

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\
 Data File : VL032315.D
 Acq On : 27 Jul 2018 4:36
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 7/30/2018 11:43:03 AM

Quant Time: Jul 27 06:49:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 2018
 QLast Update : Fri Jul 27 05:29:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1997261	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	4201344	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	5111023m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.66	95	4038924	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.12	85	2344412	7.49	ppbv	97
3) Chlorodifluoromethane	3.06	51	2769442	12.42	ppbv	99
4) Chloromethane	3.22	50	1740039	13.19	ppbv	100
5) Vinyl Chloride	3.34	62	1613059	12.92	ppbv	97
6) Bromomethane	3.57	94	857905	12.69	ppbv	96
7) Chloroethane	3.65	64	566409	12.85	ppbv	100
8) Dichlorotetrafluoroethane	3.27	85	3140325	11.46	ppbv	99
9) Propene	3.08	41	1396539	14.29	ppbv	99
10) Heptane	8.33	43	4820114	15.39	ppbv	98
11) Trichlorofluoromethane	4.06	101	3063597	11.70	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.62	101	2151930	12.74	ppbv	99
13) Ethanol	3.70	45	266718	9.49	ppbv	98
14) Bromoethene	3.84	108	989601	13.01	ppbv	100
15) Acetone	3.96	43	2487654	12.07	ppbv	100
16) 1,3-Butadiene	3.41	39	1392068	13.21	ppbv	98
17) tert-Butyl alcohol	4.42	59	833786	12.56	ppbv	100
18) 1,1-Dichloroethene	4.41	96	1062070	13.40	ppbv	95
19) Isopropyl Alcohol	4.08	45	1629578	11.51	ppbv	100
20) Methylene Chloride	4.47	84	991373	12.24	ppbv	96
21) Allyl Chloride	4.54	41	1958349	14.16	ppbv	100
22) trans-1,2-Dichloroethene	5.03	96	1005115	12.33	ppbv	99
23) Vinyl Acetate	5.22	43	5113318	13.73	ppbv	99
24) 1,1-Dichloroethane	5.16	63	3315531	12.30	ppbv	99
25) Ethyl Acetate	5.84	43	5849964	12.90	ppbv	99
26) Hexane	5.85	57	2670145	12.83	ppbv	99
27) Carbon Disulfide	4.68	76	2719062	14.73	ppbv	100
28) Methyl tert-Butyl Ether	5.18	73	3904109	12.82	ppbv	100
29) Chloroform	5.93	83	3846397	12.64	ppbv	99
30) Cyclohexane	7.33	84	2230993	12.88	ppbv	99
31) cis-1,2-Dichloroethene	5.71	61	2752997	13.76	ppbv	98
32) 1,1,1-Trichloroethane	6.70	97	3743737	12.14	ppbv	100
34) 2-Butanone	5.40	43	4152628	14.29	ppbv	100
35) Carbon Tetrachloride	7.22	117	3612372	12.57	ppbv	99
36) Benzene	7.09	78	5423692	13.06	ppbv	99
37) 1,2-Dichloroethane	6.49	62	3121160	12.87	ppbv	100
38) Trichloroethene	8.04	130	2198522	15.64	ppbv	96
39) 1,2-Dichloropropane	7.82	63	2786653	16.27	ppbv	98
40) 1,4-Dioxane	8.03	88	694137	13.78	ppbv	60
41) Tetrahydrofuran	6.22	42	2559142	15.27	ppbv	100
42) Bromodichloromethane	8.00	83	5173315	16.11	ppbv	100
43) Methyl Methacrylate	8.22	69	2952826	17.32	ppbv	99

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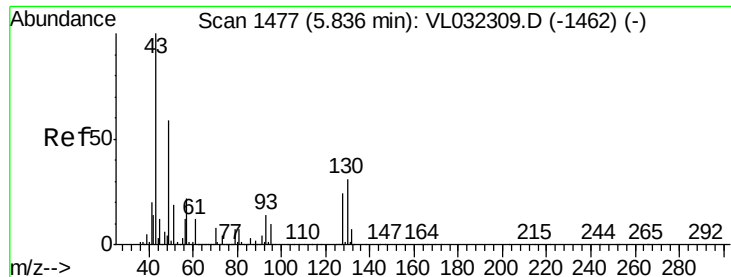
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	11306406	15.37	ppbv	98
45) t-1,3-Dichloropropene	9.50	75	3719636	18.00	ppbv	99
46) cis-1,3-Dichloropropene	8.92	75	4308047	16.81	ppbv	100
47) 1,1,2-Trichloroethane	9.70	97	2645915	14.83	ppbv	98
48) Dibromochloromethane	10.55	129	4129258	15.74	ppbv	100
49) Bromoform	13.30	173	3372122	14.75	ppbv	100
50) 4-Methyl-2-Pentanone	8.95	43	7379919	15.39	ppbv	100
51) 2-Hexanone	10.36	43	6131564	16.24	ppbv	99
52) Tetrachloroethene	11.46	164	1940684	13.55	ppbv	98
53) Toluene	10.03	91	6228405	12.38	ppbv	100
54) 1,2-Dibromoethane	10.85	107	3960156	14.96	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.37	131	2833199	12.51	ppbv	94
57) Chlorobenzene	12.39	112	5254580	12.55	ppbv	98
58) Ethyl Benzene	12.95	91	9727577	13.73	ppbv	98
59) m/p-Xylene	13.24	91	15418972m	25.23	ppbv	
60) o-Xylene	13.94	91	7516141	12.34	ppbv	99
61) Styrene	13.77	104	6380607	14.26	ppbv	100
62) Isopropylbenzene	14.92	105	10671855	12.38	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.93	83	5639840	10.84	ppbv	100
64) n-propylbenzene	15.81	120	2882548	13.03	ppbv	94
65) tert-Butylbenzene	17.00	119	8630633	11.73	ppbv	100
66) Benzyl Chloride	17.25	91	6385096	15.49	ppbv	99
67) sec-Butylbenzene	17.55	105	12967723	11.79	ppbv	99
69) p-Isopropyltoluene	17.91	119	10437290	12.26	ppbv	99
70) n-Butylbenzene	18.81	91	11714891	12.33	ppbv	99
71) 2-Chlorotoluene	15.71	91	8671900	12.59	ppbv	99
72) 4-Ethyltoluene	16.09	105	9053648	13.06	ppbv	99
73) 1,3,5-Trimethylbenzene	16.25	105	8550200	12.61	ppbv	99
74) 1,2,4-Trimethylbenzene	17.02	105	8210972	11.52	ppbv	94
75) 1,3-Dichlorobenzene	17.26	146	4620377	11.62	ppbv	99
76) 1,4-Dichlorobenzene	17.40	146	4859745	12.34	ppbv	100
77) 1,2-Dichlorobenzene	18.08	146	4818232	12.51	ppbv	99
78) Hexachloro-1,3-Butadiene	23.63	225	1502265	11.87	ppbv	99
79) Naphthalene	22.52	128	8400924	13.89	ppbv	99
80) Naphthalene, 2-methyl-	25.18	142	4246976	16.53	ppbv	100
81) 1,2,4-Trichlorobenzene	22.24	180	3966046	13.40	ppbv	99

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.84 min Scan# 1477

Delta R.T. -0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1997261

Ion Ratio Lower Upper

49 100

128 39.9 20.2 60.6

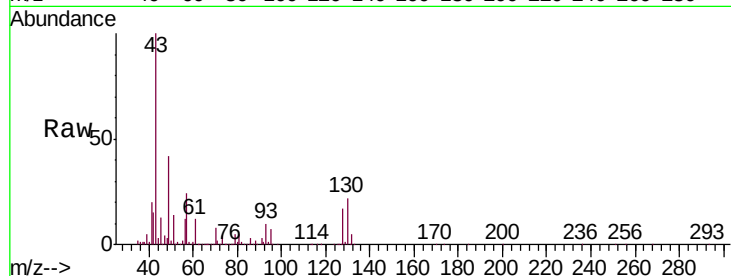
130 50.5 25.8 77.3

Manual Integrations

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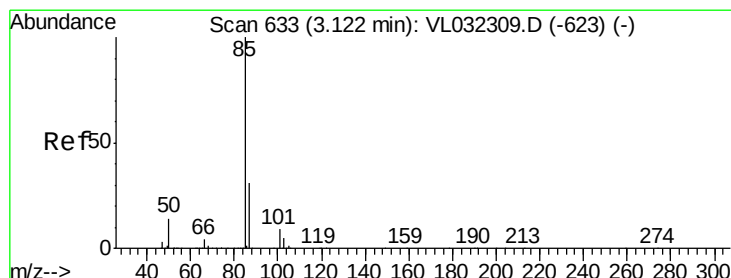
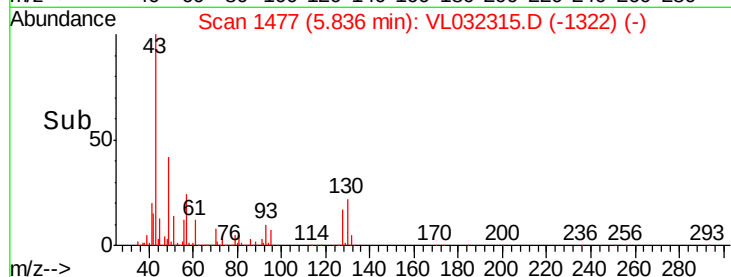
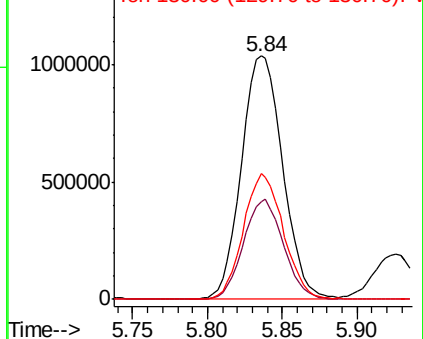
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 7.49 ppbv

RT: 3.12 min Scan# 633

Delta R.T. -0.00 min

Lab File: VL032315.D

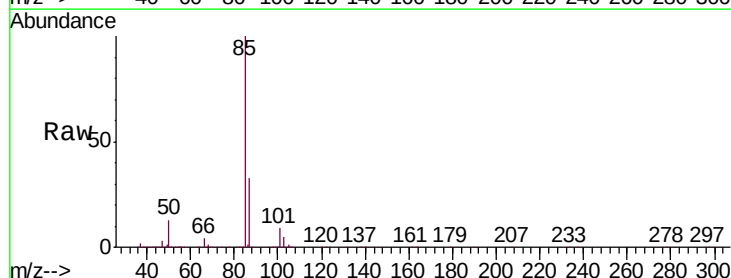
Acq: 27 Jul 2018 4:36

Tgt Ion: 85 Resp: 2344412

Ion Ratio Lower Upper

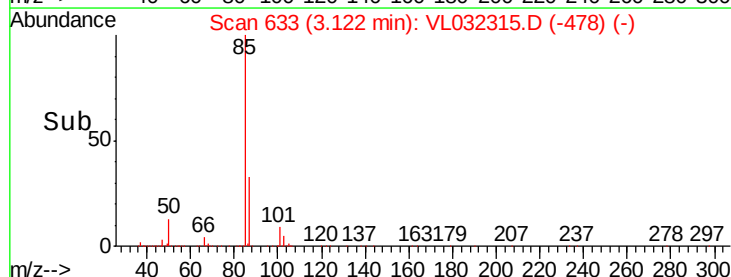
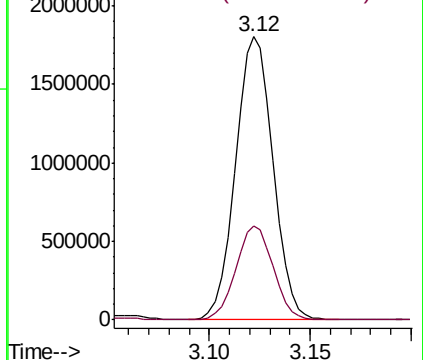
85 100

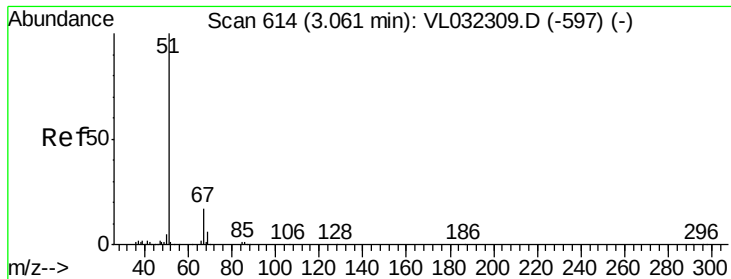
87 33.1 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 12.42 ppbv

RT: 3.06 min Scan# 613

Delta R.T. -0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 2769442

Ion Ratio Lower Upper

51 100

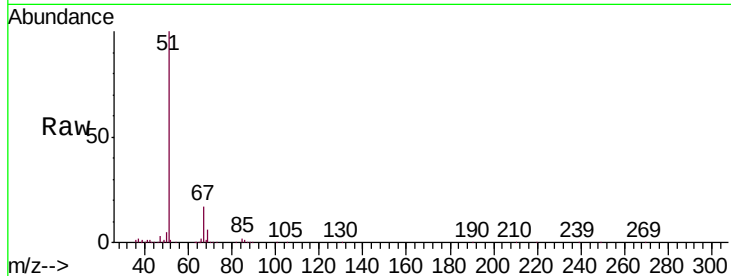
67 17.2 13.5 20.3

Manual Integrations

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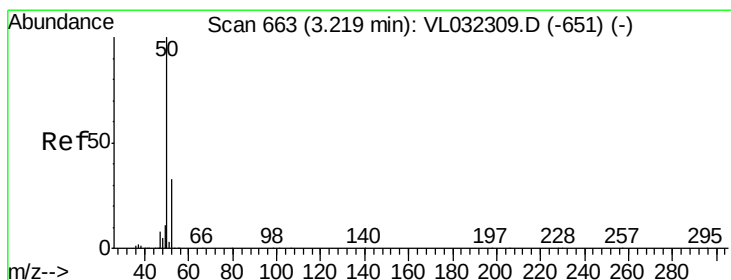
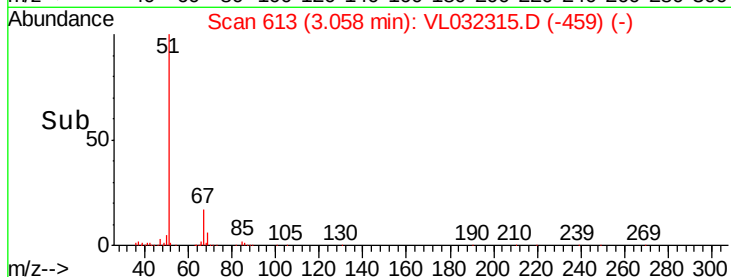
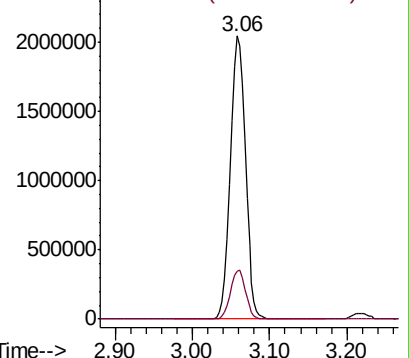
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 13.19 ppbv

RT: 3.22 min Scan# 663

Delta R.T. -0.00 min

Lab File: VL032315.D

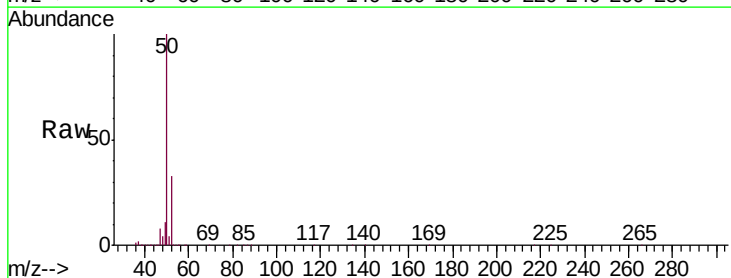
Acq: 27 Jul 2018 4:36

Tgt Ion: 50 Resp: 1740039

Ion Ratio Lower Upper

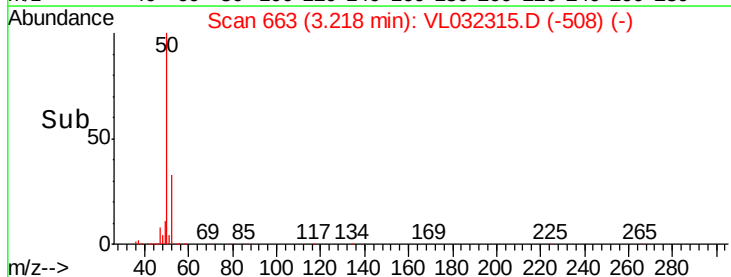
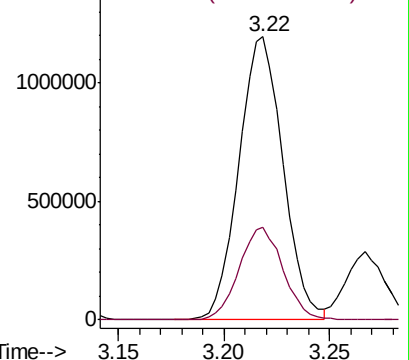
50 100

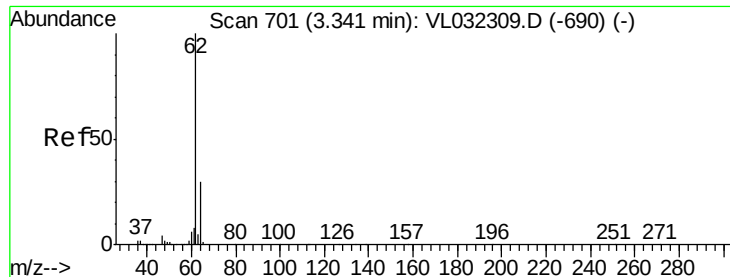
52 32.5 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 12.92 ppbv

RT: 3.34 min Scan# 700

Delta R.T. -0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1613059

Ion Ratio Lower Upper

62 100

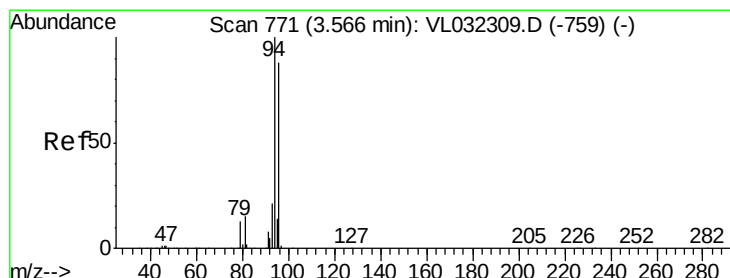
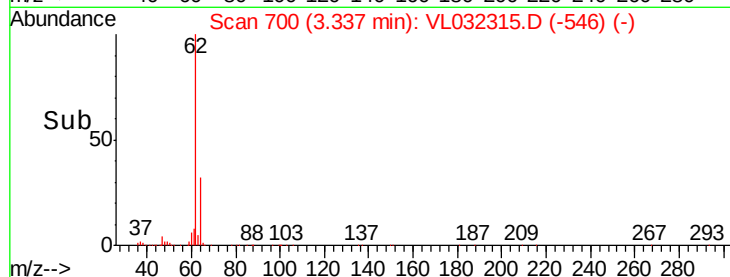
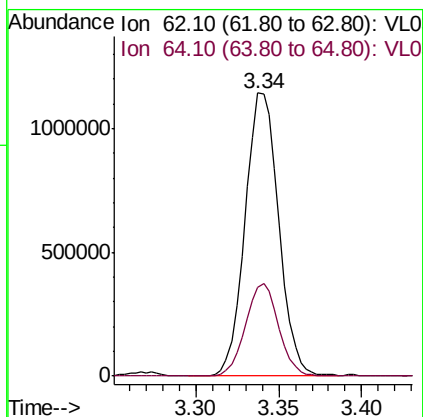
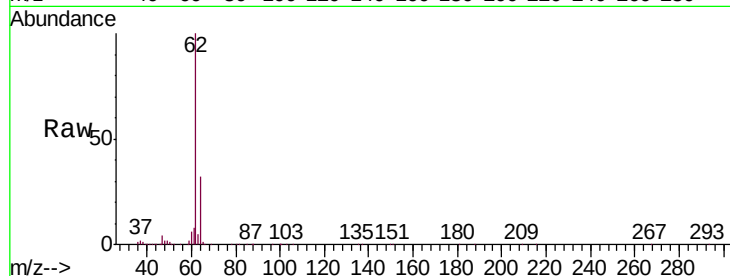
64 31.5 24.1 36.1

Manual Integrations

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#6

Bromomethane

Concen: 12.69 ppbv

RT: 3.57 min Scan# 771

Delta R.T. -0.00 min

Lab File: VL032315.D

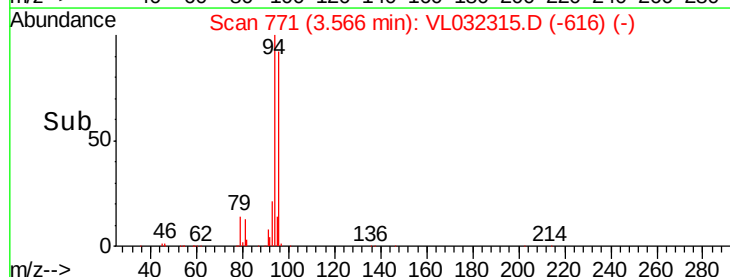
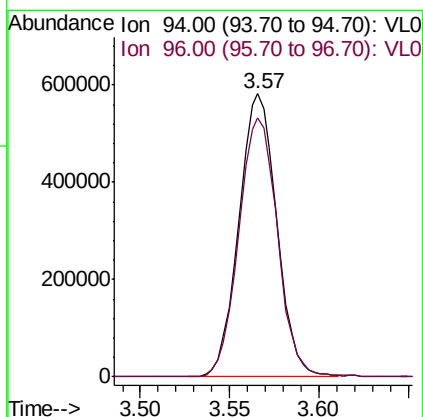
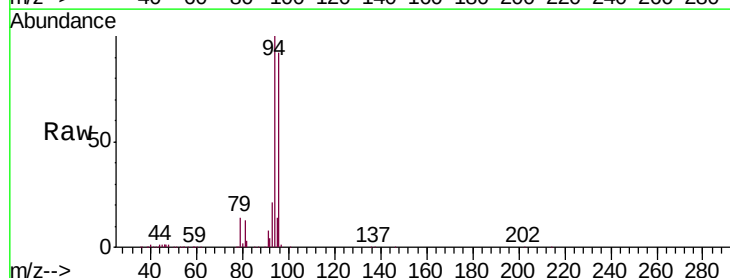
Acq: 27 Jul 2018 4:36

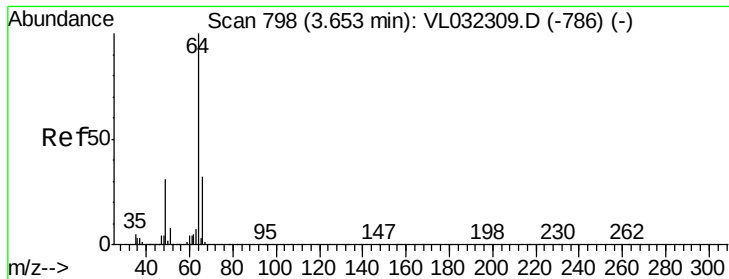
Tgt Ion: 94 Resp: 857905

Ion Ratio Lower Upper

94 100

96 91.6 70.2 105.4





#7

Chloroethane

Concen: 12.85 ppbv

RT: 3.65 min Scan# 798

Delta R.T. -0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 566409

Ion Ratio Lower Upper

64 100

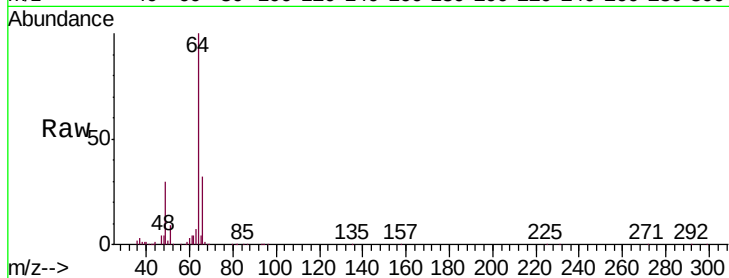
66 32.0 25.7 38.5

Manual Integrations

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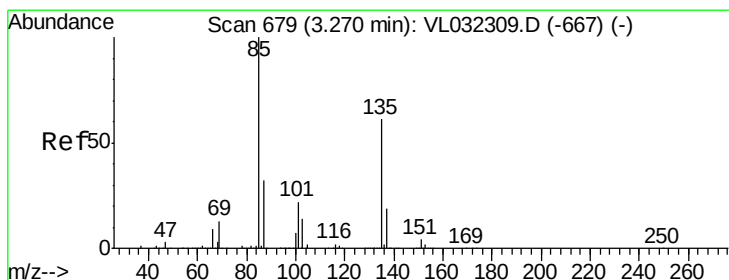
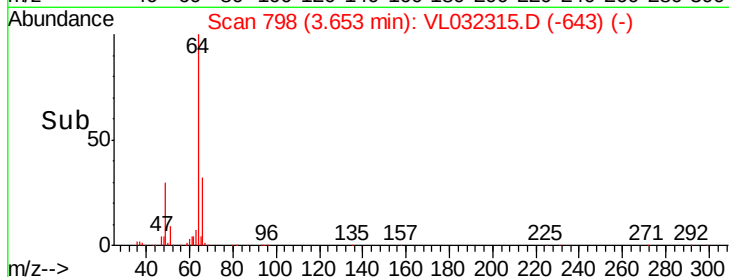
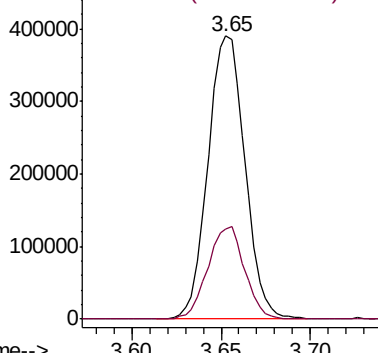
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 11.46 ppbv

RT: 3.27 min Scan# 678

Delta R.T. -0.00 min

Lab File: VL032315.D

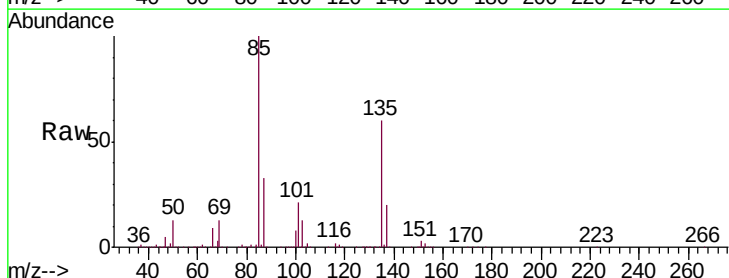
Acq: 27 Jul 2018 4:36

Tgt Ion: 85 Resp: 3140325

Ion Ratio Lower Upper

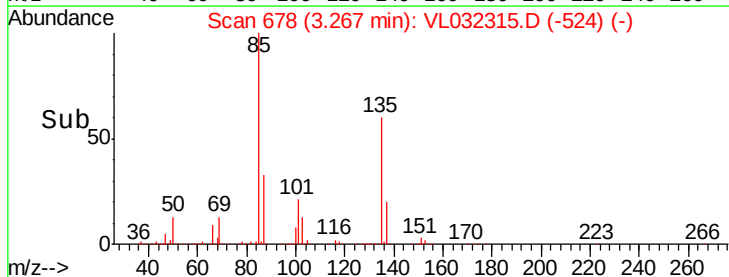
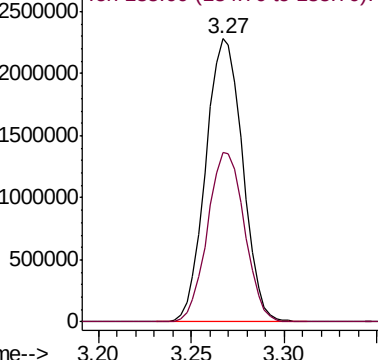
85 100

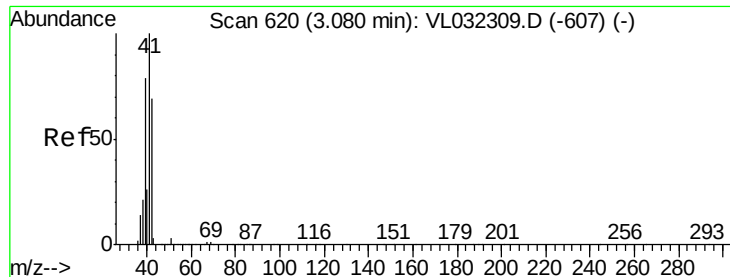
135 60.3 48.7 73.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 14.29 ppbv

RT: 3.08 min Scan# 620

Delta R.T. -0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 1396539

Ion Ratio Lower Upper

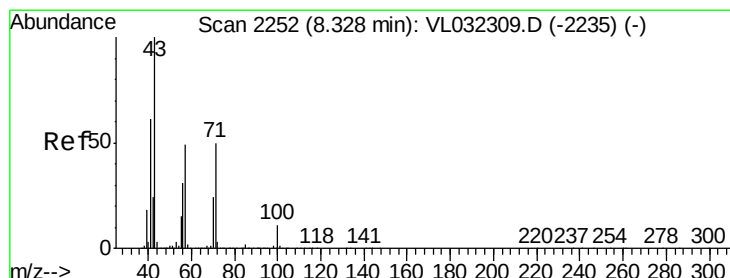
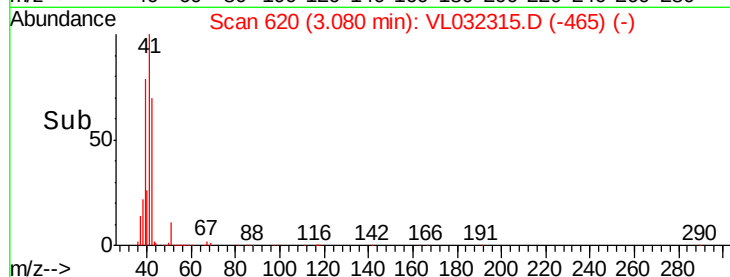
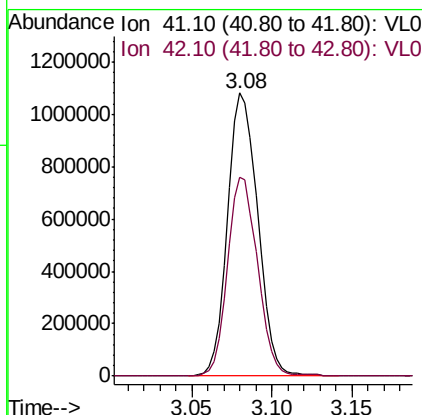
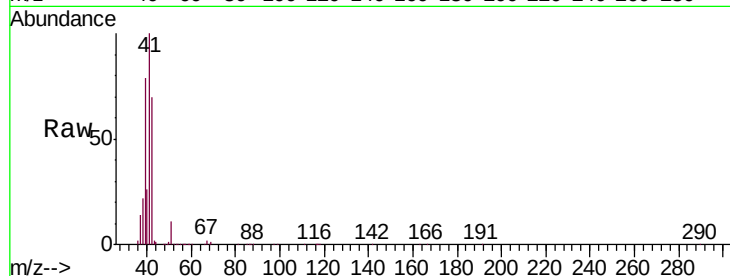
41 100

42 70.0 56.8 85.2

Manual Integrations
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#10

Heptane

Concen: 15.39 ppbv

RT: 8.33 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VL032315.D

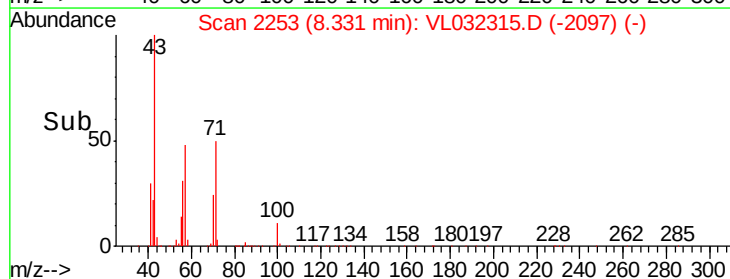
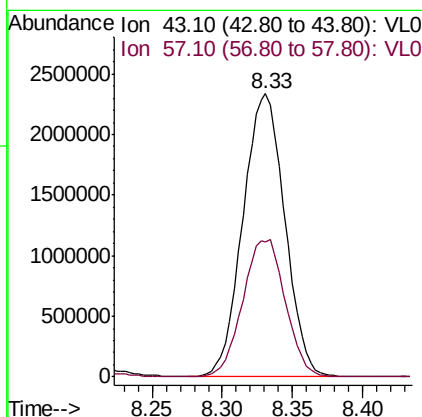
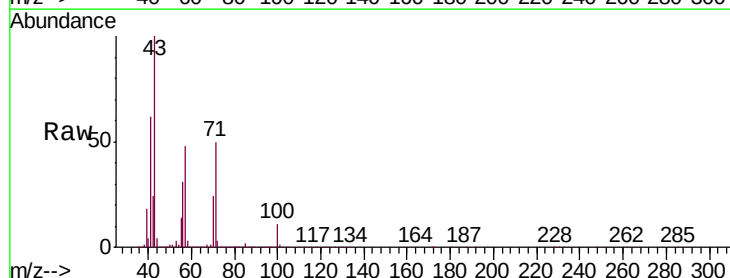
Acq: 27 Jul 2018 4:36

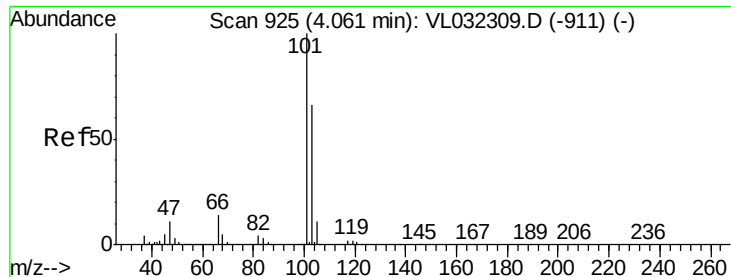
Tgt Ion: 43 Resp: 4820114

Ion Ratio Lower Upper

43 100

57 49.7 39.0 58.4





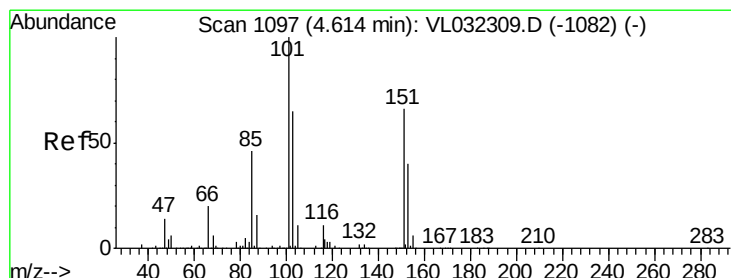
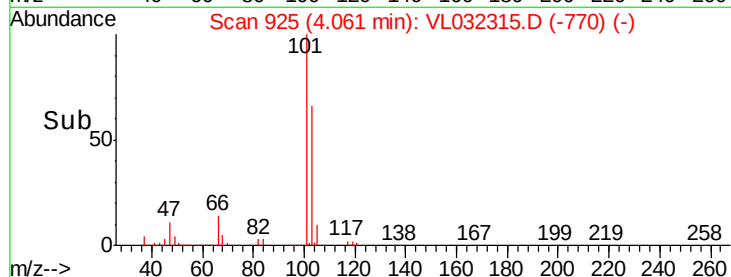
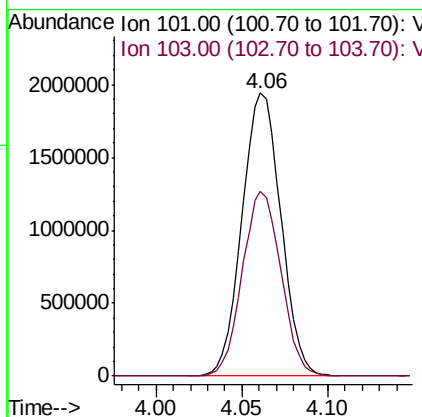
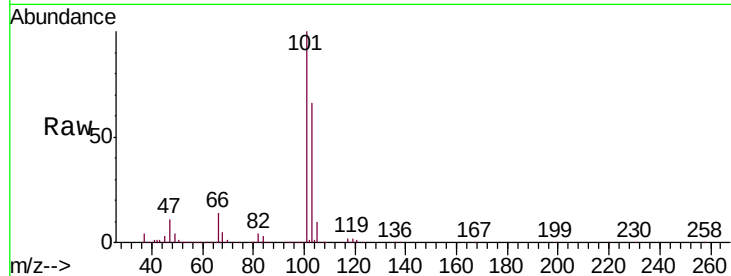
#11
 Trichlorofluoromethane
 Concen: 11.70 ppbv
 RT: 4.06 min Scan# 925
 Delta R.T. -0.00 min
 Lab File: VL032315.D
 Acq: 27 Jul 2018 4:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 3063597
 Ion Ratio Lower Upper
 101 100
 103 65.5 52.6 78.8

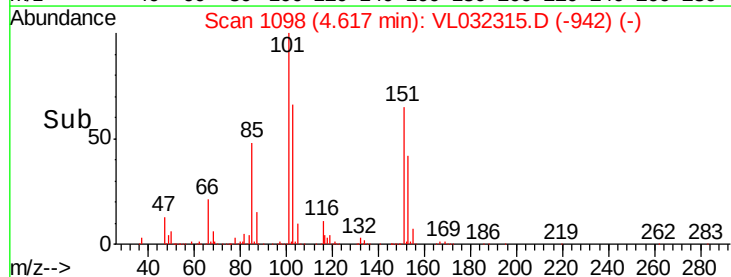
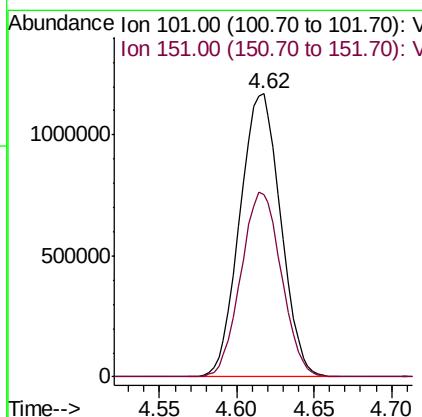
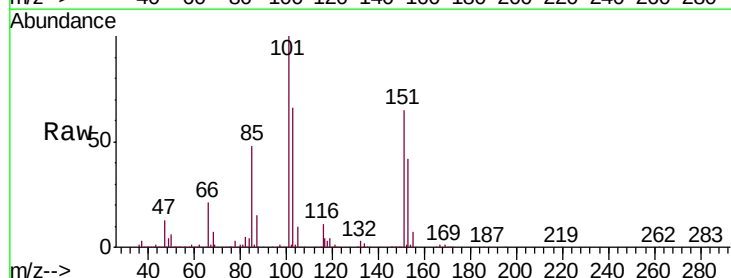
Manual Integrations
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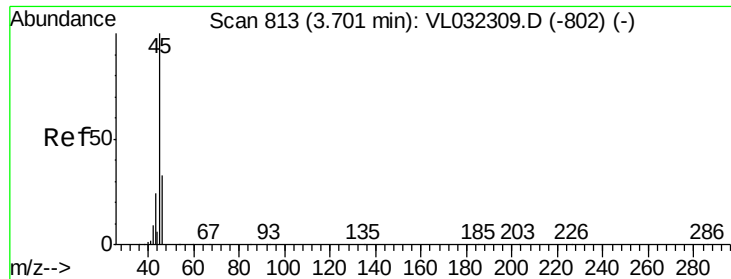
MMDadoda
 7/30/2018 11:43:03 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 12.74 ppbv
 RT: 4.62 min Scan# 1098
 Delta R.T. 0.00 min
 Lab File: VL032315.D
 Acq: 27 Jul 2018 4:36

Tgt Ion:101 Resp: 2151930
 Ion Ratio Lower Upper
 101 100
 151 64.8 52.4 78.6





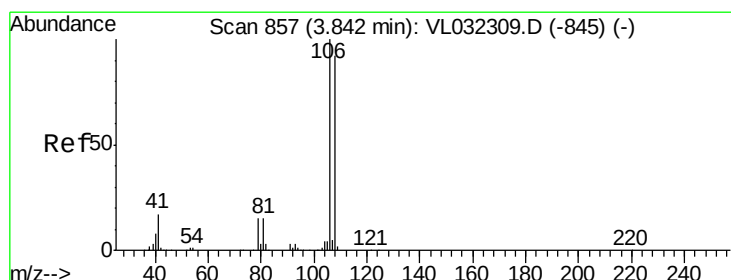
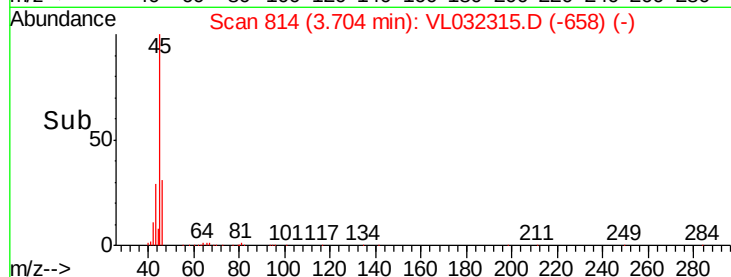
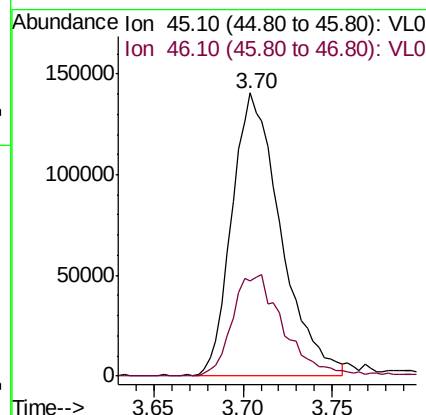
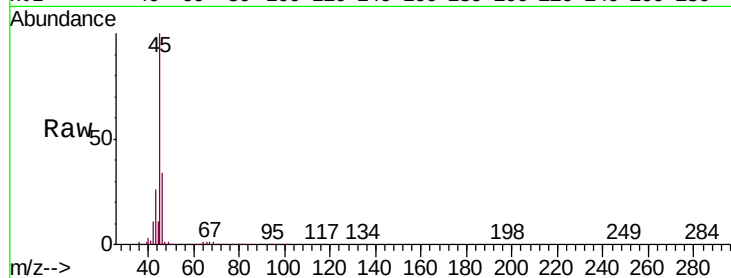
#13
Ethanol
Concen: 9.49 ppbv
RT: 3.70 min Scan# 814
Delta R.T. 0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	45	Resp	266718
Ion Ratio	100	Lower	Upper
46	38.9	15.2	60.6

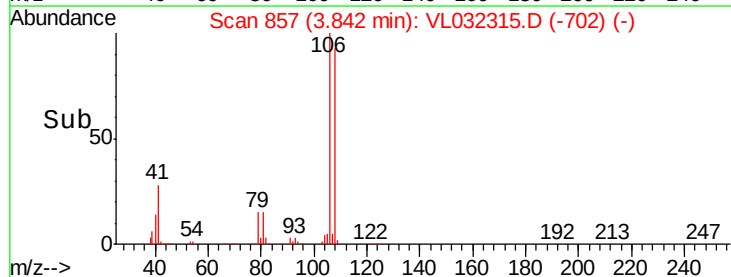
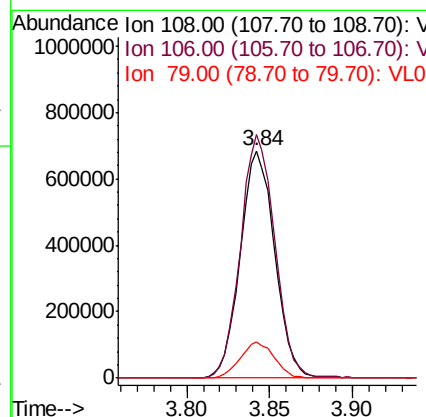
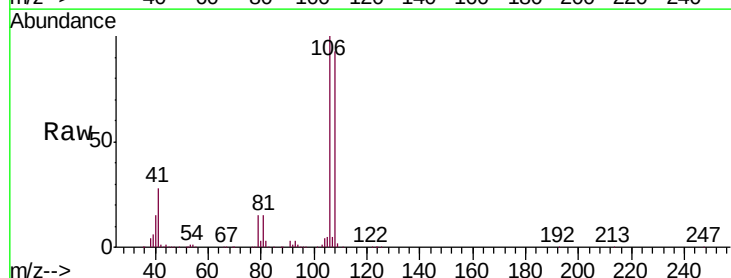
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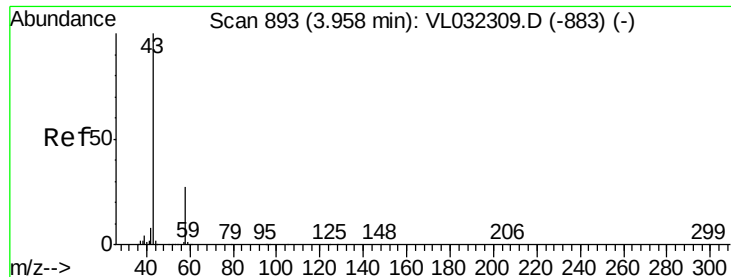
MMDadoda
7/30/2018 11:43:03 AM



#14
Bromoethene
Concen: 13.01 ppbv
RT: 3.84 min Scan# 857
Delta R.T. -0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Tgt Ion	108	Resp	989601
Ion Ratio	100	Lower	Upper
106	107.3	86.0	129.0
79	16.0	12.8	19.2





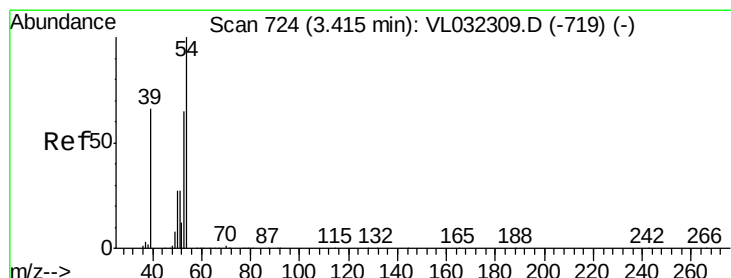
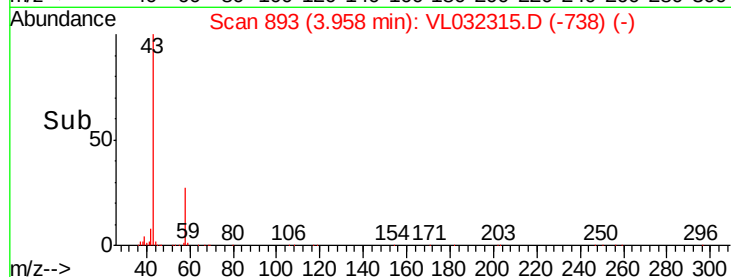
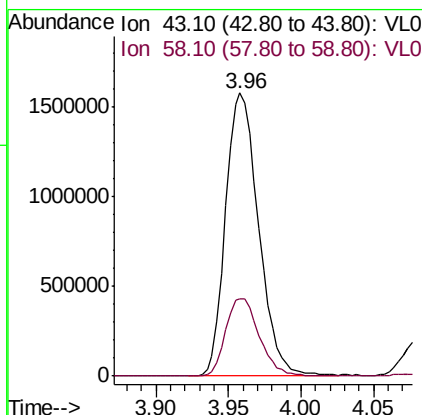
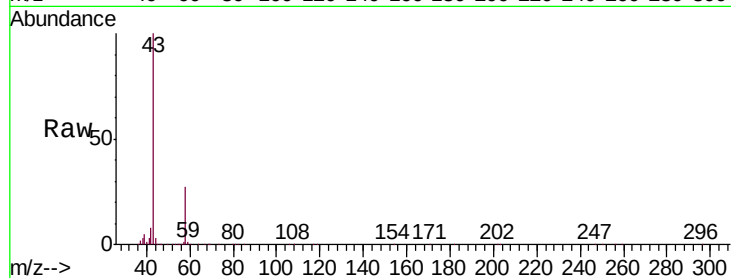
#15
Acetone
Concen: 12.07 ppbv
RT: 3.96 min Scan# 893
Delta R.T. -0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 2487654
Ion Ratio Lower Upper
43 100
58 27.9 22.5 33.7

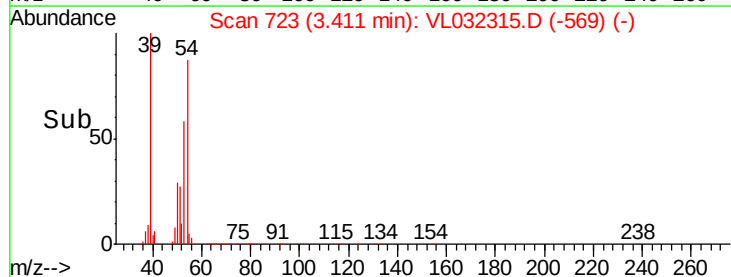
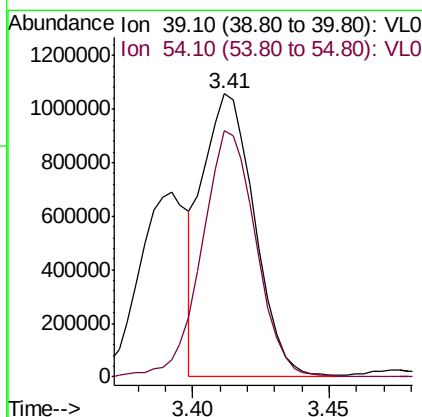
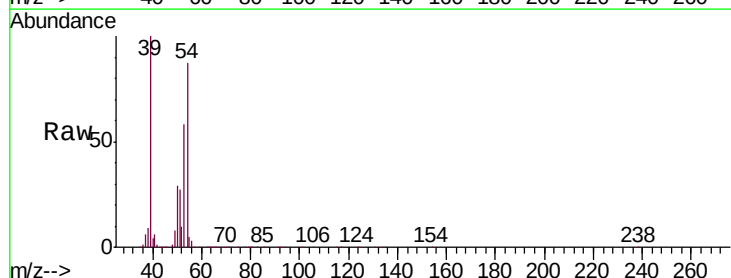
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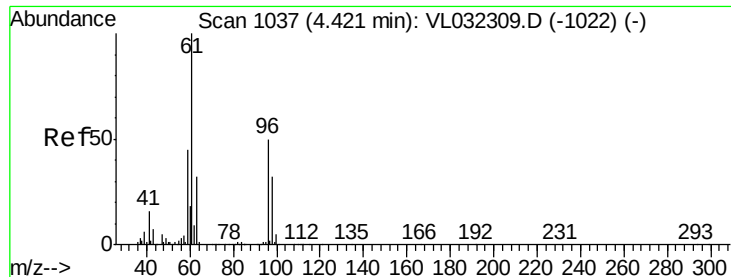
MMDadoda
7/30/2018 11:43:03 AM



#16
1,3-Butadiene
Concen: 13.21 ppbv
RT: 3.41 min Scan# 723
Delta R.T. -0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Tgt Ion: 39 Resp: 1392068
Ion Ratio Lower Upper
39 100
54 91.2 74.3 111.5





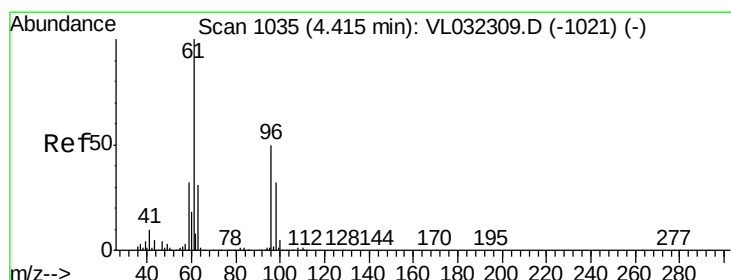
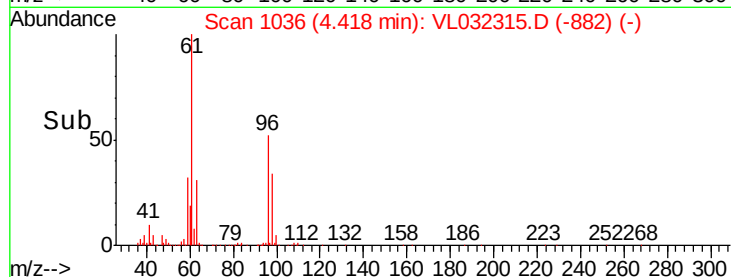
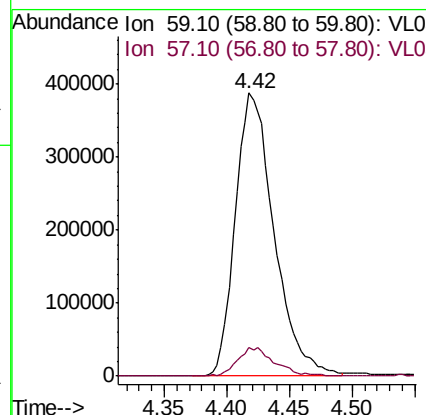
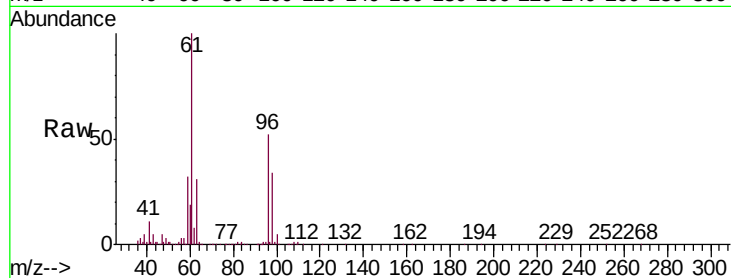
#17
 tert-Butyl alcohol
 Concen: 12.56 ppbv
 RT: 4.42 min Scan# 1036
 Delta R.T. -0.00 min
 Lab File: VL032315.D
 Acq: 27 Jul 2018 4:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 59 Resp: 833786
 Ion Ratio Lower Upper
 59 100
 57 9.8 8.0 12.0

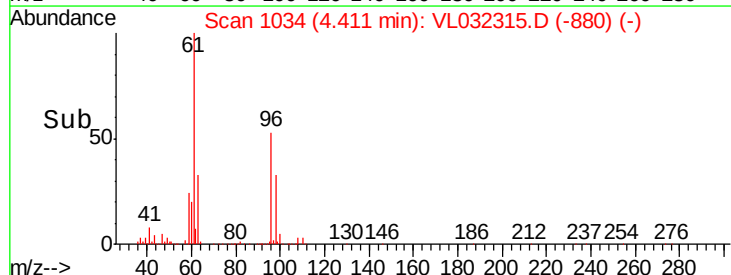
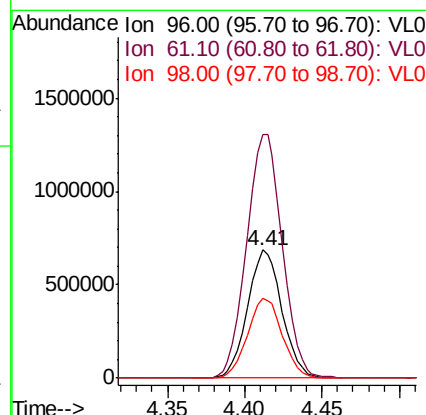
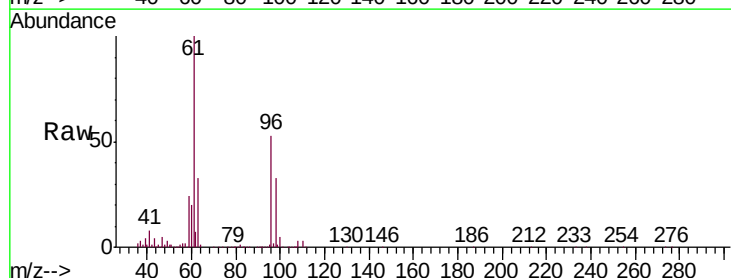
Manual Integrations
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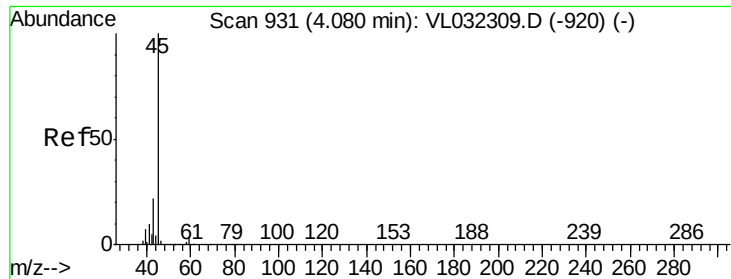
MMDadoda
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#18
 1,1-Dichloroethene
 Concen: 13.40 ppbv
 RT: 4.41 min Scan# 1034
 Delta R.T. -0.00 min
 Lab File: VL032315.D
 Acq: 27 Jul 2018 4:36

Tgt Ion: 96 Resp: 1062070
 Ion Ratio Lower Upper
 96 100
 61 190.2 159.0 238.4
 98 62.1 51.1 76.7





#19

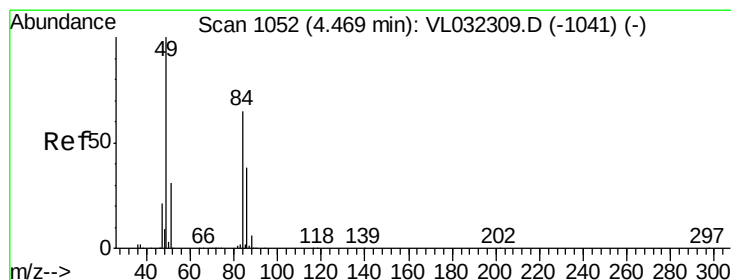
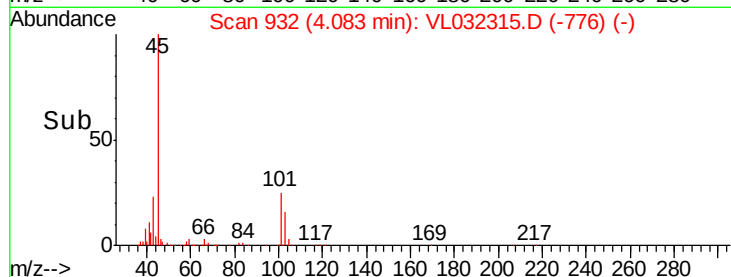
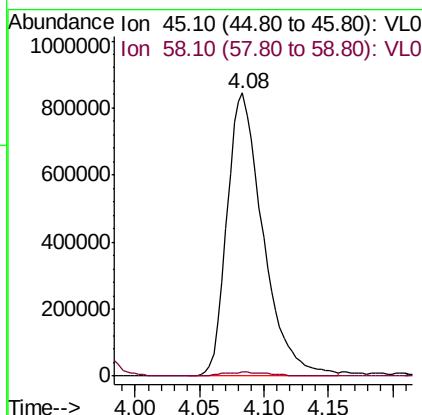
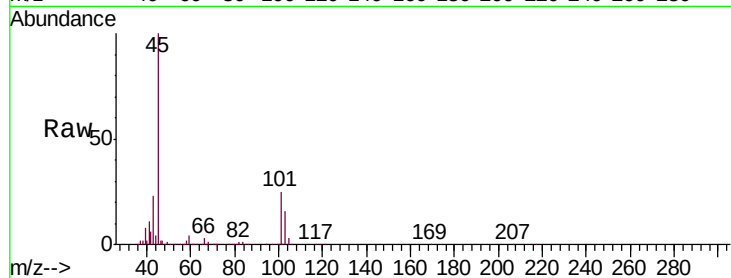
Isopropyl Alcohol
 Concen: 11.51 ppbv
 RT: 4.08 min Scan# 932
 Delta R.T. 0.00 min
 Lab File: VL032315.D
 Acq: 27 Jul 2018 4:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 45 Resp: 1629578
 Ion Ratio Lower Upper
 45 100
 58 1.9 1.5 2.3

Manual Integrations
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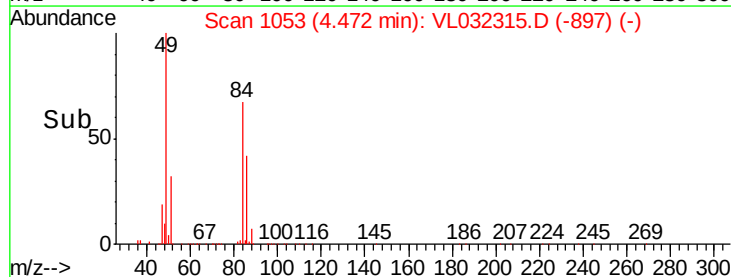
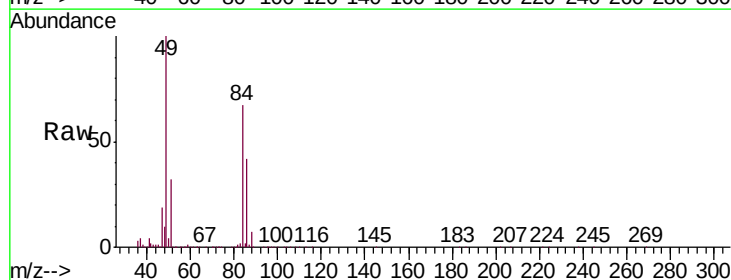
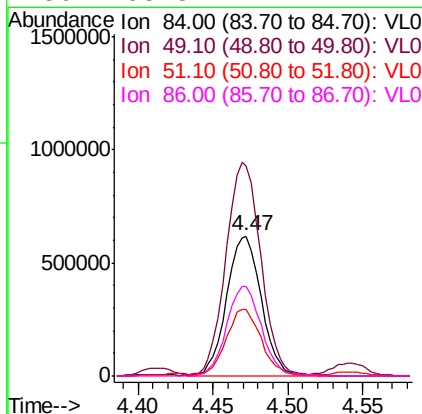
MMDadoda
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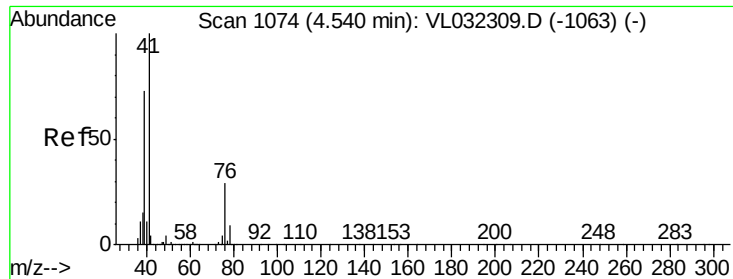


#20

Methylene Chloride
 Concen: 12.24 ppbv
 RT: 4.47 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VL032315.D
 Acq: 27 Jul 2018 4:36

Tgt Ion: 84 Resp: 991373
 Ion Ratio Lower Upper
 84 100
 49 149.4 123.4 185.0
 51 46.9 38.2 57.2
 86 63.8 47.4 71.2





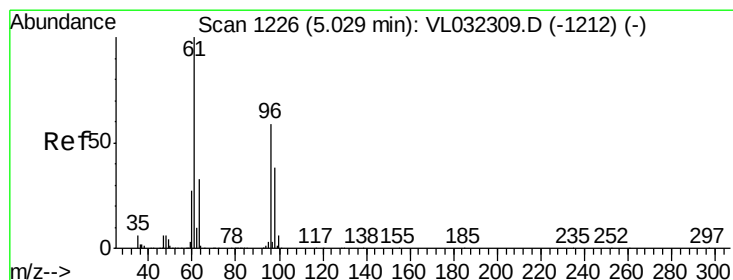
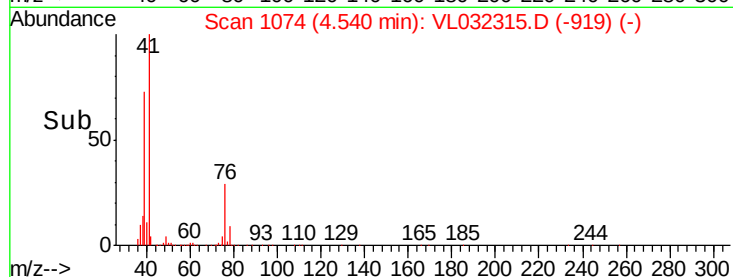
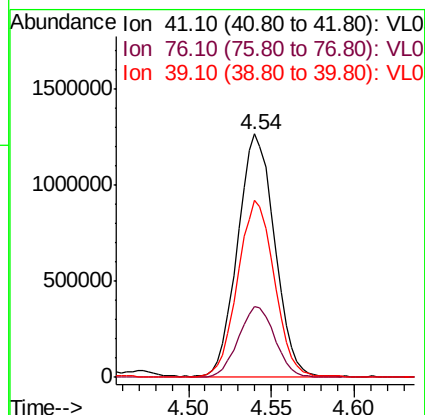
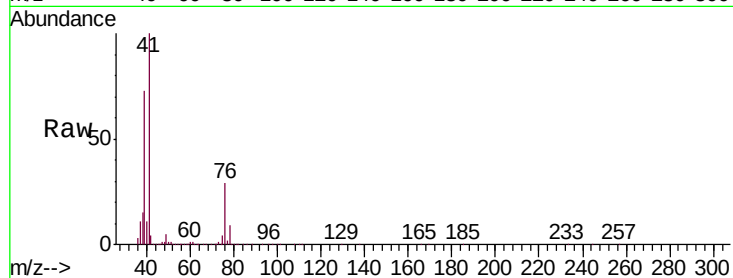
#21
Allvl Chloride
Concen: 14.16 ppbv
RT: 4.54 min Scan# 1074
Delta R.T. -0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 41 Resp: 1958349
Ion Ratio Lower Upper
41 100
76 28.8 23.1 34.7
39 72.4 58.2 87.2

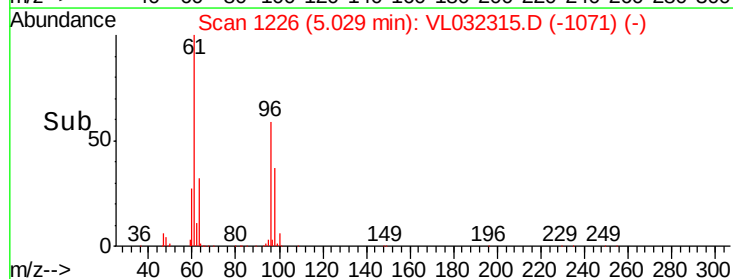
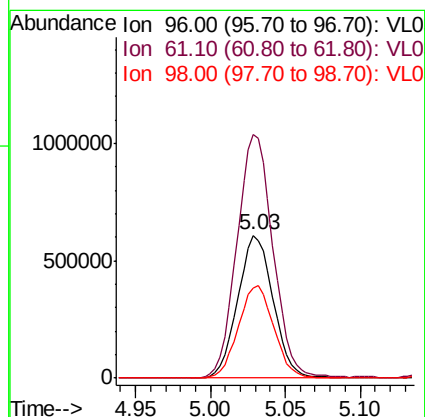
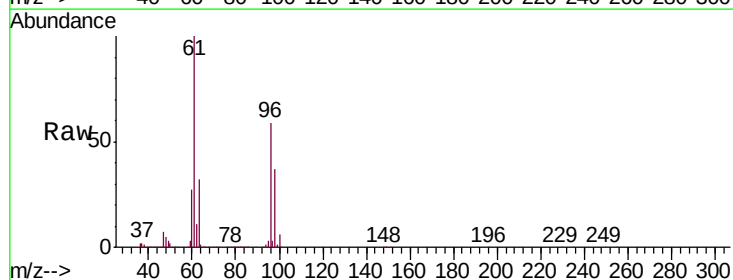
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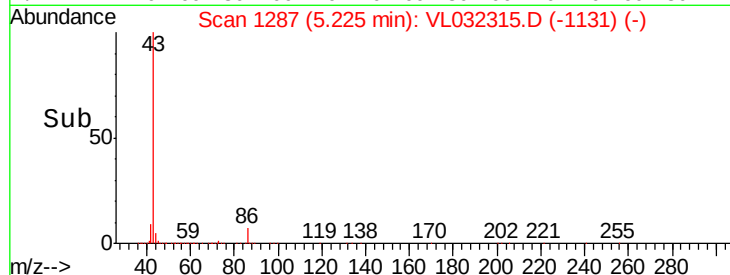
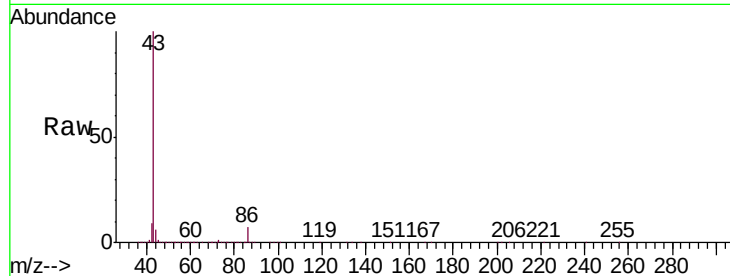
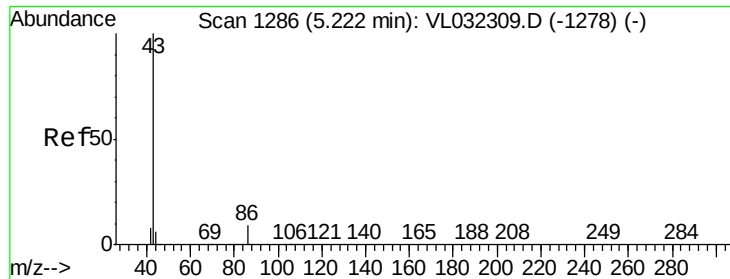
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 12.33 ppbv
RT: 5.03 min Scan# 1226
Delta R.T. -0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Tgt Ion: 96 Resp: 1005115
Ion Ratio Lower Upper
96 100
61 170.4 136.5 204.7
98 62.7 51.3 76.9





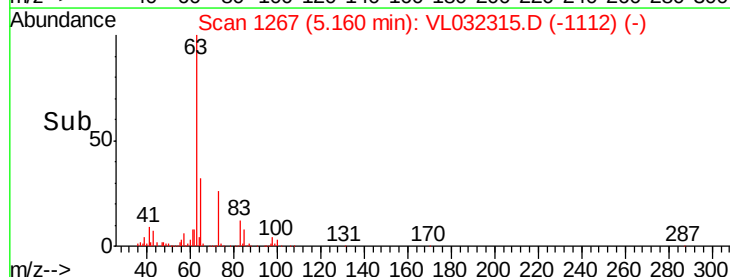
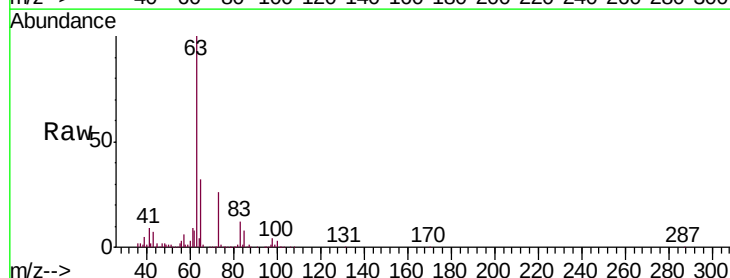
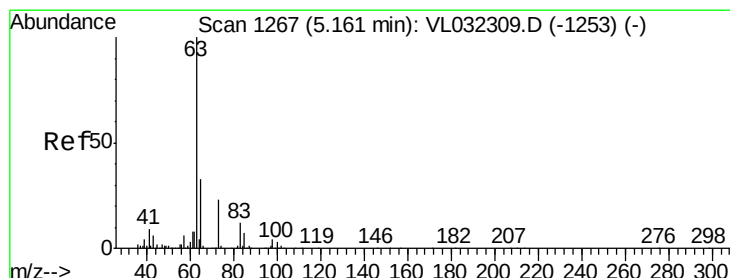
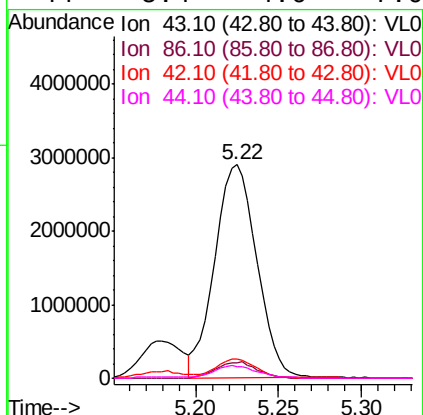
#23
 Vinyl Acetate
 Concen: 13.73 ppbv
 RT: 5.22 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VL032315.D
 Acq: 27 Jul 2018 4:36

Tot Ion	Ion	Ratio	Lower	Upper
43	43	100		
86	86	7.5	6.3	9.5
42	42	9.1	7.0	10.4
44	44	5.4	4.6	7.0

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

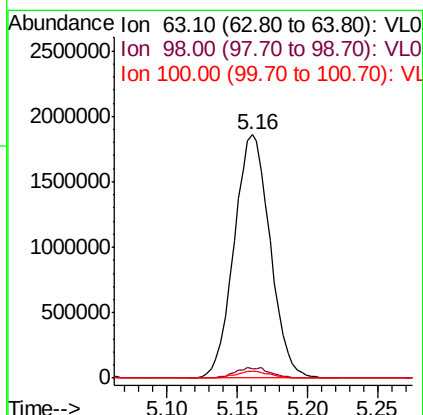
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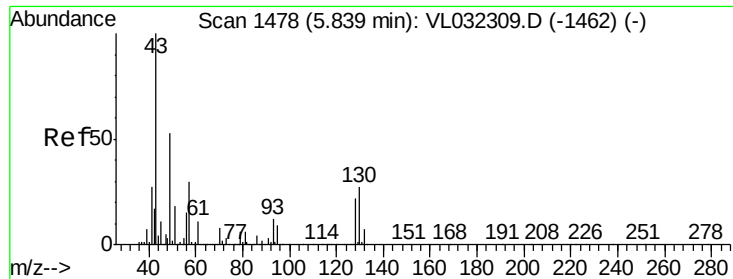
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 12.30 ppbv
 RT: 5.16 min Scan# 1267
 Delta R.T. -0.00 min
 Lab File: VL032315.D
 Acq: 27 Jul 2018 4:36

Tgt Ion	Ion	Ratio	Lower	Upper
63	63	100		
98	98	4.1	2.1	6.5
100	100	2.7	1.3	3.8





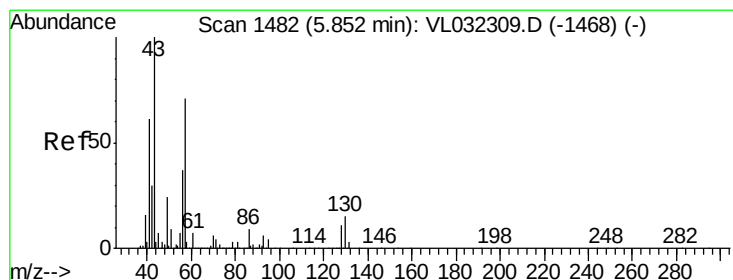
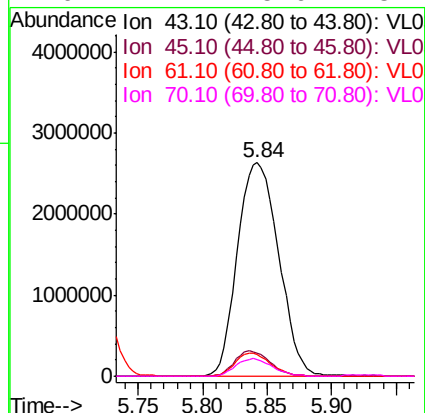
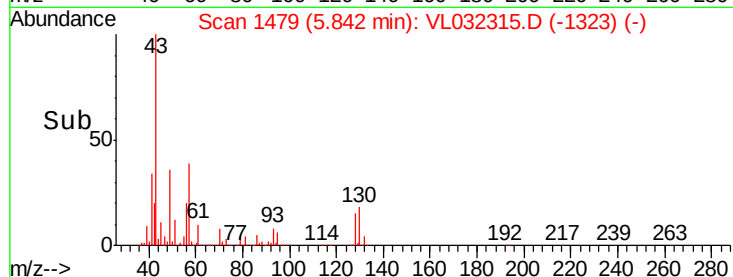
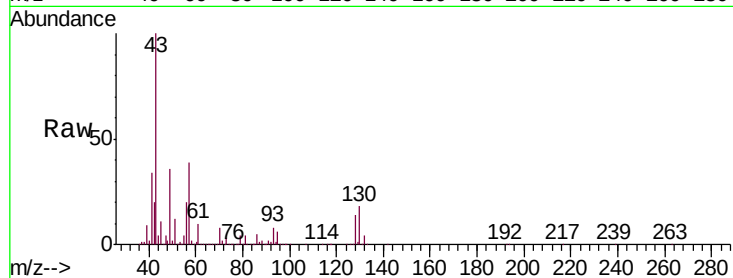
#25
Ethyl Acetate
Concen: 12.90 ppbv
RT: 5.84 min Scan# 1479
Delta R.T. 0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.1	12.1
61	9.5	7.4	11.0
70	7.2	5.6	8.4

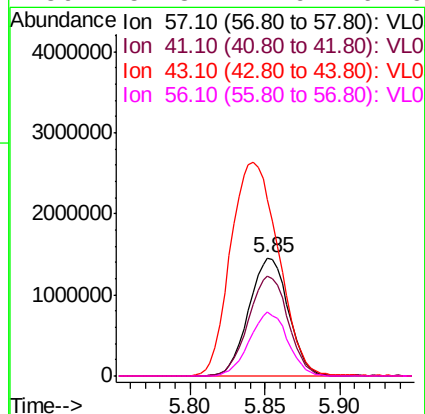
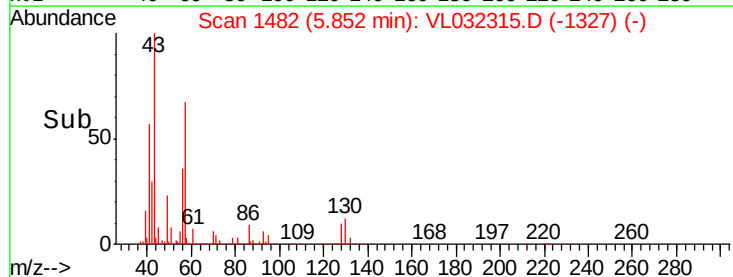
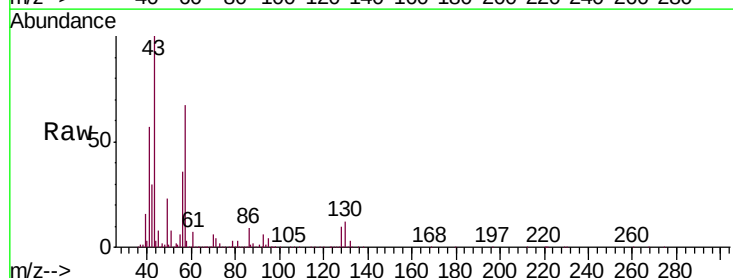
Manual Integrations
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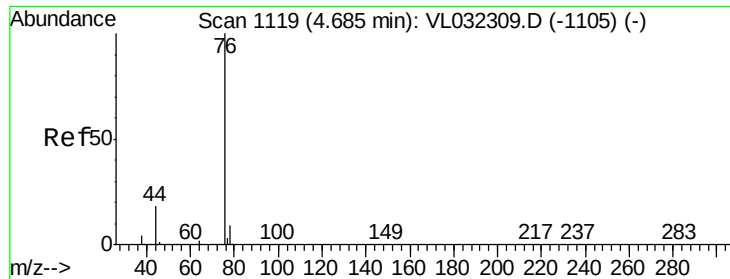
MMDadoda
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#26
Hexane
Concen: 12.83 ppbv
RT: 5.85 min Scan# 1482
Delta R.T. -0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Tgt Ion	Ratio	Lower	Upper
57	100		
41	85.5	68.1	102.1
43	220.1	177.4	266.2
56	52.8	41.9	62.9





#27

Carbon Disulfide

Concen: 14.73 ppbv

RT: 4.68 min Scan# 1119

Delta R.T. -0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 2719062

Ion Ratio Lower Upper

76 100

44 17.3 14.0 21.0

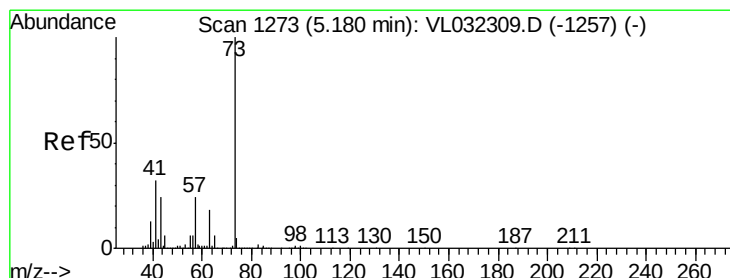
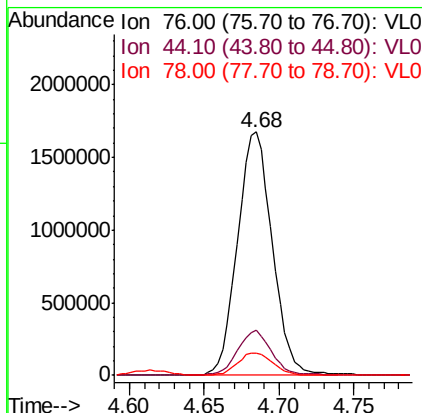
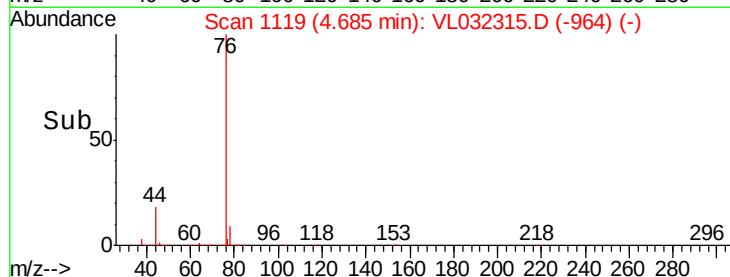
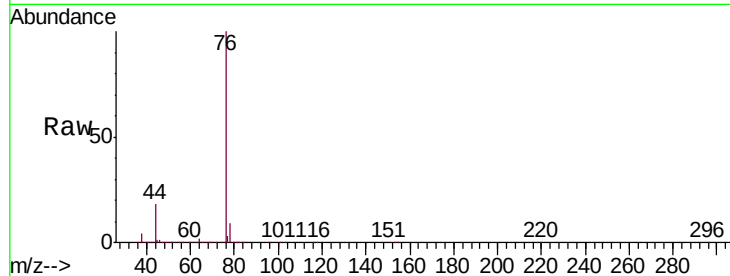
78 9.3 7.5 11.3

Manual Integrations

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#28

Methyl tert-Butyl Ether

Concen: 12.82 ppbv

RT: 5.18 min Scan# 1273

Delta R.T. -0.00 min

Lab File: VL032315.D

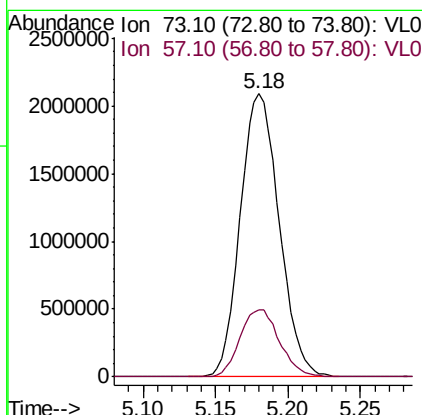
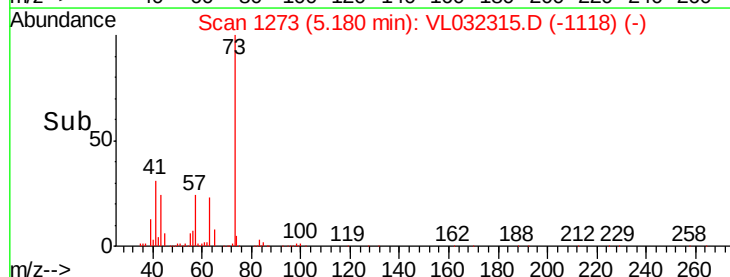
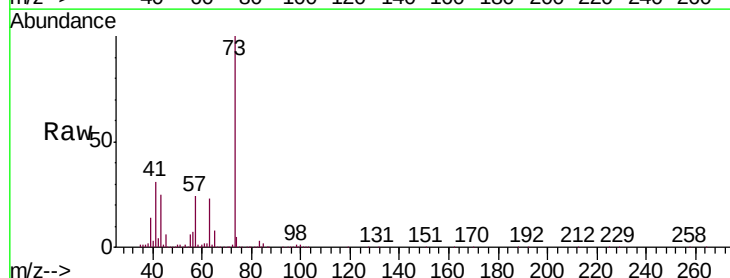
Acq: 27 Jul 2018 4:36

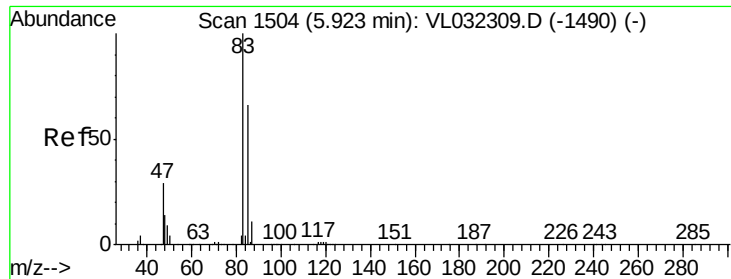
Tgt Ion: 73 Resp: 3904109

Ion Ratio Lower Upper

73 100

57 24.4 19.4 29.0





#29

Chloroform

Concen: 12.64 ppbv

RT: 5.93 min Scan# 1505

Delta R.T. 0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 3846397

Ion Ratio Lower Upper

83 100

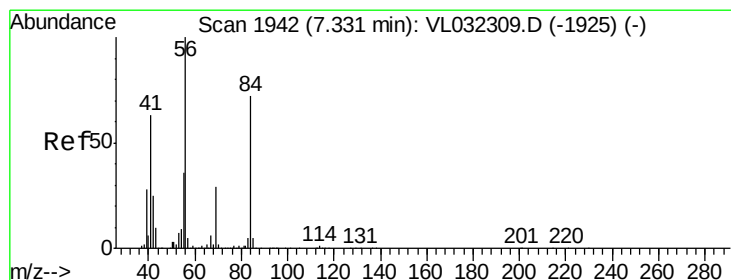
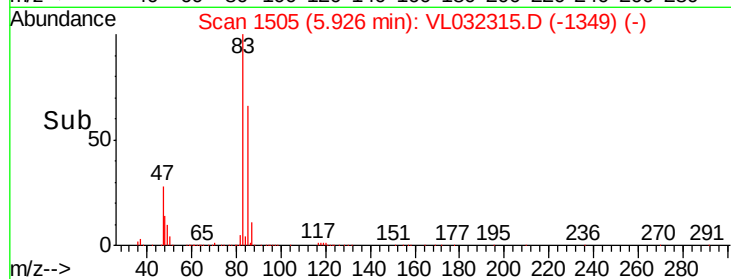
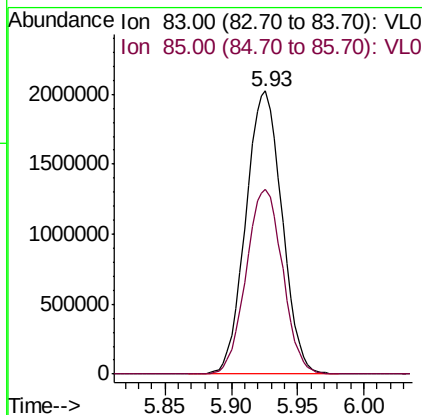
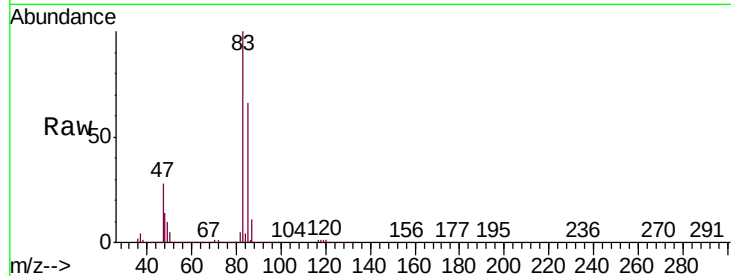
85 65.3 52.9 79.3

Manual Integrations

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#30

Cyclohexane

Concen: 12.88 ppbv

RT: 7.33 min Scan# 1941

Delta R.T. -0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

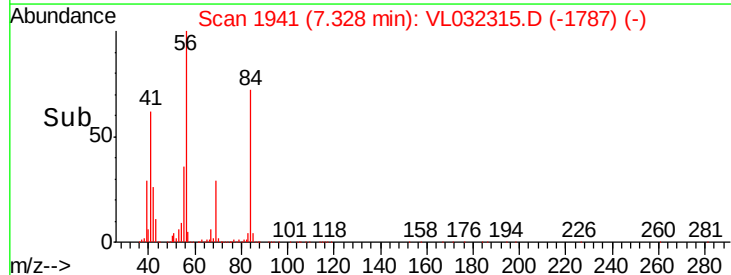
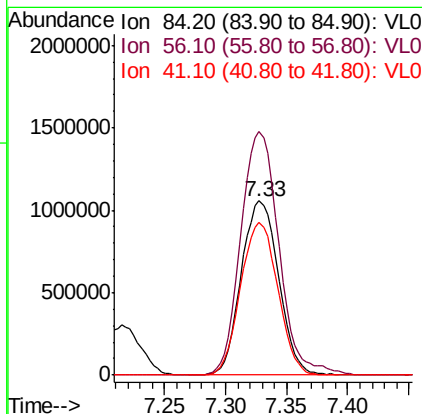
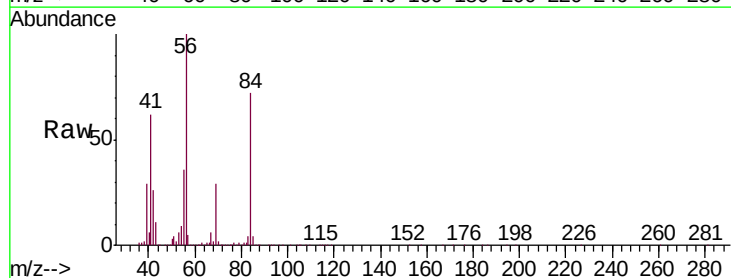
Tgt Ion: 84 Resp: 2230993

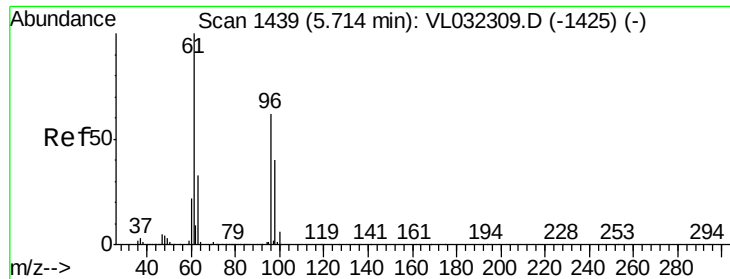
Ion Ratio Lower Upper

84 100

56 143.3 116.8 175.2

41 87.6 70.0 105.0





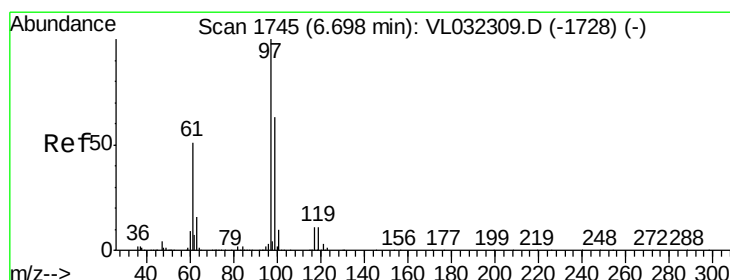
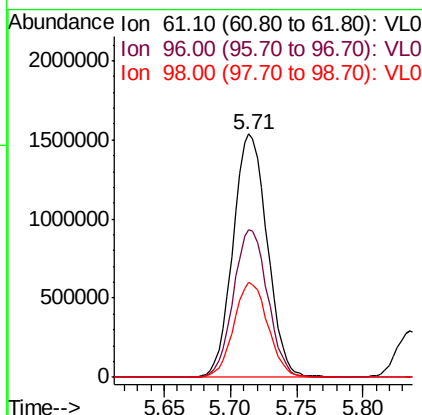
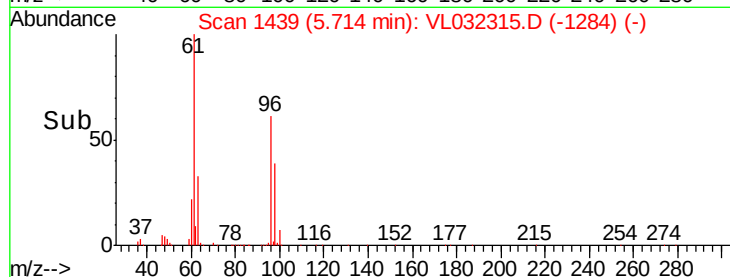
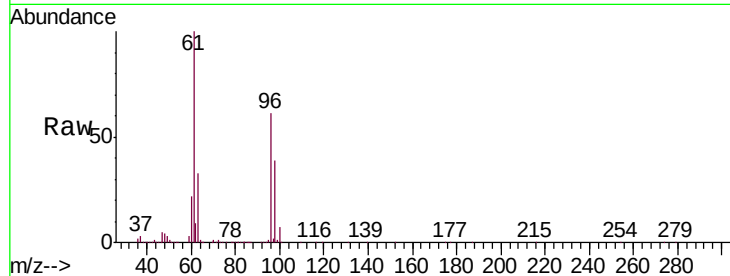
#31
 cis-1,2-Dichloroethene
 Concen: 13.76 ppbv
 RT: 5.71 min Scan# 1439
 Delta R.T. -0.00 min
 Lab File: VL032315.D
 Acq: 27 Jul 2018 4:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	60.9	49.8	74.6
98	38.9	31.8	47.6

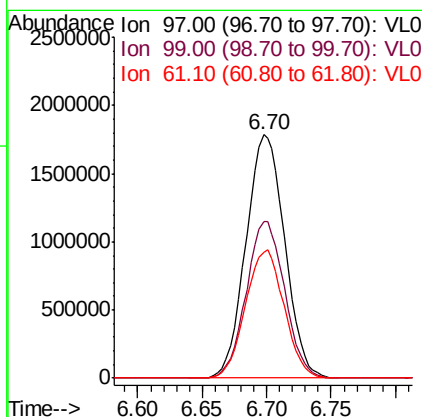
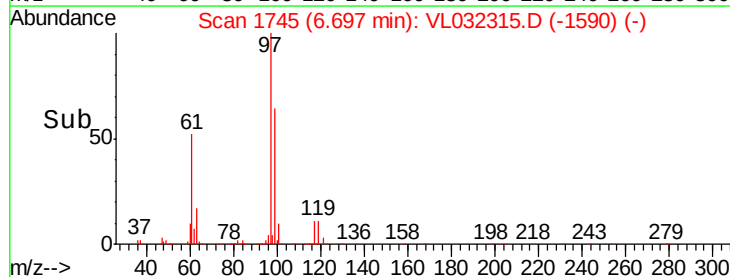
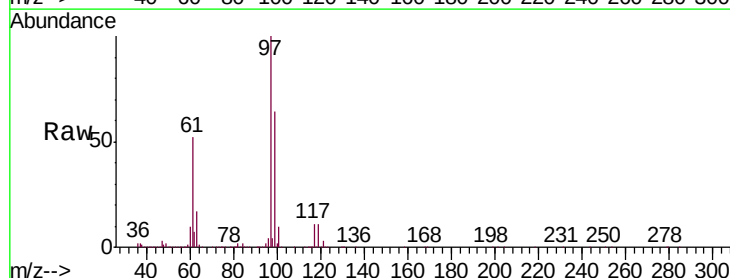
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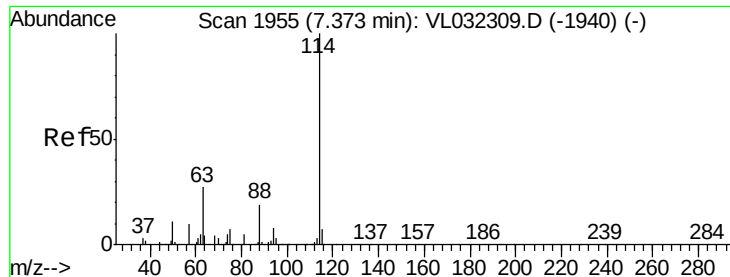
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 7/30/2018 11:43:03 AM



#32
 1,1,1-Trichloroethane
 Concen: 12.14 ppbv
 RT: 6.70 min Scan# 1745
 Delta R.T. -0.00 min
 Lab File: VL032315.D
 Acq: 27 Jul 2018 4:36

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	50.9	76.3
61	52.6	41.8	62.6





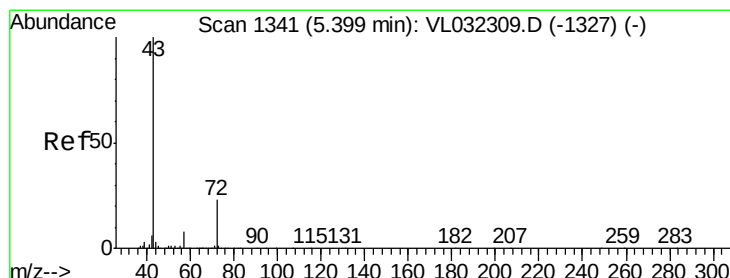
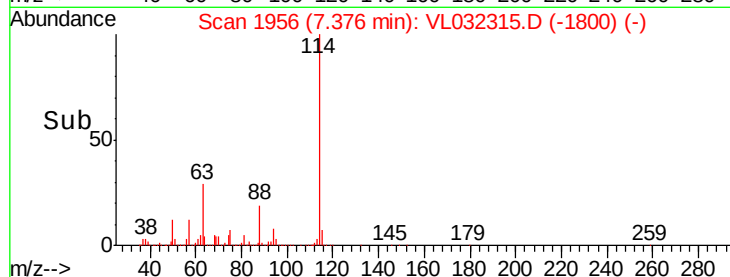
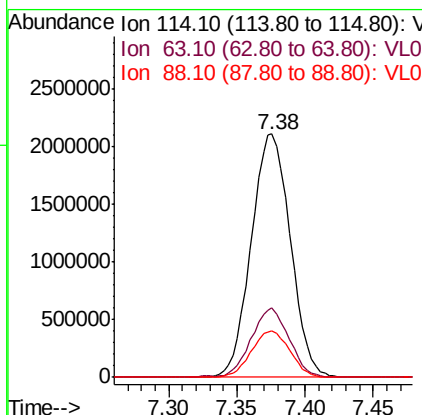
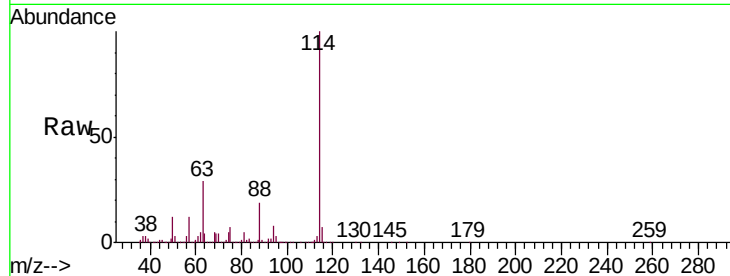
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1956
 Delta R.T. 0.00 min
 Lab File: VL032315.D
 Acq: 27 Jul 2018 4:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.1	22.4	33.6
88	18.9	15.3	22.9

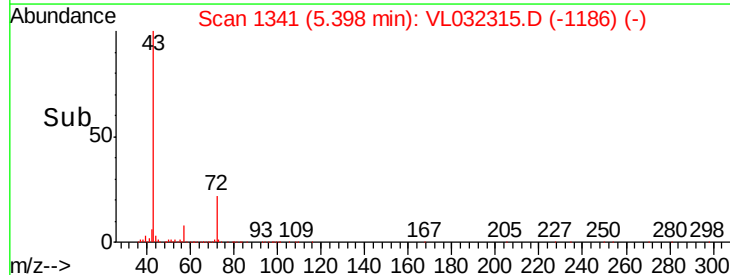
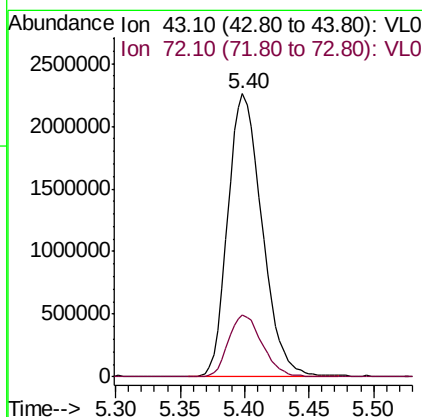
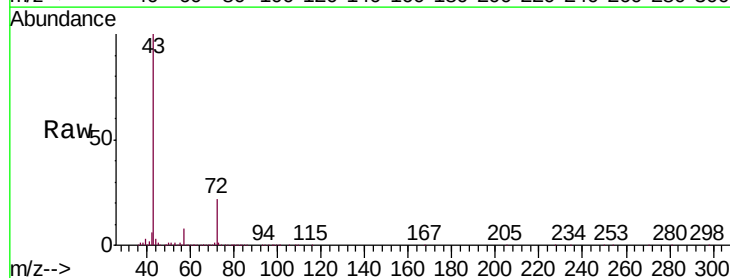
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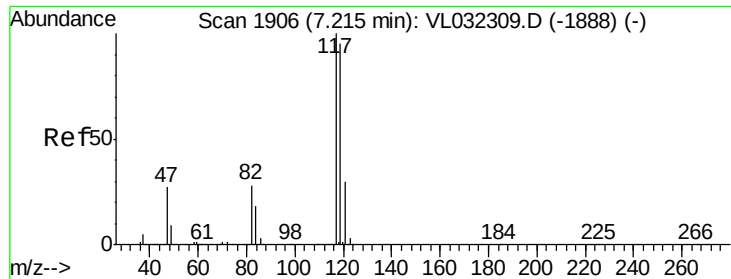
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#34
 2-Butanone
 Concen: 14.29 ppbv
 RT: 5.40 min Scan# 1341
 Delta R.T. -0.00 min
 Lab File: VL032315.D
 Acq: 27 Jul 2018 4:36

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.8	17.4	26.2





#35

Carbon Tetrachloride

Concen: 12.57 ppbv

RT: 7.22 min Scan# 1906

Delta R.T. -0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 3612372

Ion Ratio Lower Upper

117 100

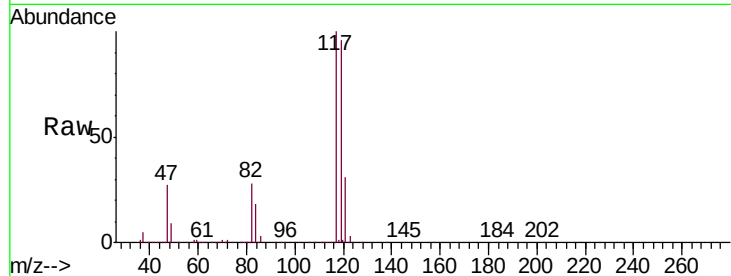
119 96.3 76.1 114.1

121 31.4 24.4 36.6

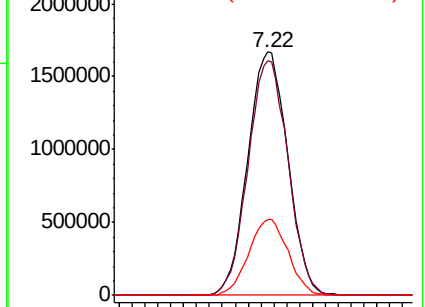
Manual Integrations
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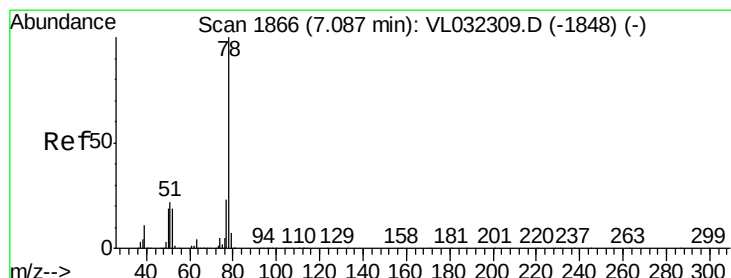
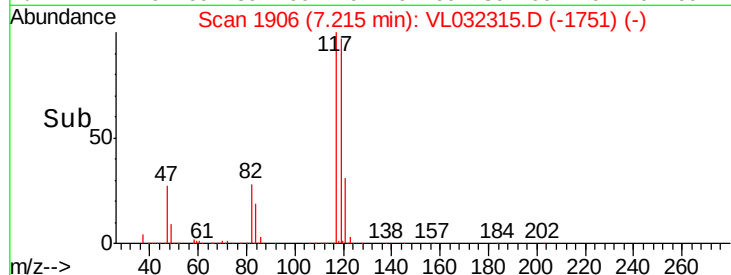
7/30/2018 11:43:03 AM



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



Time--> 7.10 7.15 7.20 7.25 7.30



#36

Benzene

Concen: 13.06 ppbv

RT: 7.09 min Scan# 1866

Delta R.T. -0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

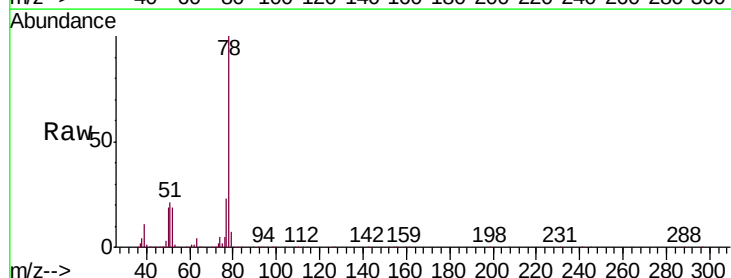
Tgt Ion: 78 Resp: 5423692

Ion Ratio Lower Upper

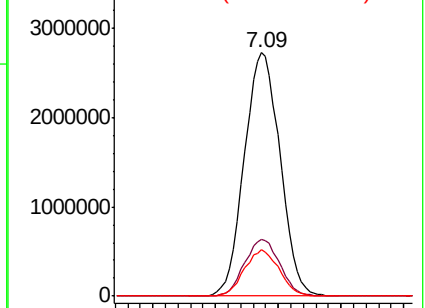
78 100

77 23.4 18.4 27.6

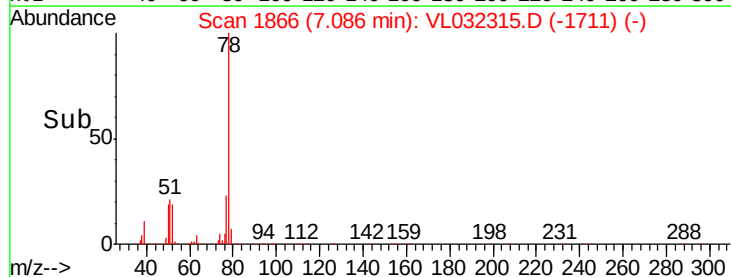
50 18.8 15.3 22.9

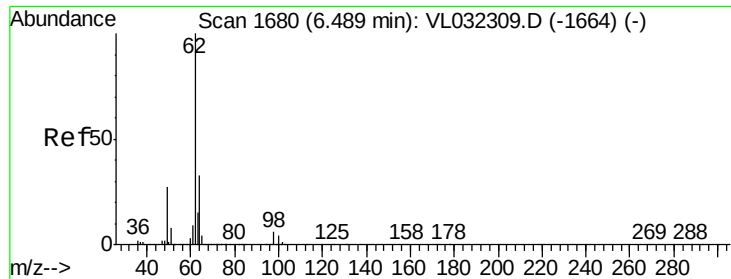


Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



Time--> 7.00 7.05 7.10 7.15





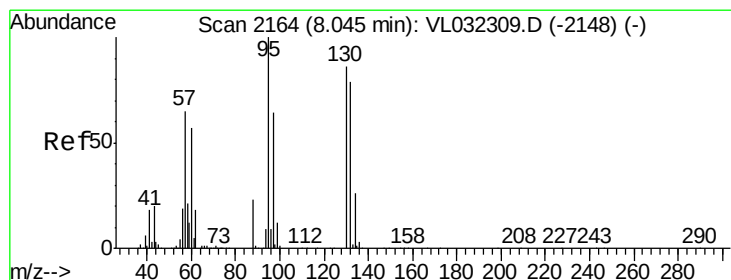
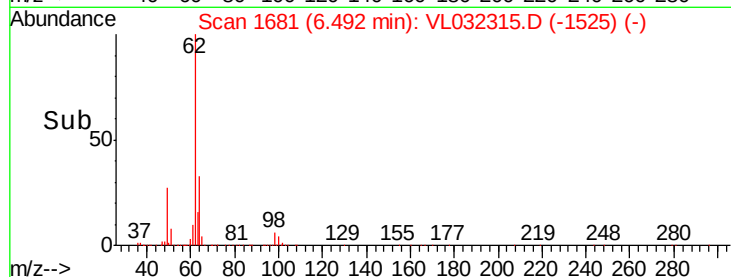
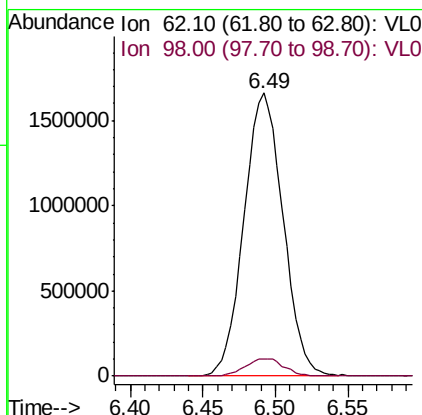
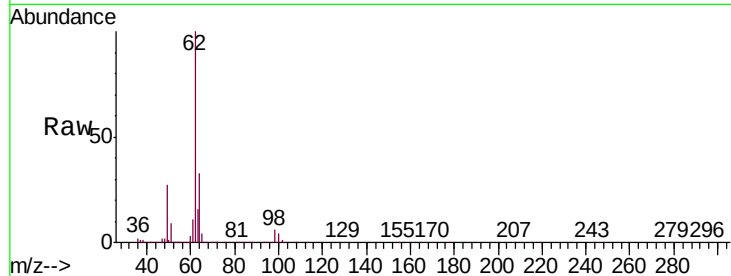
#37
1,2-Dichloroethane
Concen: 12.87 ppbv
RT: 6.49 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 62 Resp: 3121160
Ion Ratio Lower Upper
62 100
98 6.3 5.1 7.7

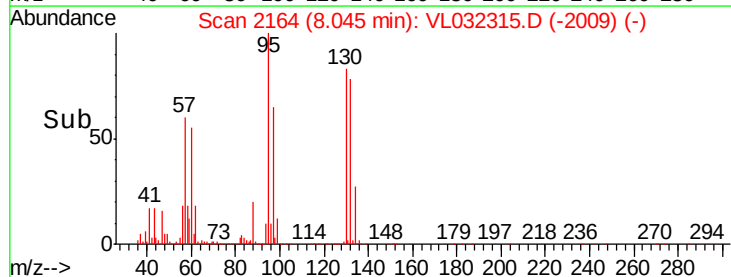
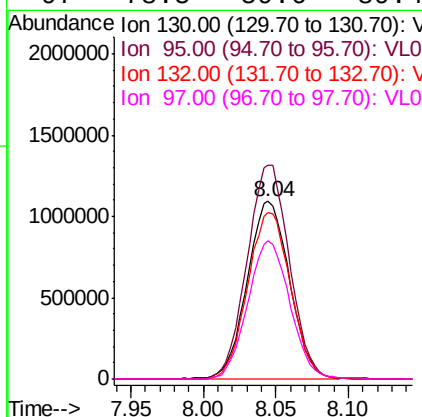
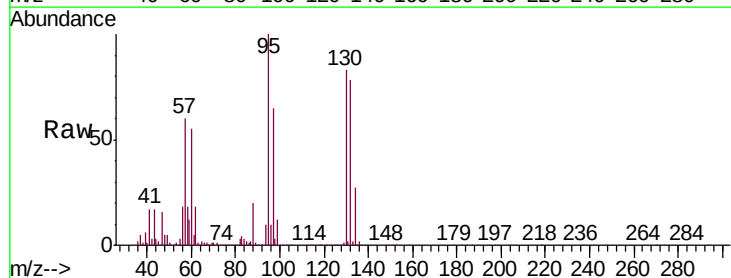
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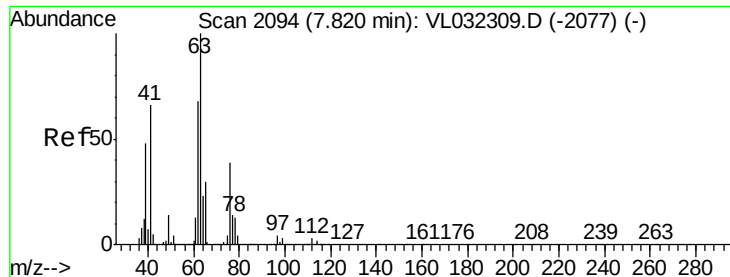
MMDadoda
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#38
Trichloroethene
Concen: 15.64 ppbv
RT: 8.04 min Scan# 2164
Delta R.T. -0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Tgt Ion: 130 Resp: 2198522
Ion Ratio Lower Upper
130 100
95 120.7 92.9 139.3
132 94.4 73.0 109.4
97 78.5 59.6 89.4





#39

1,2-Dichloropropane

Concen: 16.27 ppbv

RT: 7.82 min Scan# 2094

Delta R.T. -0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 63 Resp: 2786653

Ion Ratio Lower Upper

63 100

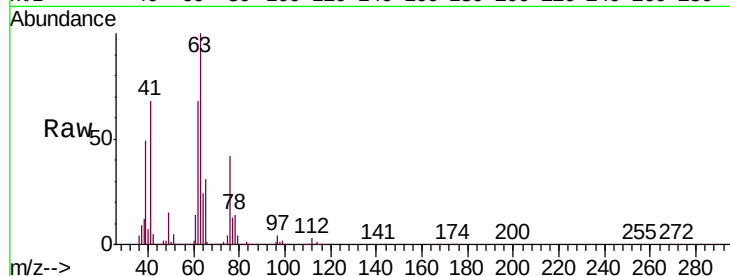
41 67.8 52.5 78.7

62 67.7 54.6 81.8

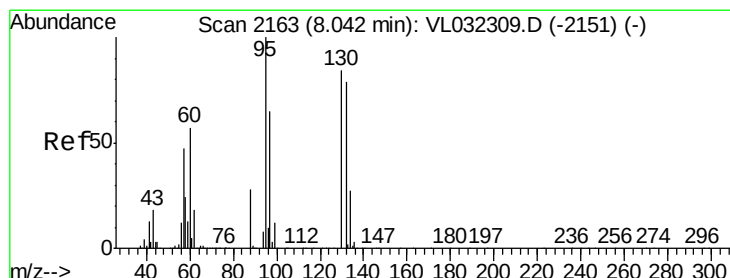
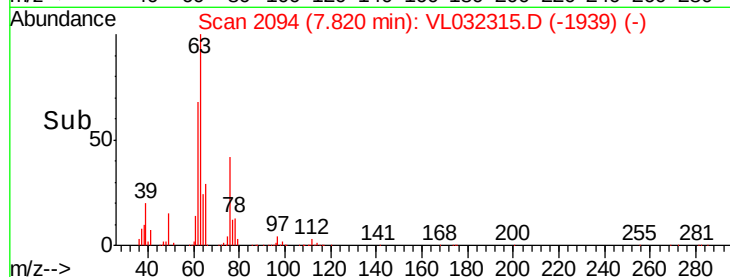
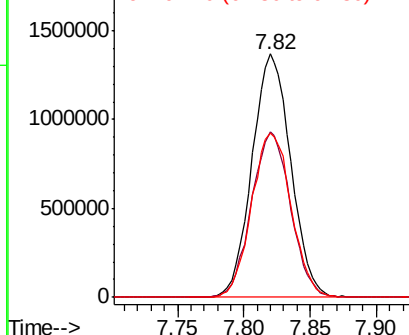
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Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 13.78 ppbv

RT: 8.03 min Scan# 2161

Delta R.T. -0.01 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Tgt Ion: 88 Resp: 694137

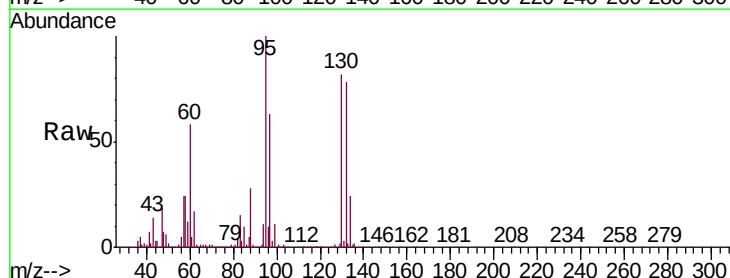
Ion Ratio Lower Upper

88 100

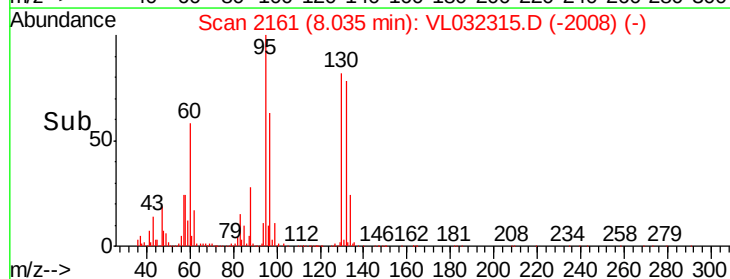
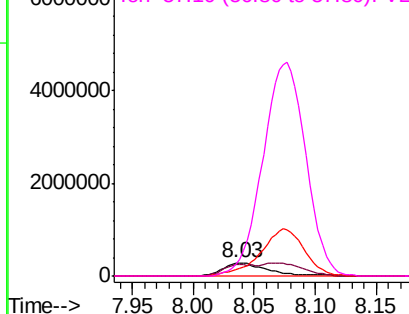
58 161.3 120.5 180.7

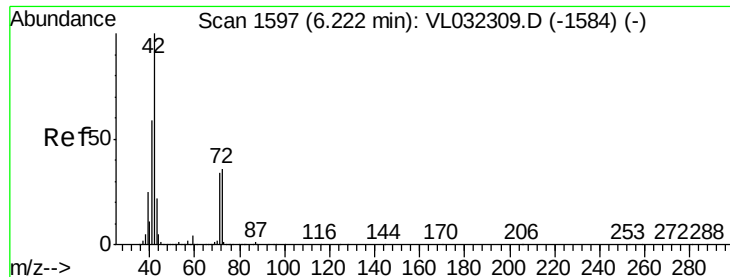
43 364.3 246.2 369.2

57 1631.4 1097.4 1646.2



Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 15.27 ppbv

RT: 6.22 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Instrument :

MSVOA_L

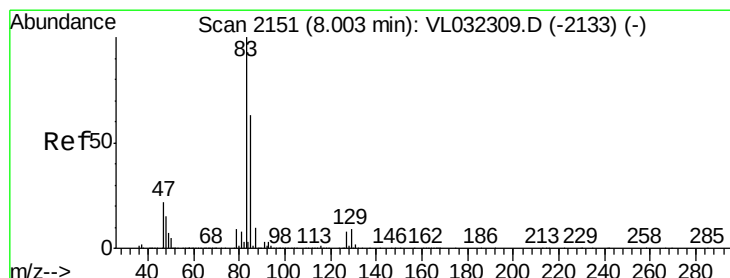
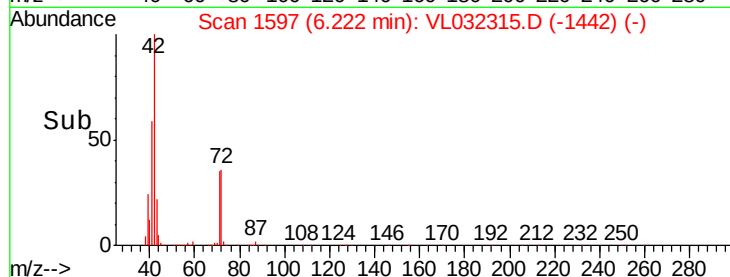
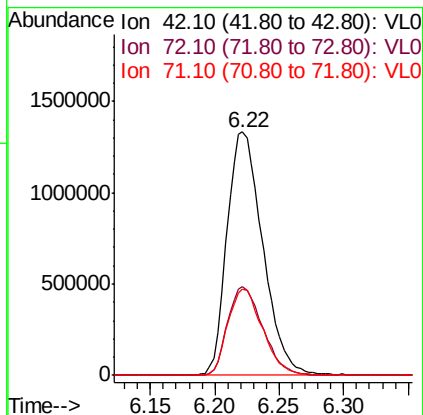
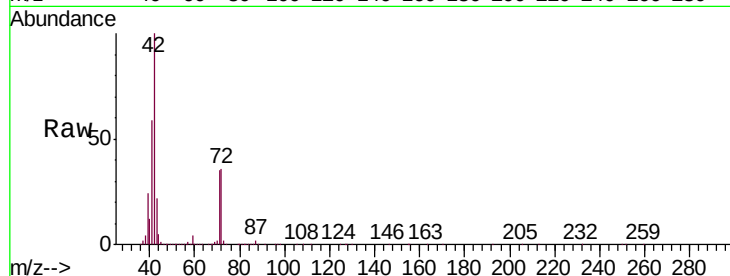
ClientSampleId :

VSTDIC015

Tot Ion:	42	Resp:	2559142
Ion	Ratio	Lower	Upper
42	100		
72	36.1	28.6	42.8
71	34.8	27.8	41.6

Manual Integrations
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#42

Bromodichloromethane

Concen: 16.11 ppbv

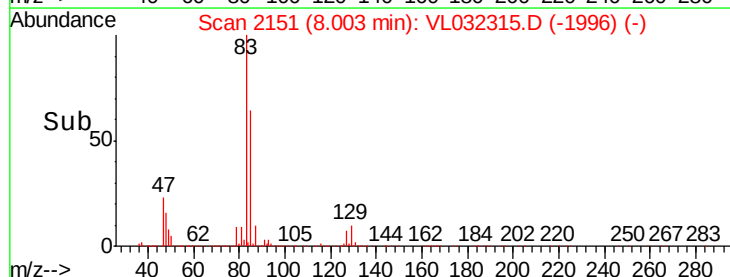
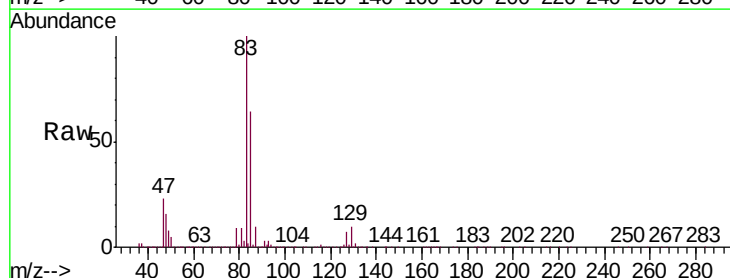
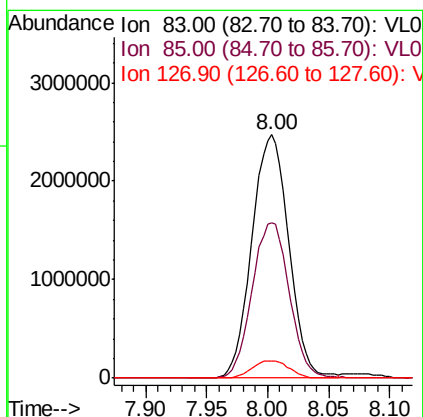
RT: 8.00 min Scan# 2151

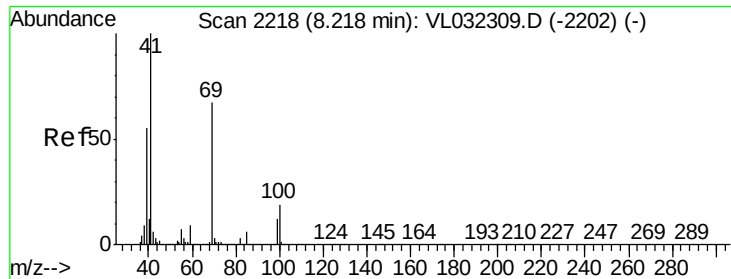
Delta R.T. -0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Tgt Ion:	83	Resp:	5173315
Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.7	76.1
127	7.1	6.0	9.0





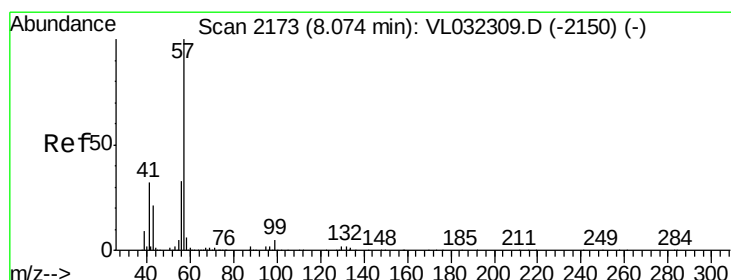
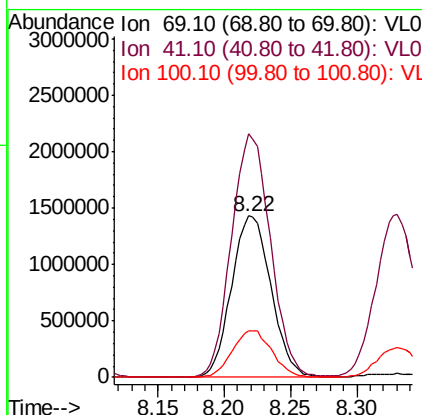
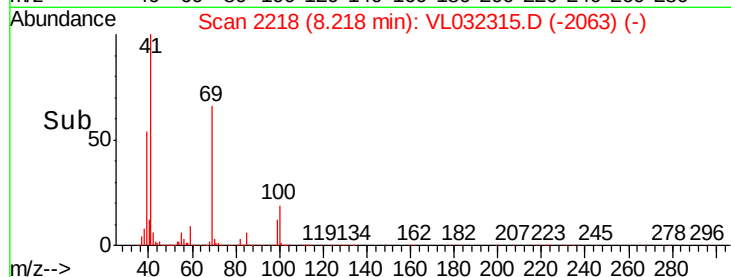
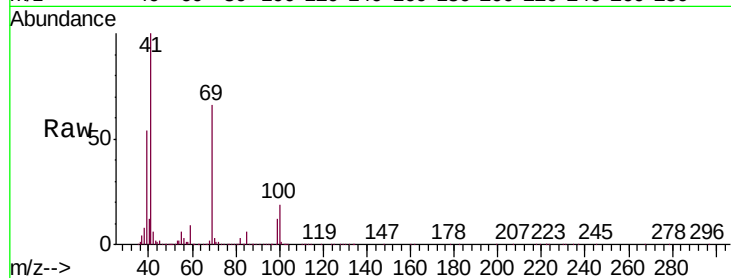
#43
Methyl Methacrylate
Concen: 17.32 ppbv
RT: 8.22 min Scan# 2218
Delta R.T. -0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
69	100		
41	149.9	120.6	180.8
100	29.2	23.2	34.8

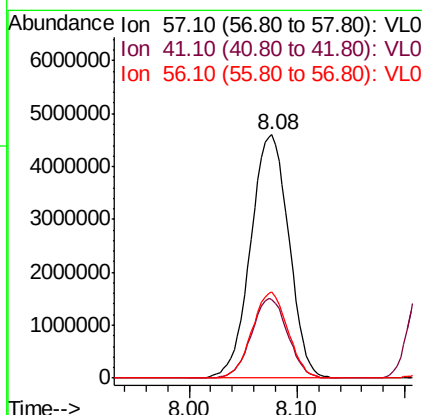
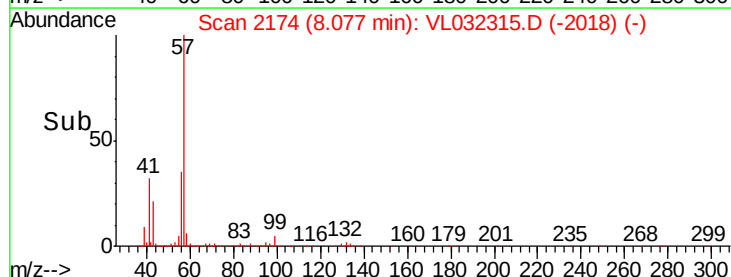
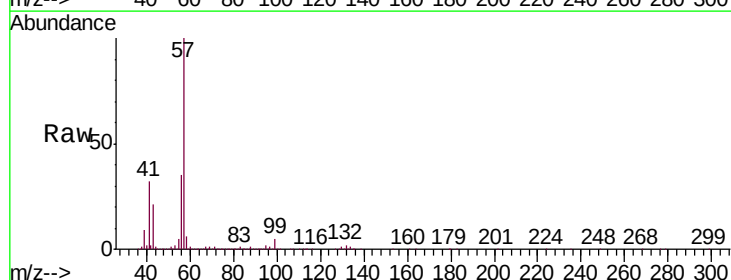
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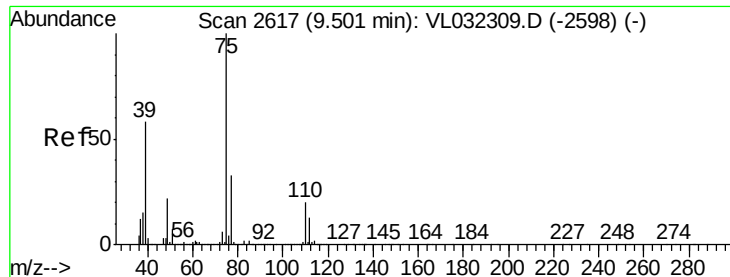
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 15.37 ppbv
RT: 8.08 min Scan# 2174
Delta R.T. 0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Tgt Ion	Ratio	Lower	Upper
57	100		
41	31.4	24.3	36.5
56	33.1	25.4	38.2





#45

t-1,3-Dichloropropene

Concen: 18.00 ppbv

RT: 9.50 min Scan# 2618

Delta R.T. 0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 75 Resp: 3719636

Ion Ratio Lower Upper

75 100

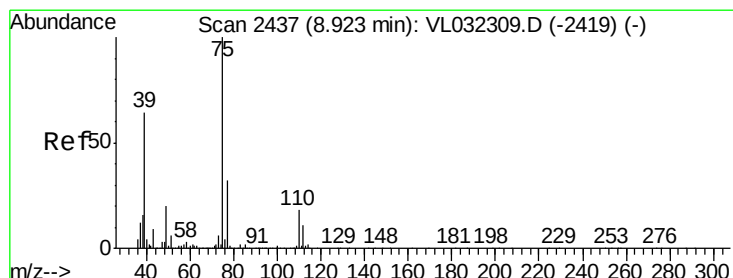
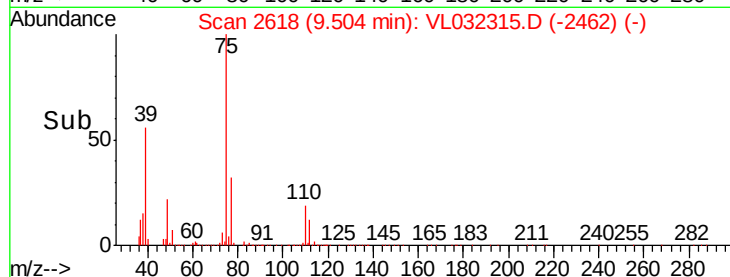
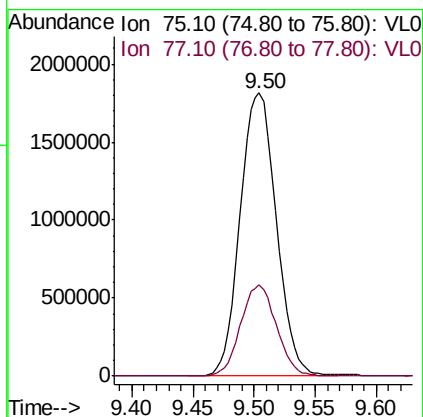
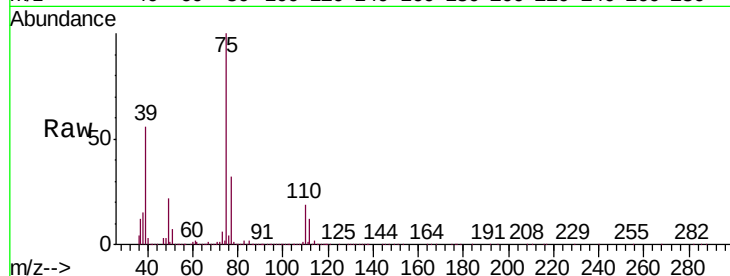
77 32.3 26.2 39.4

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#46

cis-1,3-Dichloropropene

Concen: 16.81 ppbv

RT: 8.92 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

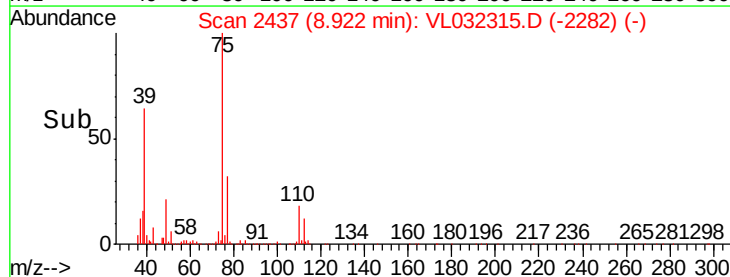
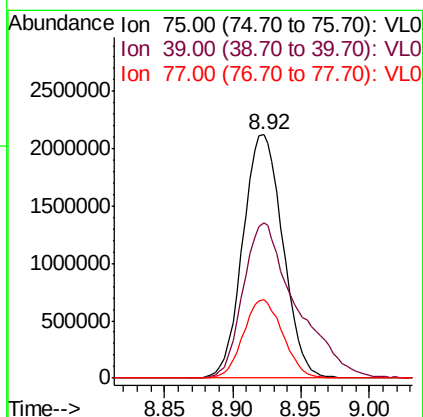
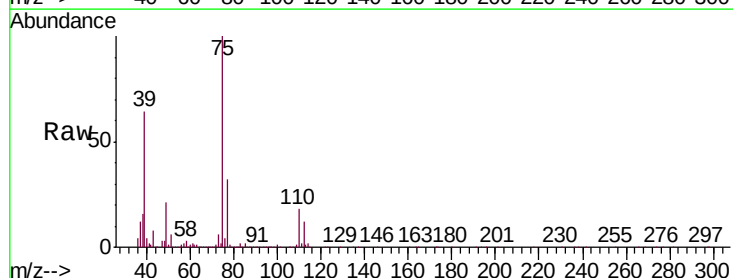
Tgt Ion: 75 Resp: 4308047

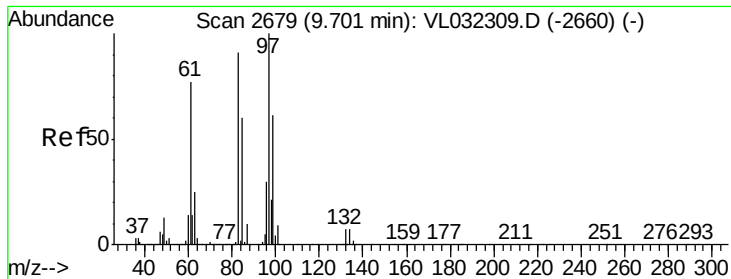
Ion Ratio Lower Upper

75 100

39 63.9 50.9 76.3

77 32.2 25.7 38.5





#47

1,1,2-Trichloroethane

Concen: 14.83 ppbv

RT: 9.70 min Scan# 2680

Delta R.T. 0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 97 Resp: 2645915

Ion Ratio Lower Upper

97 100

83 93.3 73.0 109.6

85 60.6 48.1 72.1

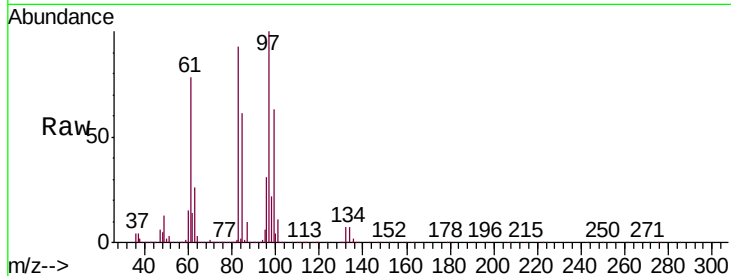
99 62.9 48.5 72.7

Manual Integrations

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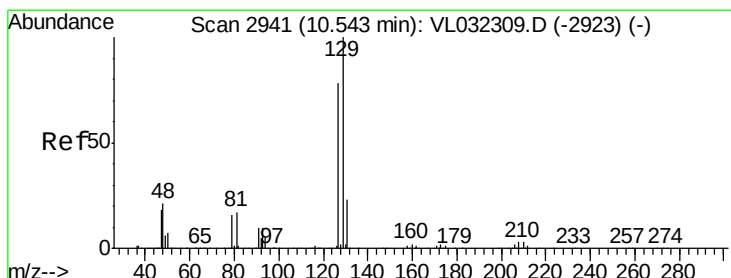
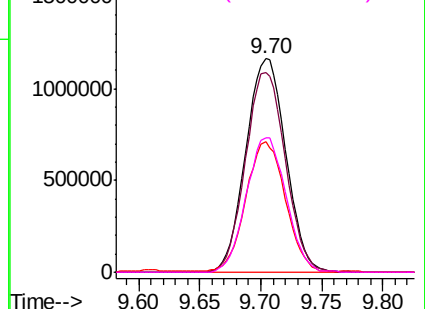
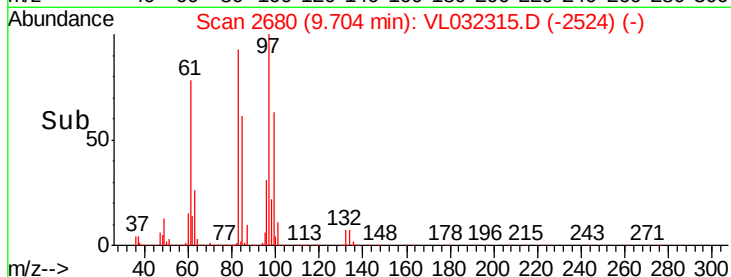


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 15.74 ppbv

RT: 10.55 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VL032315.D

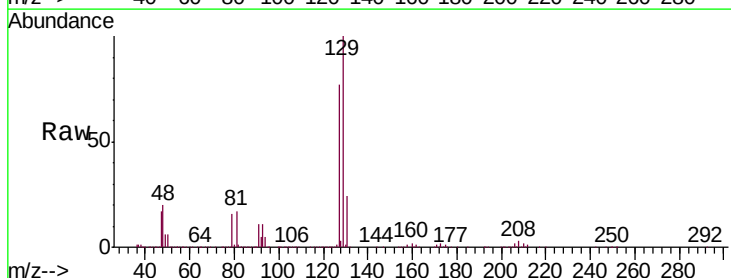
Acq: 27 Jul 2018 4:36

Tgt Ion: 129 Resp: 4129258

Ion Ratio Lower Upper

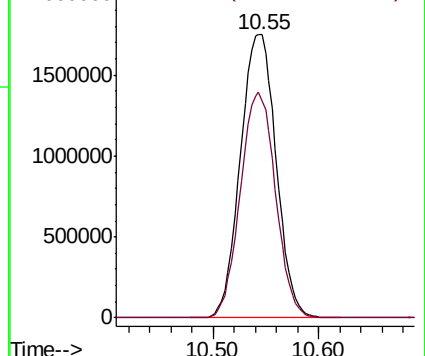
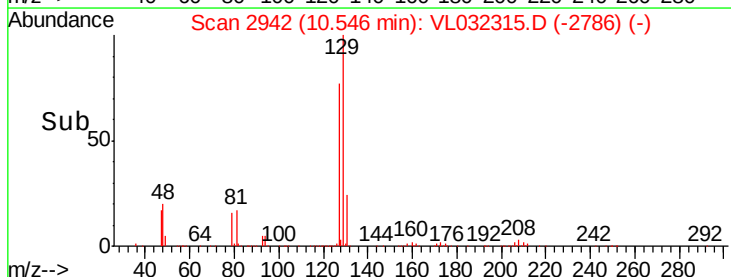
129 100

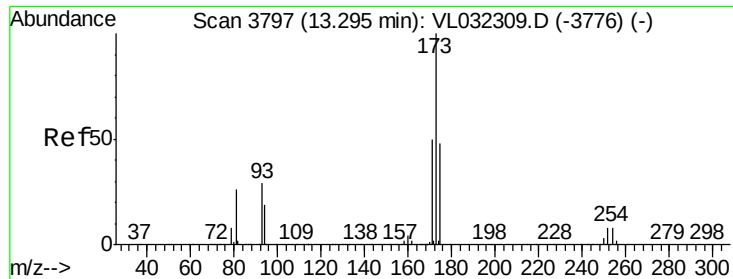
127 78.6 39.5 118.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





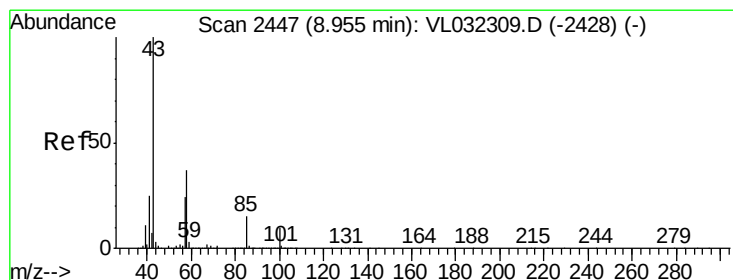
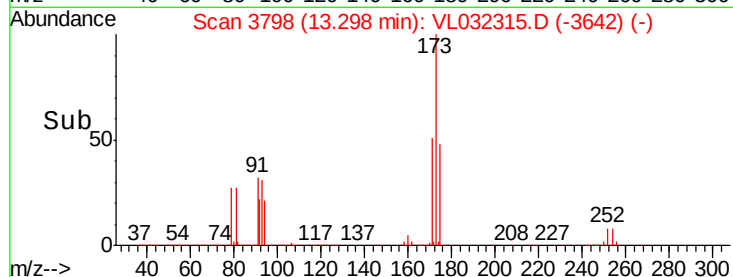
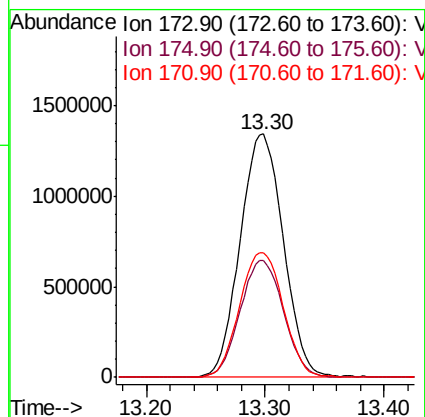
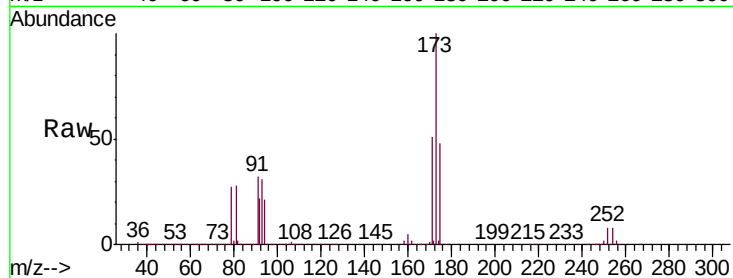
#49
Bromoform
Concen: 14.75 ppbv
RT: 13.30 min Scan# 3798
Delta R.T. 0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.8	38.9	58.3
171	52.2	42.2	63.2

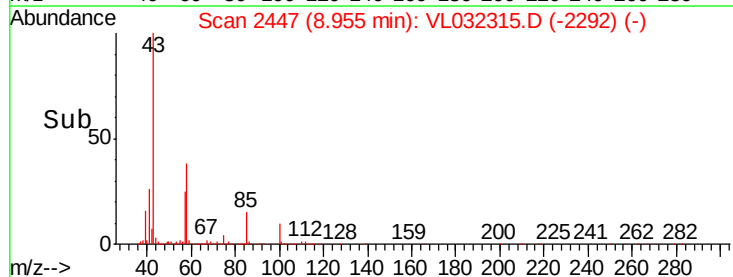
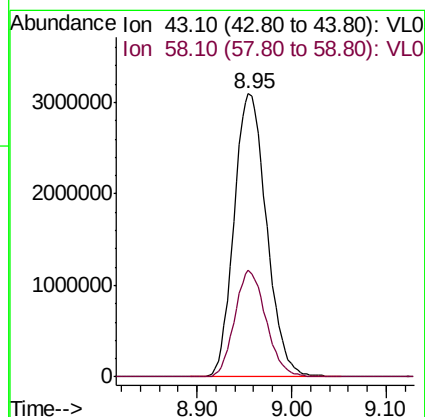
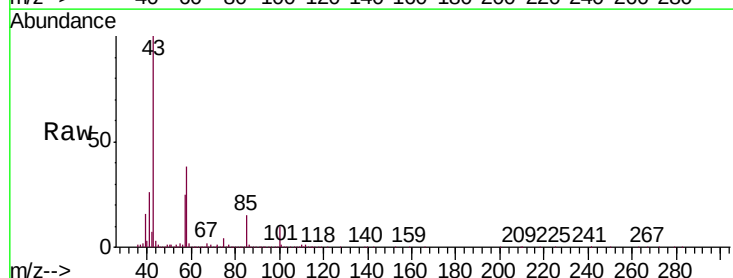
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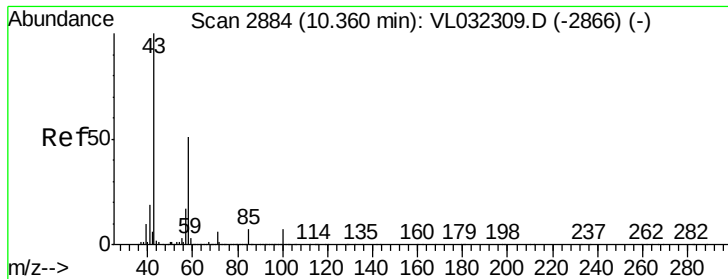
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 15.39 ppbv
RT: 8.95 min Scan# 2447
Delta R.T. -0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.4	28.9	43.3





#51

2-Hexanone

Concen: 16.24 ppbv

RT: 10.36 min Scan# 2884

Delta R.T. -0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 6131564

Ion Ratio Lower Upper

43 100

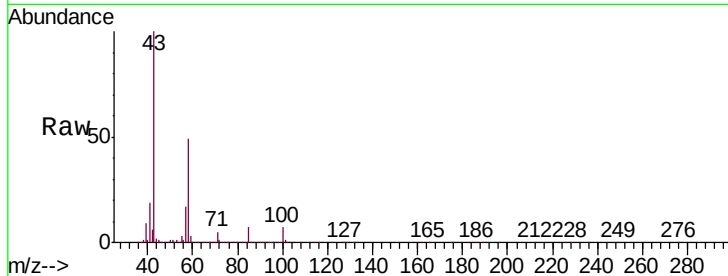
58 49.3 39.1 58.7

98 0.3 0.3 0.5

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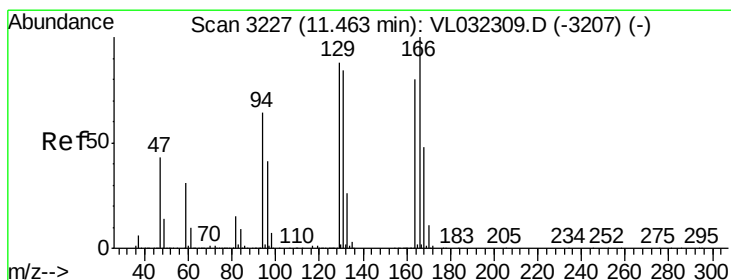
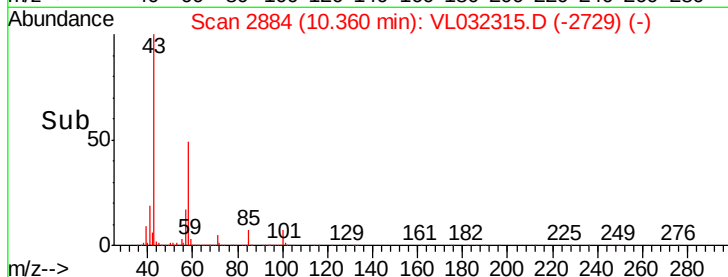
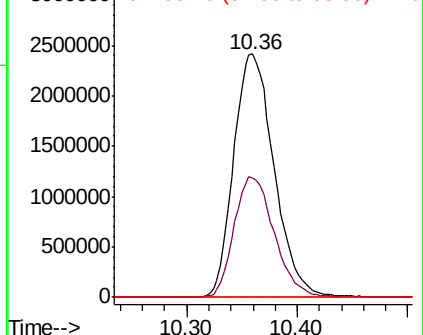


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 13.55 ppbv

RT: 11.46 min Scan# 3227

Delta R.T. -0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Tgt Ion:164 Resp: 1940684

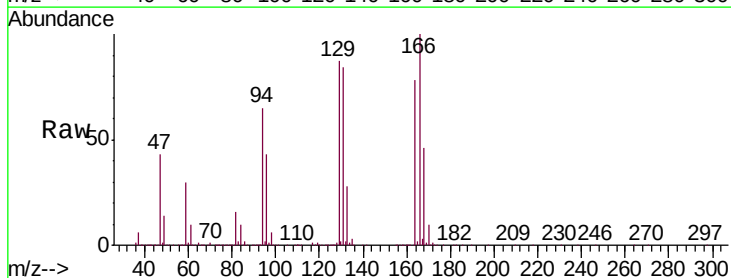
Ion Ratio Lower Upper

164 100

166 127.7 100.0 150.0

129 110.8 87.9 131.9

131 107.2 83.8 125.8



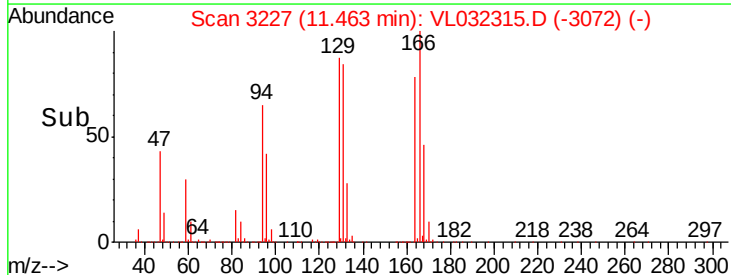
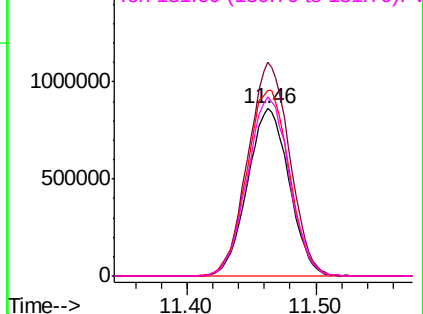
Abundance

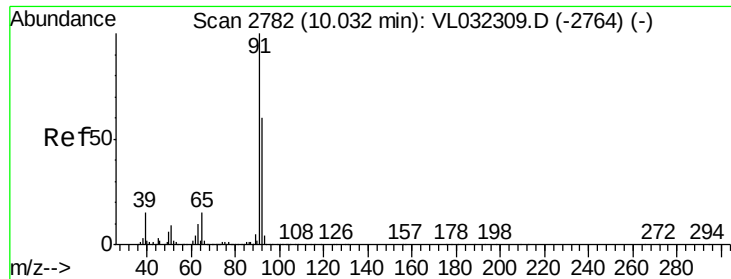
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 12.38 ppbv

RT: 10.03 min Scan# 2783

Delta R.T. 0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 6228405

Ion Ratio Lower Upper

91 100

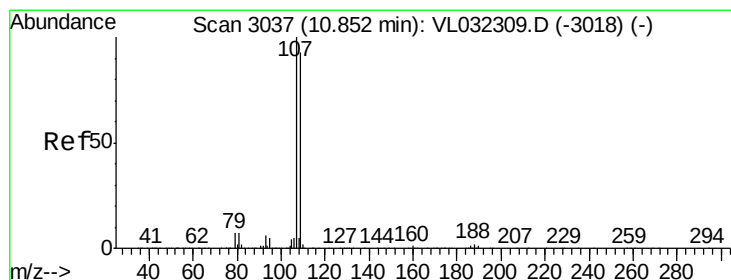
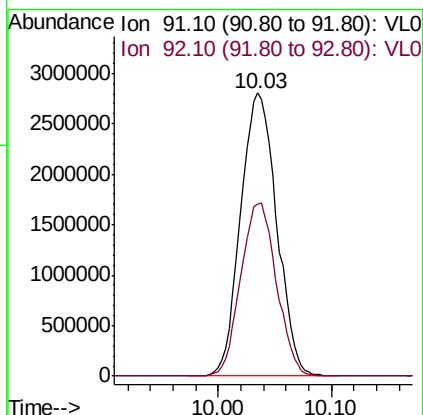
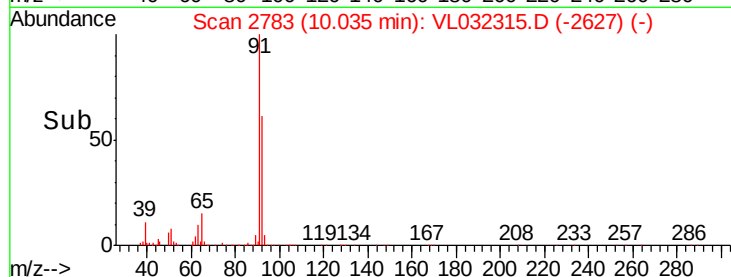
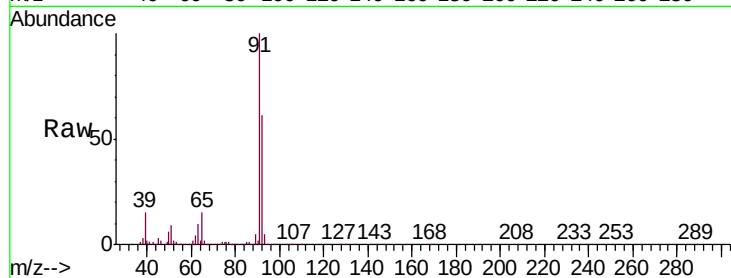
92 60.8 48.6 72.8

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#54

1,2-Dibromoethane

Concen: 14.96 ppbv

RT: 10.85 min Scan# 3037

Delta R.T. -0.00 min

Lab File: VL032315.D

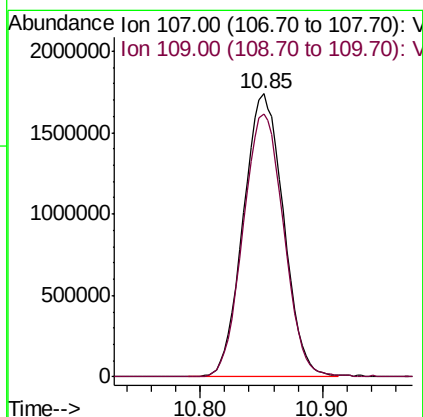
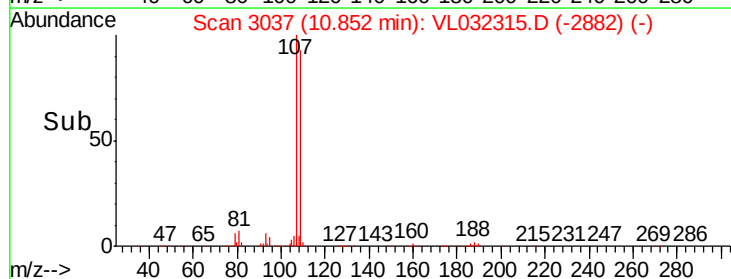
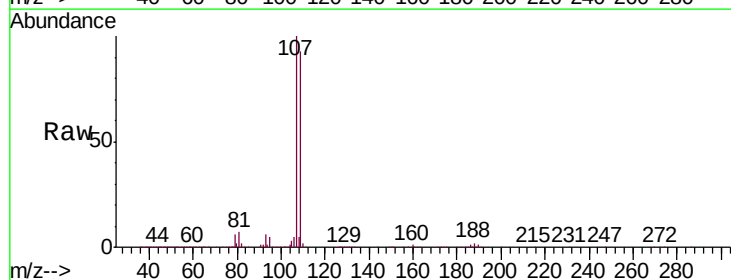
Acq: 27 Jul 2018 4:36

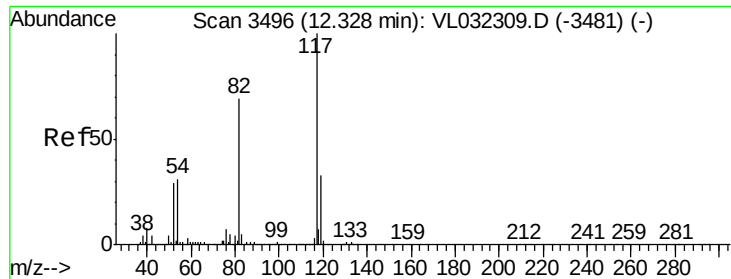
Tgt Ion: 107 Resp: 3960156

Ion Ratio Lower Upper

107 100

109 92.9 74.1 111.1





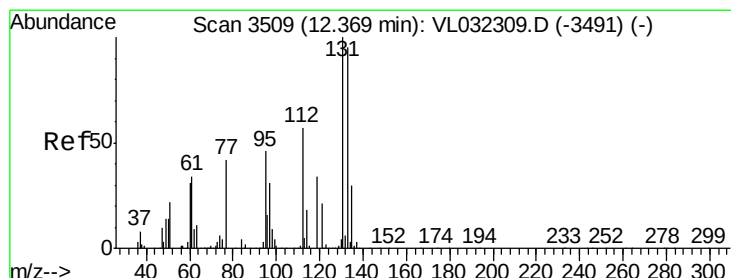
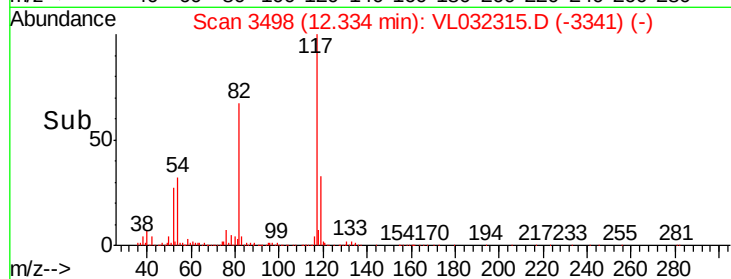
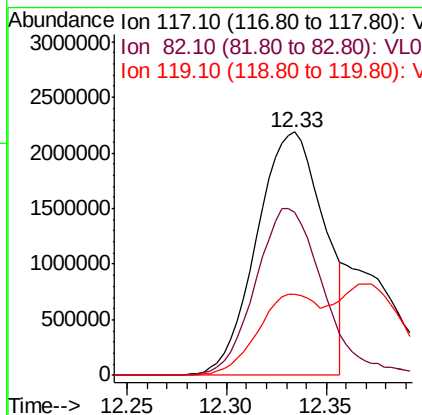
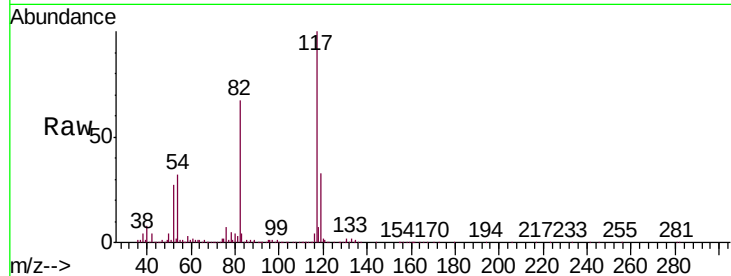
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.33 min Scan# 3498
Delta R.T. 0.01 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 5111023
Ion Ratio Lower Upper
117 100
82 70.4 52.6 78.8
119 34.2 25.7 38.5

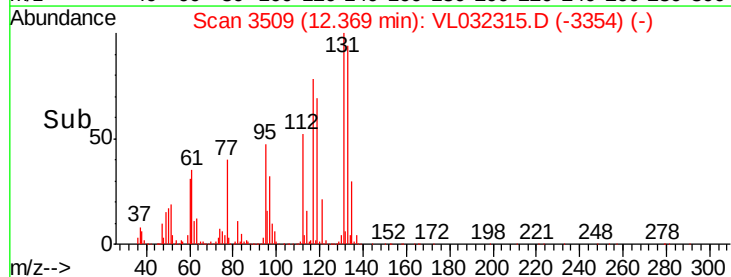
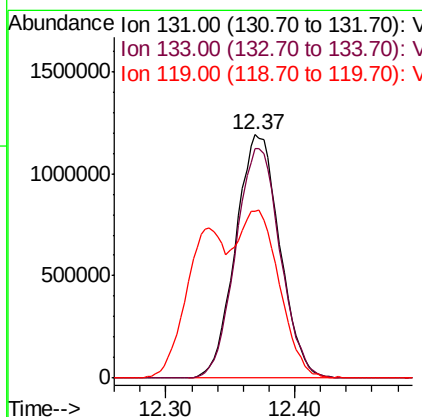
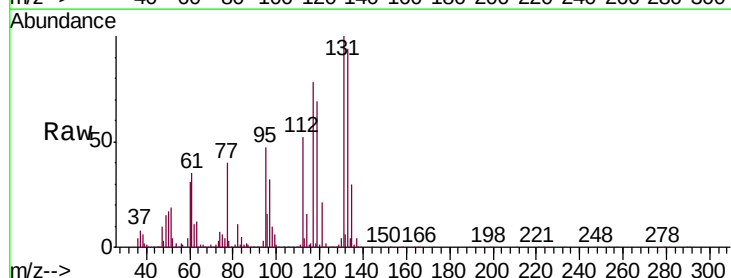
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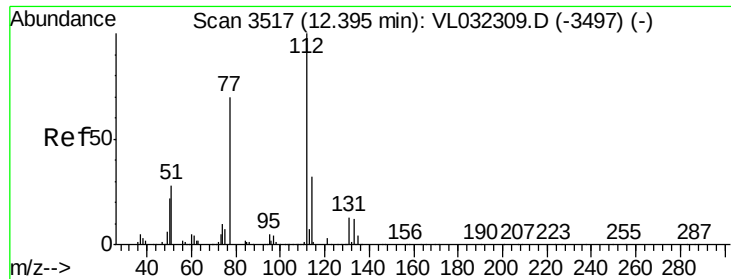
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#56
1,1,1,2-Tetrachloroethane
Concen: 12.51 ppbv
RT: 12.37 min Scan# 3509
Delta R.T. -0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Tgt Ion:131 Resp: 2833199
Ion Ratio Lower Upper
131 100
133 95.8 75.8 113.6
119 69.8 48.1 72.1





#57

Chlorobenzene

Concen: 12.55 ppbv

RT: 12.39 min Scan# 3517

Delta R.T. -0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 112 Resp: 5254580

Ion Ratio Lower Upper

112 100

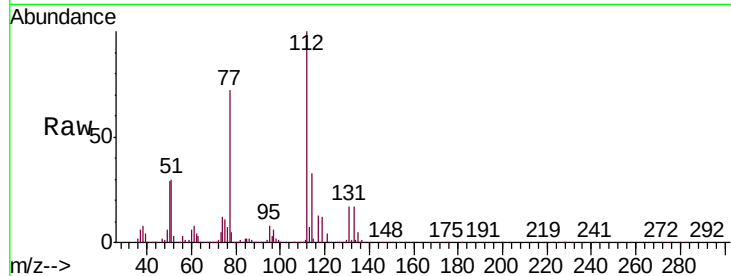
77 72.0 56.5 84.7

114 32.8 28.4 34.7

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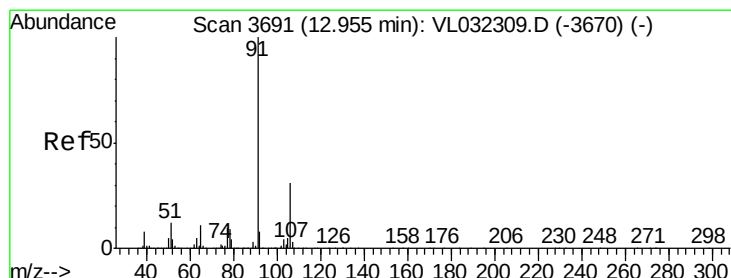
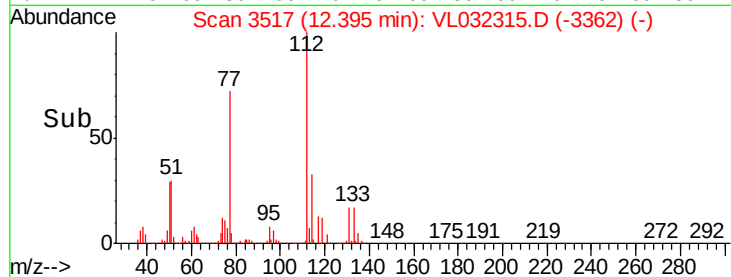
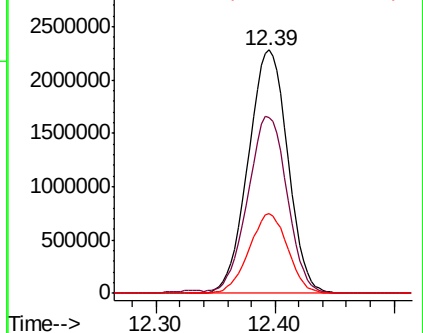
7/30/2018 11:43:03 AM



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: 13.73 ppbv

RT: 12.95 min Scan# 3691

Delta R.T. -0.00 min

Lab File: VL032315.D

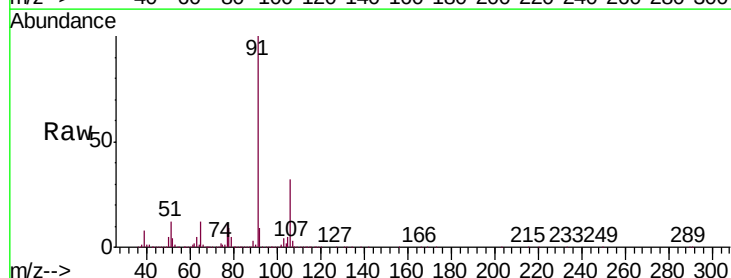
Acq: 27 Jul 2018 4:36

Tgt Ion: 91 Resp: 9727577

Ion Ratio Lower Upper

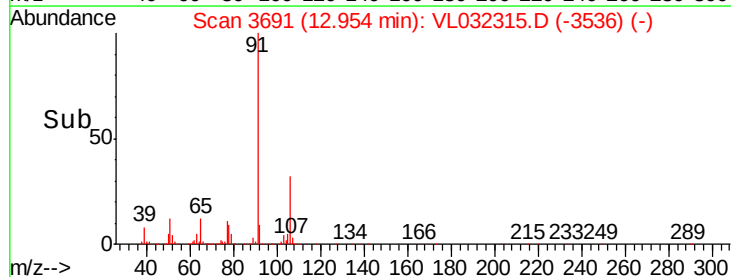
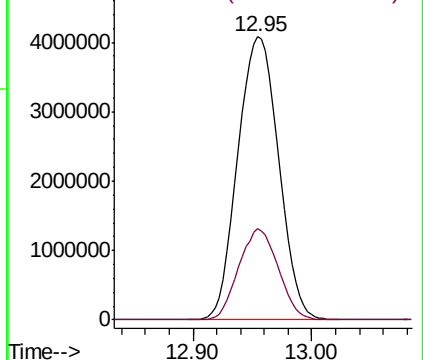
91 100

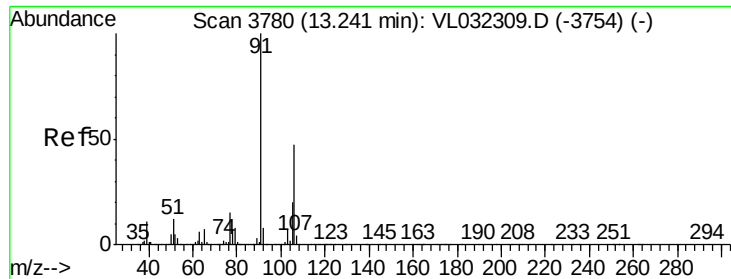
106 32.1 25.0 37.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





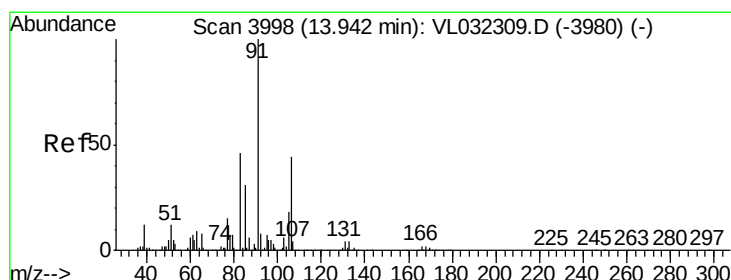
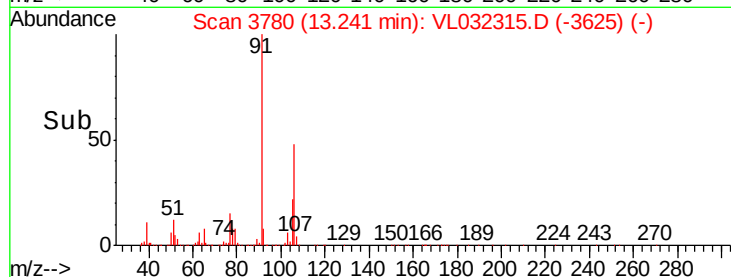
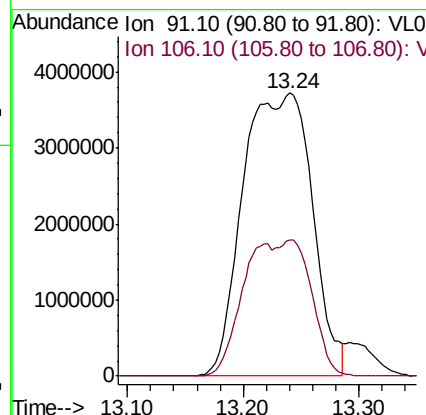
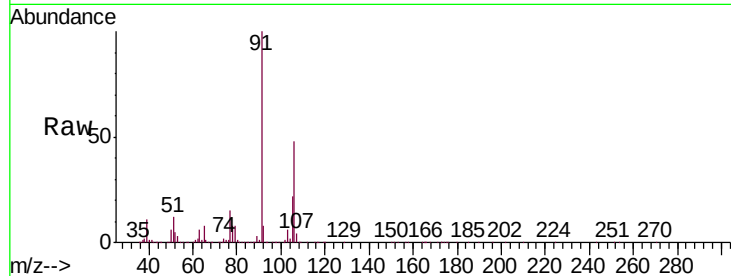
#59
m/p-Xylene
Concen: 25.23 ppbv m
RT: 13.24 min Scan# 3780
Delta R.T. -0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp:15418972
Ion Ratio Lower Upper
91 100
106 46.7 36.4 54.6

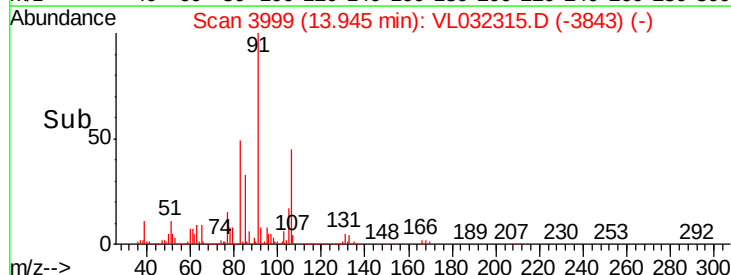
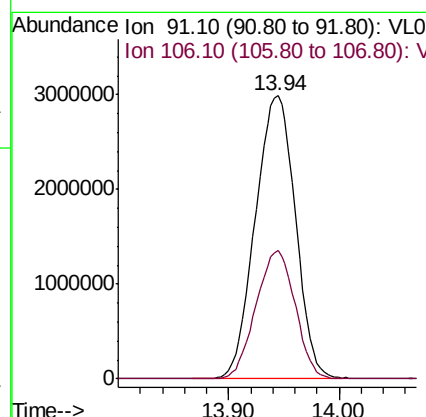
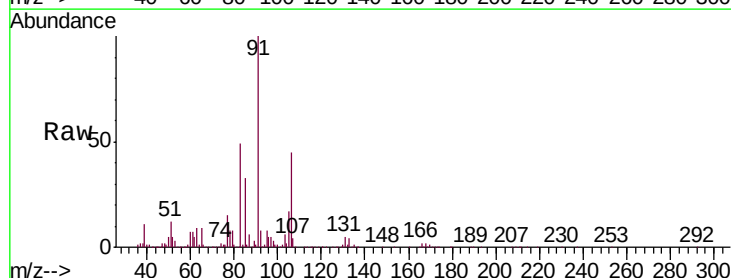
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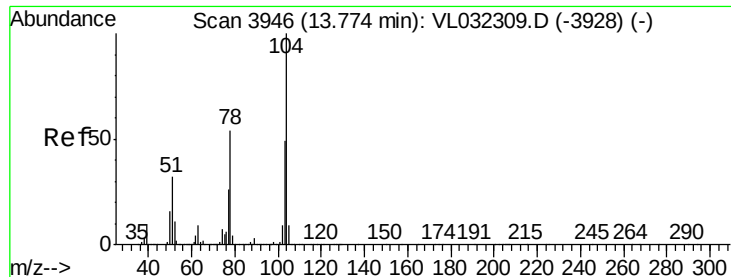
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#60
o-Xylene
Concen: 12.34 ppbv
RT: 13.94 min Scan# 3998
Delta R.T. 0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Tgt Ion: 91 Resp: 7516141
Ion Ratio Lower Upper
91 100
106 44.4 22.4 67.0





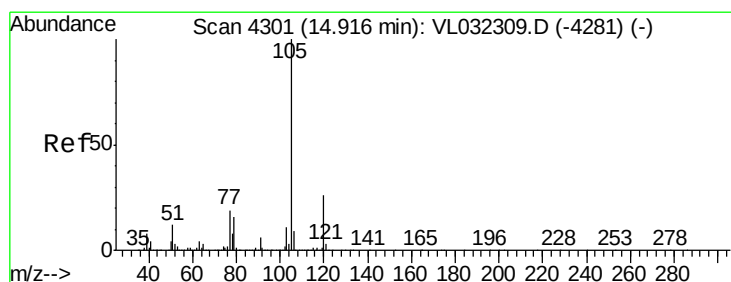
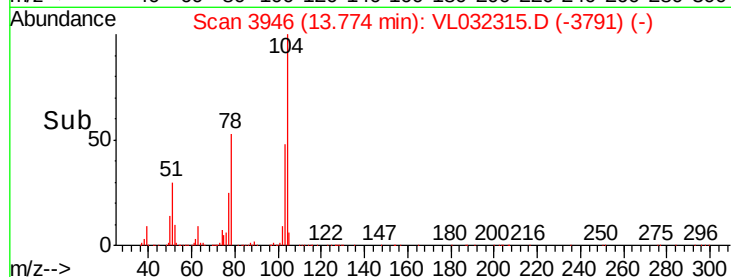
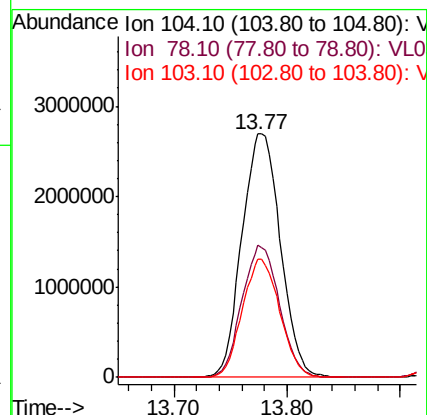
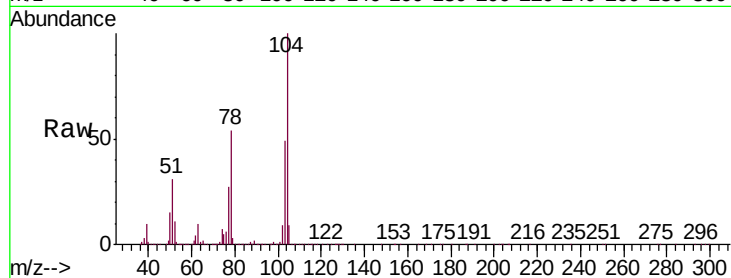
#61
Stvrene
Concen: 14.26 ppbv
RT: 13.77 min Scan# 3946
Delta R.T. -0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.9	42.6	63.8
103	47.4	38.0	57.0

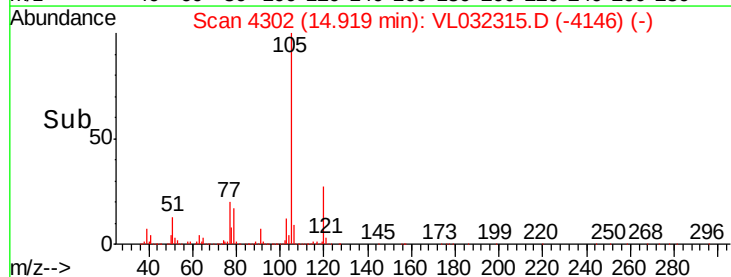
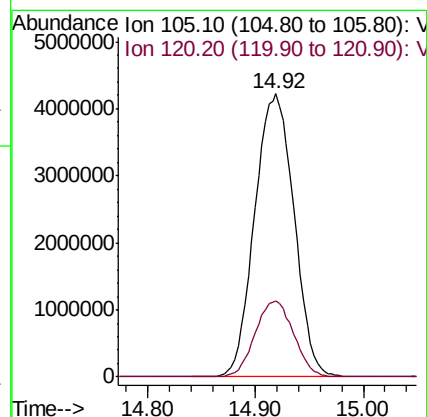
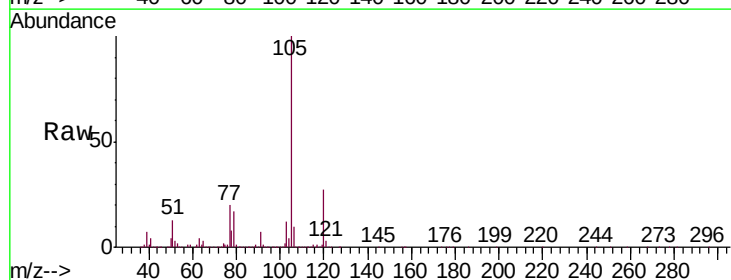
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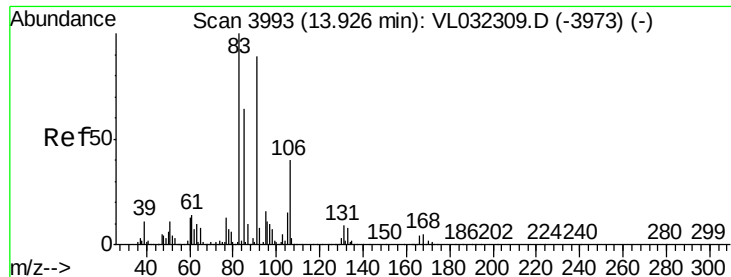
MMDadoda
7/30/2018 11:43:03 AM



#62
Isopropylbenzene
Concen: 12.38 ppbv
RT: 14.92 min Scan# 4302
Delta R.T. 0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.3	20.4	30.6





#63

1,1,2,2-Tetrachloroethane

Concen: 10.84 ppbv

RT: 13.93 min Scan# 3994

Delta R.T. 0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 5639840

Ion Ratio Lower Upper

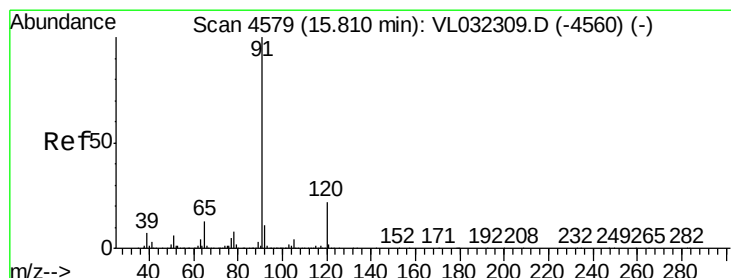
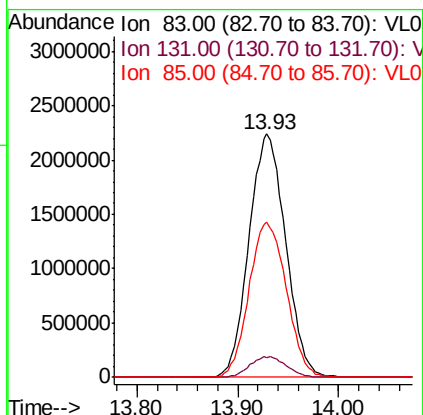
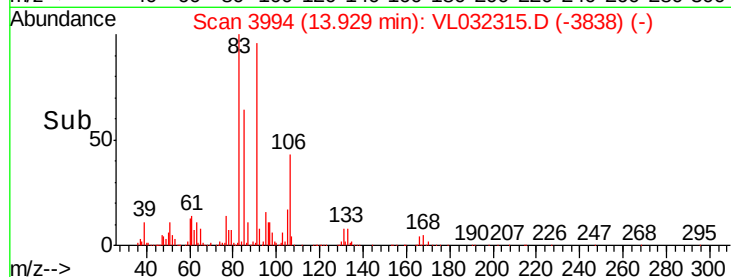
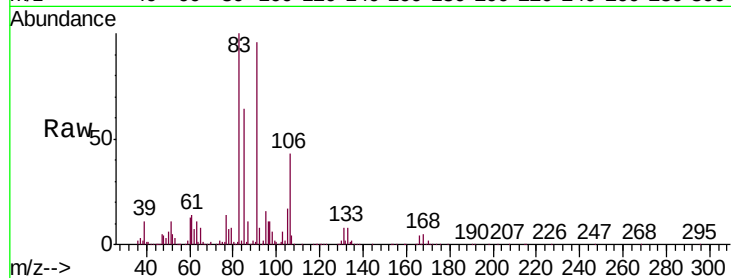
83 100

131 8.6 4.3 12.8

85 65.0 32.6 97.7

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#64

n-propylbenzene

Concen: 13.03 ppbv

RT: 15.81 min Scan# 4580

Delta R.T. 0.00 min

Lab File: VL032315.D

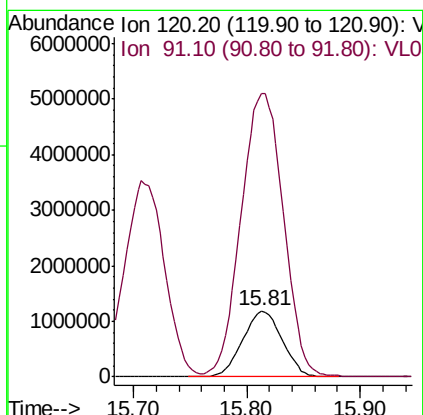
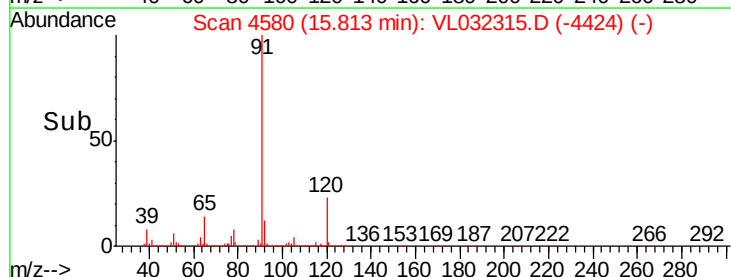
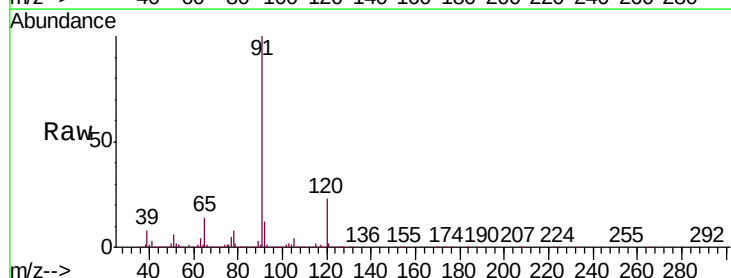
Acq: 27 Jul 2018 4:36

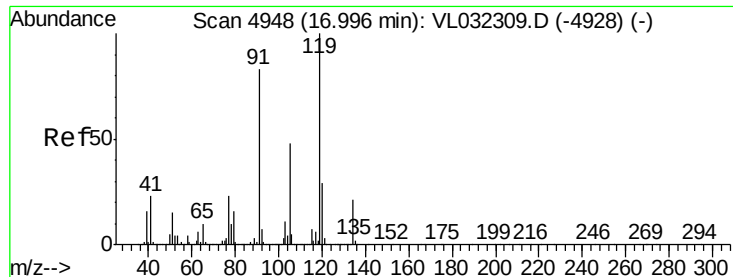
Tgt Ion: 120 Resp: 2882548

Ion Ratio Lower Upper

120 100

91 462.0 381.8 572.8





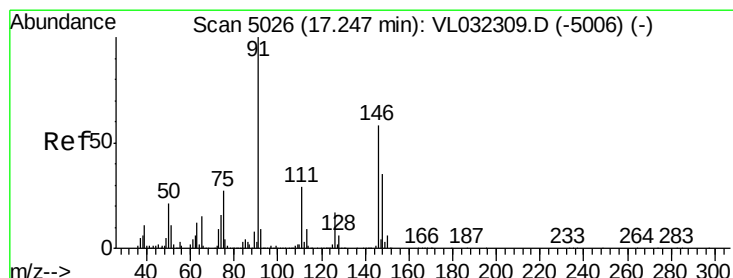
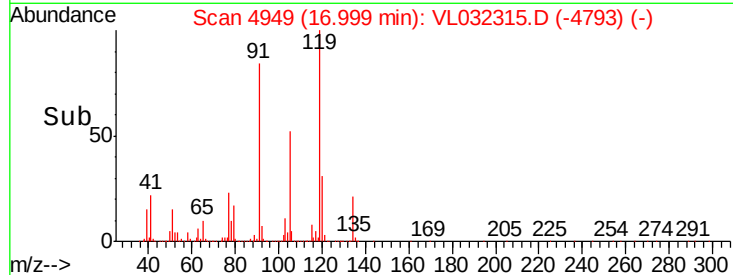
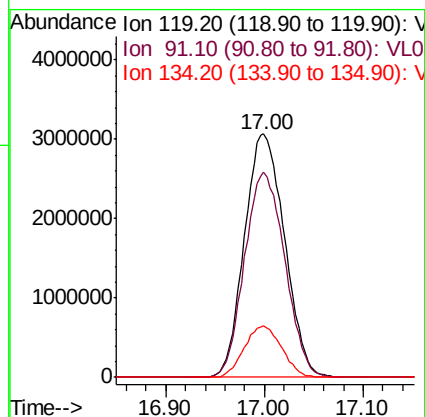
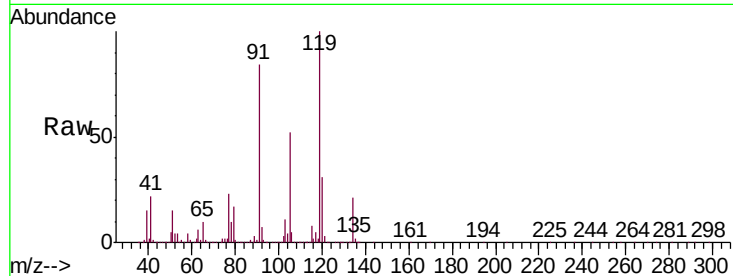
#65
tert-Butylbenzene
Concen: 11.73 ppbv
RT: 17.00 min Scan# 4949
Delta R.T. 0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 119 Resp: 8630633
Ion Ratio Lower Upper
119 100
91 84.7 67.5 101.3
134 19.8 15.8 23.6

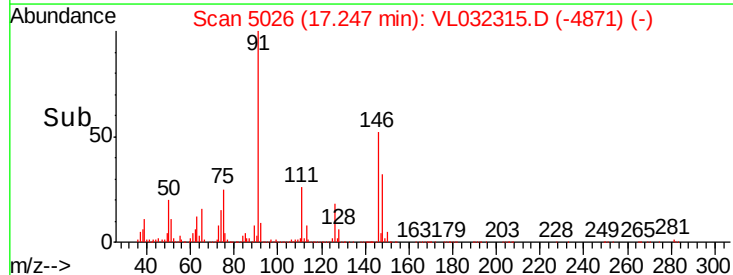
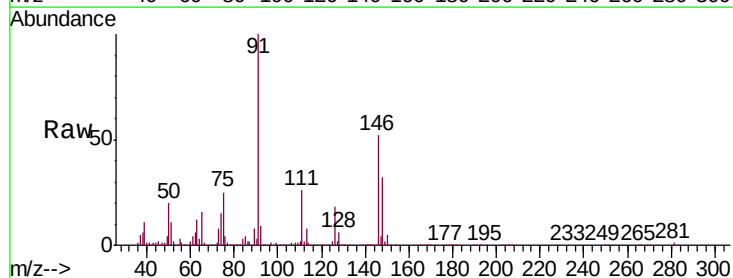
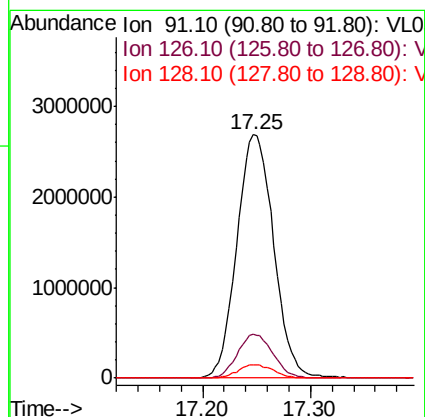
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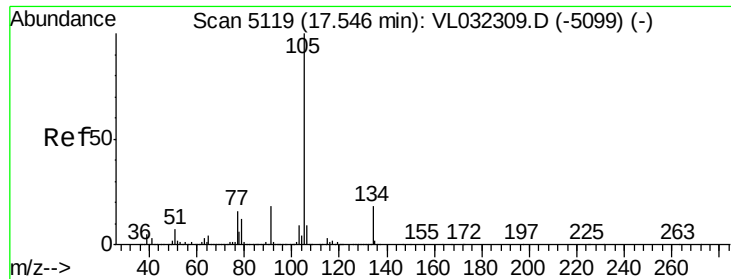
MMDadoda
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#66
Benzyl Chloride
Concen: 15.49 ppbv
RT: 17.25 min Scan# 5026
Delta R.T. -0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Tgt Ion: 91 Resp: 6385096
Ion Ratio Lower Upper
91 100
126 17.4 13.7 20.5
128 5.5 4.3 6.5





#67

sec-Butylbenzene

Concen: 11.79 ppbv

RT: 17.55 min Scan# 5120

Delta R.T. 0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp:12967723

Ion Ratio Lower Upper

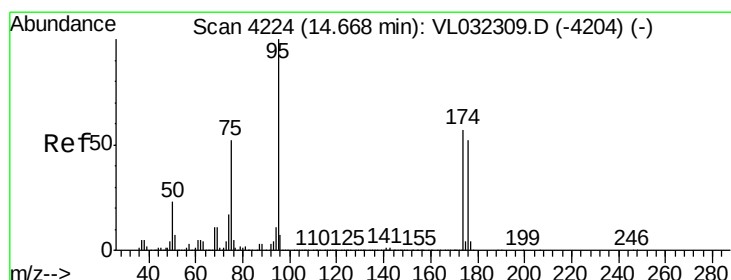
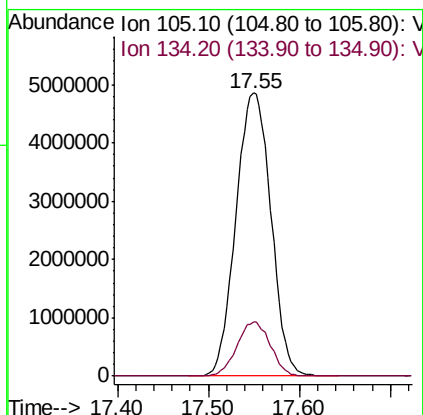
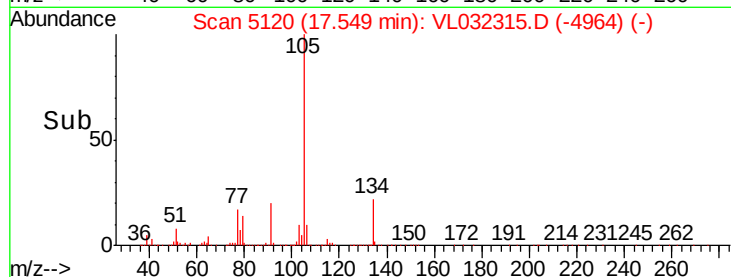
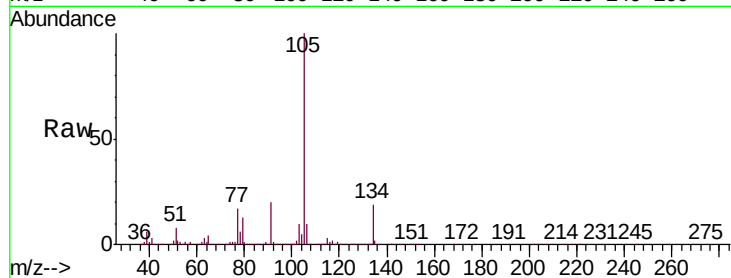
105 100

134 18.4 14.2 21.4

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.88 ppbv

RT: 14.66 min Scan# 4223

Delta R.T. -0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

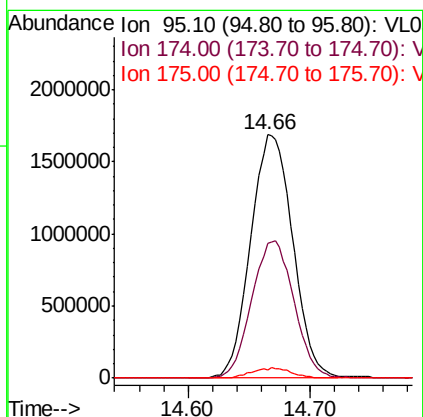
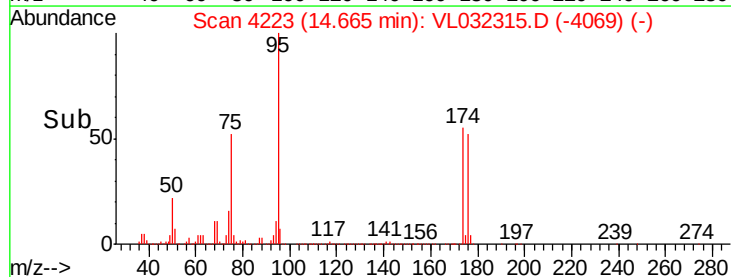
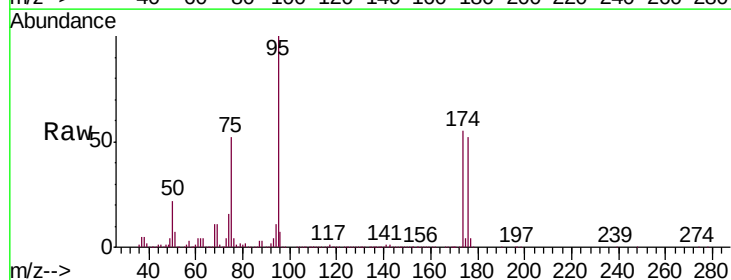
Tgt Ion: 95 Resp: 4038924

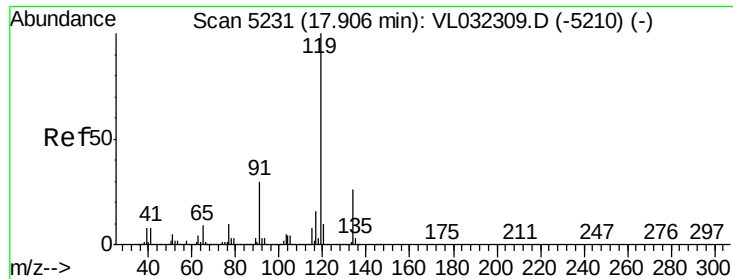
Ion Ratio Lower Upper

95 100

174 56.9 45.5 68.3

175 4.0 3.3 4.9





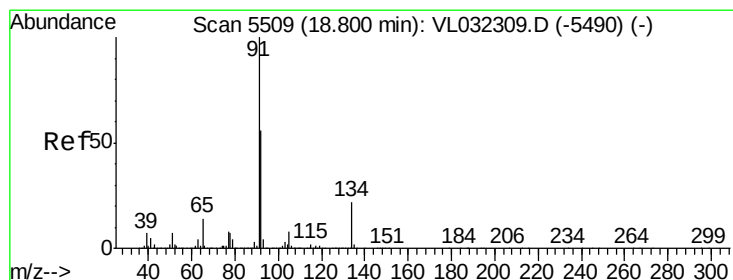
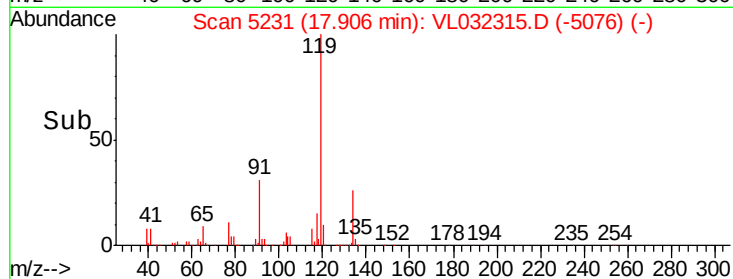
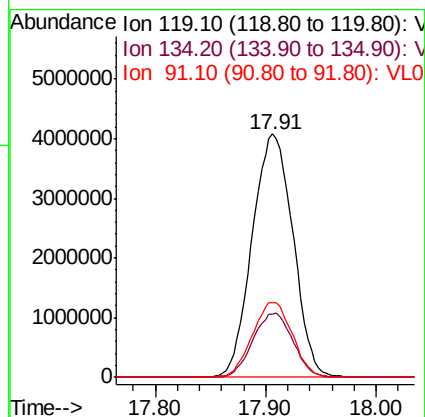
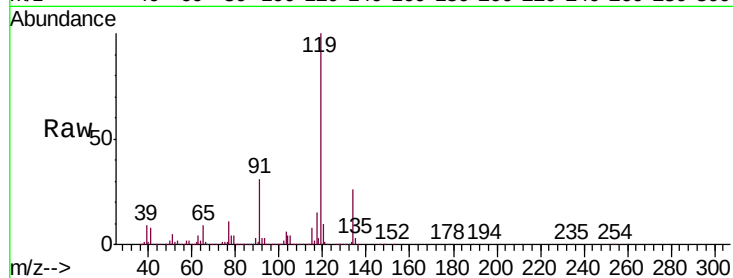
#69
 p-Isopropyltoluene
 Concen: 12.26 ppbv
 RT: 17.91 min Scan# 5231
 Delta R.T. -0.00 min
 Lab File: VL032315.D
 Acq: 27 Jul 2018 4:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:119 Resp:10437290
 Ion Ratio Lower Upper
 119 100
 134 26.0 20.3 30.5
 91 30.3 23.8 35.6

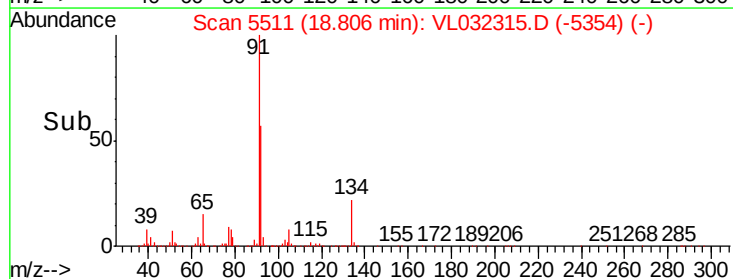
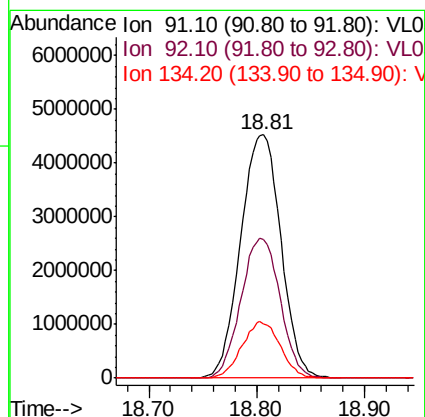
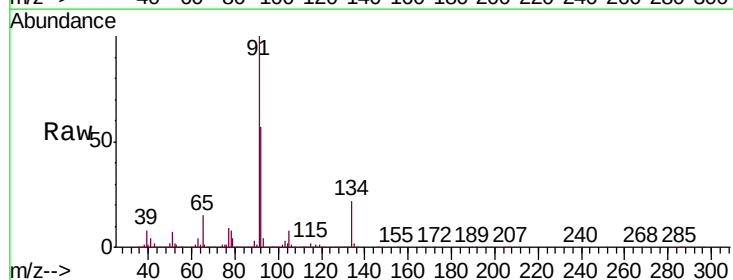
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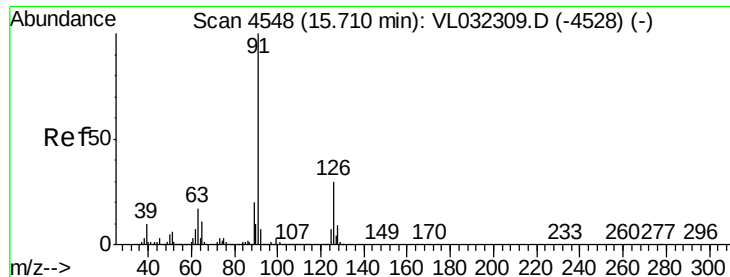
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#70
 n-Butylbenzene
 Concen: 12.33 ppbv
 RT: 18.81 min Scan# 5511
 Delta R.T. 0.01 min
 Lab File: VL032315.D
 Acq: 27 Jul 2018 4:36

Tgt Ion: 91 Resp:11714891
 Ion Ratio Lower Upper
 91 100
 92 56.3 44.2 66.4
 134 22.1 17.4 26.2





#71

2-Chlorotoluene

Concen: 12.59 ppbv

RT: 15.71 min Scan# 4547

Delta R.T. -0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 8671900

Ion Ratio Lower Upper

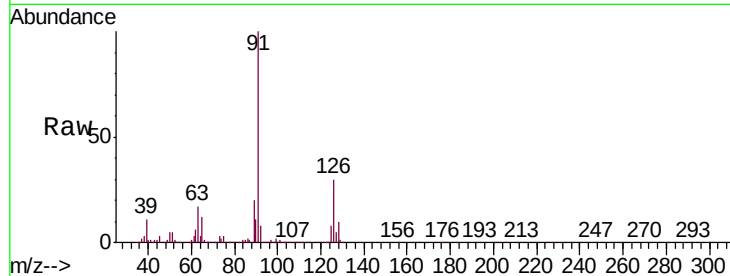
91 100

126 30.1 11.8 47.0

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

6000000

5000000

4000000

3000000

2000000

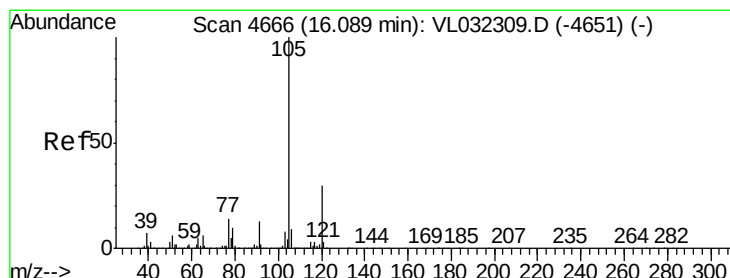
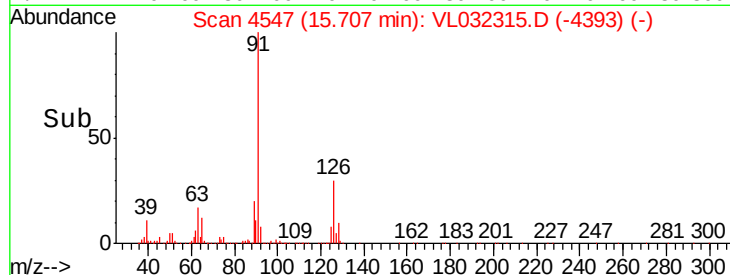
1000000

0

15.60

15.70

Time-->



#72

4-Ethyltoluene

Concen: 13.06 ppbv

RT: 16.09 min Scan# 4667

Delta R.T. 0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Tgt Ion:105 Resp: 9053648

Ion Ratio Lower Upper

105 100

120 29.6 23.1 34.7

91 12.7 10.0 15.0

77 14.3 11.5 17.3

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

5000000

4000000

3000000

2000000

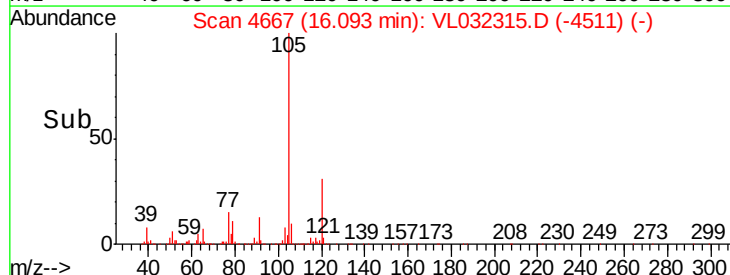
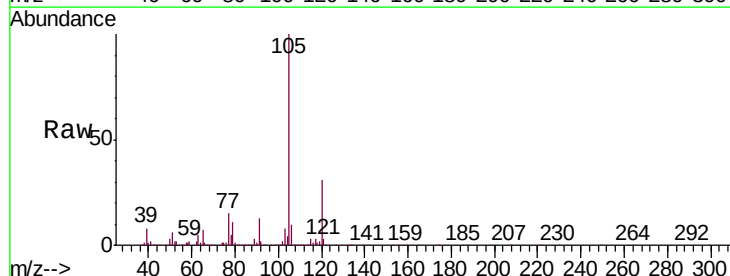
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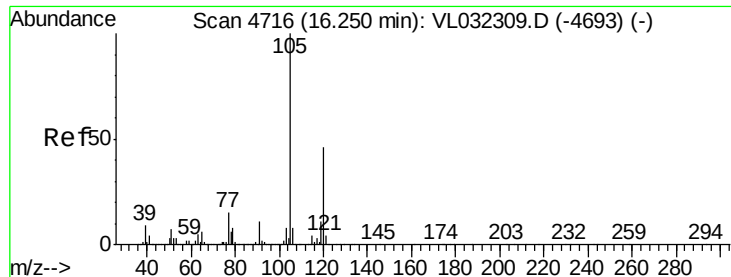
0

16.00

16.10

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 12.61 ppbv

RT: 16.25 min Scan# 4716

Delta R.T. -0.00 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 8550200

Ion Ratio Lower Upper

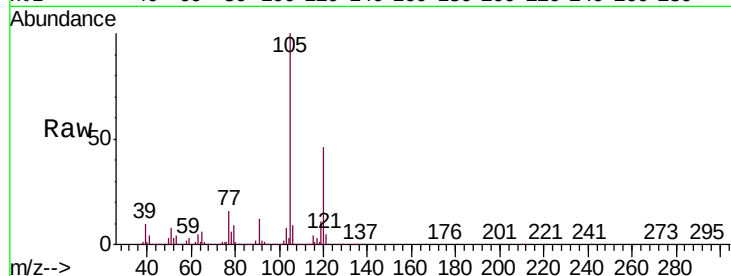
105 100

120 46.5 36.5 54.7

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.25

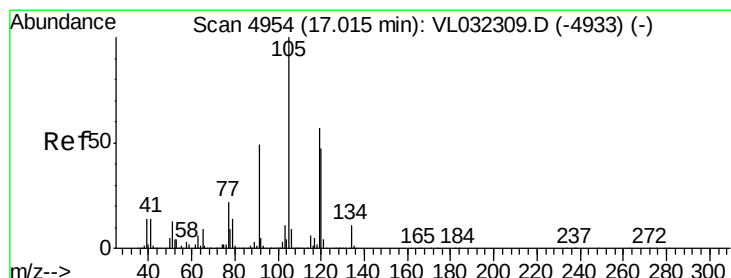
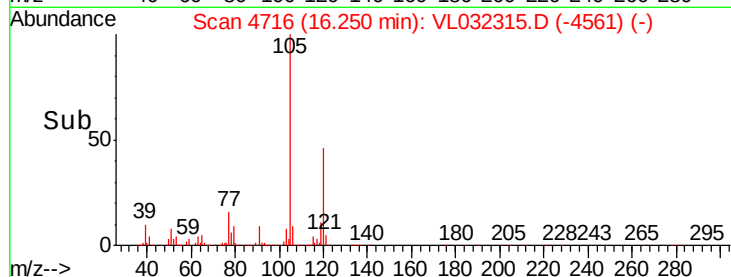
3000000

2000000

1000000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 11.52 ppbv

RT: 17.02 min Scan# 4956

Delta R.T. 0.01 min

Lab File: VL032315.D

Acq: 27 Jul 2018 4:36

Tgt Ion:105 Resp: 8210972

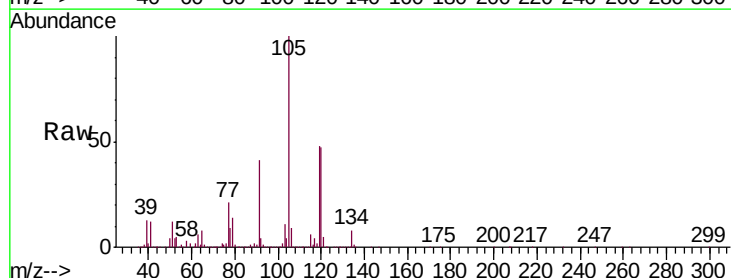
Ion Ratio Lower Upper

105 100

120 46.6 37.8 56.6

91 41.1 39.4 59.0

77 20.7 17.6 26.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

5000000

4000000

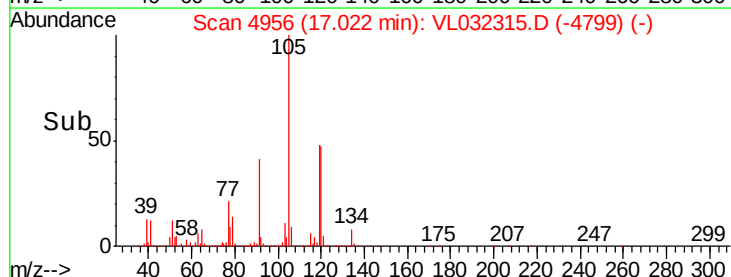
3000000

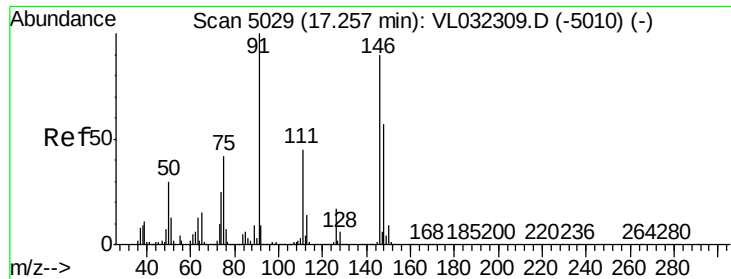
2000000

1000000

0

Time-->





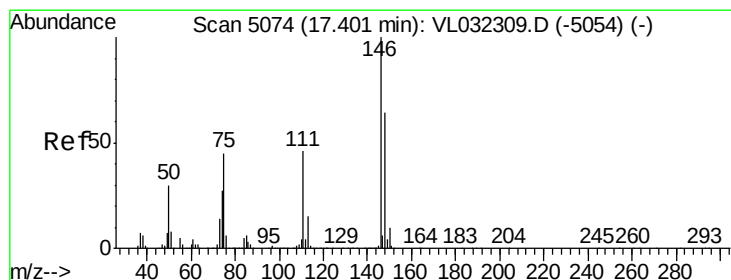
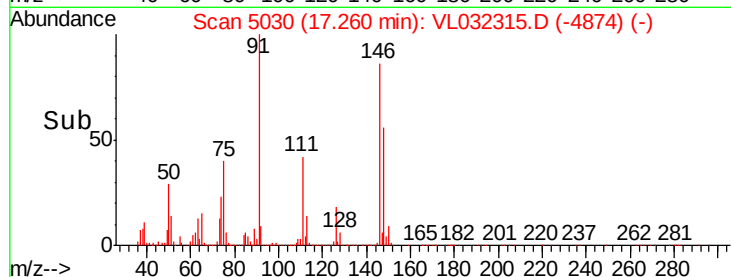
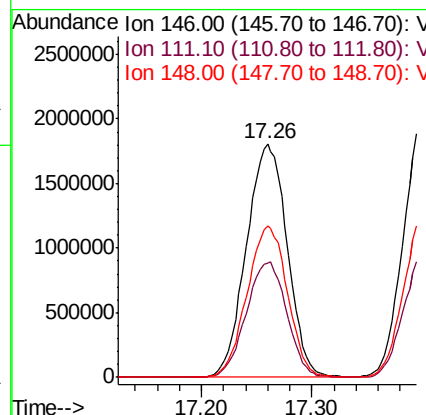
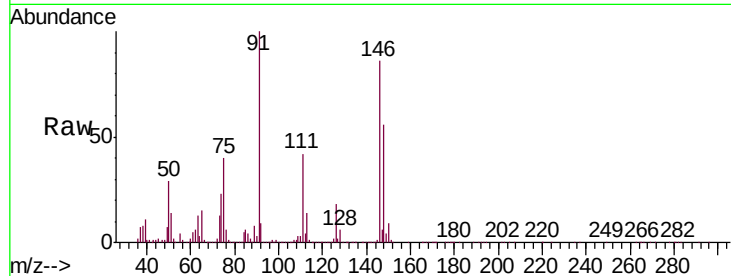
#75
 1,3-Dichlorobenzene
 Concen: 11.62 ppbv
 RT: 17.26 min Scan# 5030
 Delta R.T. 0.00 min
 Lab File: VL032315.D
 Acq: 27 Jul 2018 4:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:146 Resp: 4620377
 Ion Ratio Lower Upper
 146 100
 111 49.3 24.6 73.8
 148 64.3 31.6 95.0

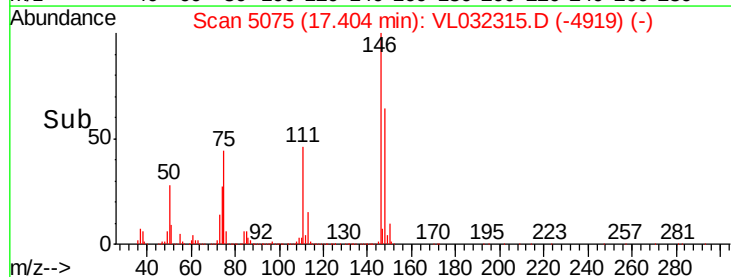
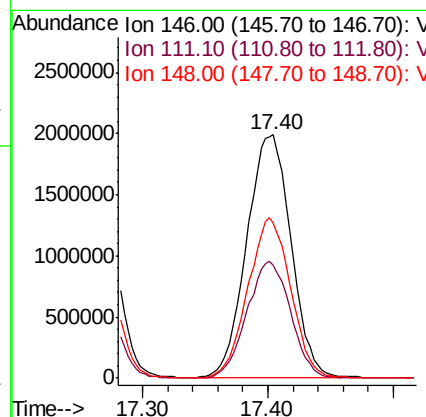
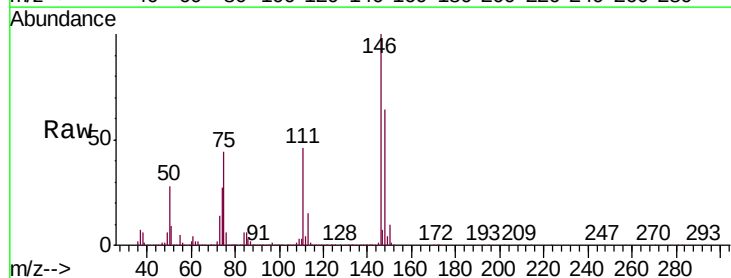
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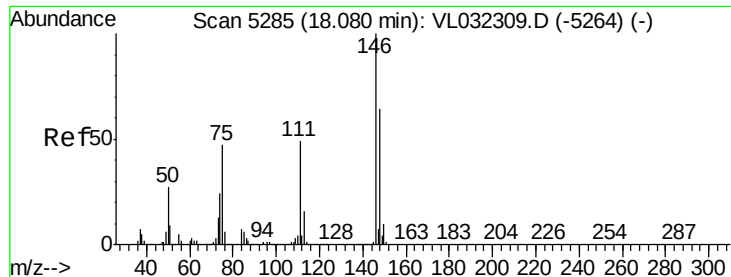
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#76
 1,4-Dichlorobenzene
 Concen: 12.34 ppbv
 RT: 17.40 min Scan# 5075
 Delta R.T. 0.00 min
 Lab File: VL032315.D
 Acq: 27 Jul 2018 4:36

Tgt Ion:146 Resp: 4859745
 Ion Ratio Lower Upper
 146 100
 111 47.6 23.6 70.8
 148 64.2 32.1 96.3





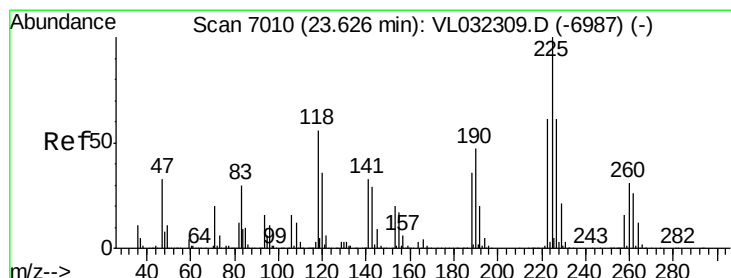
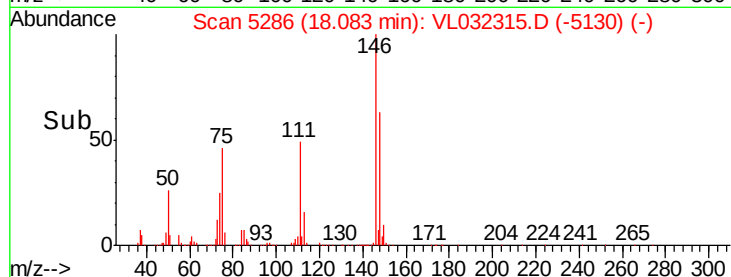
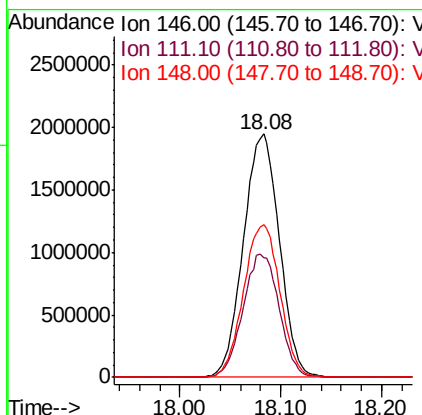
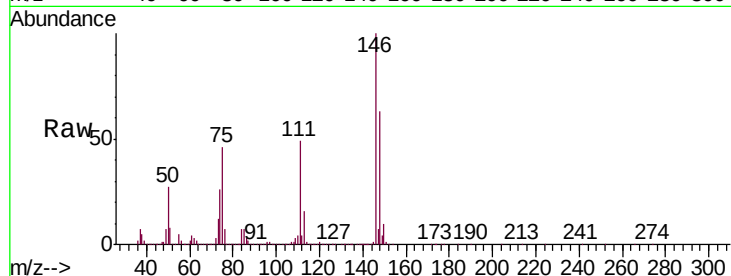
#77
 1,2-Dichlorobenzene
 Concen: 12.51 ppbv
 RT: 18.08 min Scan# 5286
 Delta R.T. 0.00 min
 Lab File: VL032315.D
 Acq: 27 Jul 2018 4:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.1	25.1	75.3
148	63.7	31.9	95.7

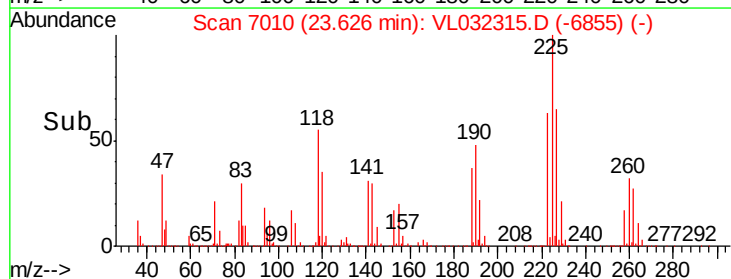
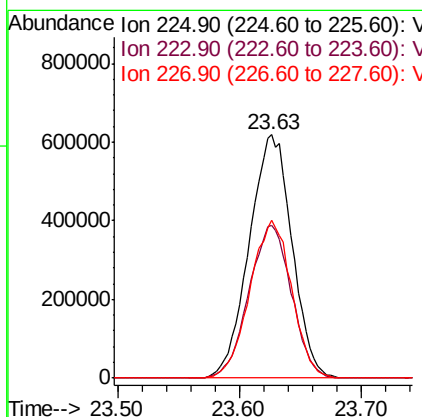
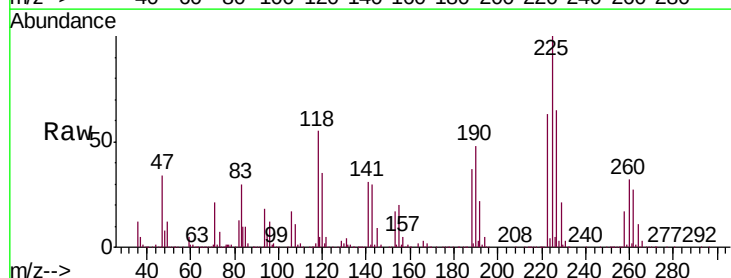
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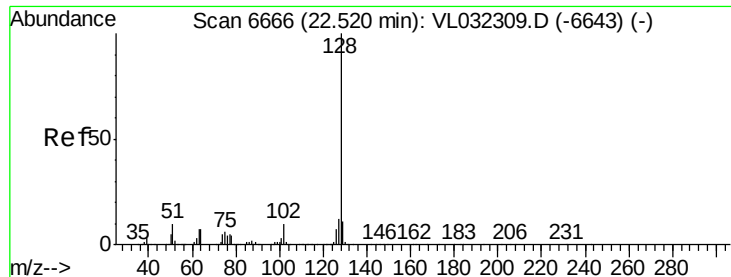
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#78
 Hexachloro-1,3-Butadiene
 Concen: 11.87 ppbv
 RT: 23.63 min Scan# 7010
 Delta R.T. -0.00 min
 Lab File: VL032315.D
 Acq: 27 Jul 2018 4:36

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.5	75.7
227	63.2	51.3	76.9





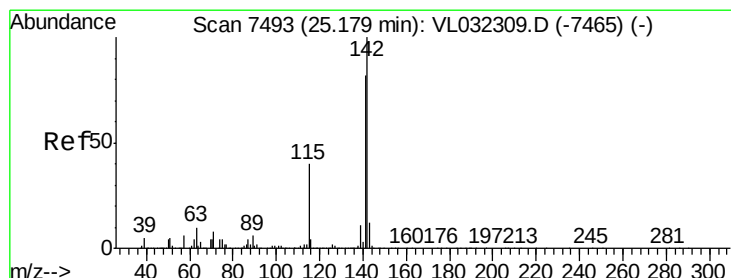
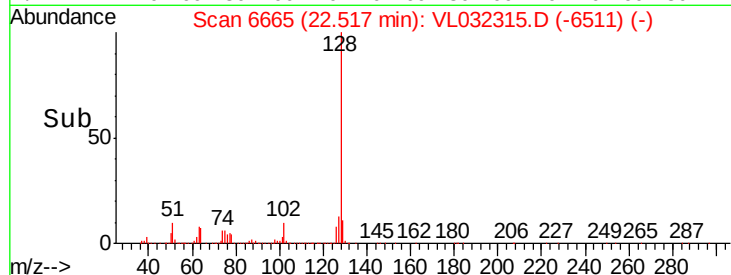
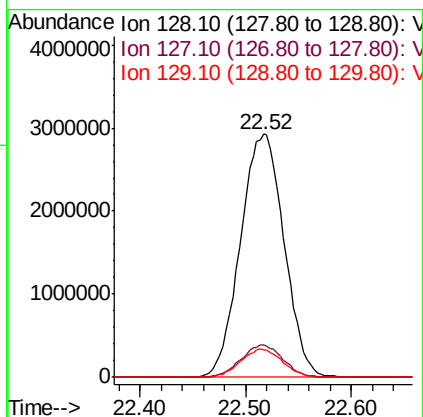
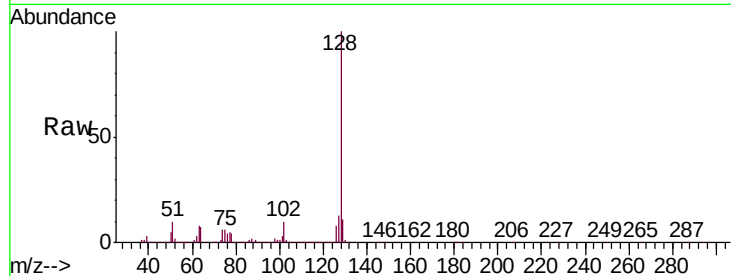
#79
Naphthalene
Concen: 13.89 ppbv
RT: 22.52 min Scan# 6665
Delta R.T. -0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	9.9	14.9
129	11.2	8.8	13.2

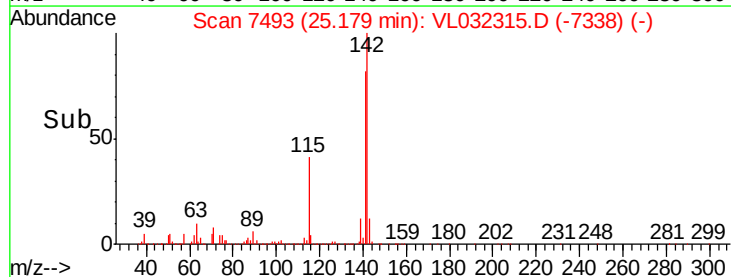
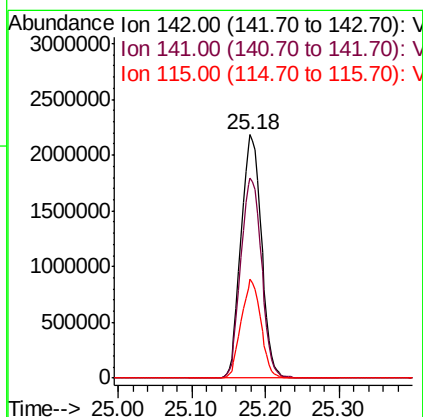
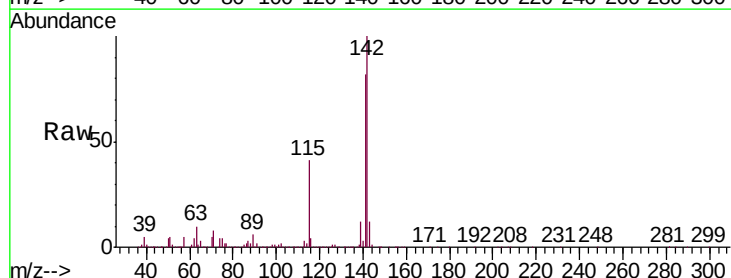
Manual Integrations
APPROVED

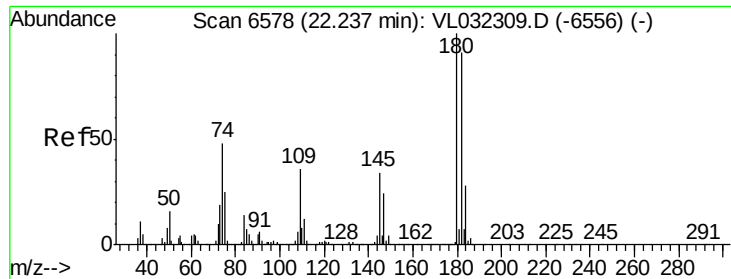
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7/30/2018 11:43:03 AM



#80
Naphthalene, 2-methyl-
Concen: 16.53 ppbv
RT: 25.18 min Scan# 7493
Delta R.T. -0.00 min
Lab File: VL032315.D
Acq: 27 Jul 2018 4:36

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.5	66.7	100.1
115	39.2	31.1	46.7





#81
 1,2,4-Trichlorobenzene
 Concen: 13.40 ppbv
 RT: 22.24 min Scan# 6579
 Delta R.T. 0.00 min
 Lab File: VL032315.D
 Acq: 27 Jul 2018 4:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.6	76.2	114.2
184	30.0	24.3	36.5

Manual Integrations
 APPROVED

MMDadoda
 7/30/2018 11:43:03 AM

