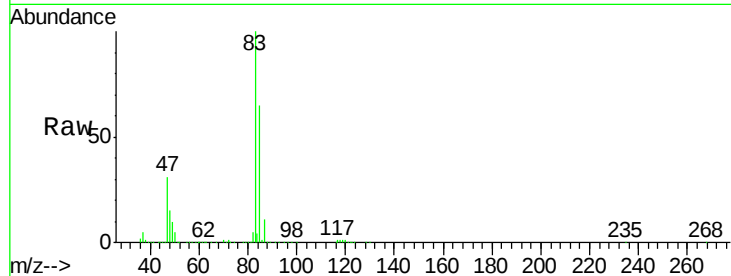
#29
Chloroform
Concen: 12.15 ppbv
RT: 6.00 min Scan# 1527
Delta R.T. -0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 3138115
Ion Ratio Lower Upper
83 100
85 64.4 51.3 76.9

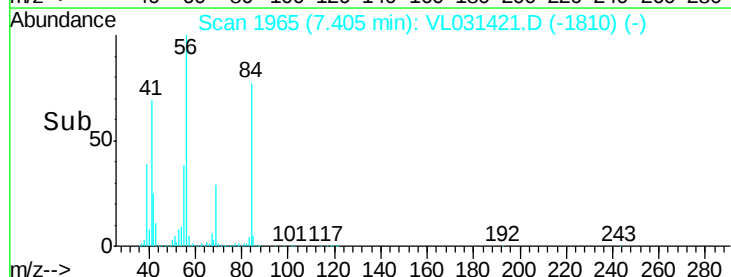
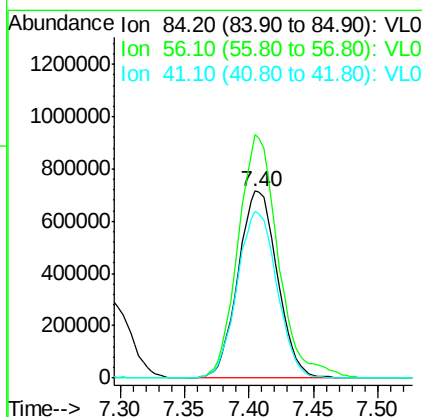
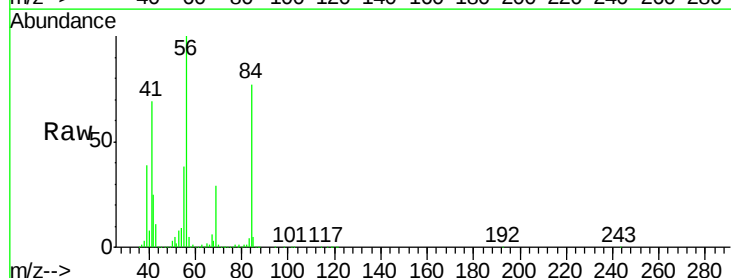
Manual Integrations
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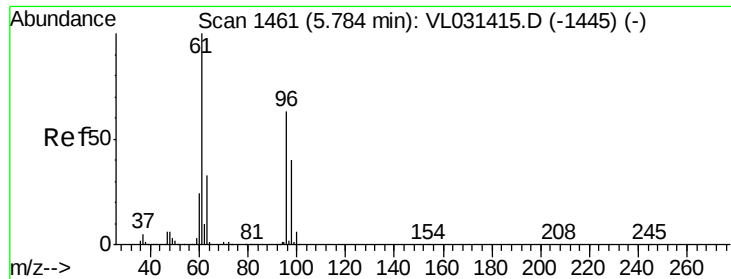
MMDadoda
1/24/2018 5:10:15 PM



#30
Cyclohexane
Concen: 12.61 ppbv
RT: 7.40 min Scan# 1965
Delta R.T. -0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Tgt Ion: 84 Resp: 1515201
Ion Ratio Lower Upper
84 100
56 133.0 109.0 163.4
41 90.4 73.3 109.9





#31

cis-1,2-Dichloroethene

Concen: 12.87 ppbv

RT: 5.78 min Scan# 1461

Delta R.T. -0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 61 Resp: 1881447

Ion Ratio Lower Upper

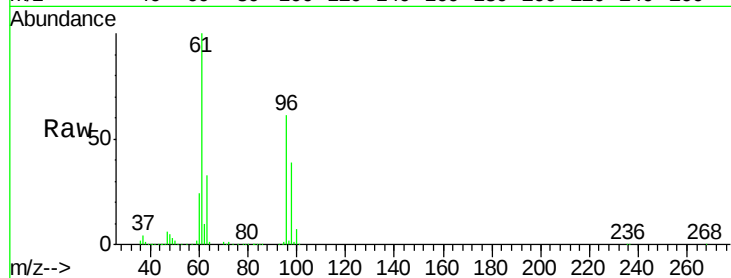
61 100

96 60.6 51.3 76.9

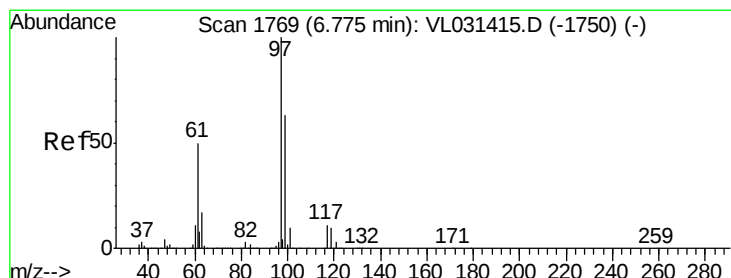
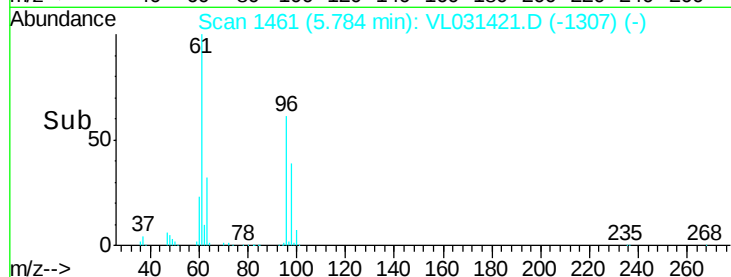
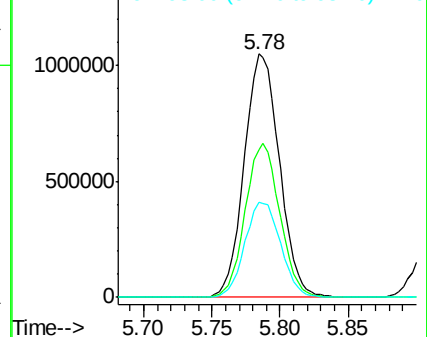
98 39.0 33.6 50.4

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MMDadoda
1/24/2018 5:10:15 PM



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 12.04 ppbv

RT: 6.77 min Scan# 1769

Delta R.T. -0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

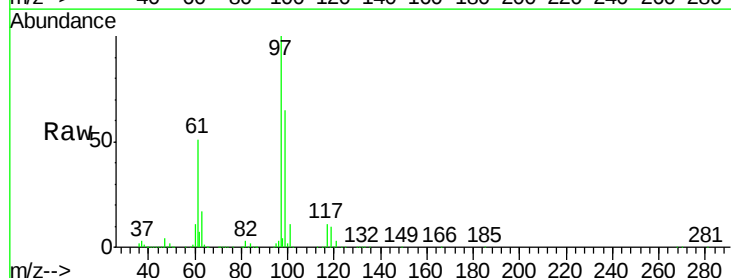
Tgt Ion: 97 Resp: 3256775

Ion Ratio Lower Upper

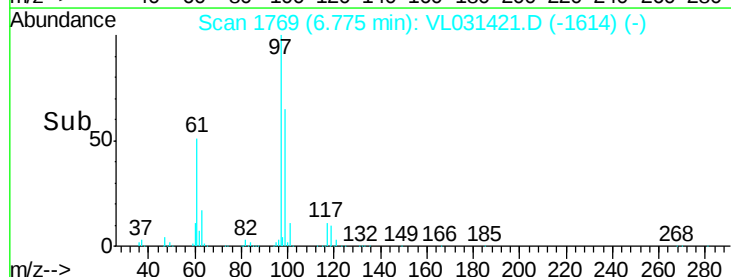
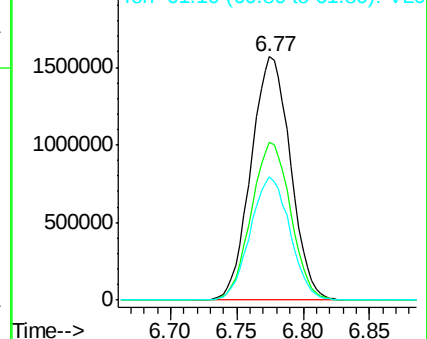
97 100

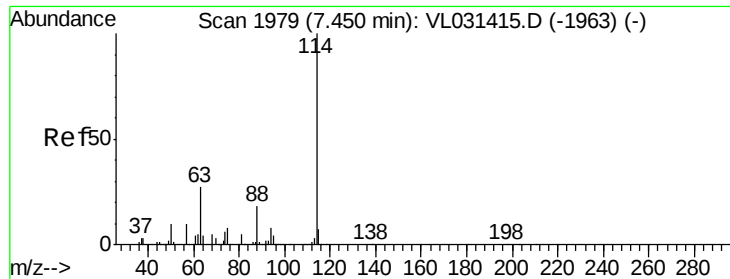
99 64.7 51.9 77.9

61 50.9 40.6 61.0



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





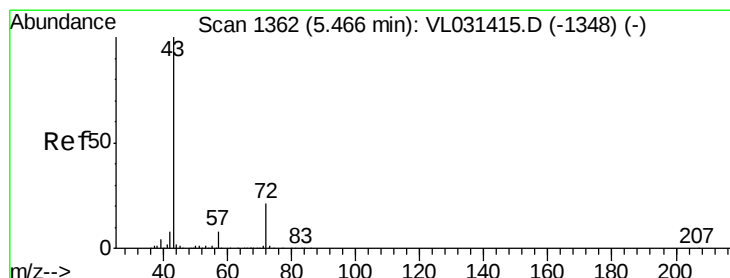
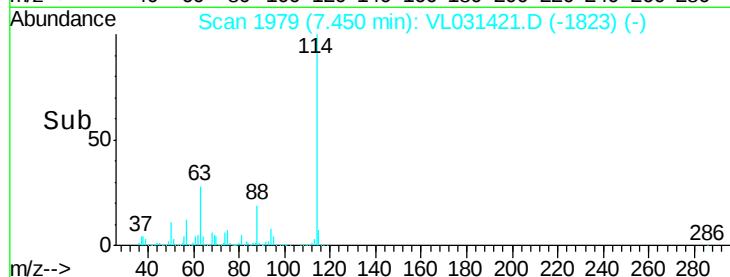
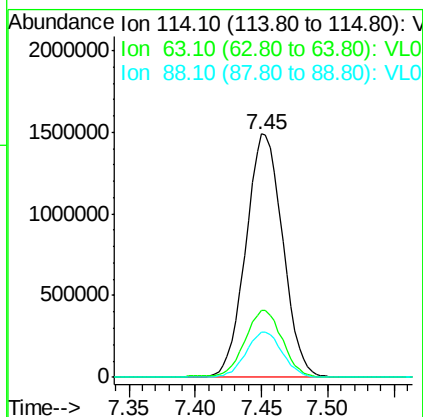
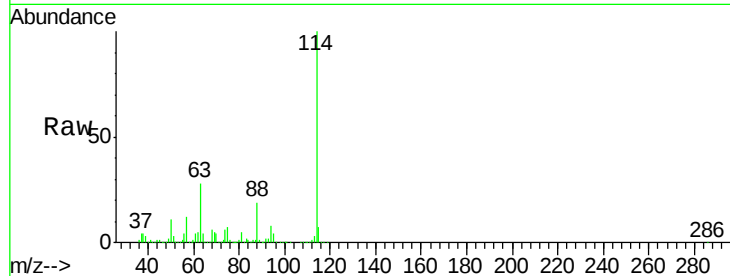
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.45 min Scan# 1979
 Delta R.T. -0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.3	22.5	33.7
88	18.4	14.6	22.0

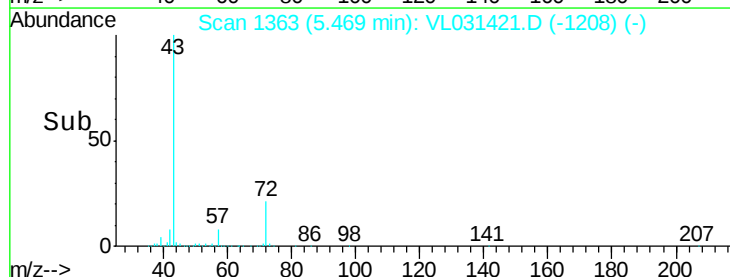
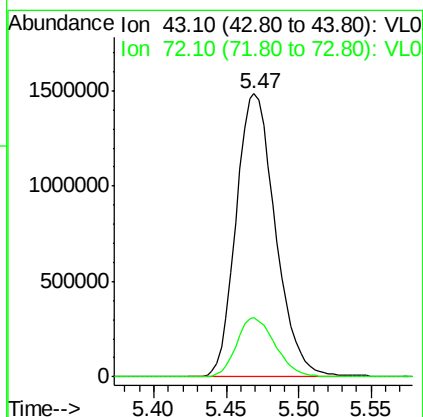
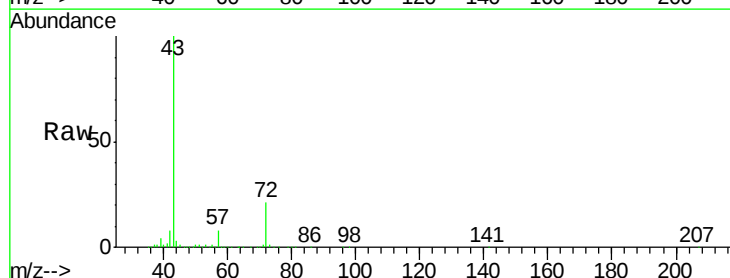
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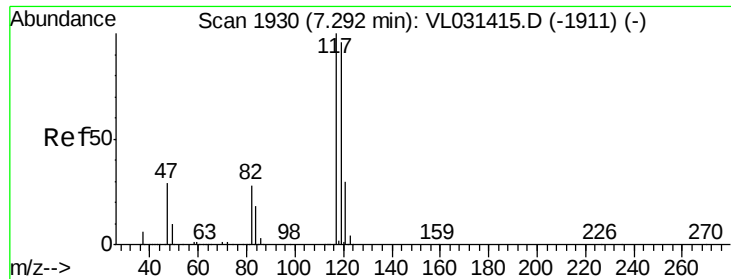
MMDadoda
 1/24/2018 5:10:15 PM



#34
 2-Butanone
 Concen: 11.60 ppbv
 RT: 5.47 min Scan# 1363
 Delta R.T. -0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.8	16.8	25.2





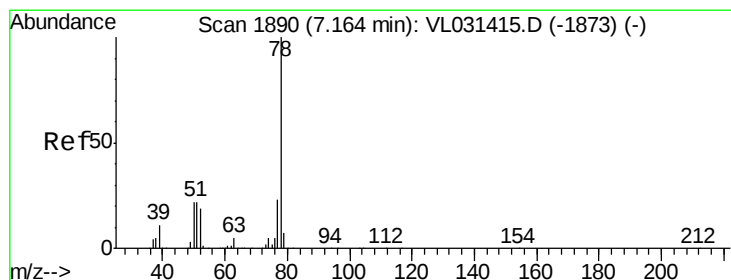
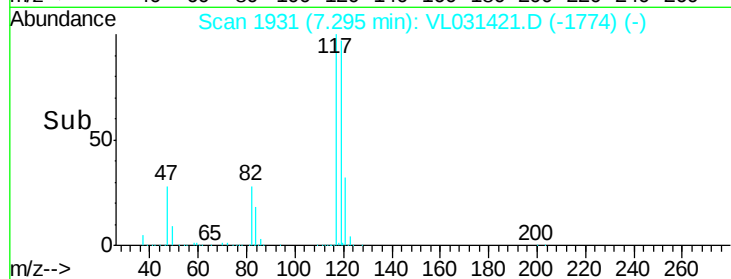
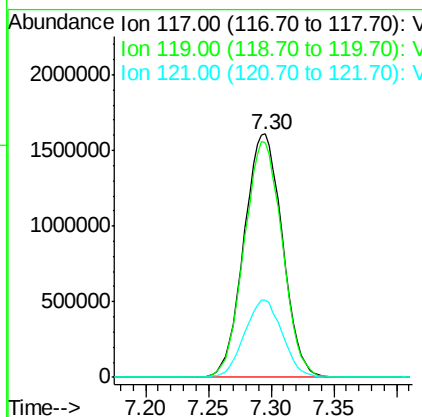
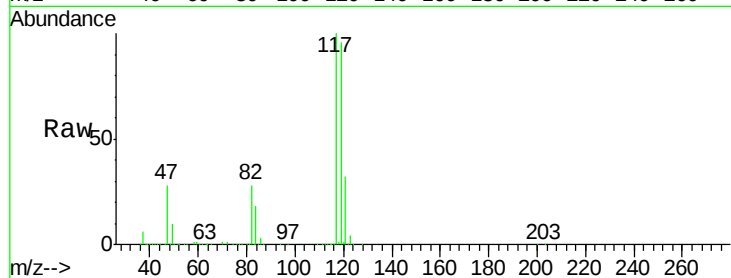
#35
Carbon Tetrachloride
Concen: 12.43 ppbv
RT: 7.30 min Scan# 1931
Delta R.T. 0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 3425398
Ion Ratio Lower Upper
117 100
119 96.4 74.2 111.4
121 31.7 24.2 36.4

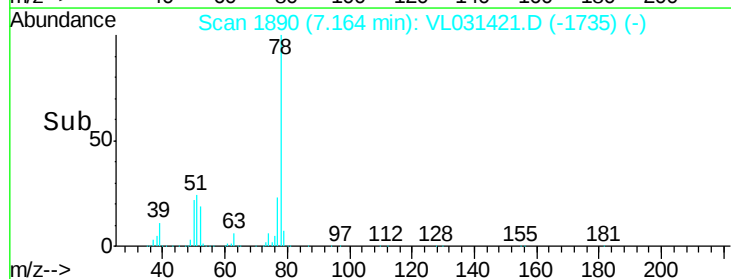
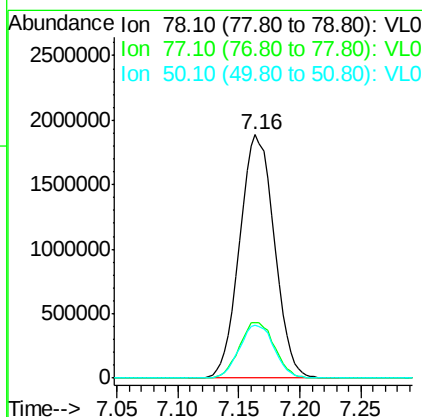
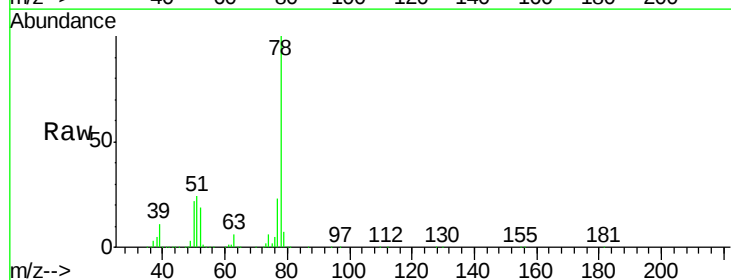
Manual Integrations
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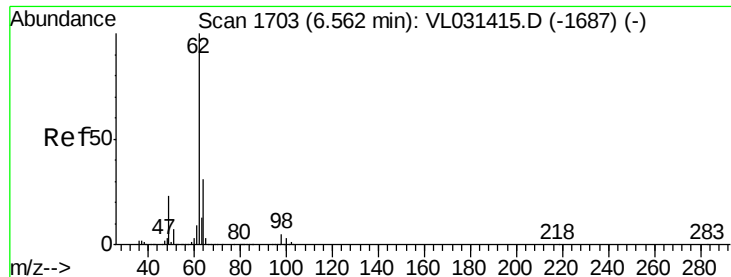
MMDadoda
1/24/2018 5:10:15 PM



#36
Benzene
Concen: 12.38 ppbv
RT: 7.16 min Scan# 1890
Delta R.T. -0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Tgt Ion: 78 Resp: 3702325
Ion Ratio Lower Upper
78 100
77 23.0 18.7 28.1
50 22.0 18.4 27.6





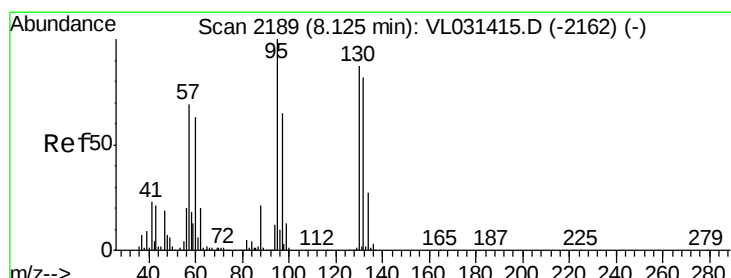
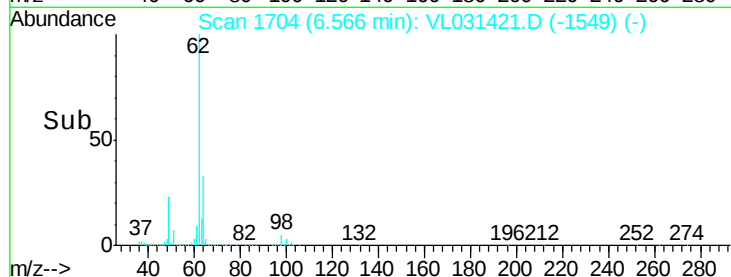
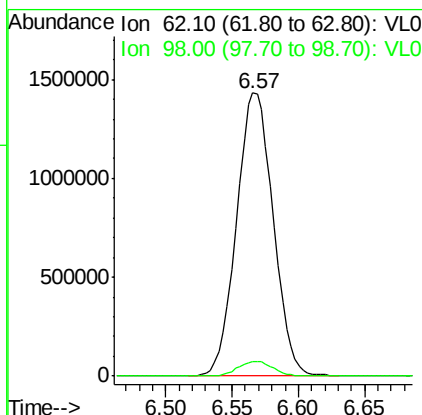
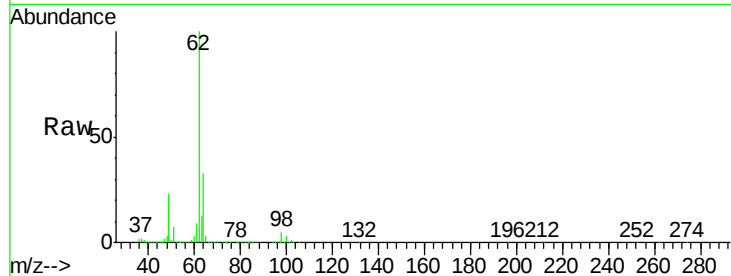
#37
1,2-Dichloroethane
Concen: 12.50 ppbv
RT: 6.57 min Scan# 1704
Delta R.T. -0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 62 Resp: 2753464
Ion Ratio Lower Upper
62 100
98 5.1 4.1 6.1

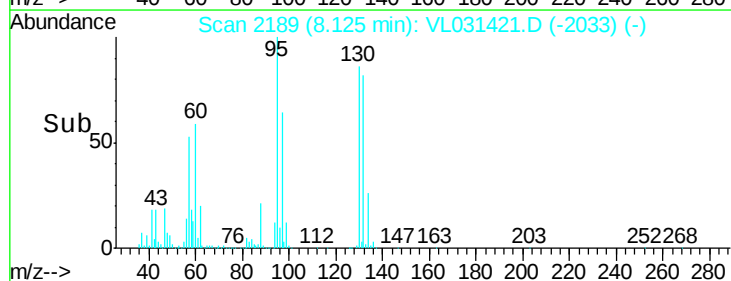
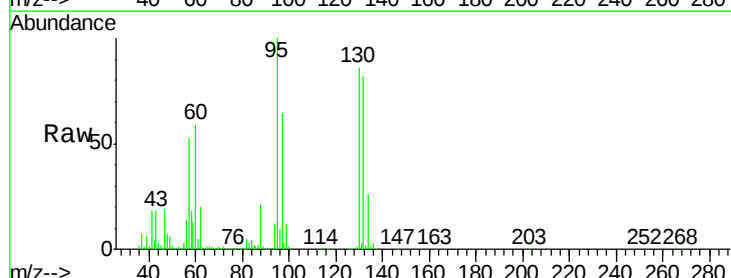
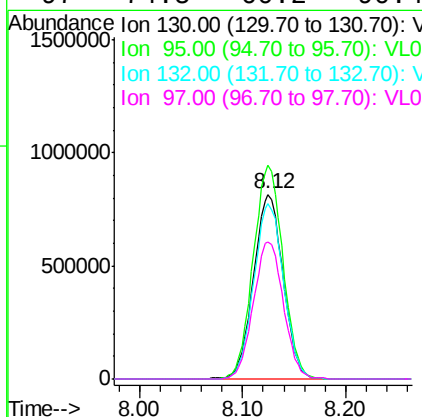
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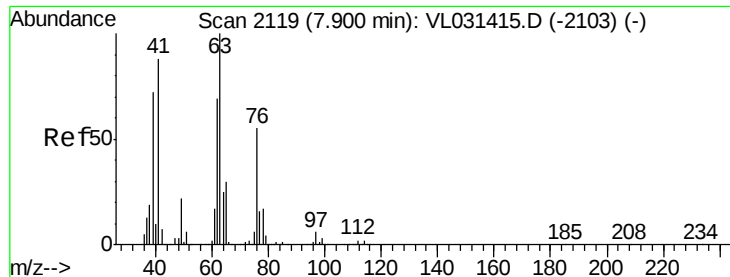
MMDadoda
1/24/2018 5:10:15 PM



#38
Trichloroethene
Concen: 13.11 ppbv
RT: 8.12 min Scan# 2189
Delta R.T. -0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Tgt Ion: 130 Resp: 1625832
Ion Ratio Lower Upper
130 100
95 115.9 92.9 139.3
132 95.0 74.9 112.3
97 74.5 60.2 90.4





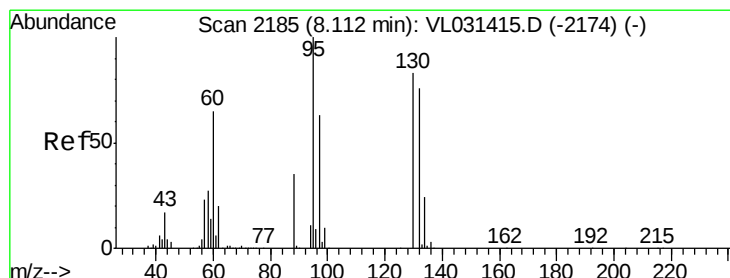
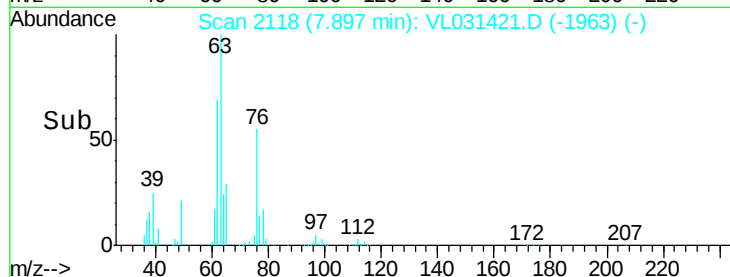
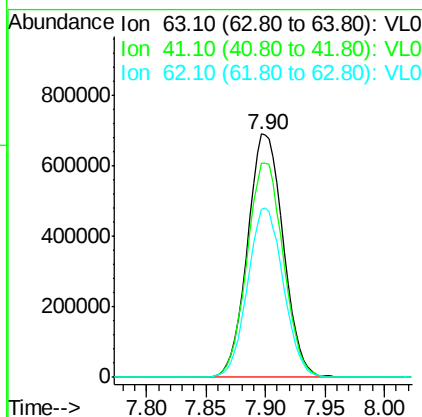
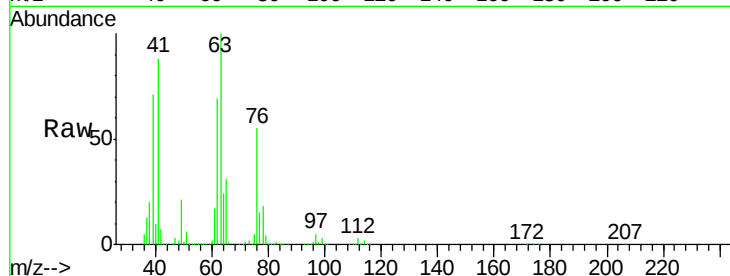
#39
 1,2-Dichloropropane
 Concen: 12.98 ppbv
 RT: 7.90 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 63 Resp: 1434492
 Ion Ratio Lower Upper
 63 100
 41 88.2 67.6 101.4
 62 68.8 51.8 77.6

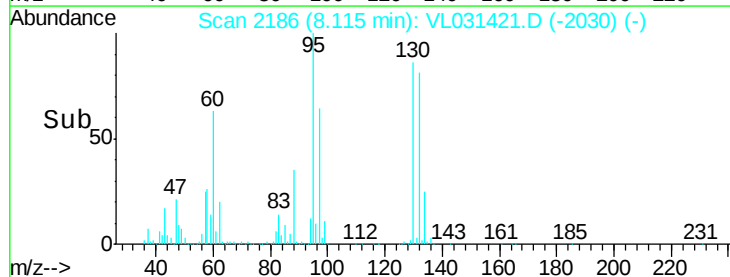
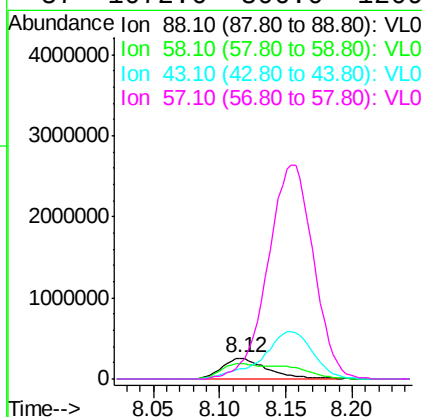
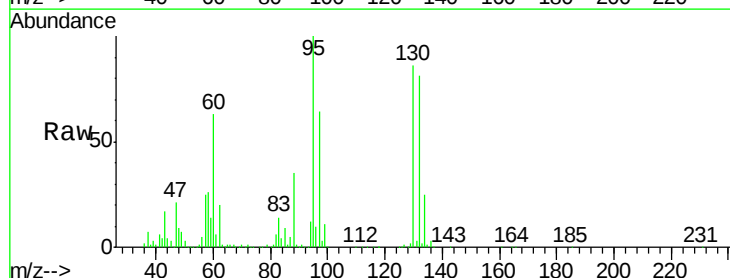
Manual Integrations
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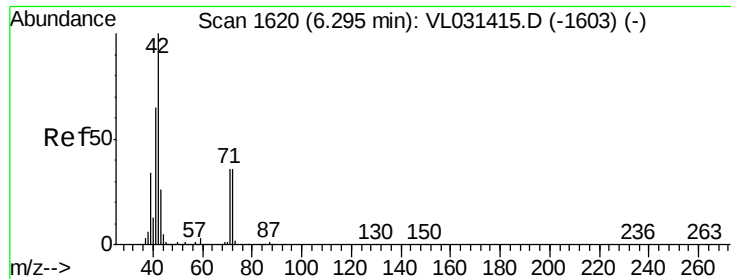
MMDadoda
 1/24/2018 5:10:15 PM



#40
 1,4-Dioxane
 Concen: 10.70 ppbv
 RT: 8.12 min Scan# 2186
 Delta R.T. 0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Tgt Ion: 88 Resp: 593852
 Ion Ratio Lower Upper
 88 100
 58 127.0 98.2 147.2
 43 262.9 197.3 295.9
 57 1072.6 806.0 1209.0





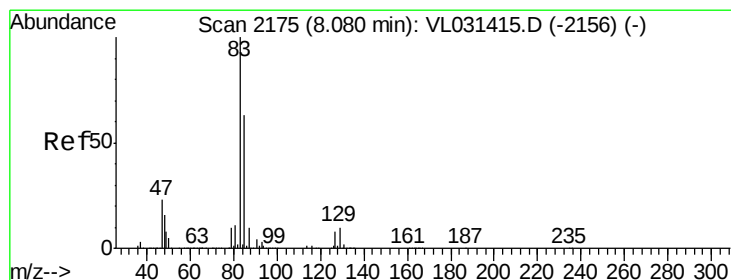
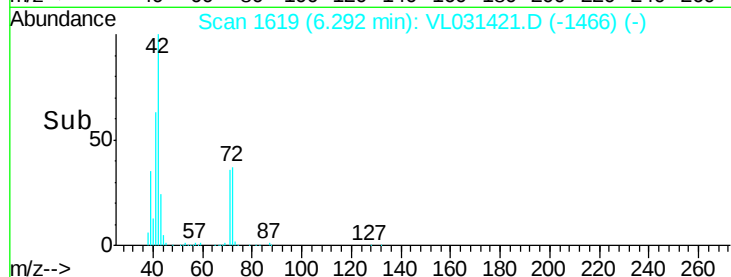
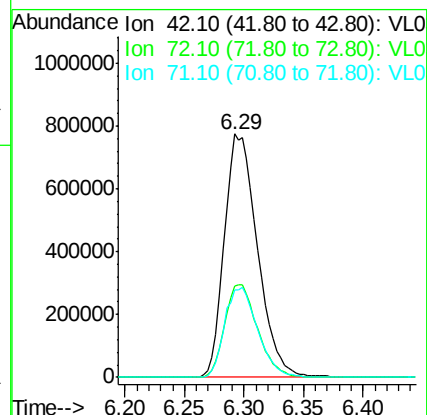
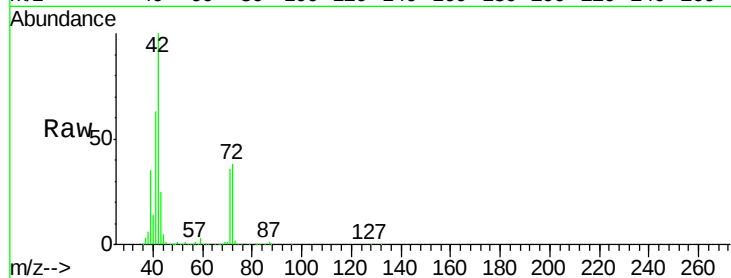
#41
Tetrahydrofuran
Concen: 12.28 ppbv
RT: 6.29 min Scan# 1619
Delta R.T. -0.01 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.8	30.4	45.6
71	37.1	29.2	43.8

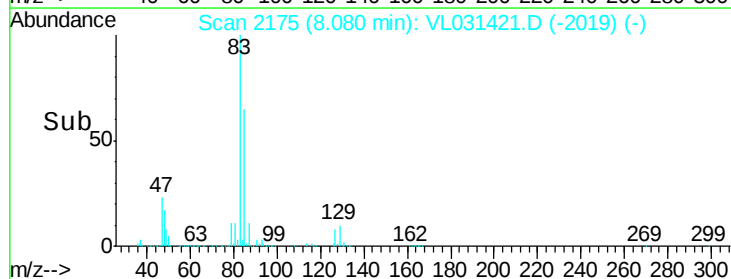
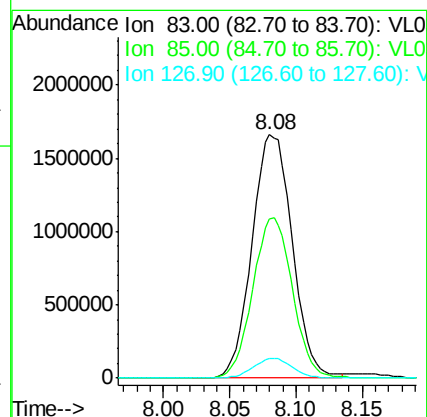
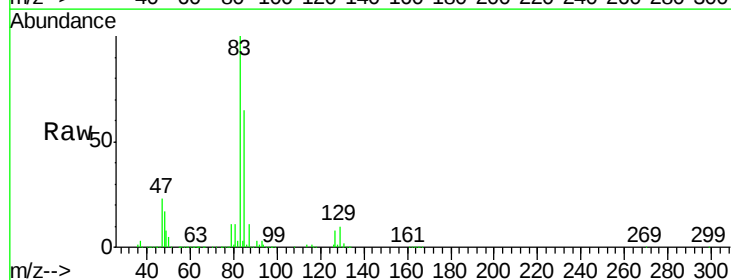
Manual Integrations
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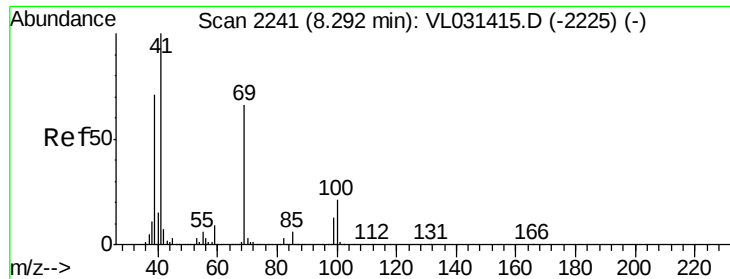
MMDadoda
1/24/2018 5:10:15 PM



#42
Bromodichloromethane
Concen: 13.00 ppbv
RT: 8.08 min Scan# 2175
Delta R.T. -0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.1	78.1
127	8.0	6.6	10.0





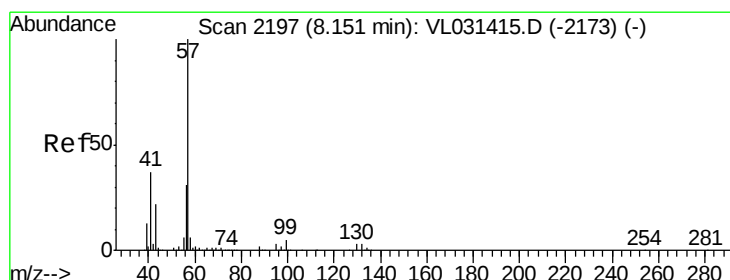
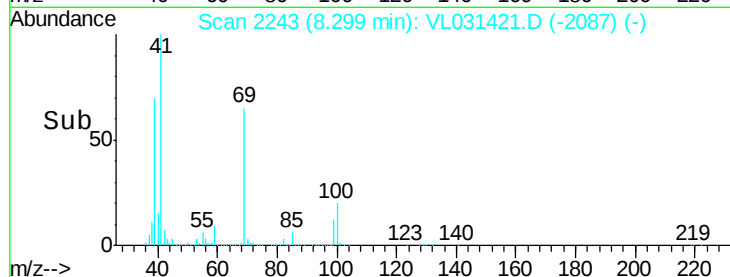
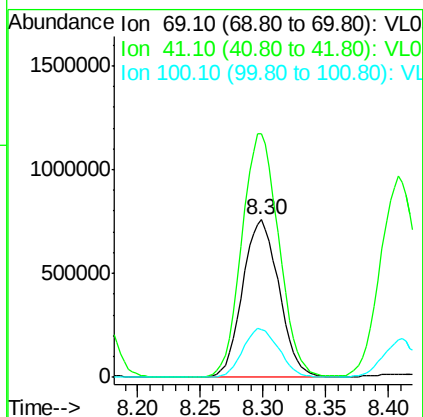
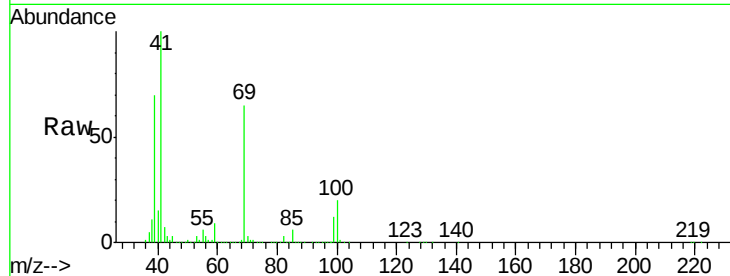
#43
Methyl Methacrylate
Concen: 13.79 ppbv
RT: 8.30 min Scan# 2243
Delta R.T. 0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 1537718
Ion Ratio Lower Upper
69 100
41 156.9 127.0 190.6
100 30.8 24.6 37.0

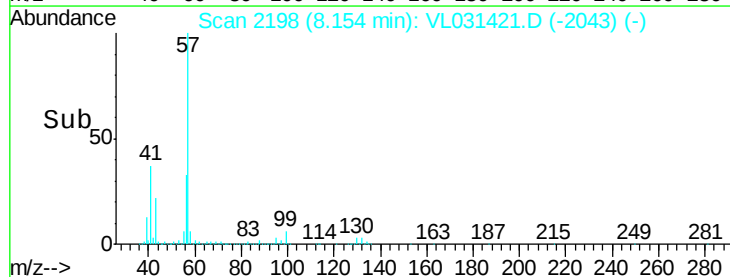
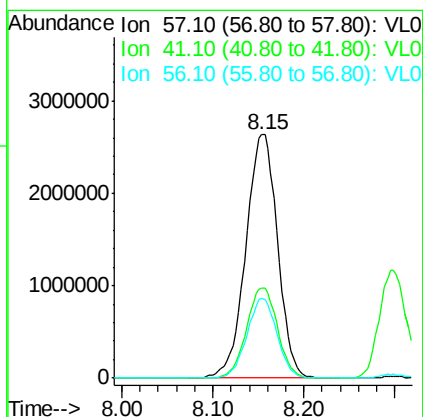
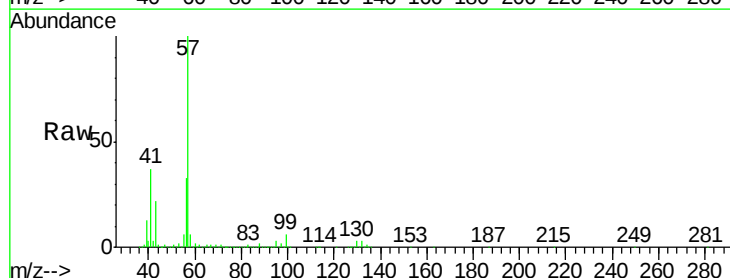
Manual Integrations
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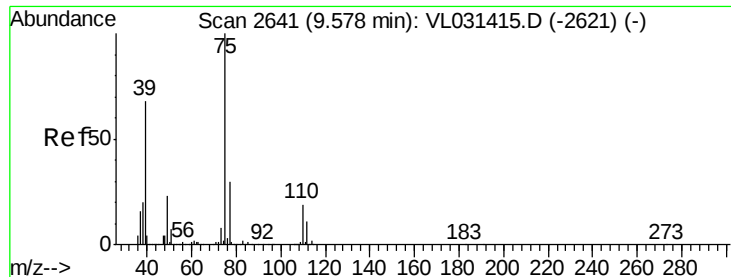
MMDadoda
1/24/2018 5:10:15 PM



#44
2,2,4-Trimethylpentane
Concen: 12.71 ppbv
RT: 8.15 min Scan# 2198
Delta R.T. -0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Tgt Ion: 57 Resp: 6366030
Ion Ratio Lower Upper
57 100
41 36.2 28.8 43.2
56 31.0 24.6 37.0





#45

t-1,3-Dichloropropene

Concen: 15.40 ppbv

RT: 9.58 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 75 Resp: 2363566

Ion Ratio Lower Upper

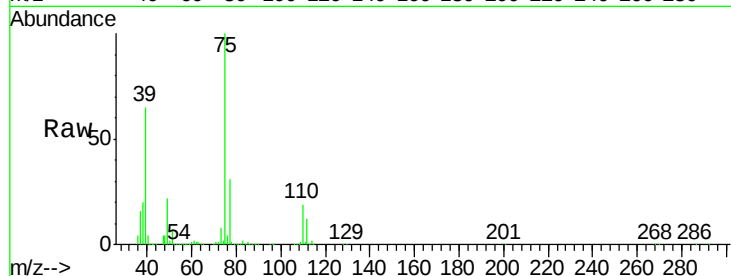
75 100

77 31.0 25.3 37.9

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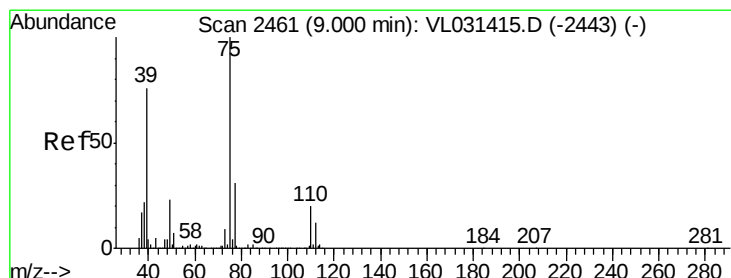
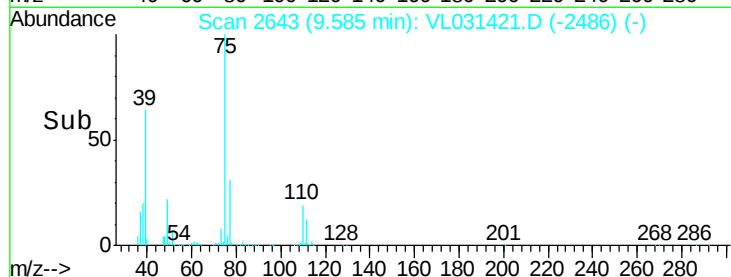
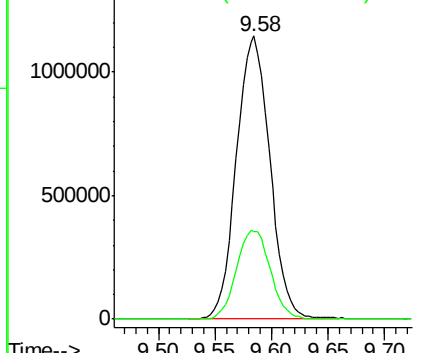
MMDadoda

1/24/2018 5:10:15 PM



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: 14.52 ppbv

RT: 9.00 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

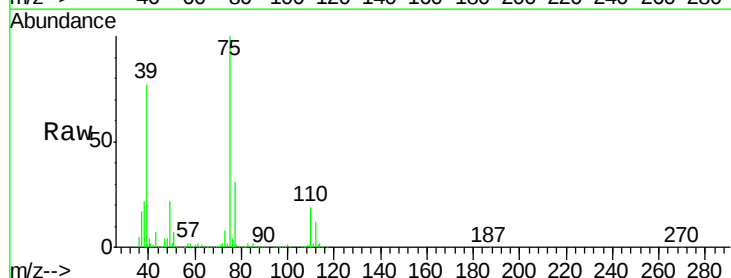
Tgt Ion: 75 Resp: 2754265

Ion Ratio Lower Upper

75 100

39 76.9 59.4 89.0

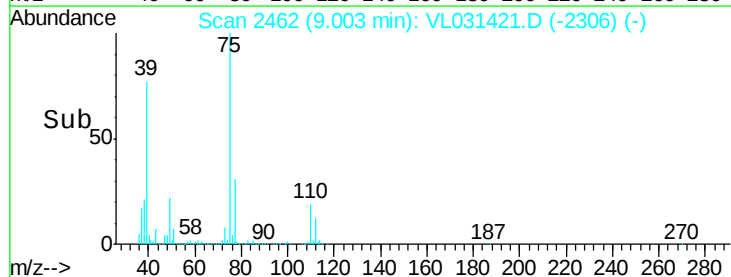
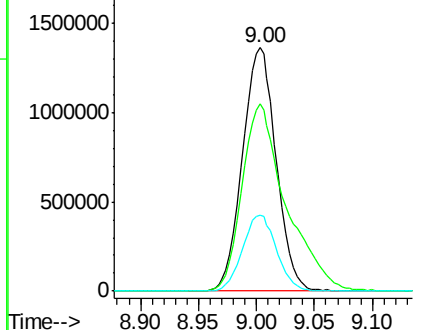
77 31.4 25.0 37.4

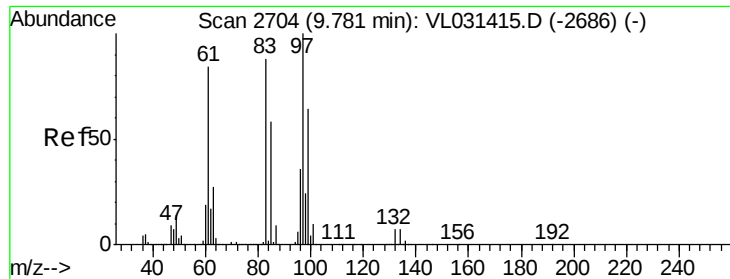


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47
 1,1,2-Trichloroethane
 Concen: 13.11 ppbv
 RT: 9.79 min Scan# 2706
 Delta R.T. 0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

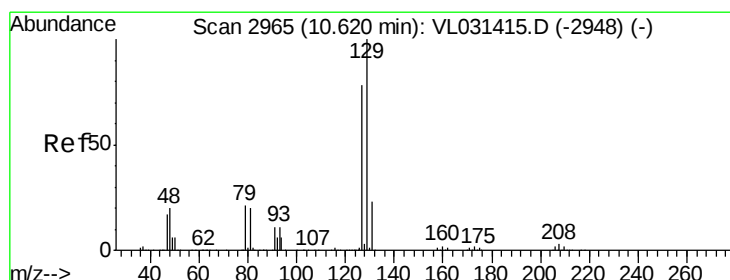
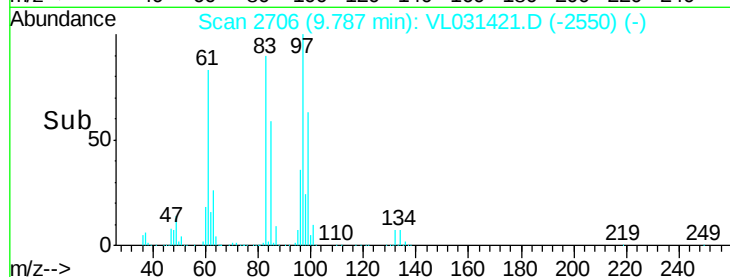
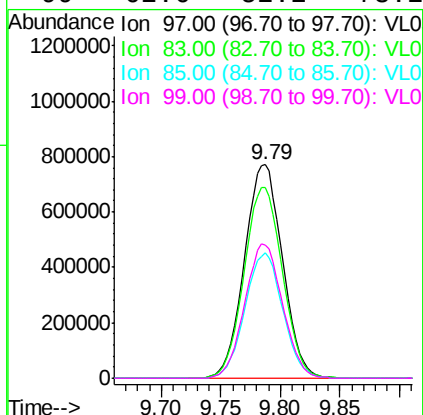
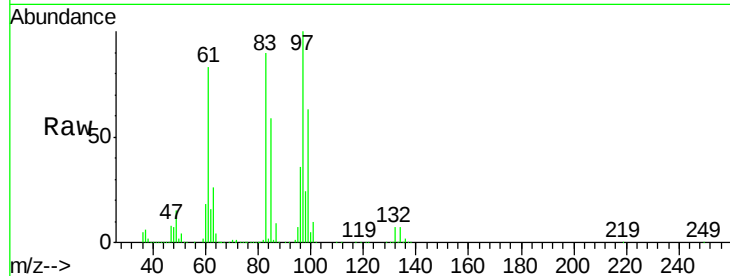
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 97 Resp: 1704629

Ion	Ratio	Lower	Upper
97	100		
83	89.5	71.4	107.2
85	58.9	46.2	69.2
99	62.6	52.2	78.2

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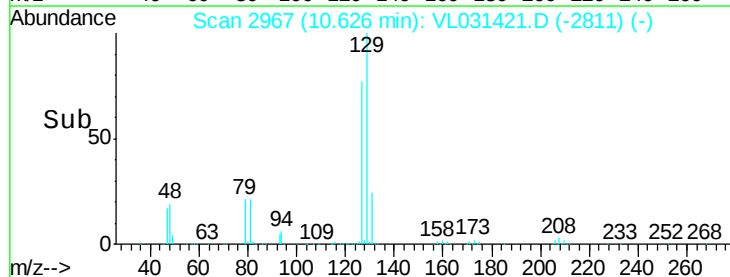
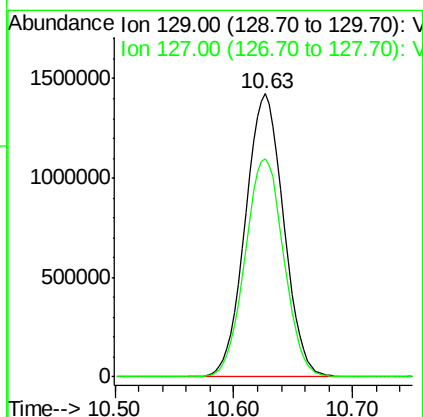
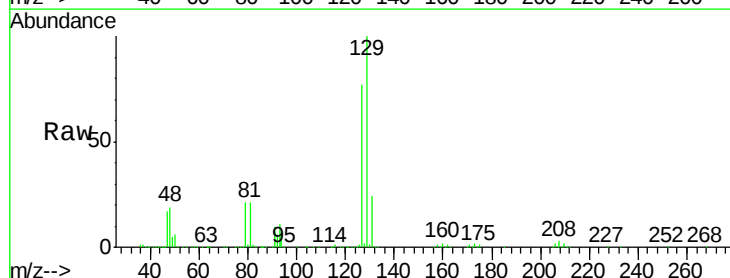
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 1/24/2018 5:10:15 PM

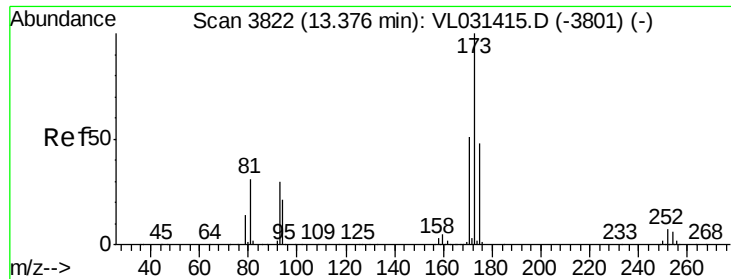


#48
 Dibromochloromethane
 Concen: 13.78 ppbv
 RT: 10.63 min Scan# 2967
 Delta R.T. 0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Tgt Ion: 129 Resp: 3171016

Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.4	118.1





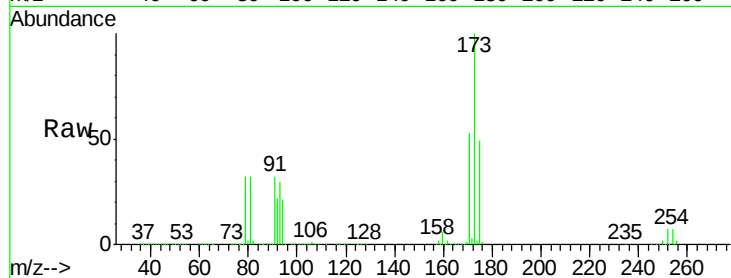
#49
Bromoform
Concen: 13.39 ppbv
RT: 13.38 min Scan# 3824
Delta R.T. 0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

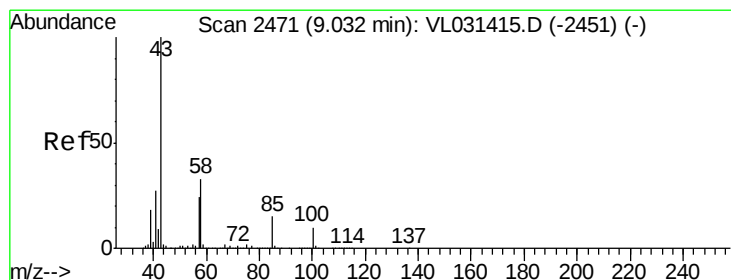
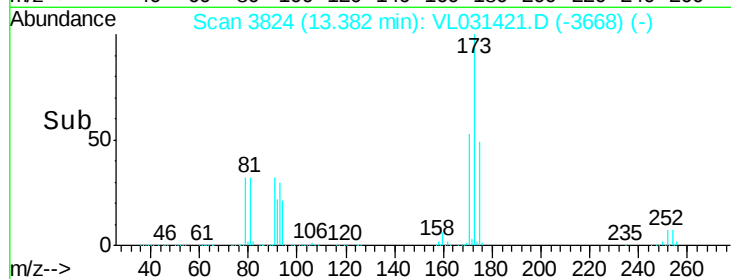
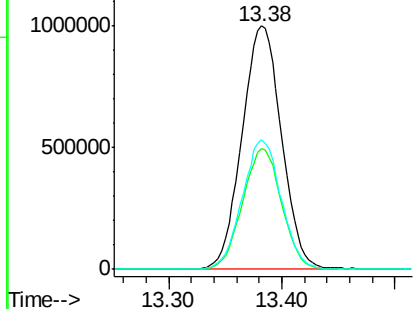
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.2	39.0	58.4
171	52.9	42.0	63.0

Manual Integrations
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MMDadoda
1/24/2018 5:10:15 PM

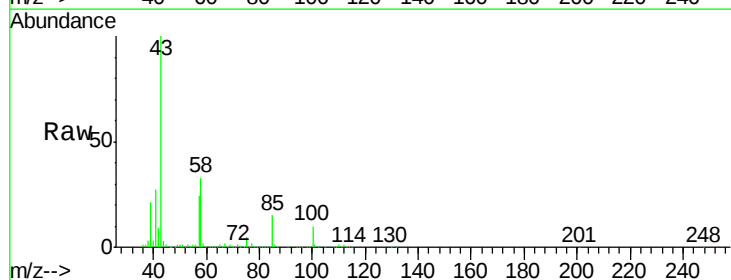


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

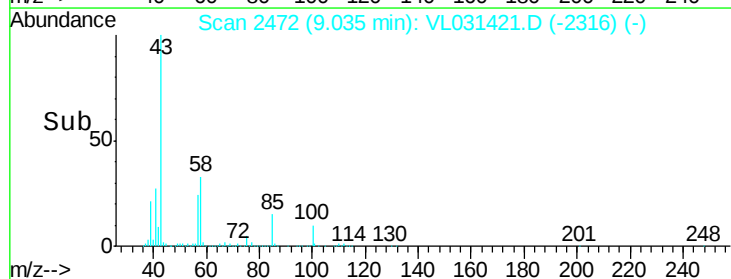
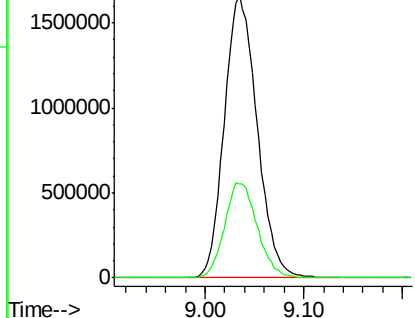


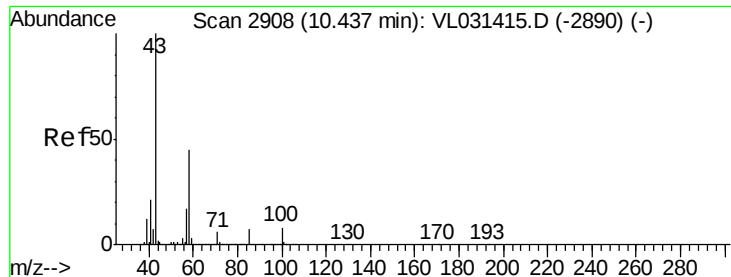
#50
4-Methyl-2-Pentanone
Concen: 12.12 ppbv
RT: 9.03 min Scan# 2472
Delta R.T. 0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.8	27.1	40.7



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





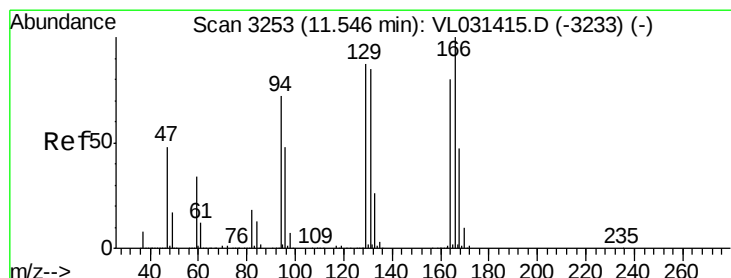
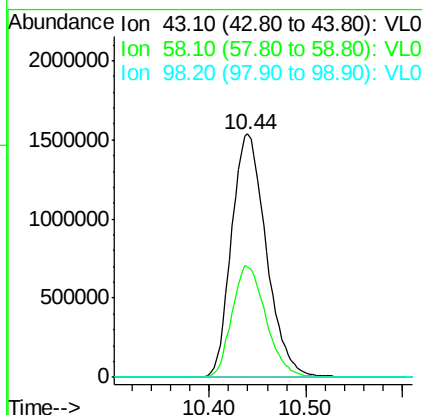
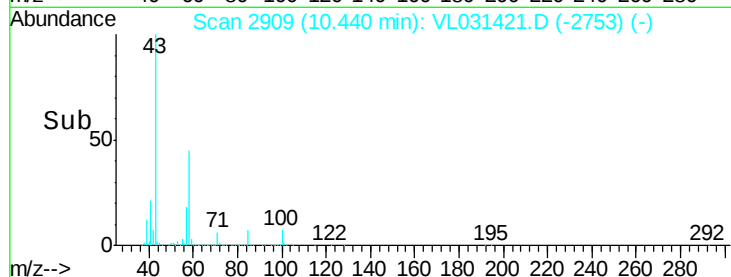
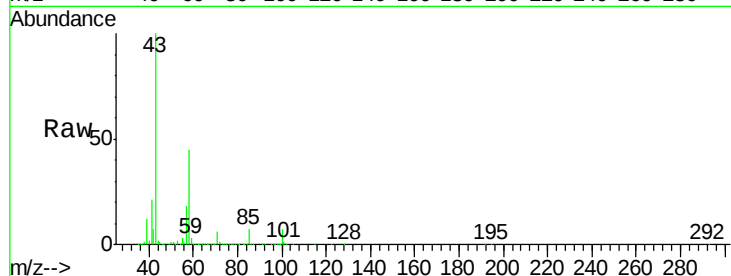
#51
2-Hexanone
Concen: 11.93 ppbv
RT: 10.44 min Scan# 2909
Delta R.T. 0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 3841590
Ion Ratio Lower Upper
43 100
58 45.0 36.2 54.4
98 0.2 0.1 0.1#

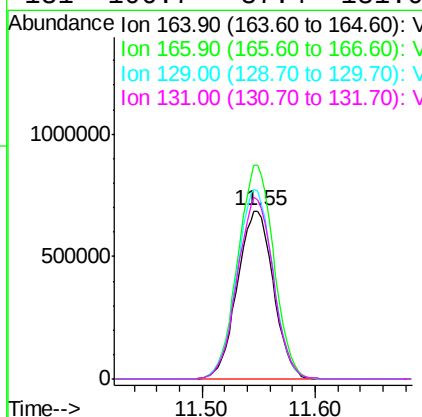
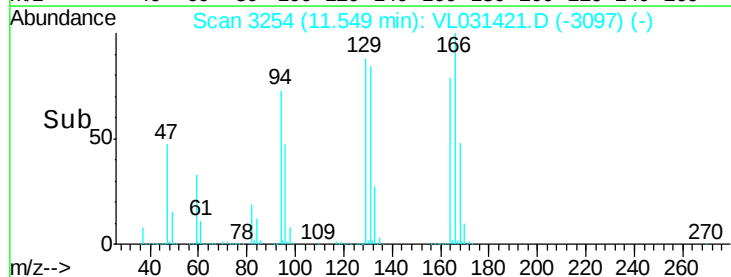
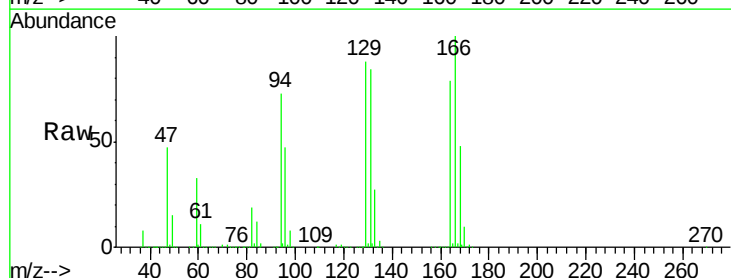
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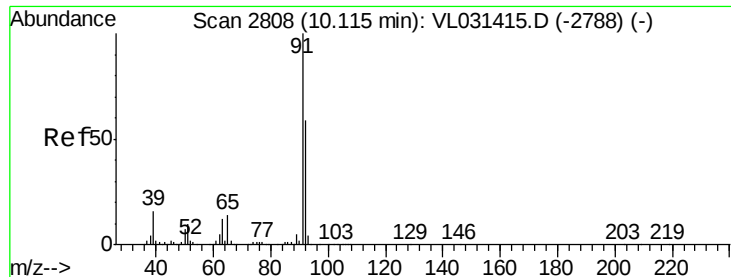
MMDadoda
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#52
Tetrachloroethene
Concen: 12.93 ppbv
RT: 11.55 min Scan# 3254
Delta R.T. 0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Tgt Ion:164 Resp: 1522697
Ion Ratio Lower Upper
164 100
166 126.7 100.2 150.2
129 111.7 91.4 137.0
131 106.7 87.4 131.0





#53

Toluene

Concen: 13.73 ppbv

RT: 10.12 min Scan# 2809

Delta R.T. -0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 4837633

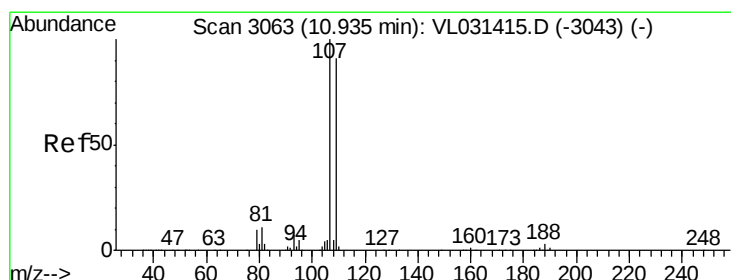
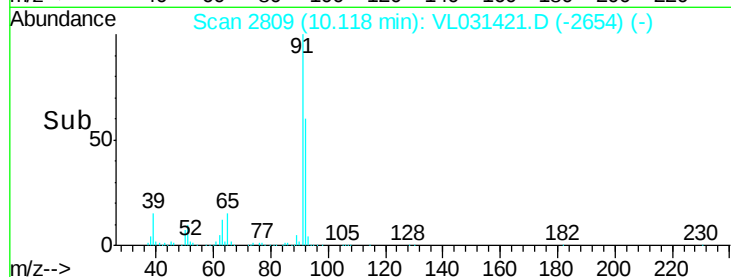
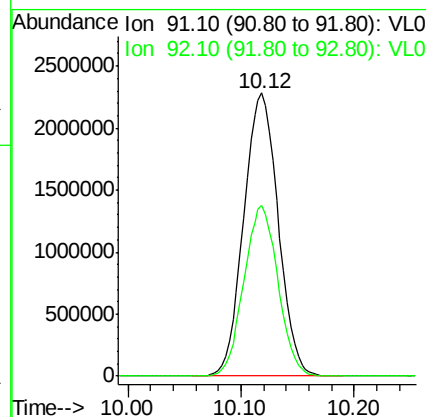
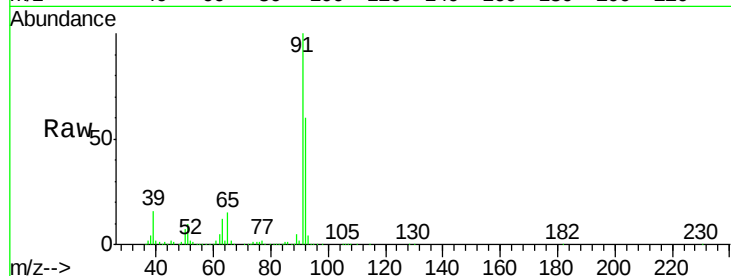
Ion Ratio Lower Upper

91 100

92 59.6 47.8 71.6

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#54

1,2-Dibromoethane

Concen: 13.55 ppbv

RT: 10.94 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VL031421.D

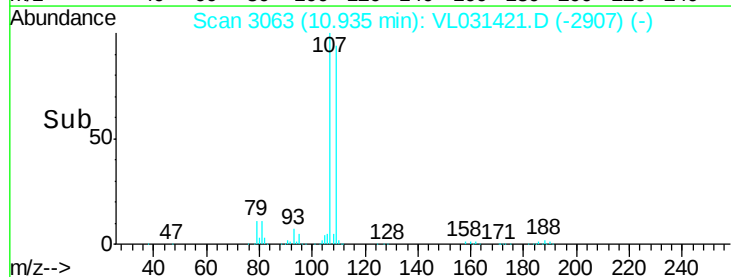
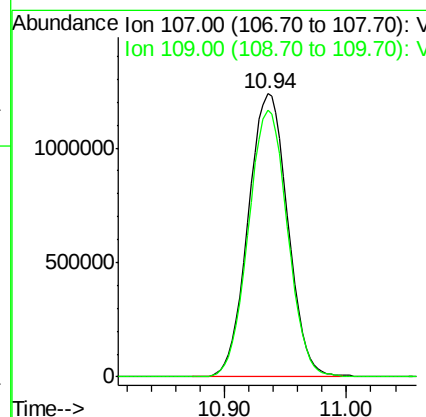
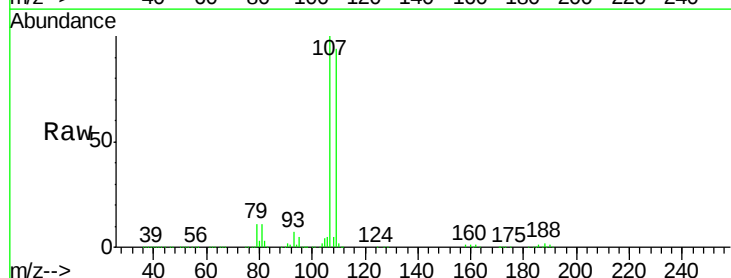
Acq: 22 Jan 2018 17:18

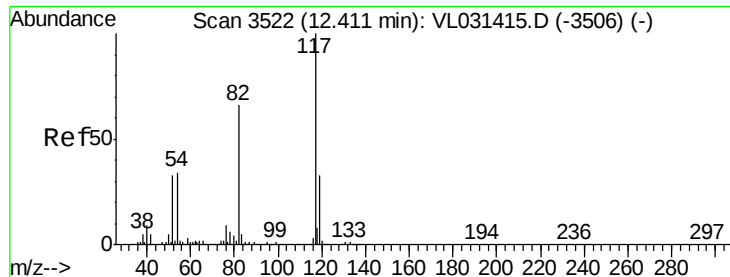
Tgt Ion: 107 Resp: 2763333

Ion Ratio Lower Upper

107 100

109 94.4 75.5 113.3





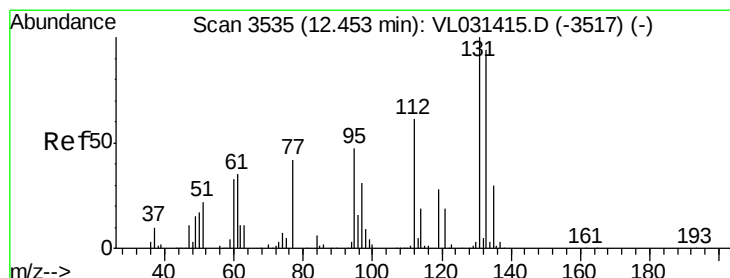
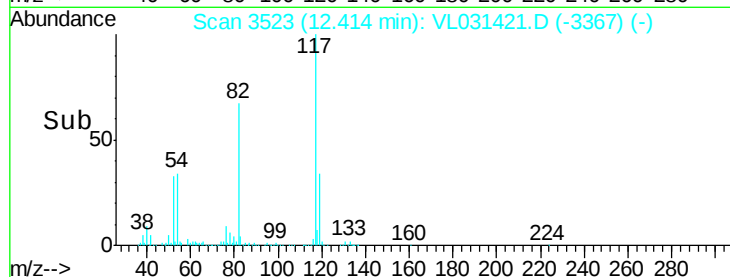
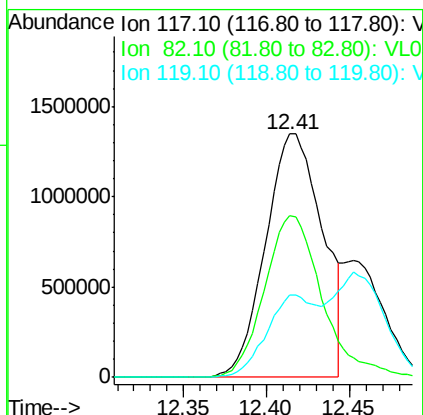
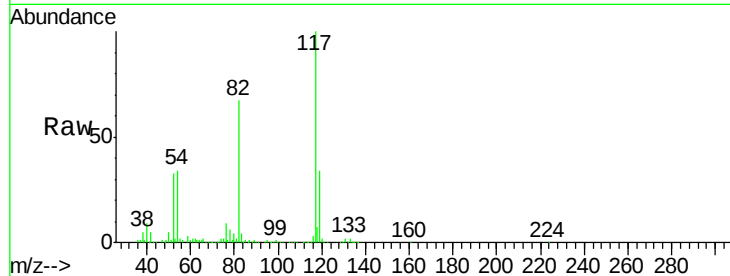
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.41 min Scan# 3523
Delta R.T. -0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 3208388
Ion Ratio Lower Upper
117 100
82 68.0 51.8 77.6
119 0.0 24.2 36.2#

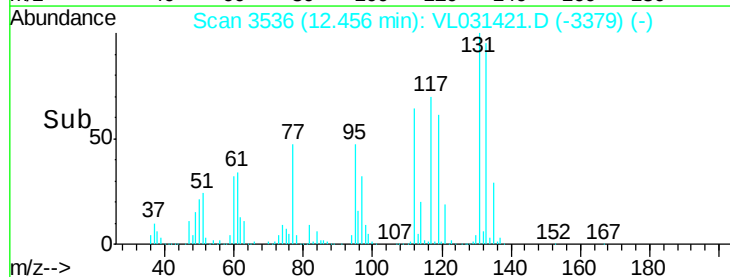
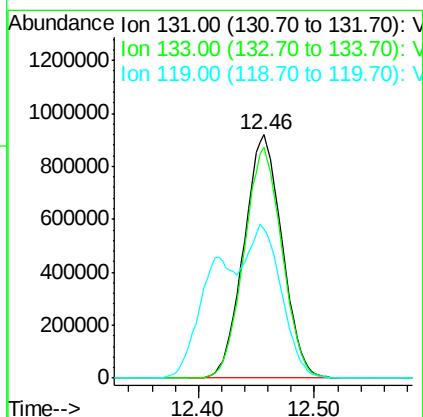
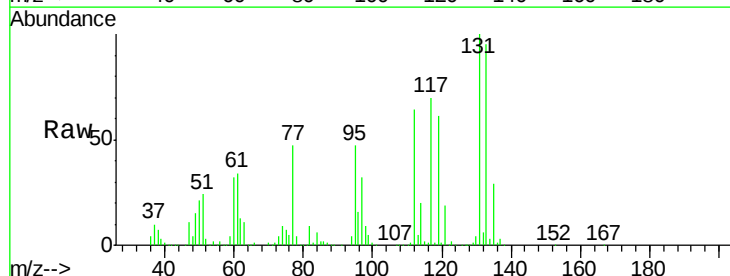
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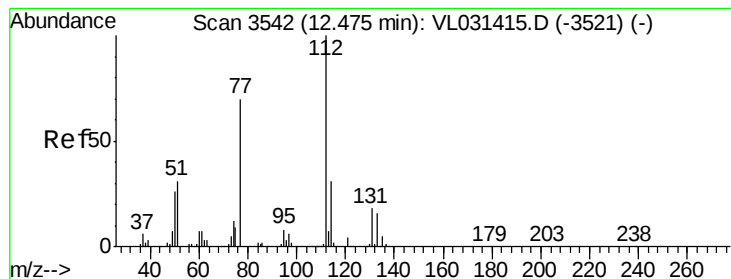
MMDadoda
1/24/2018 5:10:15 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 12.71 ppbv
RT: 12.46 min Scan# 3536
Delta R.T. 0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Tgt Ion:131 Resp: 2103711
Ion Ratio Lower Upper
131 100
133 94.7 76.9 115.3
119 107.1 47.7 71.5#





#57

Chlorobenzene

Concen: 12.53 ppbv

RT: 12.48 min Scan# 3543

Delta R.T. 0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:112 Resp: 3797858

Ion Ratio Lower Upper

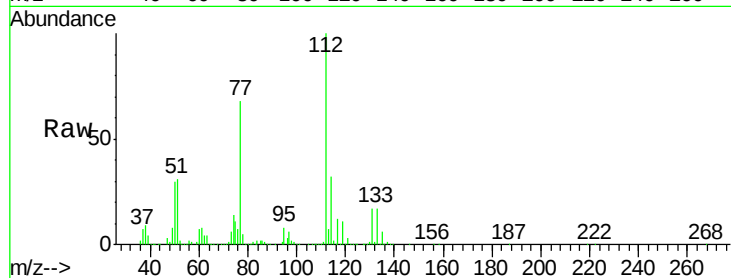
112 100

77 67.9 56.0 84.0

114 31.9 29.1 35.5

Manual Integrations
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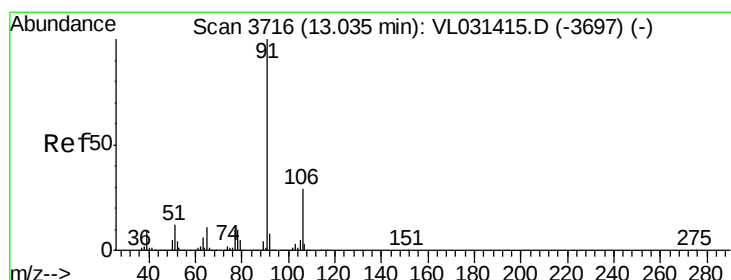
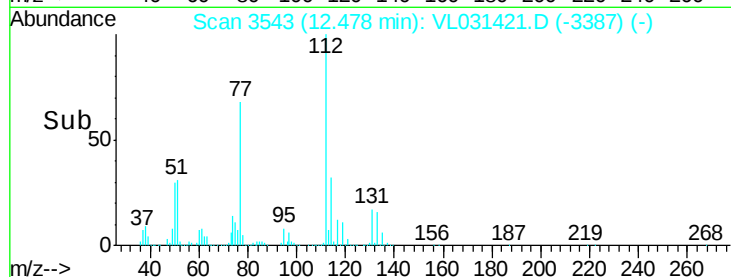
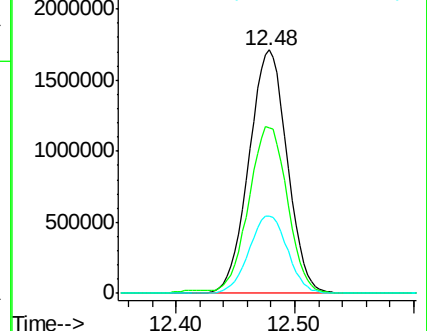
MMMadoda
1/24/2018 5:10:15 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 12.96 ppbv

RT: 13.04 min Scan# 3717

Delta R.T. -0.00 min

Lab File: VL031421.D

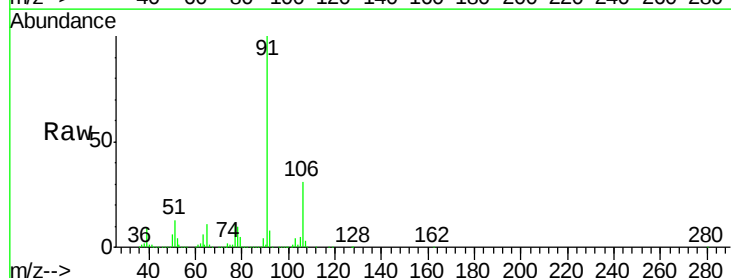
Acq: 22 Jan 2018 17:18

Tgt Ion: 91 Resp: 6791412

Ion Ratio Lower Upper

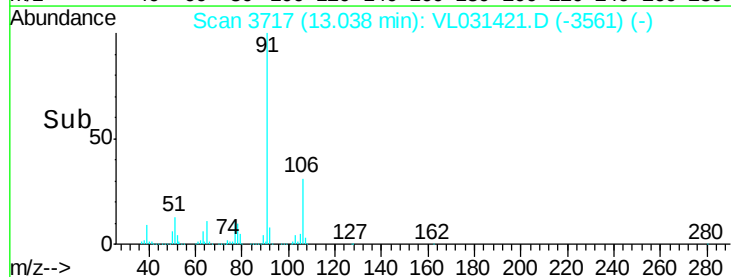
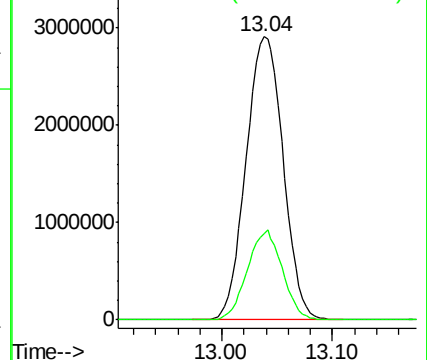
91 100

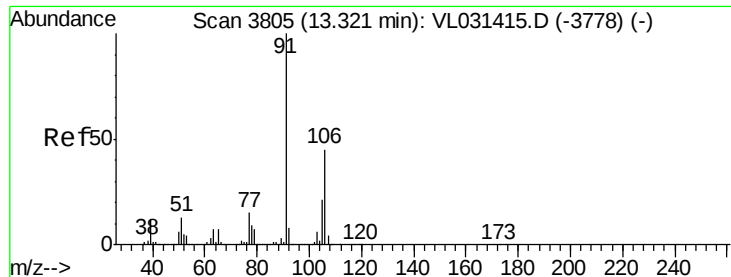
106 30.7 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





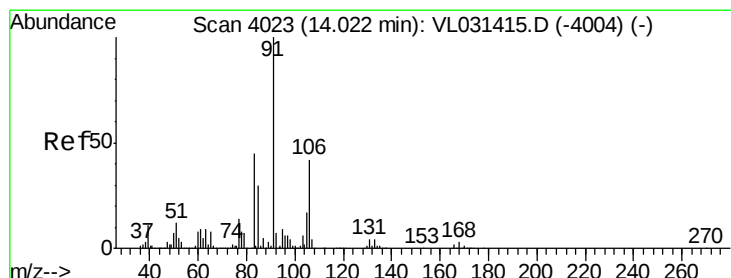
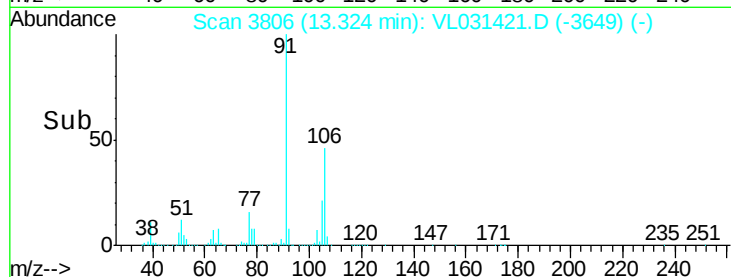
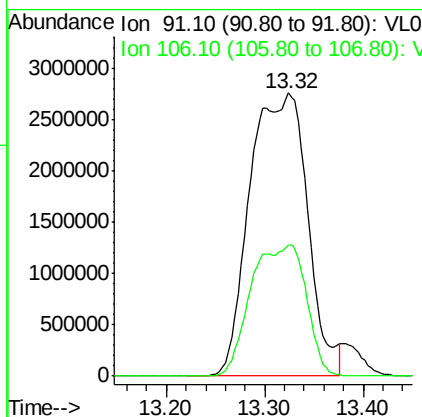
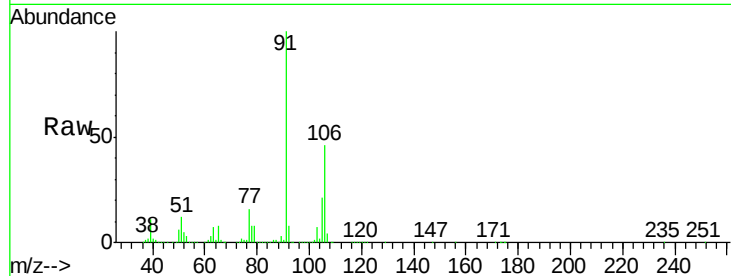
#59
m/p-Xylene
Concen: 25.86 ppbv m
RT: 13.32 min Scan# 3806
Delta R.T. 0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 11208066
Ion Ratio Lower Upper
91 100
106 44.5 35.6 53.4

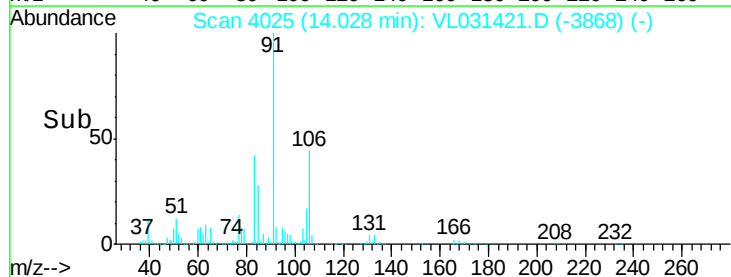
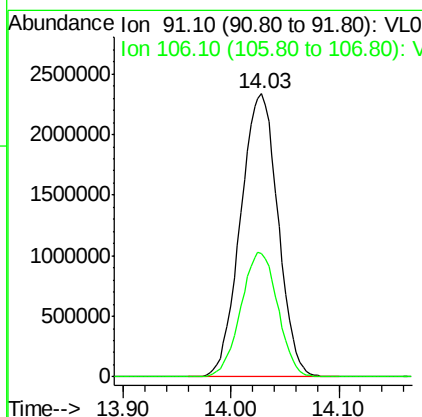
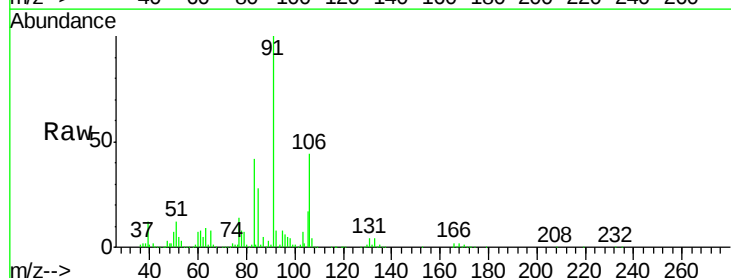
Manual Integrations
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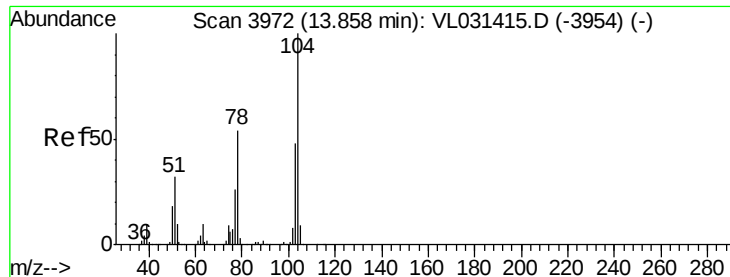
MMDadoda
1/24/2018 5:10:15 PM



#60
o-Xylene
Concen: 12.75 ppbv
RT: 14.03 min Scan# 4025
Delta R.T. 0.00 min
Lab File: VL031421.D
Acq: 22 Jan 2018 17:18

Tgt Ion: 91 Resp: 5639094
Ion Ratio Lower Upper
91 100
106 43.5 21.3 64.0





#61

Stvrene

Concen: 14.94 ppbv

RT: 13.86 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:104 Resp: 1449150

Ion Ratio Lower Upper

104 100

78 56.0 45.4 68.0

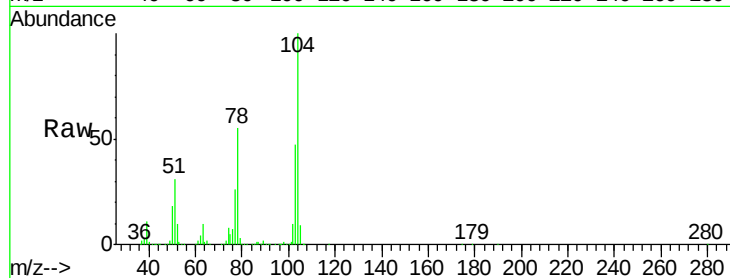
103 48.1 38.6 57.8

Manual Integrations

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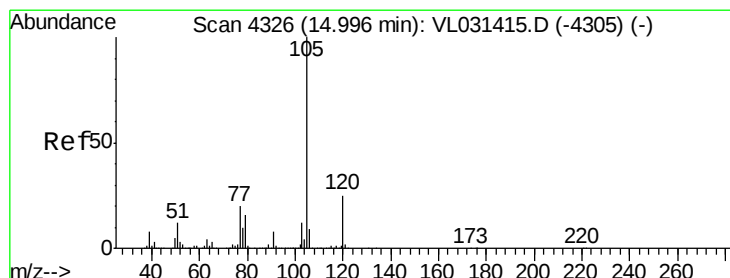
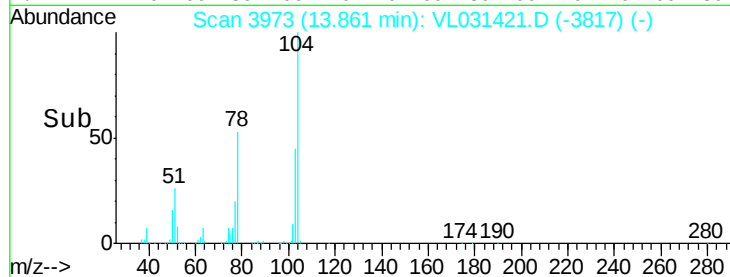
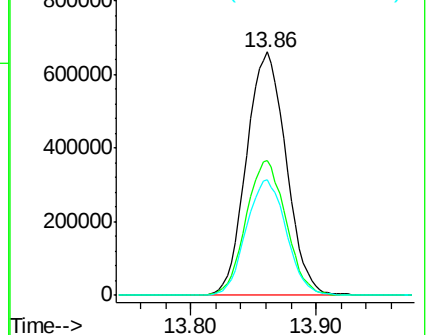
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 12.56 ppbv

RT: 15.00 min Scan# 4328

Delta R.T. 0.00 min

Lab File: VL031421.D

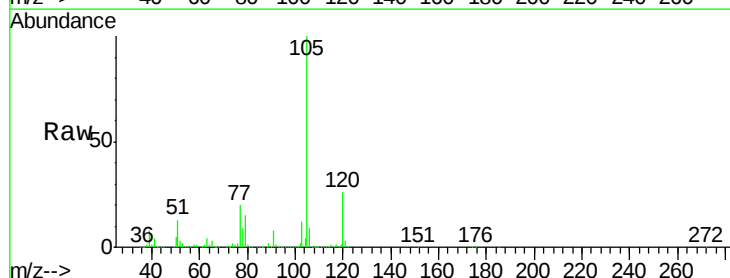
Acq: 22 Jan 2018 17:18

Tgt Ion:105 Resp: 6982331

Ion Ratio Lower Upper

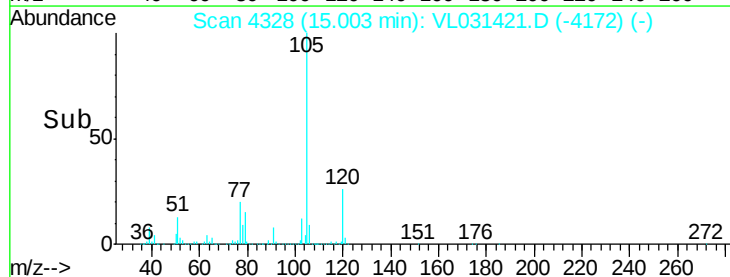
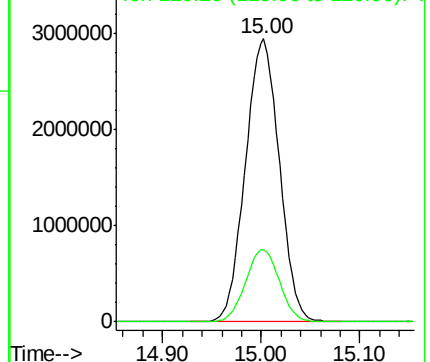
105 100

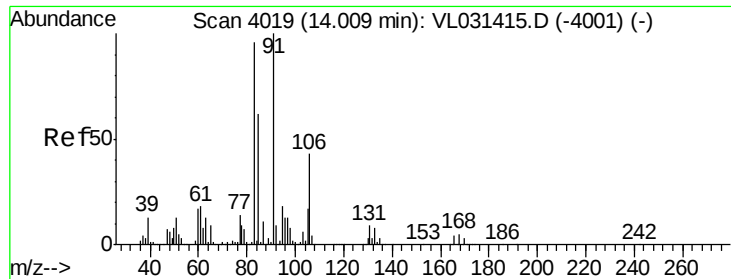
120 25.6 19.9 29.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





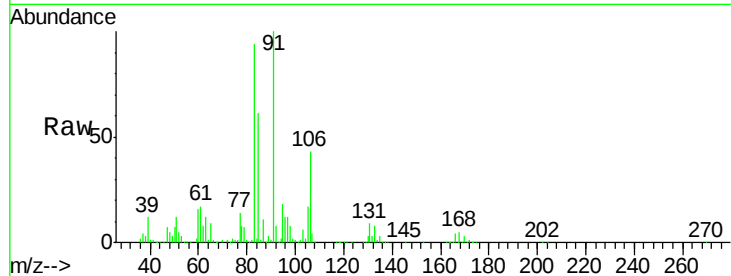
#63
 1,1,2,2-Tetrachloroethane
 Concen: 11.00 ppbv
 RT: 14.01 min Scan# 4020
 Delta R.T. 0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

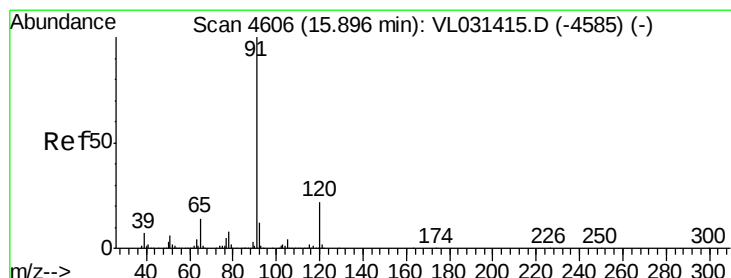
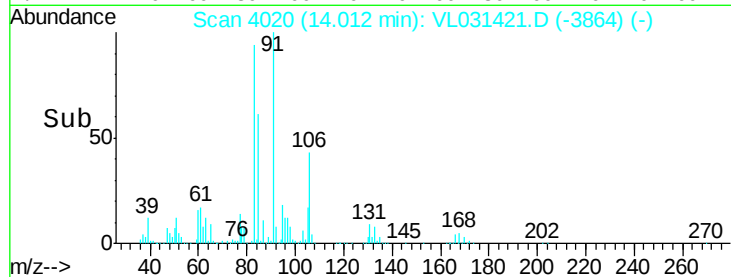
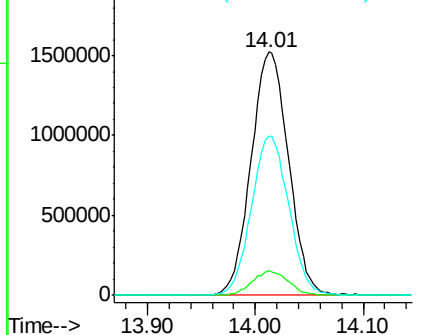
Tot Ion: 83 Resp: 3669046
 Ion Ratio Lower Upper
 83 100
 131 9.8 4.8 14.3
 85 65.5 32.4 97.0

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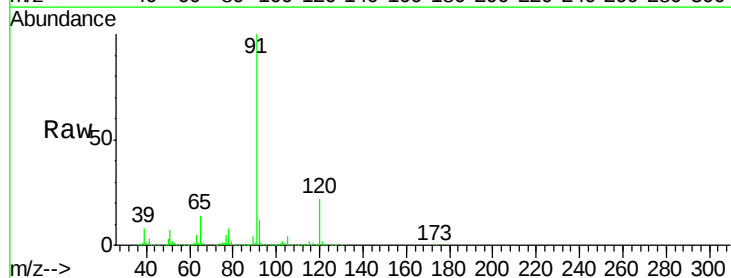


Abundance Ion 83.00 (82.70 to 83.70): VL0
 Ion 131.00 (130.70 to 131.70): V
 Ion 85.00 (84.70 to 85.70): VL0

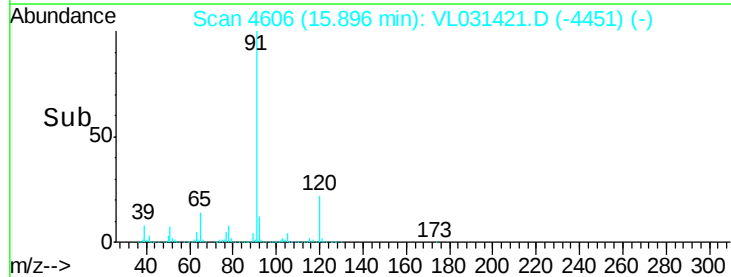
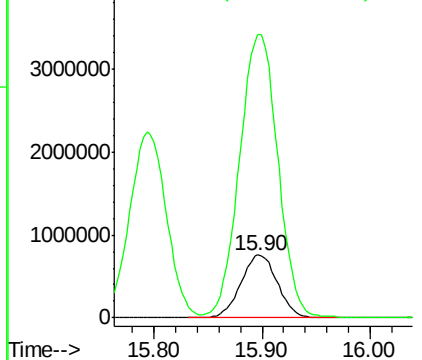


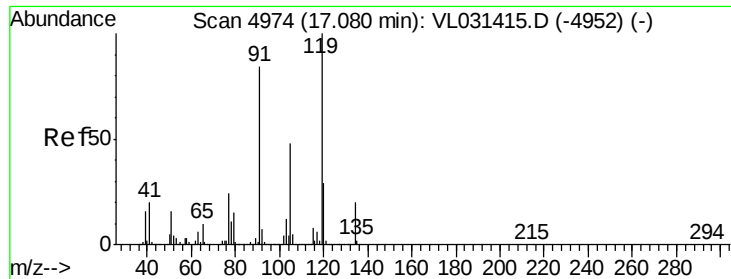
#64
 n-propylbenzene
 Concen: 12.79 ppbv
 RT: 15.90 min Scan# 4606
 Delta R.T. -0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Tgt Ion:120 Resp: 1786434
 Ion Ratio Lower Upper
 120 100
 91 474.3 389.8 584.6



Abundance Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 12.45 ppbv

RT: 17.09 min Scan# 4976

Delta R.T. 0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:119 Resp: 6153975

Ion Ratio Lower Upper

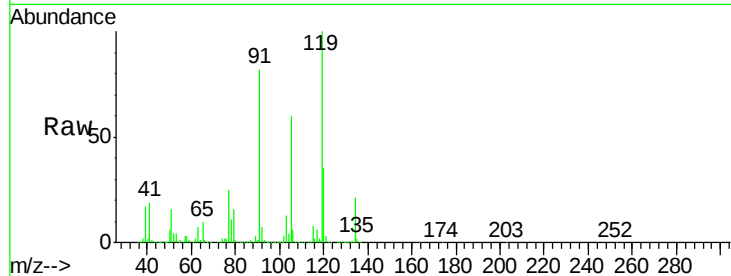
119 100

91 84.6 69.0 103.6

134 19.5 15.7 23.5

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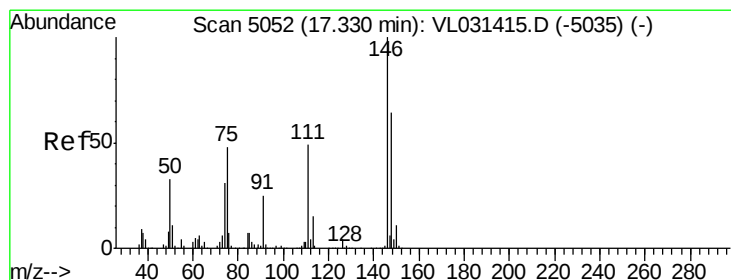
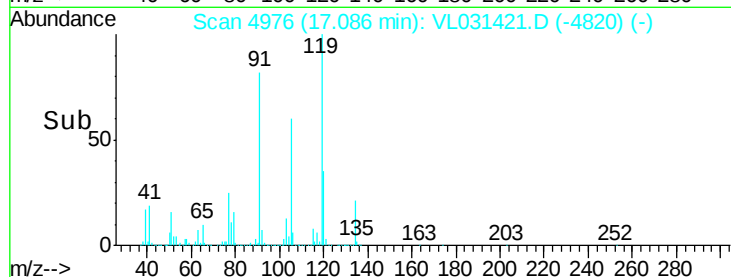
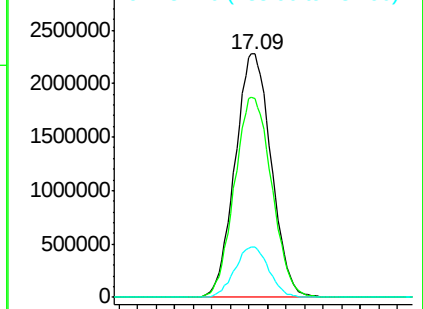
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 15.34 ppbv

RT: 17.33 min Scan# 5053

Delta R.T. 0.01 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

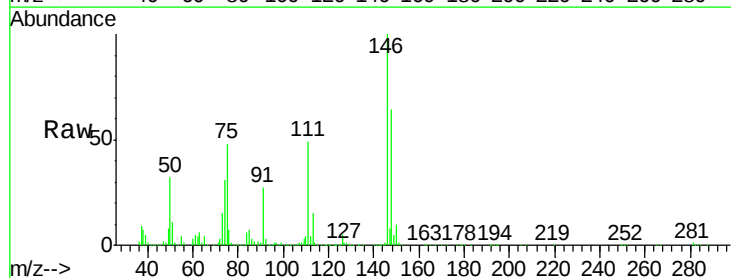
Tgt Ion: 91 Resp: 712009

Ion Ratio Lower Upper

91 100

126 17.4 13.8 20.8

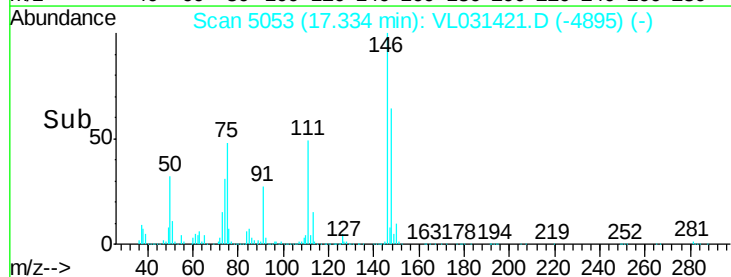
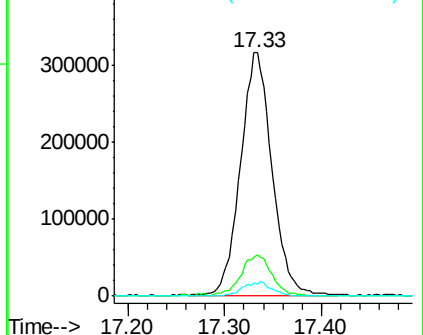
128 5.5 4.6 6.8

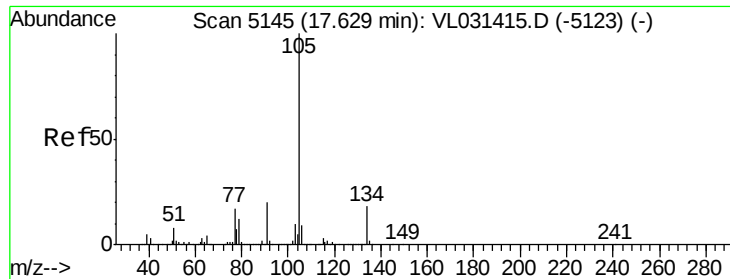


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 12.05 ppbv

RT: 17.63 min Scan# 5146

Delta R.T. -0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 8458817

Ion Ratio Lower Upper

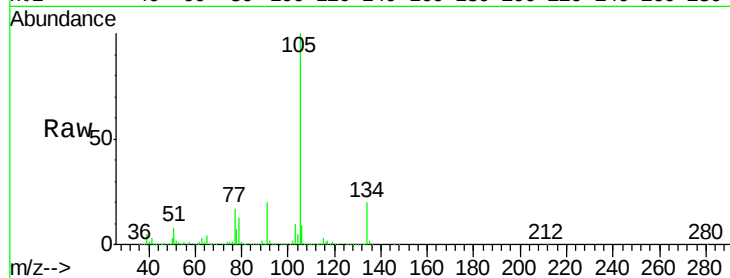
105 100

134 18.4 14.5 21.7

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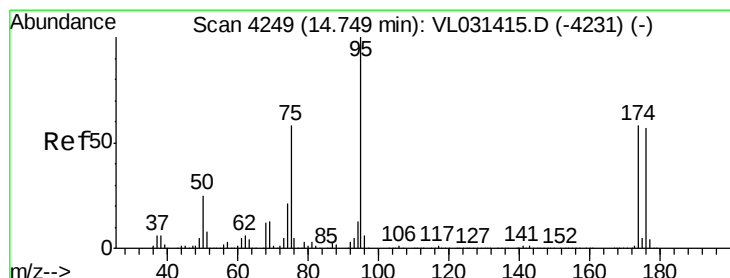
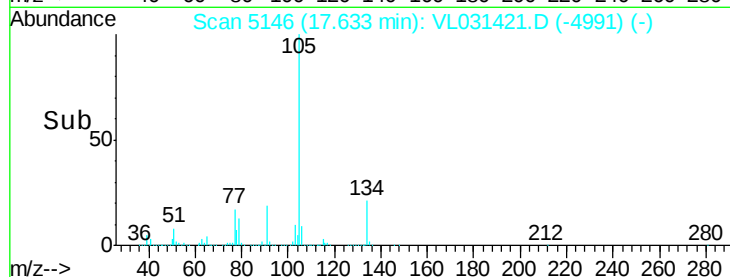
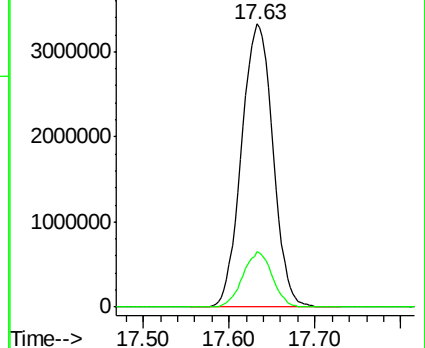
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.14 ppbv

RT: 14.75 min Scan# 4251

Delta R.T. 0.01 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

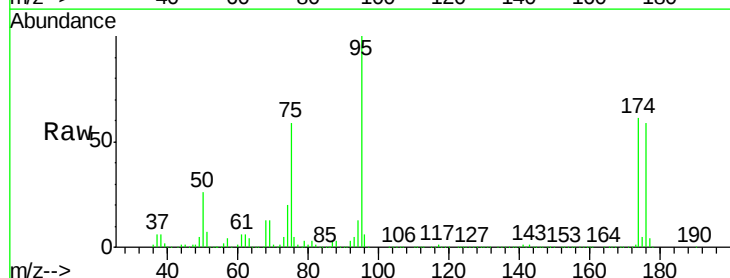
Tgt Ion: 95 Resp: 2568552

Ion Ratio Lower Upper

95 100

174 61.0 48.2 72.4

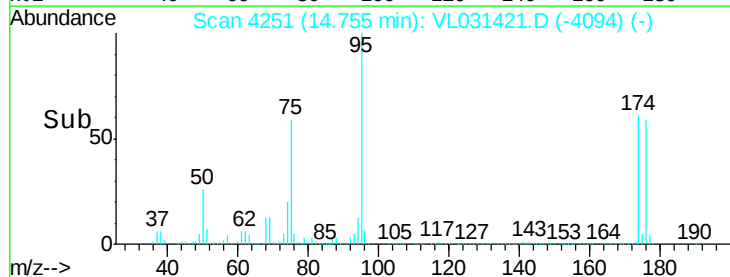
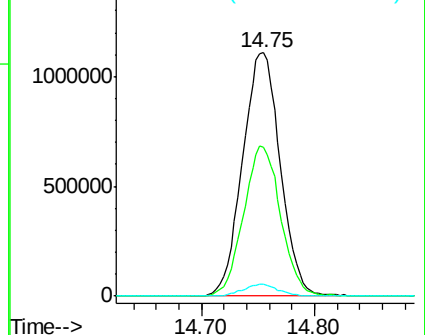
175 4.6 3.6 5.4

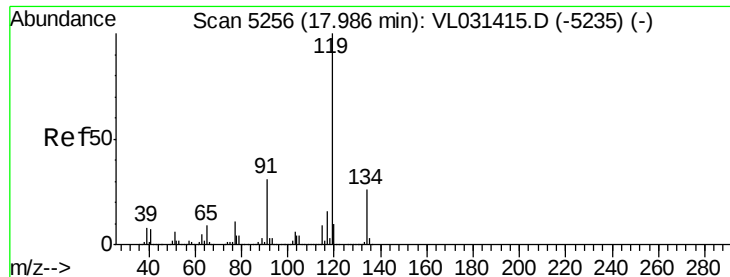


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





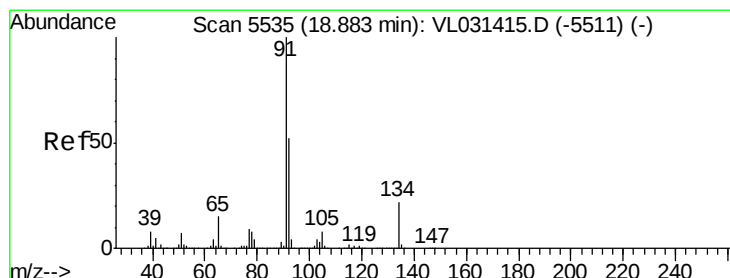
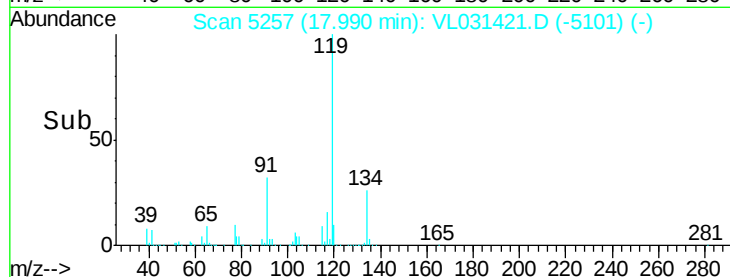
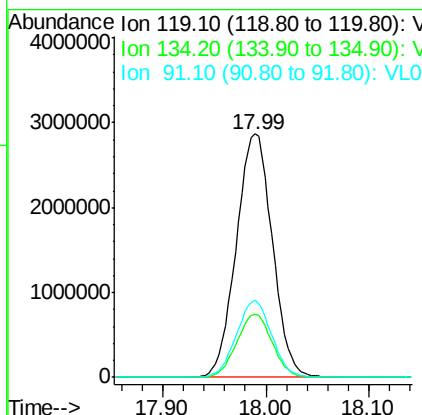
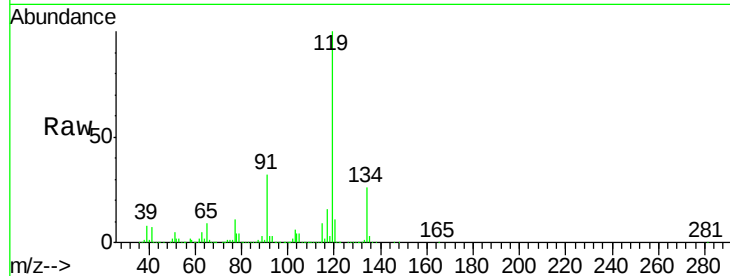
#69
 p-Isopropyltoluene
 Concen: 12.48 ppbv
 RT: 17.99 min Scan# 5257
 Delta R.T. 0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.2	30.4
91	30.9	25.0	37.4

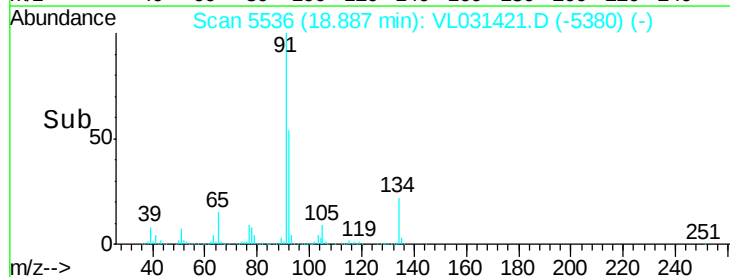
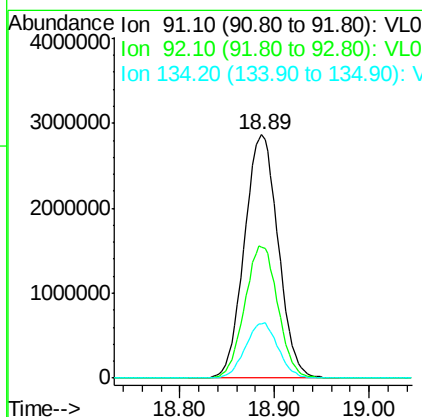
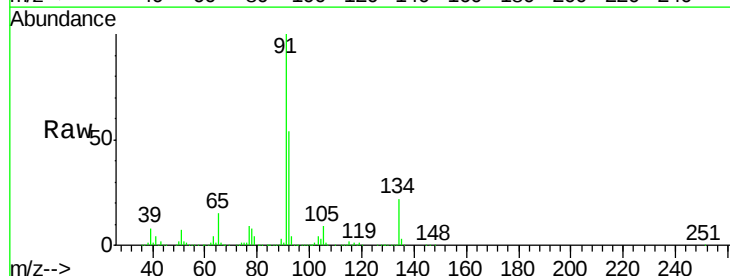
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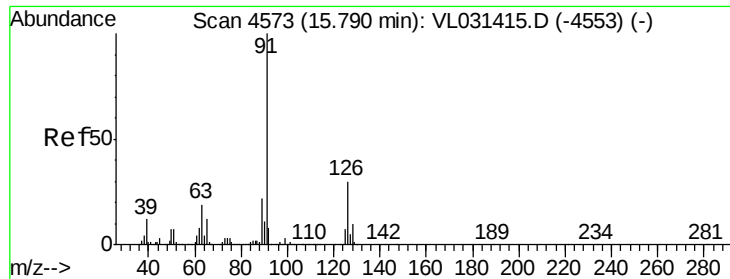
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#70
 n-Butylbenzene
 Concen: 12.15 ppbv
 RT: 18.89 min Scan# 5536
 Delta R.T. 0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.5	42.2	63.4
134	22.1	17.4	26.2





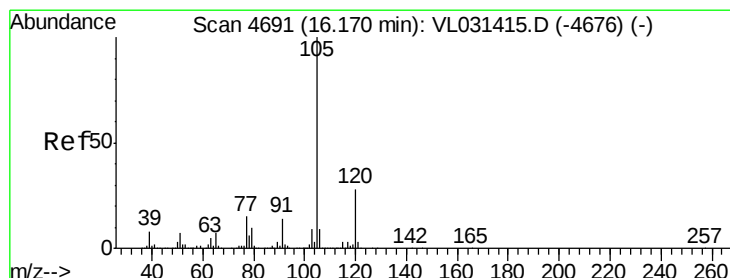
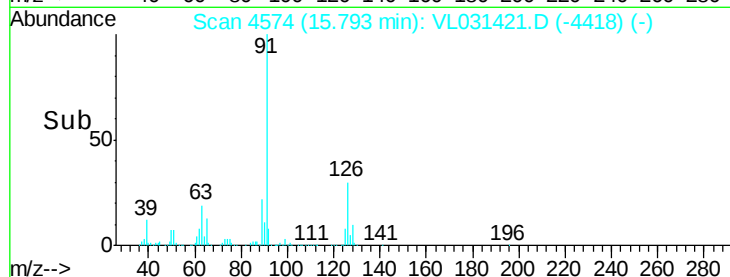
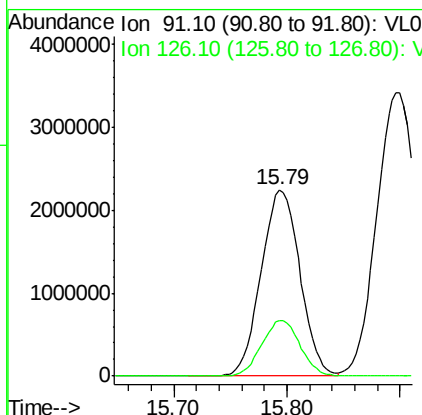
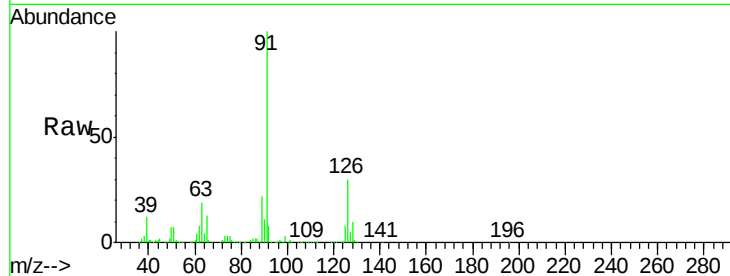
#71
 2-Chlorotoluene
 Concen: 12.51 ppbv
 RT: 15.79 min Scan# 4574
 Delta R.T. -0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 91 Resp: 5343134
 Ion Ratio Lower Upper
 91 100
 126 29.8 11.7 46.9

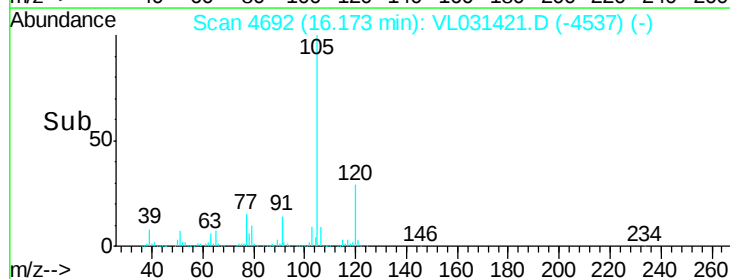
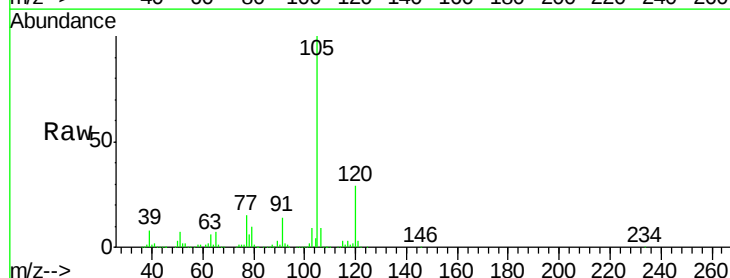
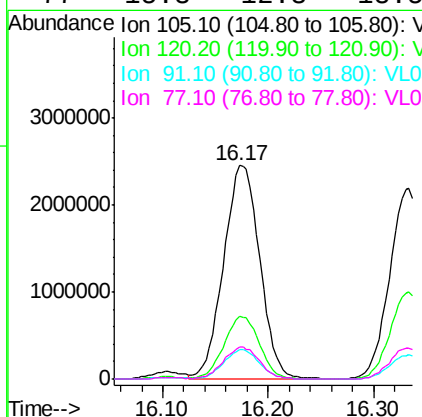
Manual Integrations
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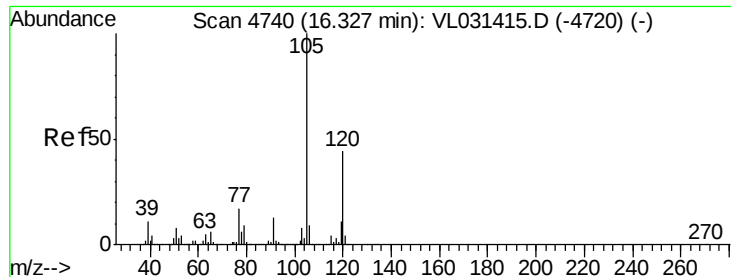
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#72
 4-Ethyltoluene
 Concen: 12.89 ppbv
 RT: 16.17 min Scan# 4692
 Delta R.T. -0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Tgt Ion: 105 Resp: 5823839
 Ion Ratio Lower Upper
 105 100
 120 28.8 23.0 34.6
 91 13.6 11.0 16.4
 77 15.3 12.3 18.5





#73

1,3,5-Trimethylbenzene

Concen: 12.92 ppbv

RT: 16.33 min Scan# 4742

Delta R.T. 0.01 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 5190032

Ion Ratio Lower Upper

105 100

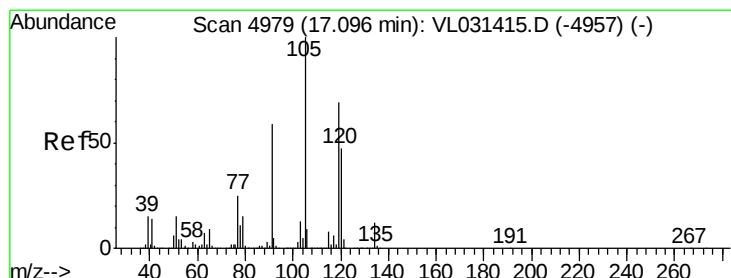
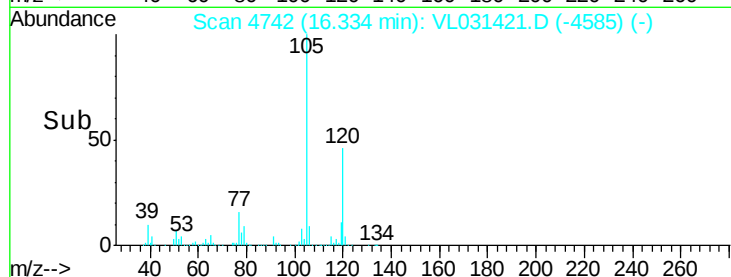
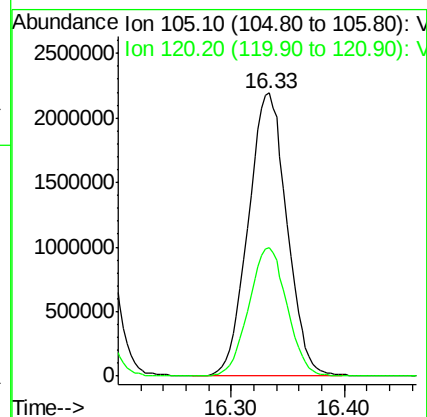
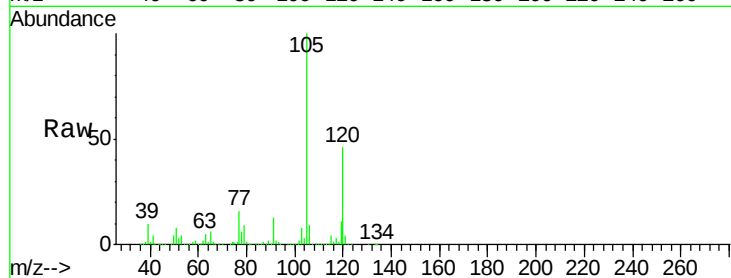
120 45.5 35.8 53.6

Manual Integrations

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#74

1,2,4-Trimethylbenzene

Concen: 12.62 ppbv

RT: 17.10 min Scan# 4981

Delta R.T. -0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

Tgt Ion:105 Resp: 5516912

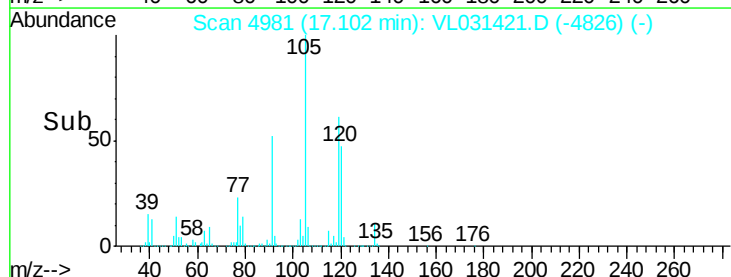
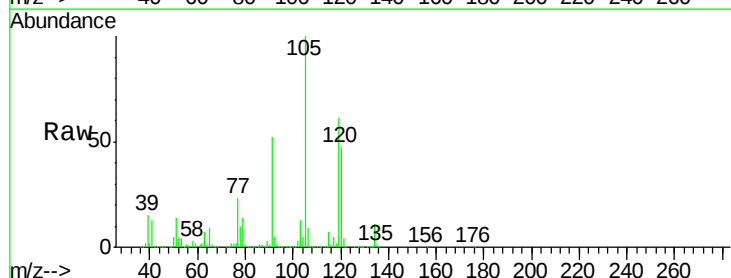
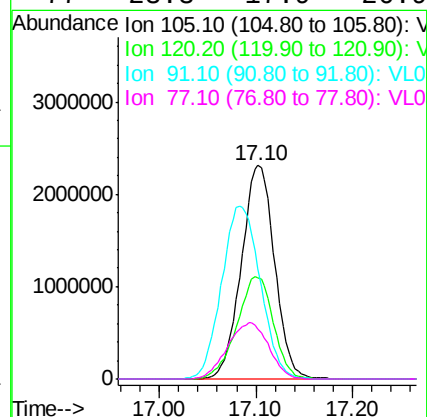
Ion Ratio Lower Upper

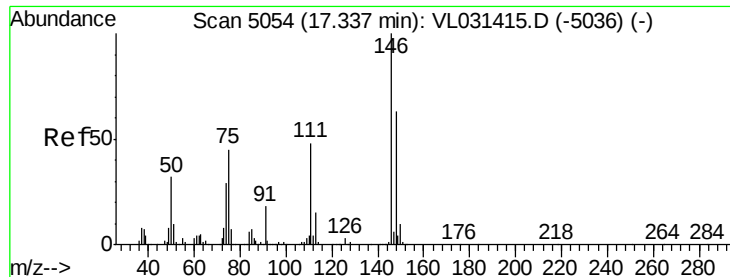
105 100

120 47.4 37.0 55.6

91 51.7 35.1 52.7

77 23.3 17.9 26.9





#75
 1,3-Dichlorobenzene
 Concen: 12.03 ppbv
 RT: 17.34 min Scan# 5056
 Delta R.T. 0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

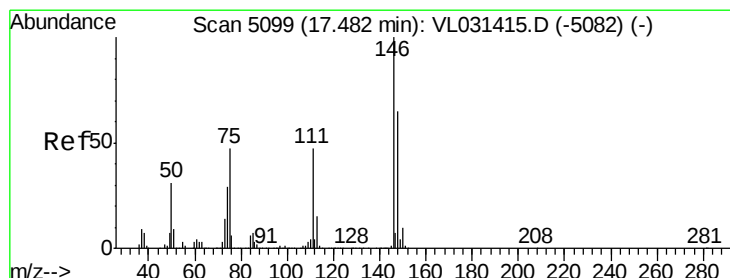
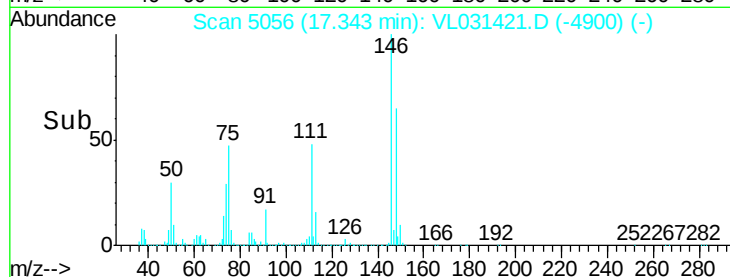
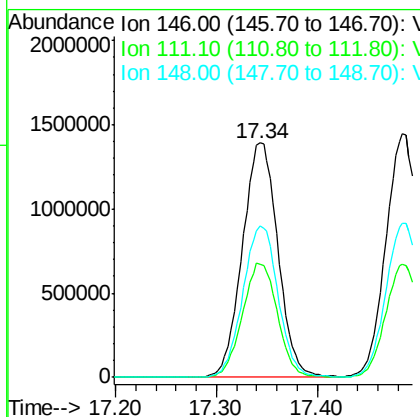
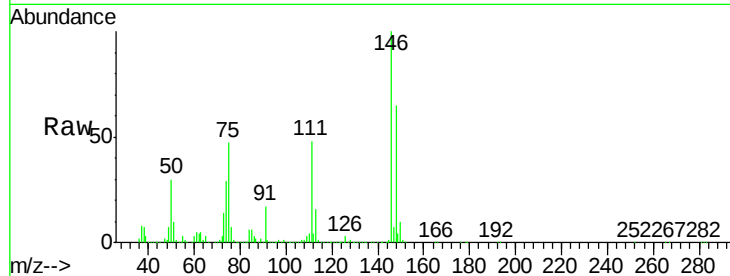
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:146 Resp: 3389436

Ion	Ratio	Lower	Upper
146	100		
111	48.4	24.2	72.6
148	64.4	32.1	96.3

Manual Integrations
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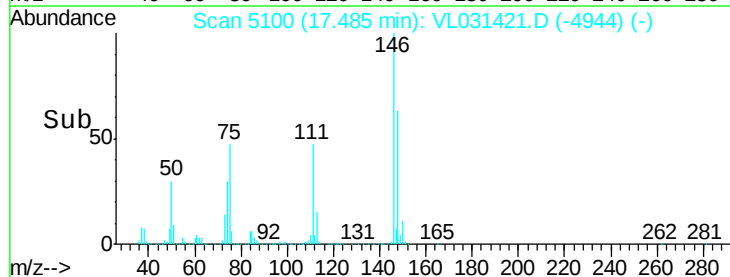
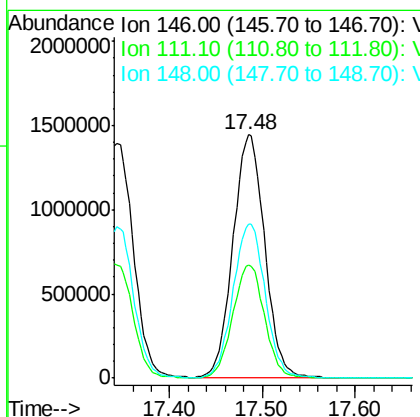
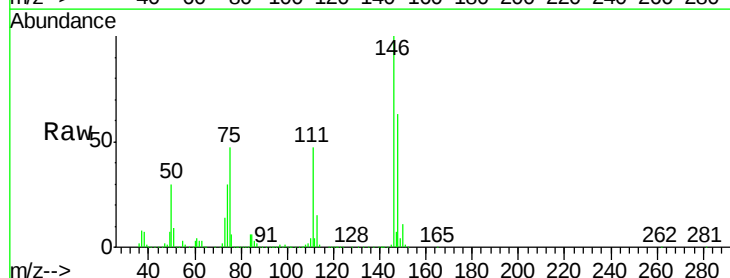
MMDadoda
 1/24/2018 5:10:15 PM

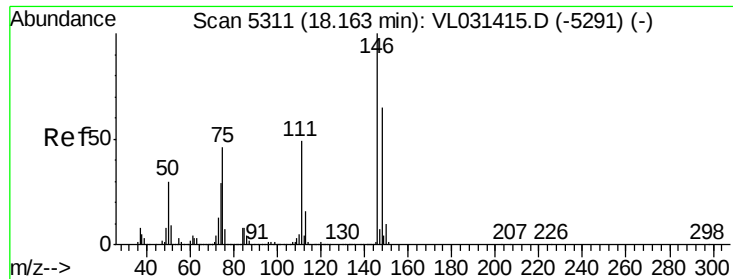


#76
 1,4-Dichlorobenzene
 Concen: 12.27 ppbv
 RT: 17.48 min Scan# 5100
 Delta R.T. -0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Tgt Ion:146 Resp: 3428084

Ion	Ratio	Lower	Upper
146	100		
111	46.6	23.3	69.9
148	64.4	32.4	97.2





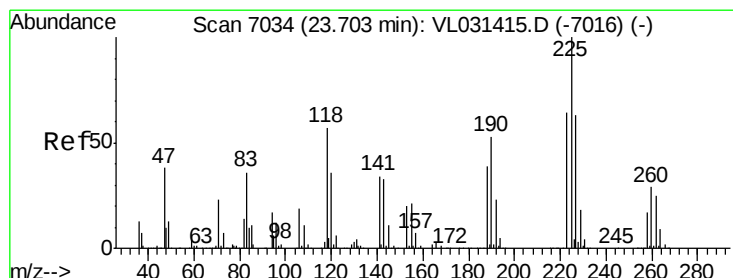
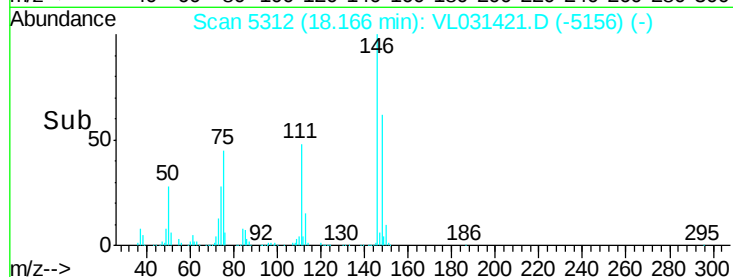
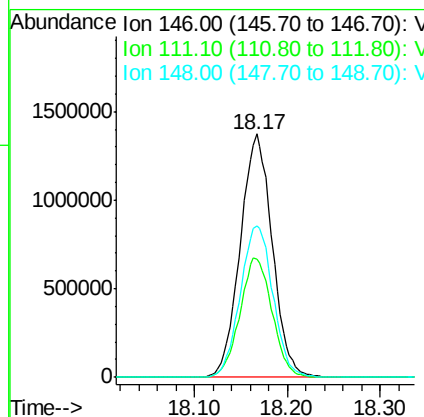
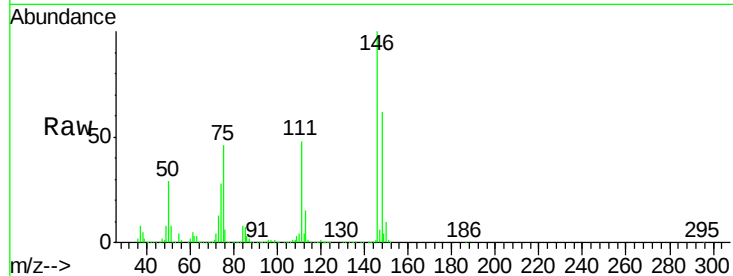
#77
 1,2-Dichlorobenzene
 Concen: 11.80 ppbv
 RT: 18.17 min Scan# 5312
 Delta R.T. 0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:146 Resp: 3286149
 Ion Ratio Lower Upper
 146 100
 111 49.4 24.6 74.0
 148 63.8 32.3 96.8

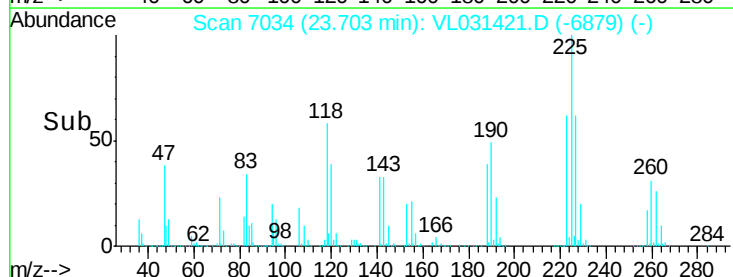
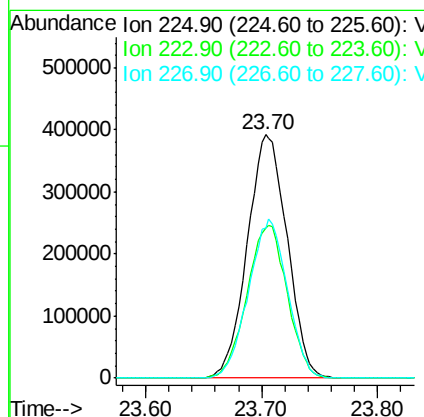
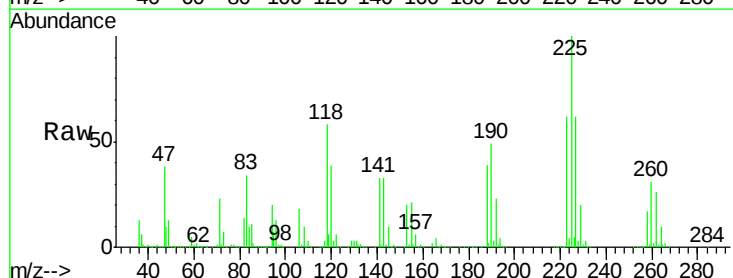
Manual Integrations
 APPROVED

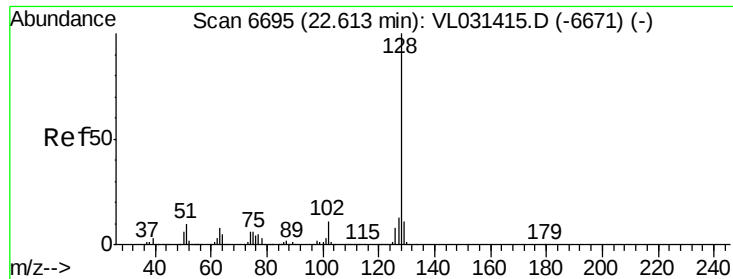
MMDadoda
 1/24/2018 5:10:15 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 10.48 ppbv
 RT: 23.70 min Scan# 7034
 Delta R.T. -0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Tgt Ion:225 Resp: 936911
 Ion Ratio Lower Upper
 225 100
 223 63.2 51.3 76.9
 227 63.9 50.7 76.1





#79

Naphthalene

Concen: 18.70 ppbv

RT: 22.61 min Scan# 6695

Delta R.T. -0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:128 Resp: 3982016

Ion Ratio Lower Upper

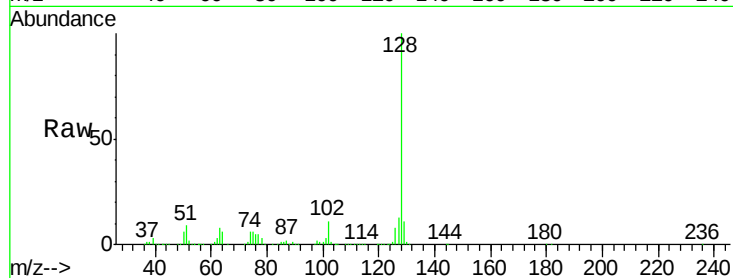
128 100

127 13.1 10.6 16.0

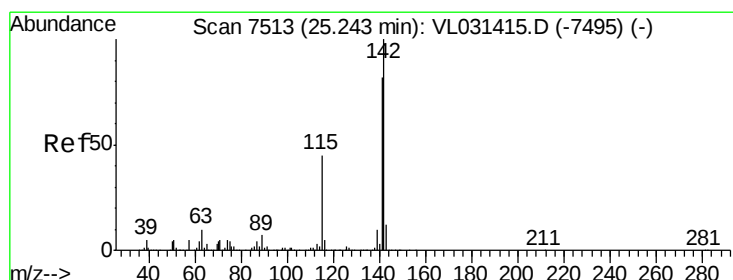
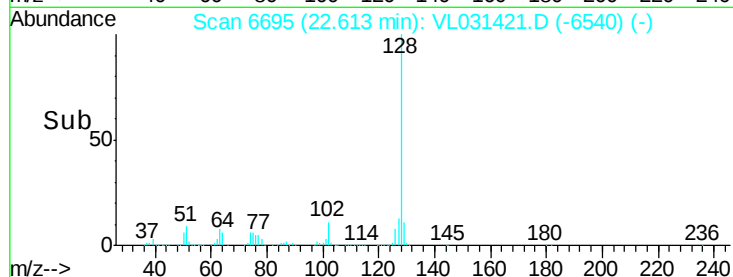
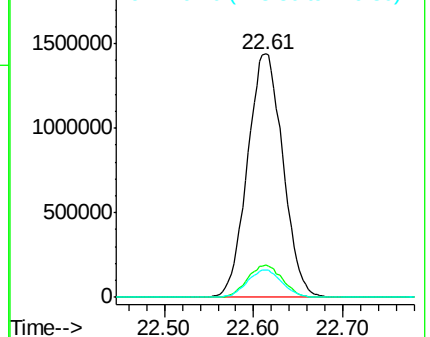
129 11.0 9.2 13.8

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



#80

Naphthalene, 2-methyl-

Concen: 27.60 ppbv

RT: 25.25 min Scan# 7514

Delta R.T. -0.00 min

Lab File: VL031421.D

Acq: 22 Jan 2018 17:18

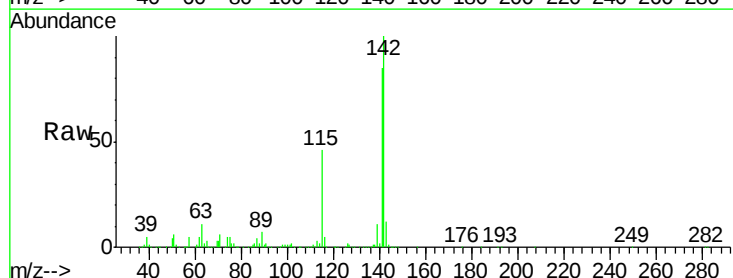
Tgt Ion:142 Resp: 1456410

Ion Ratio Lower Upper

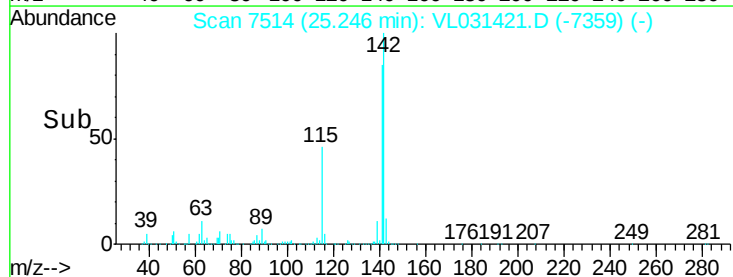
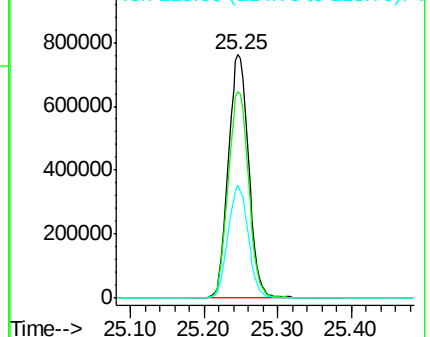
142 100

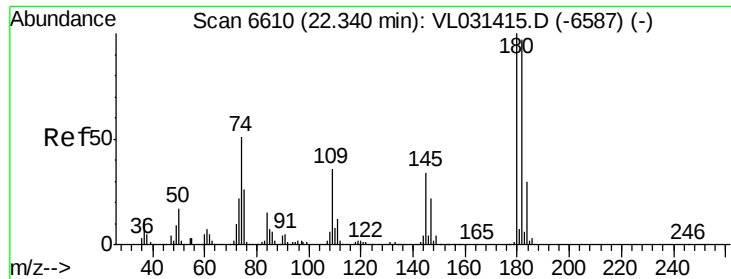
141 85.5 68.7 103.1

115 46.0 36.3 54.5



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 15.81 ppbv
 RT: 22.34 min Scan# 6611
 Delta R.T. 0.00 min
 Lab File: VL031421.D
 Acq: 22 Jan 2018 17:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.2	114.4
184	30.0	24.2	36.4

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:15 PM

