

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\
 Data File : VL032311.D
 Acq On : 27 Jul 2018 1:57
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 7/30/2018 11:42:58 AM

Quant Time: Jul 27 05:47:31 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	5.83	49	2121994	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	4307441	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.32	117	5104599	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.66	95	4025198	9.85	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.12	85	248043	0.75	ppbv	99
3) Chlorodifluoromethane	3.06	51	218880	0.92	ppbv	100
4) Chloromethane	3.22	50	131733	0.94	ppbv	99
5) Vinyl Chloride	3.34	62	117833	0.89	ppbv	93
6) Bromomethane	3.57	94	63111	0.88	ppbv	99
7) Chloroethane	3.65	64	40875	0.87	ppbv	96
8) Dichlorotetrafluoroethane	3.27	85	273585	0.94	ppbv	100
9) Propene	3.08	41	93502	0.90	ppbv	97
10) Heptane	8.32	43	333954	1.00	ppbv	99
11) Trichlorofluoromethane	4.06	101	256484	0.92	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.62	101	177437	0.99	ppbv	99
13) Ethanol	3.71	45	33052m	1.11	ppbv	
14) Bromoethene	3.85	108	71775	0.89	ppbv #	96
15) Acetone	3.97	43	213903	0.98	ppbv	100
16) 1,3-Butadiene	3.41	39	100365	0.90	ppbv	98
17) tert-Butyl alcohol	4.43	59	66227	0.94	ppbv	95
18) 1,1-Dichloroethene	4.41	96	78027	0.93	ppbv	97
19) Isopropyl Alcohol	4.09	45	149622	0.99	ppbv #	92
20) Methylene Chloride	4.47	84	83863	0.97	ppbv	94
21) Allyl Chloride	4.54	41	137605	0.94	ppbv	96
22) trans-1,2-Dichloroethene	5.03	96	74496	0.86	ppbv	95
23) Vinyl Acetate	5.22	43	336558	0.85	ppbv #	97
24) 1,1-Dichloroethane	5.16	63	260963	0.91	ppbv	99
25) Ethyl Acetate	5.85	43	464116	0.96	ppbv	99
26) Hexane	5.85	57	211582	0.96	ppbv	98
27) Carbon Disulfide	4.69	76	174525	0.89	ppbv	98
28) Methyl tert-Butyl Ether	5.19	73	268085	0.83	ppbv	99
29) Chloroform	5.91	83	298575	0.92	ppbv	93
30) Cyclohexane	7.33	84	141365	0.77	ppbv #	60
31) cis-1,2-Dichloroethene	5.71	61	179001	0.84	ppbv	97
32) 1,1,1-Trichloroethane	6.69	97	279156	0.85	ppbv	99
34) 2-Butanone	5.40	43	289243	0.97	ppbv	99
35) Carbon Tetrachloride	7.21	117	271463	0.92	ppbv	95
36) Benzene	7.08	78	403869	0.95	ppbv	96
37) 1,2-Dichloroethane	6.49	62	233562	0.94	ppbv	99
38) Trichloroethene	8.04	130	162727	1.13	ppbv	97
39) 1,2-Dichloropropane	7.82	63	198468	1.13	ppbv	94
40) 1,4-Dioxane	8.06	88	69221m	1.34	ppbv	
41) Tetrahydrofuran	6.24	42	152358	0.89	ppbv	99
42) Bromodichloromethane	7.99	83	375854	1.14	ppbv #	98
43) Methyl Methacrylate	8.22	69	181464	1.04	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.07	57	890739	1.18	ppbv	97
45) t-1,3-Dichloropropene	9.49	75	191618	0.90	ppbv	96
46) cis-1,3-Dichloropropene	8.92	75	245337	0.93	ppbv	96
47) 1,1,2-Trichloroethane	9.70	97	194513	1.06	ppbv	95
48) Dibromochloromethane	10.53	129	278789	1.04	ppbv	98
49) Bromoform	13.29	173	230050	0.98	ppbv	99
50) 4-Methyl-2-Pentanone	8.96	43	509632	1.04	ppbv	97
51) 2-Hexanone	10.37	43	362835	0.94	ppbv #	97
52) Tetrachloroethene	11.46	164	145883	0.99	ppbv	96
53) Toluene	10.03	91	468090	0.91	ppbv	98
54) 1,2-Dibromoethane	10.85	107	268849	0.99	ppbv	92
56) 1,1,1,2-Tetrachloroethane	12.36	131	226169	1.00	ppbv #	1
57) Chlorobenzene	12.39	112	430309	1.03	ppbv	98
58) Ethyl Benzene	12.95	91	653205	0.92	ppbv	91
59) m/p-Xylene	13.23	91	1178313m	1.93	ppbv	
60) o-Xylene	13.94	91	566991	0.93	ppbv	98
61) Styrene	13.77	104	391855	0.88	ppbv	99
62) Isopropylbenzene	14.91	105	816388	0.95	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.92	83	487283	0.94	ppbv	100
64) n-propylbenzene	15.80	120	209238	0.95	ppbv	90
65) tert-Butylbenzene	16.99	119	710120	0.97	ppbv	99
66) Benzyl Chloride	17.24	91	353857	0.86	ppbv	98
67) sec-Butylbenzene	17.54	105	1060235	0.97	ppbv	98
69) p-Isopropyltoluene	17.90	119	811532m	0.95	ppbv	
70) n-Butylbenzene	18.80	91	938020	0.99	ppbv	96
71) 2-Chlorotoluene	15.70	91	623380	0.91	ppbv	99
72) 4-Ethyltoluene	16.08	105	614477	0.89	ppbv	98
73) 1,3,5-Trimethylbenzene	16.24	105	625564	0.92	ppbv	98
74) 1,2,4-Trimethylbenzene	17.01	105	688506	0.97	ppbv	99
75) 1,3-Dichlorobenzene	17.25	146	397043	1.00	ppbv	97
76) 1,4-Dichlorobenzene	17.39	146	366746	0.93	ppbv	97
77) 1,2-Dichlorobenzene	18.07	146	390625m	1.02	ppbv	
78) Hexachloro-1,3-Butadiene	23.62	225	150805m	1.19	ppbv	
79) Naphthalene	22.51	128	545558	0.90	ppbv	99
80) Naphthalene, 2-methyl-	25.19	142	168835	0.66	ppbv	96
81) 1,2,4-Trichlorobenzene	22.23	180	284505m	0.96	ppbv	

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

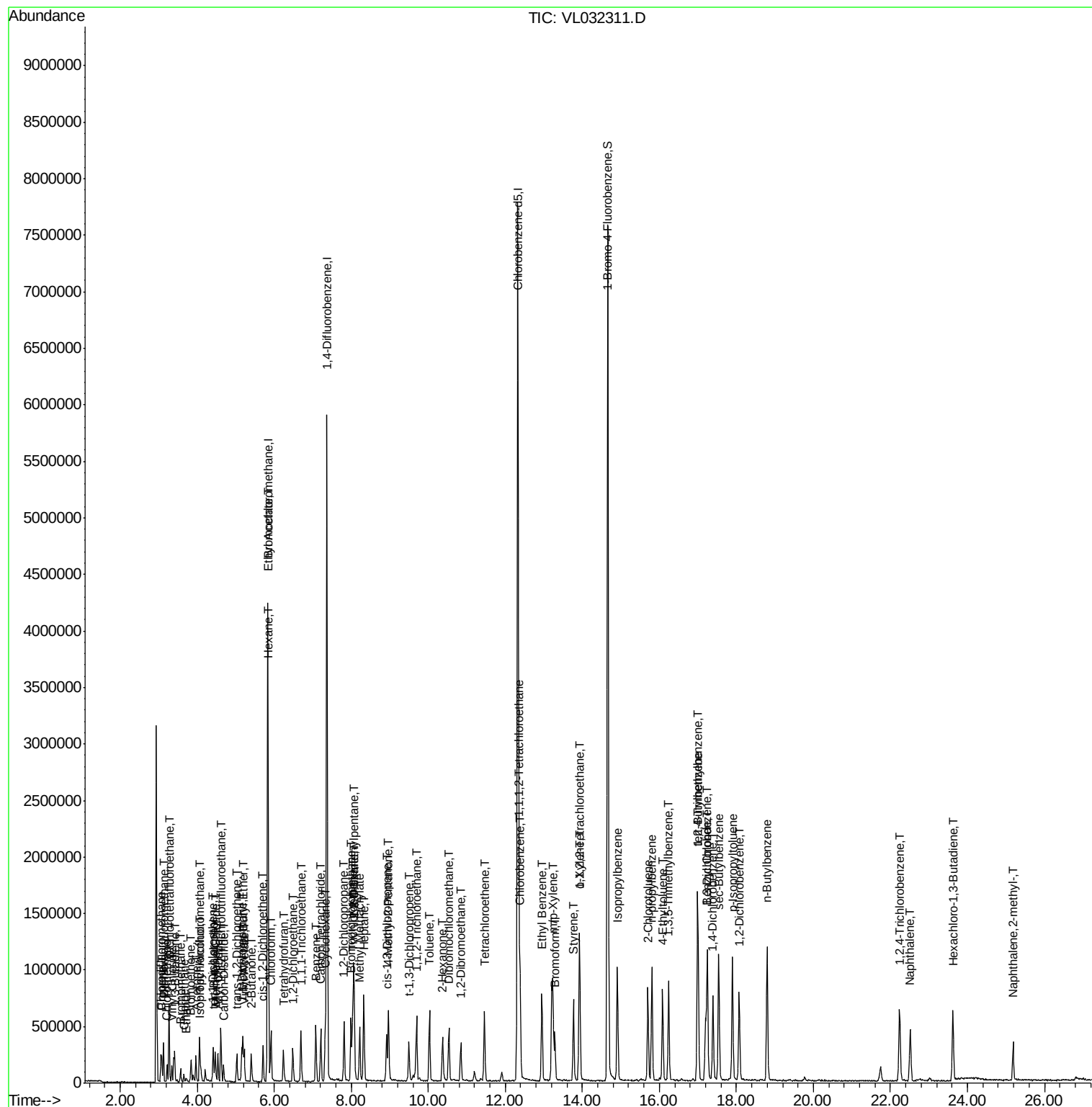
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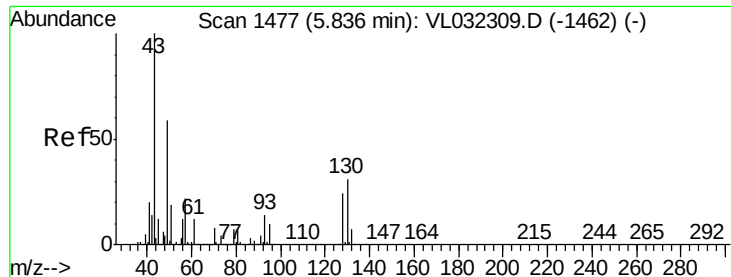
Instrument :
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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.83 min Scan# 1476

Delta R.T. -0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 49 Resp: 2121994

Ion Ratio Lower Upper

49 100

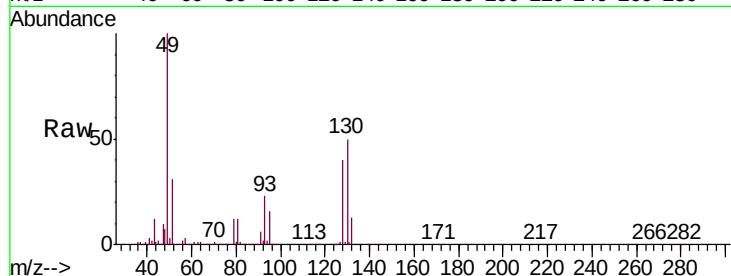
128 39.8 20.2 60.6

130 51.2 25.8 77.3

Manual Integrations
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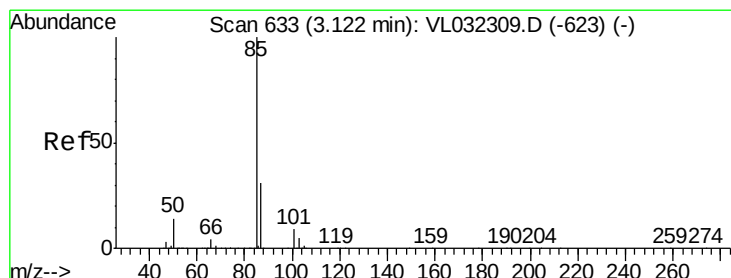
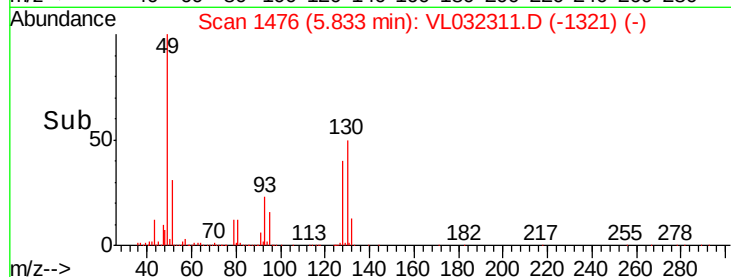
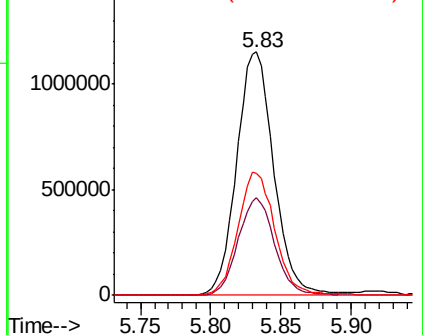
7/30/2018 11:42:58 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.75 ppbv

RT: 3.12 min Scan# 633

Delta R.T. 0.00 min

Lab File: VL032311.D

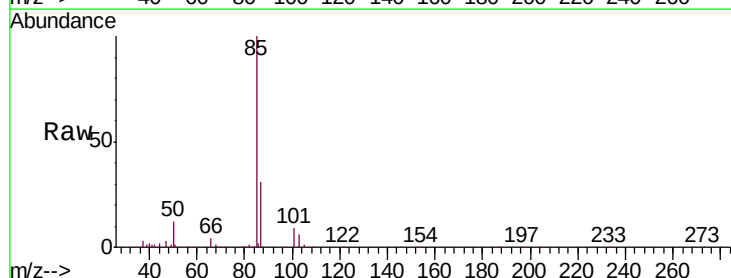
Acq: 27 Jul 2018 1:57

Tgt Ion: 85 Resp: 248043

Ion Ratio Lower Upper

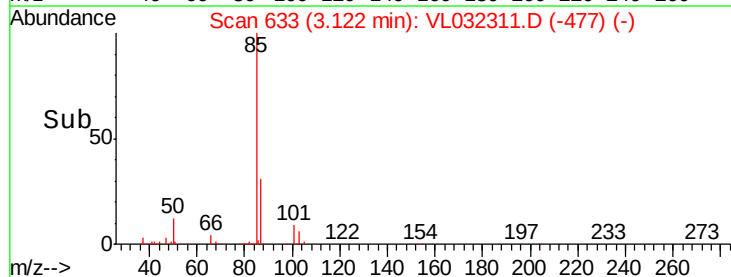
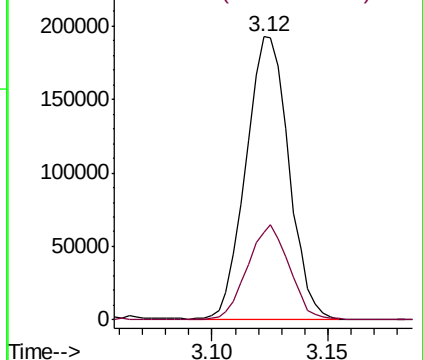
85 100

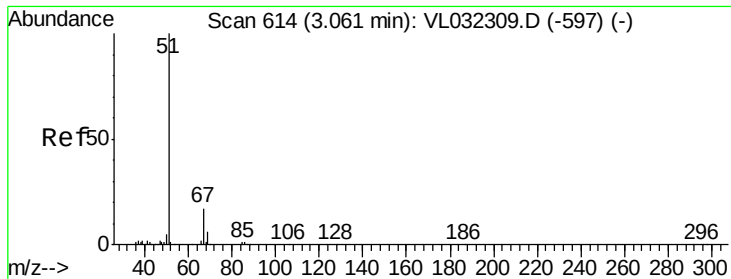
87 30.8 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.92 ppbv

RT: 3.06 min Scan# 614

Delta R.T. 0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 51 Resp: 218880

Ion Ratio Lower Upper

51 100

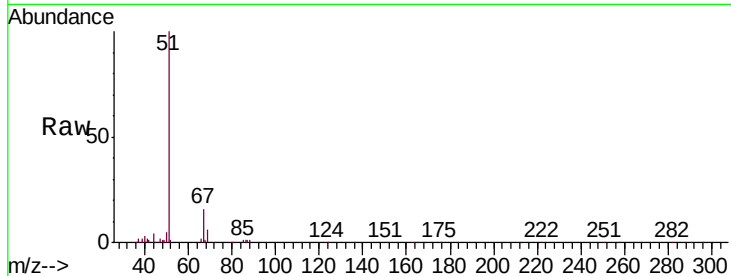
67 17.0 13.5 20.3

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.06

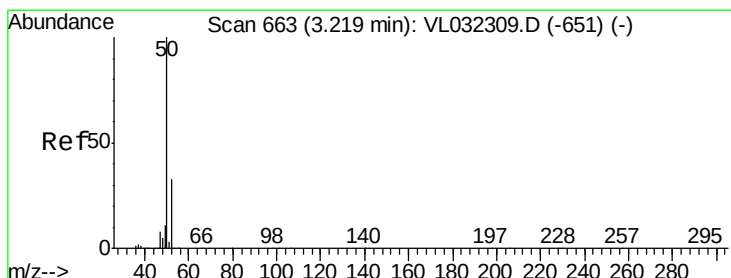
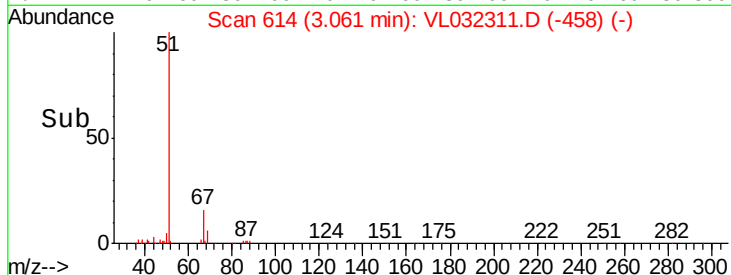
150000

100000

50000

0

Time-->



#4

Chloromethane

Concen: 0.94 ppbv

RT: 3.22 min Scan# 663

Delta R.T. 0.00 min

Lab File: VL032311.D

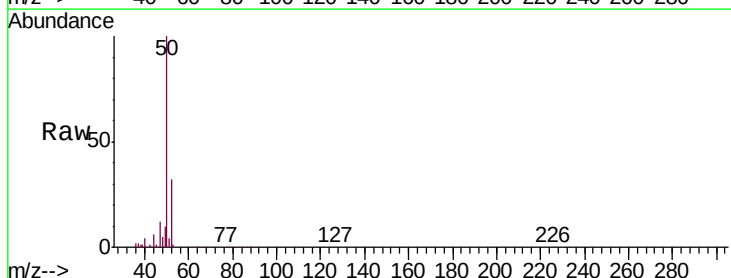
Acq: 27 Jul 2018 1:57

Tgt Ion: 50 Resp: 131733

Ion Ratio Lower Upper

50 100

52 32.4 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.22

100000

80000

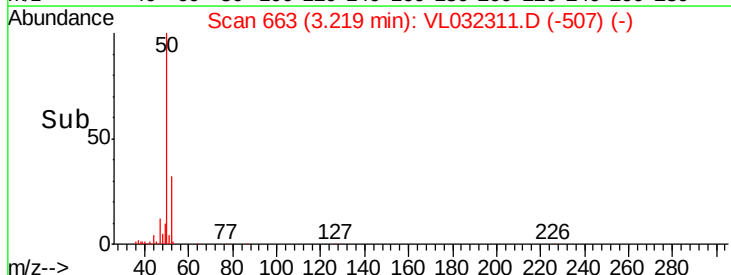
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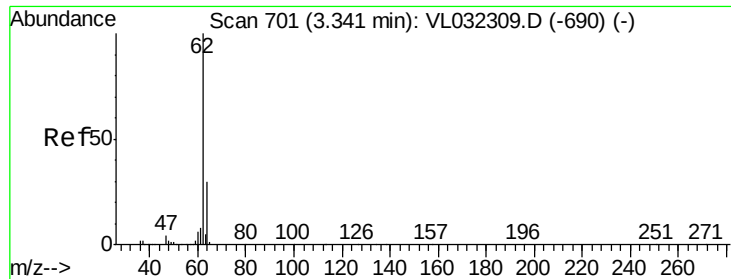
40000

20000

0

Time-->





#5

Vinyl Chloride

Concen: 0.89 ppbv

RT: 3.34 min Scan# 701

Delta R.T. 0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 117833

Ion Ratio Lower Upper

62 100

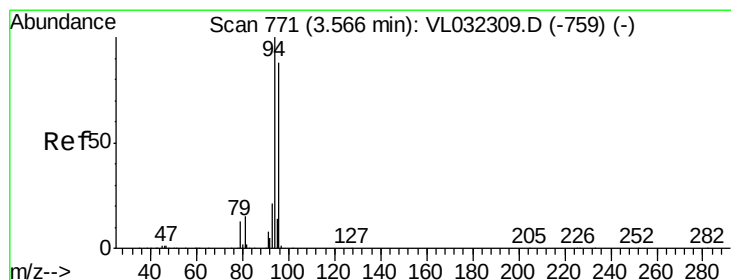
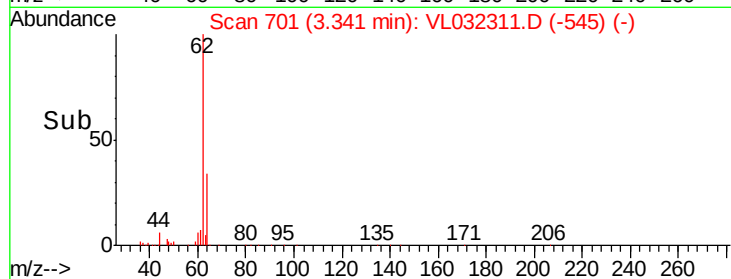
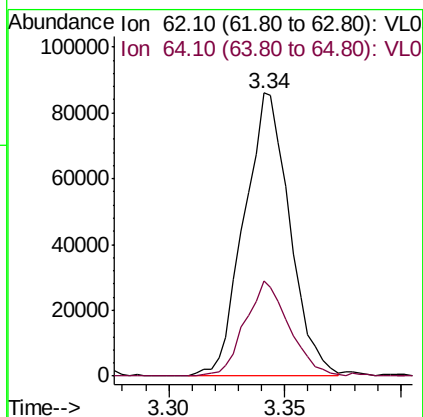
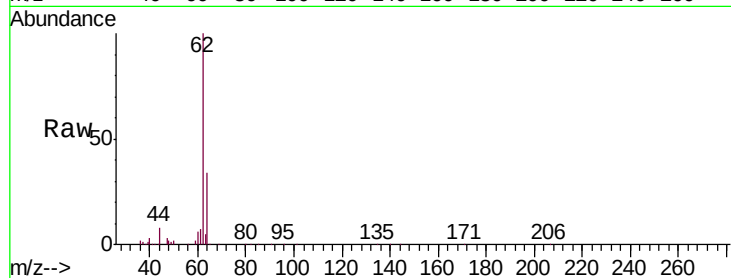
64 33.8 24.1 36.1

Manual Integrations

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#6

Bromomethane

Concen: 0.88 ppbv

RT: 3.57 min Scan# 772

Delta R.T. 0.00 min

Lab File: VL032311.D

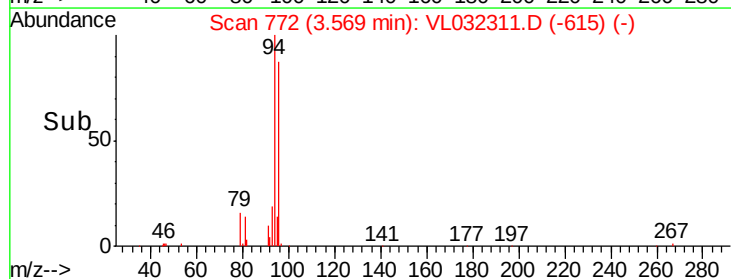
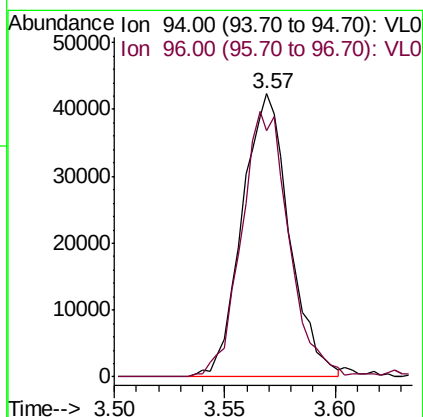
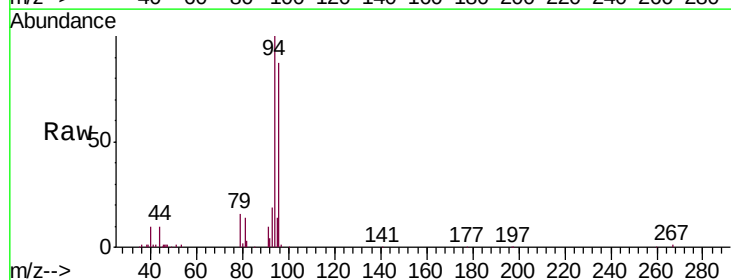
Acq: 27 Jul 2018 1:57

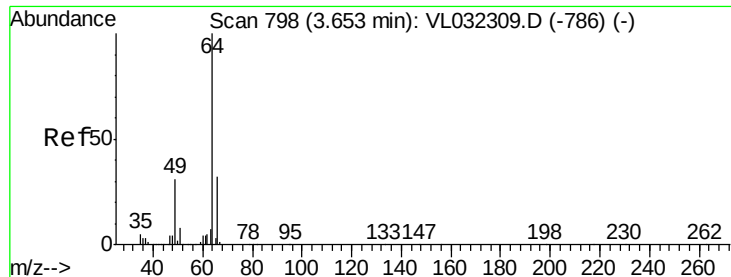
Tgt Ion: 94 Resp: 63111

Ion Ratio Lower Upper

94 100

96 87.2 70.2 105.4





#7

Chloroethane

Concen: 0.87 ppbv

RT: 3.65 min Scan# 798

Delta R.T. 0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 40875

Ion Ratio Lower Upper

64 100

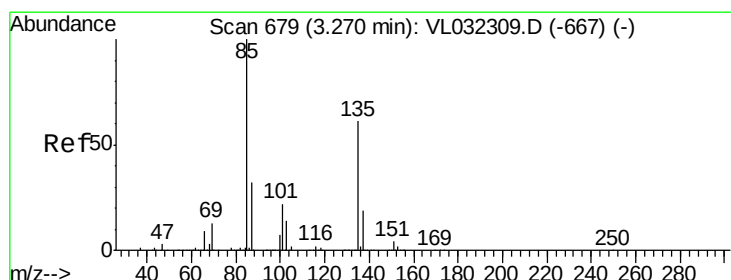
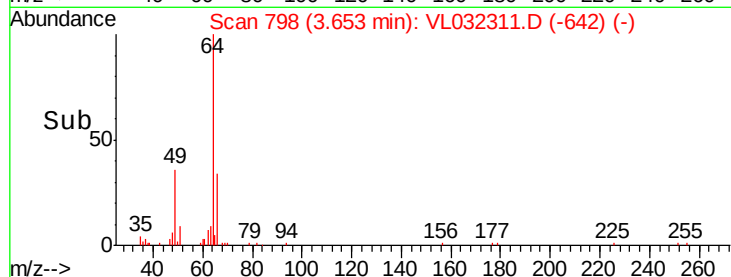
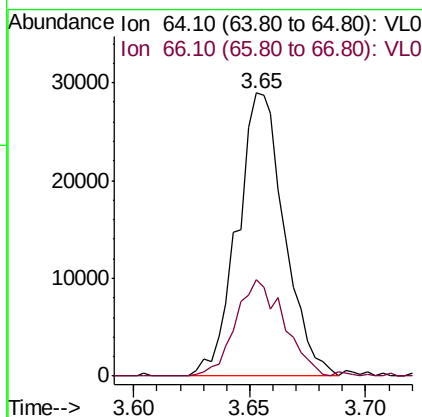
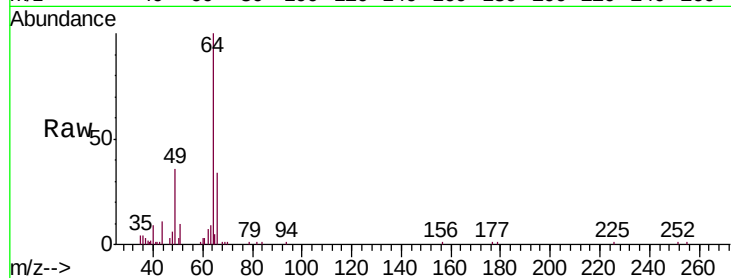
66 34.1 25.7 38.5

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 0.94 ppbv

RT: 3.27 min Scan# 679

Delta R.T. 0.00 min

Lab File: VL032311.D

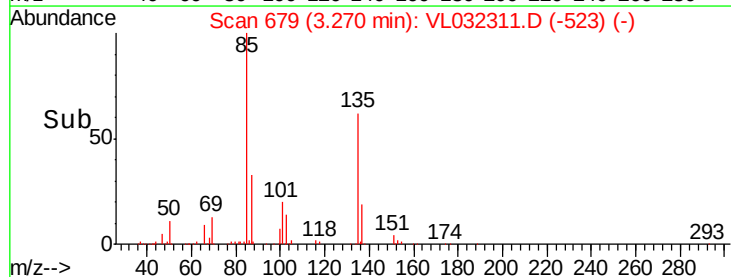
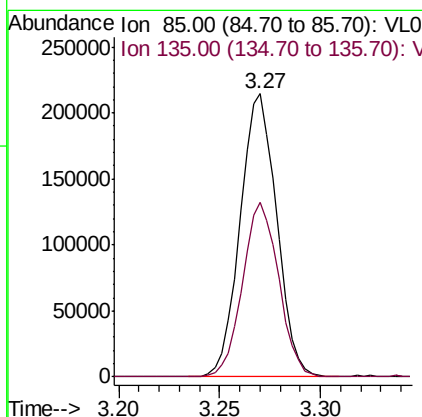
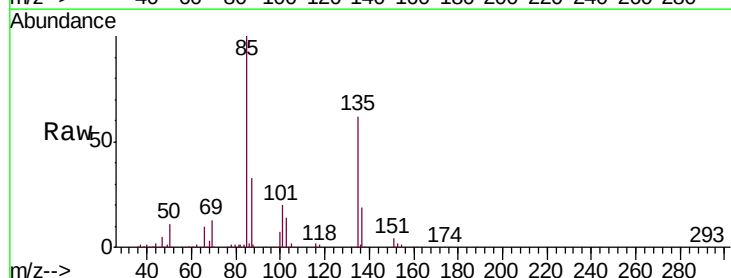
Acq: 27 Jul 2018 1:57

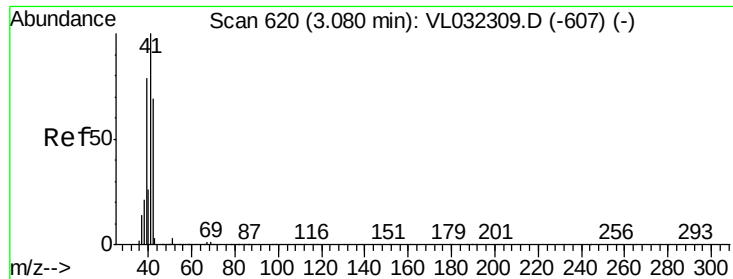
Tgt Ion: 85 Resp: 273585

Ion Ratio Lower Upper

85 100

135 61.0 48.7 73.1





#9

Propene

Concen: 0.90 ppbv

RT: 3.08 min Scan# 621

Delta R.T. 0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 93502

Ion Ratio Lower Upper

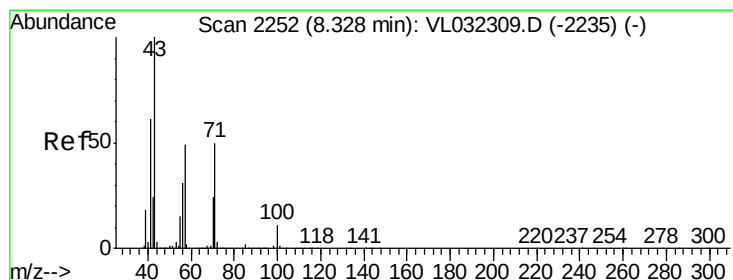
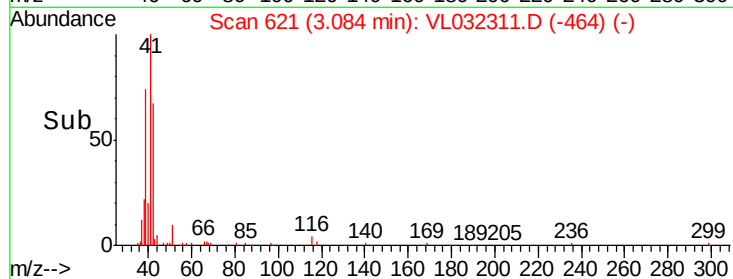
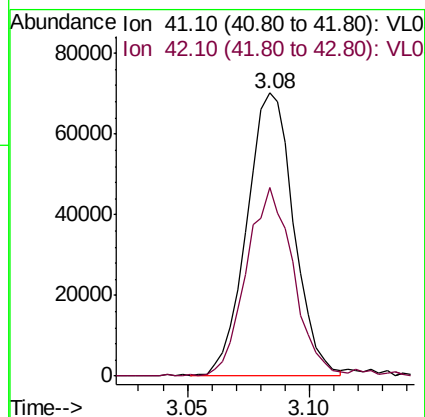
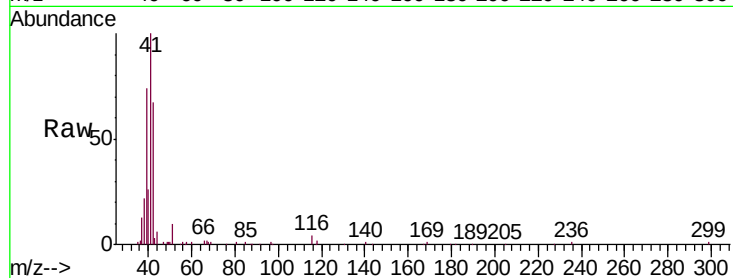
41 100

42 68.6 56.8 85.2

Manual Integrations
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#10

Heptane

Concen: 1.00 ppbv

RT: 8.32 min Scan# 2251

Delta R.T. -0.00 min

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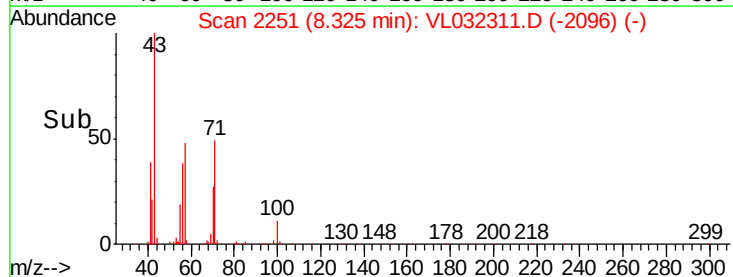
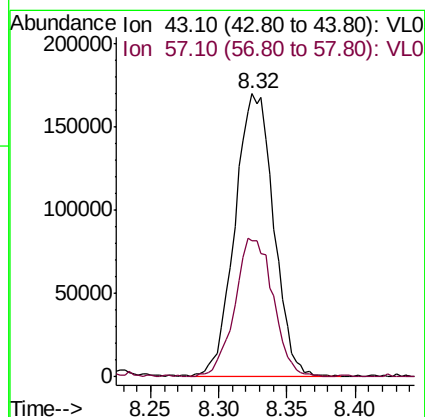
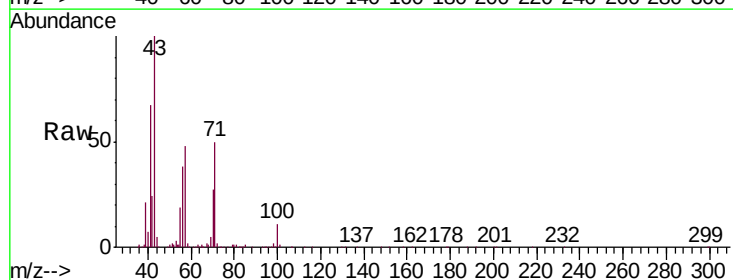
Acq: 27 Jul 2018 1:57

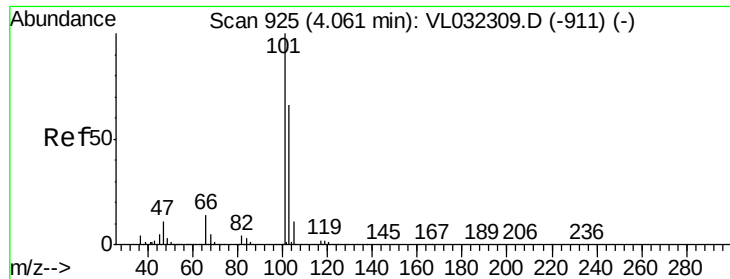
Tgt Ion: 43 Resp: 333954

Ion Ratio Lower Upper

43 100

57 49.4 39.0 58.4





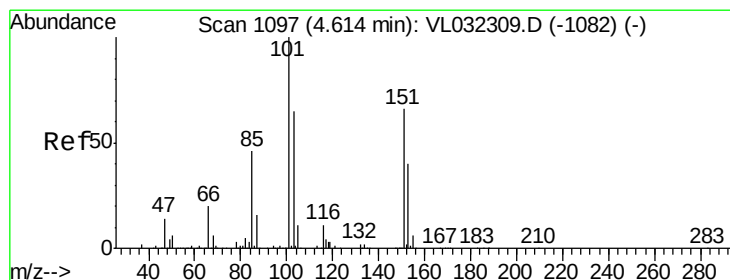
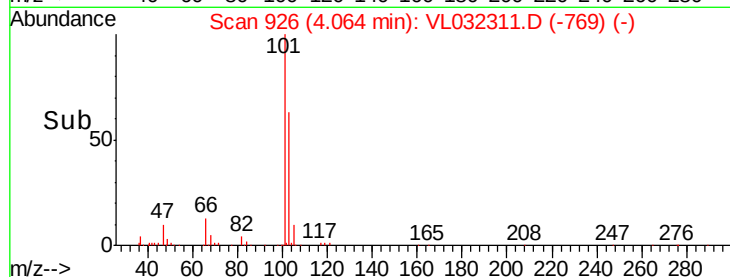
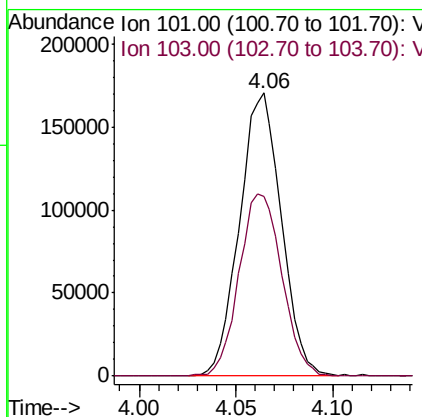
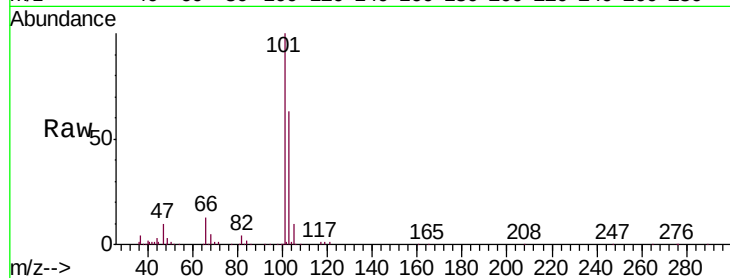
#11
 Trichlorofluoromethane
 Concen: 0.92 ppbv
 RT: 4.06 min Scan# 926
 Delta R.T. 0.00 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.3	52.6	78.8

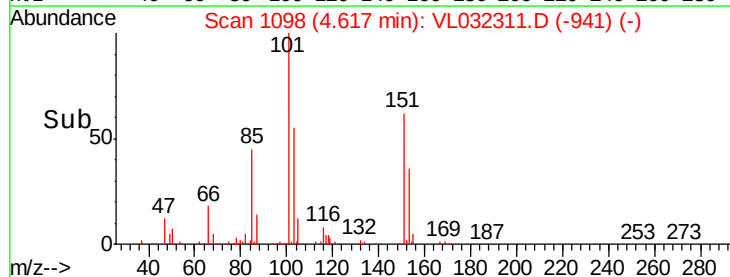
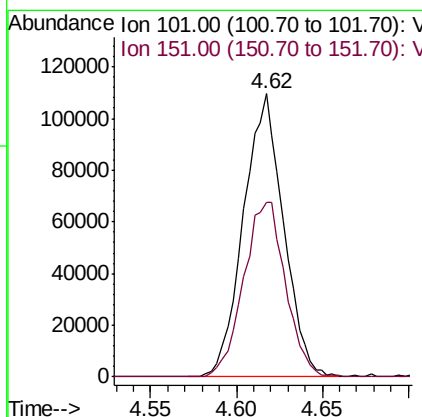
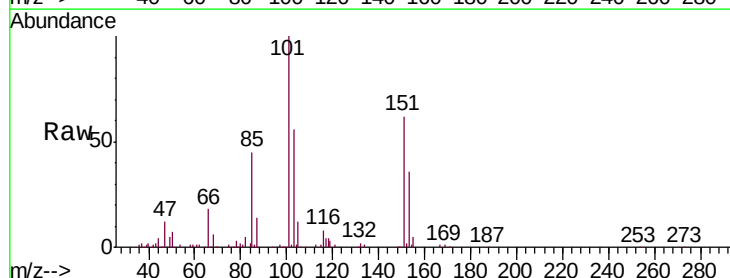
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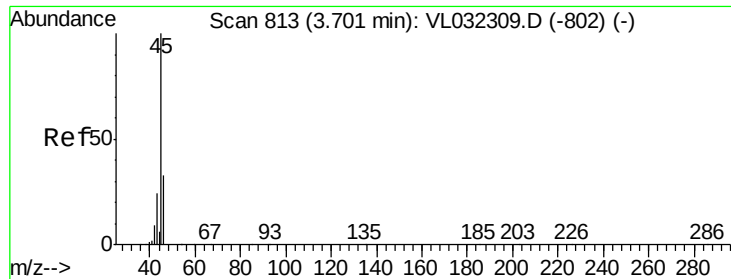
MMDadoda
 7/30/2018 11:42:58 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.99 ppbv
 RT: 4.62 min Scan# 1098
 Delta R.T. 0.00 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Tgt Ion	Ratio	Lower	Upper
101	100		
151	64.6	52.4	78.6





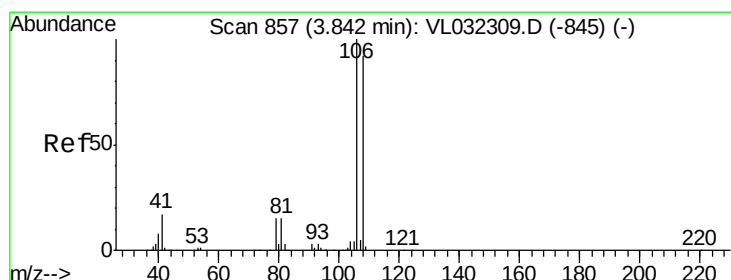
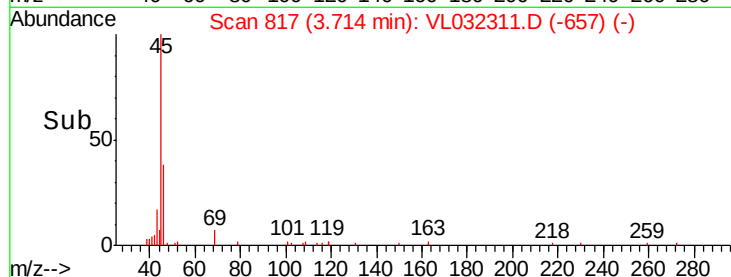
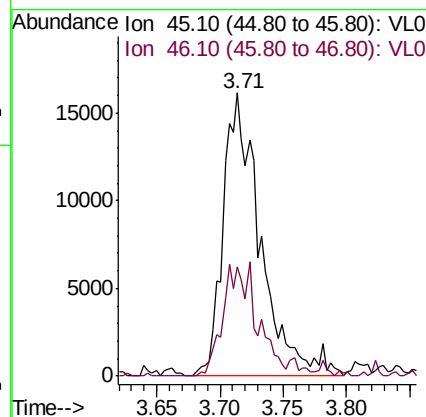
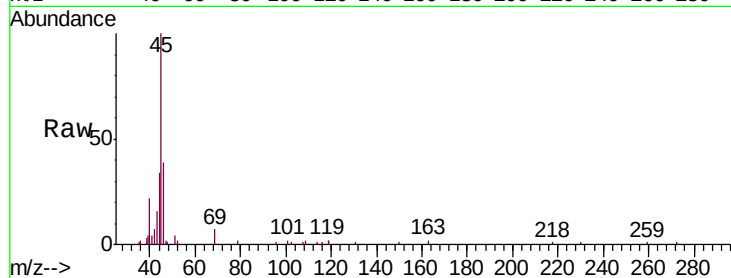
#13
Ethanol
Concen: 1.11 ppbv m
RT: 3.71 min Scan# 817
Delta R.T. 0.01 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
45	100		
46	39.8	15.2	60.6

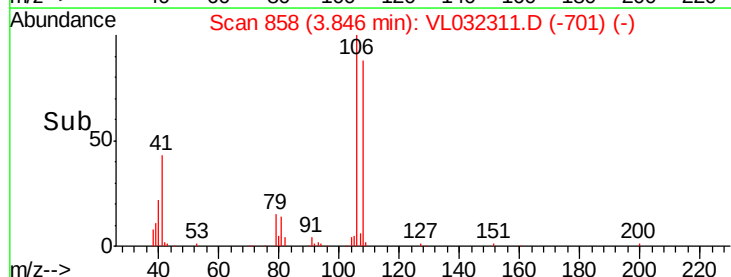
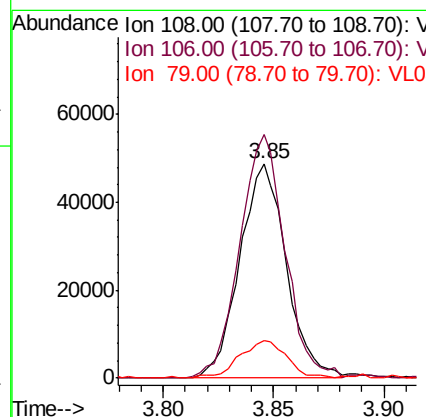
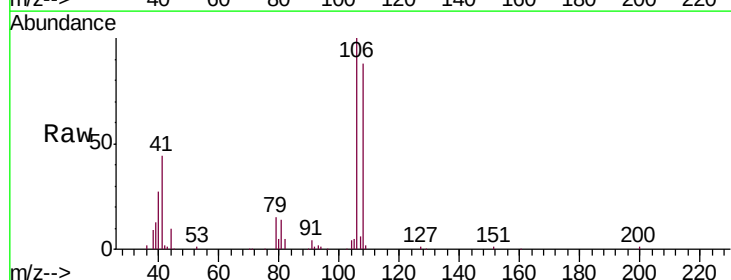
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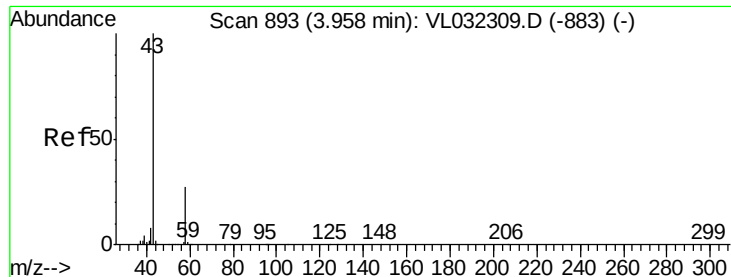
MMDadoda
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#14
Bromoethene
Concen: 0.89 ppbv
RT: 3.85 min Scan# 858
Delta R.T. 0.00 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion	Ratio	Lower	Upper
108	100		
106	111.1	86.0	129.0
79	19.3	12.8	19.2





#15

Acetone

Concen: 0.98 ppbv

RT: 3.97 min Scan# 896

Delta R.T. 0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Tot Ion: 43 Resp: 213903

Ion Ratio Lower Upper

43 100

58 28.0 22.5 33.7

Instrument :

MSVOA_L

ClientSampleId :

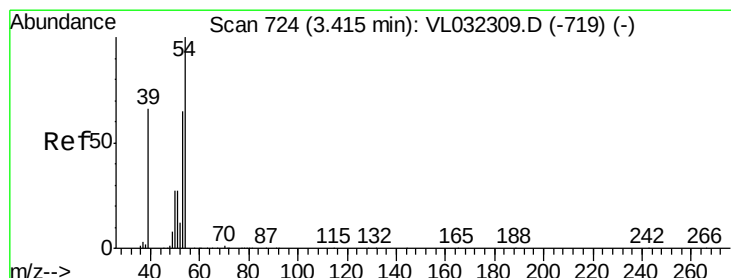
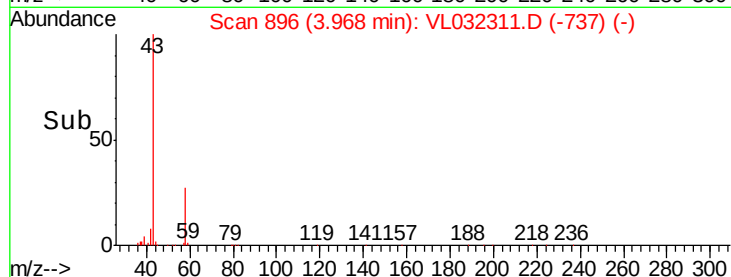
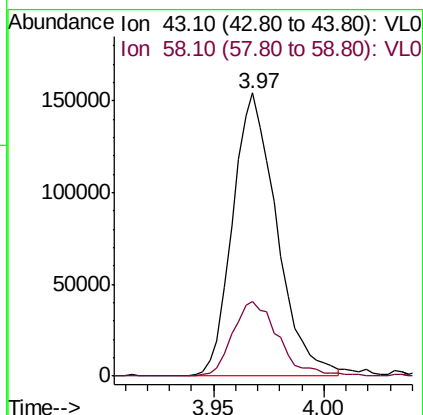
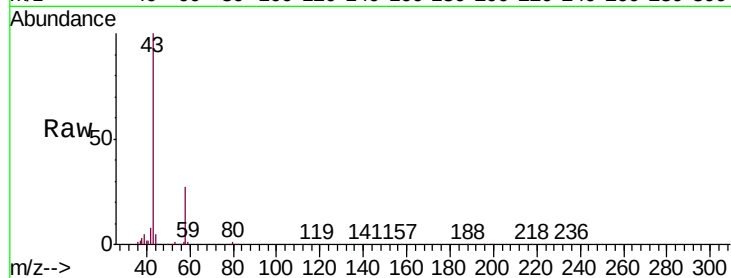
VSTDIC001

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#16

1,3-Butadiene

Concen: 0.90 ppbv

RT: 3.41 min Scan# 724

Delta R.T. 0.00 min

Lab File: VL032311.D

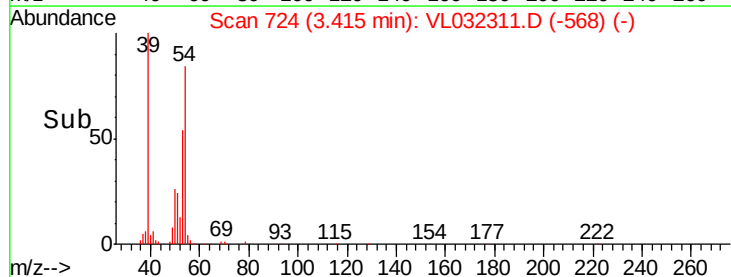
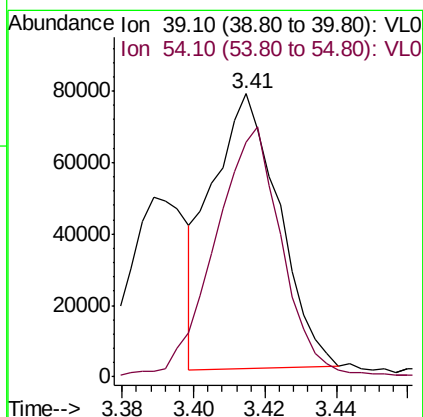
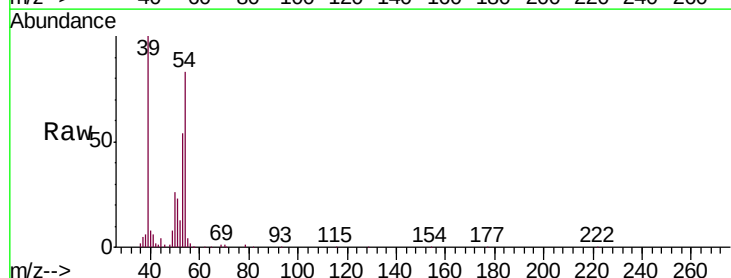
Acq: 27 Jul 2018 1:57

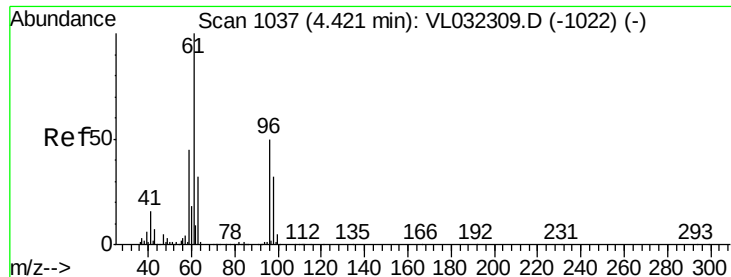
Tgt Ion: 39 Resp: 100365

Ion Ratio Lower Upper

39 100

54 90.9 74.3 111.5





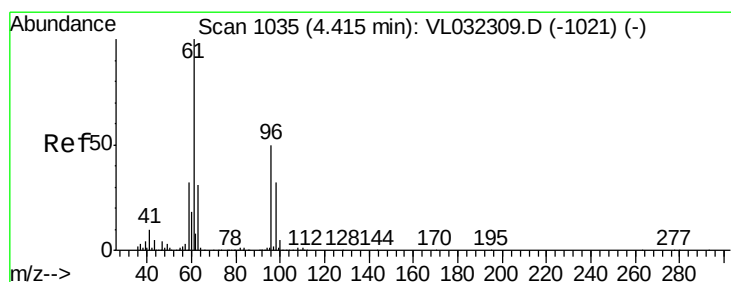
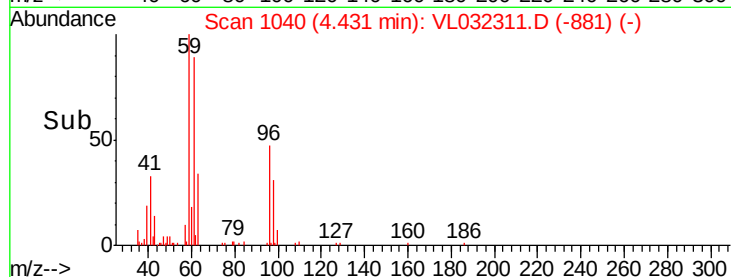
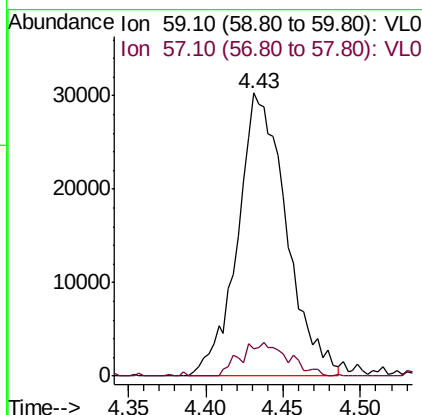
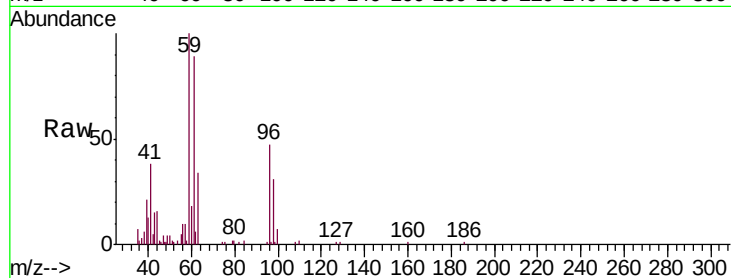
#17
 tert-Butyl alcohol
 Concen: 0.94 ppbv
 RT: 4.43 min Scan# 1040
 Delta R.T. 0.01 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	59	Resp	66227
Ion Ratio	Lower	Upper	
59	100		
57	11.7	8.0	12.0

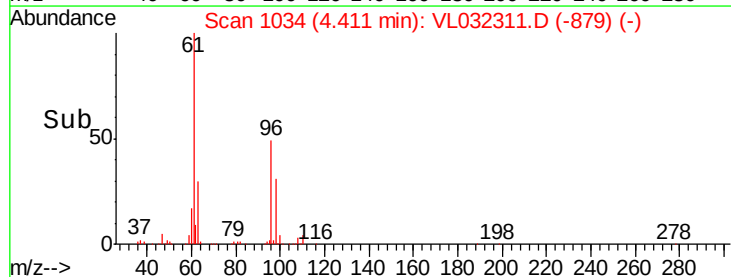
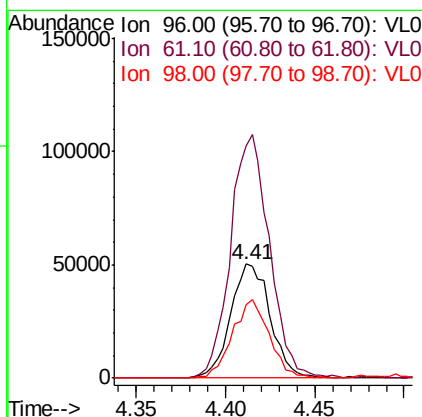
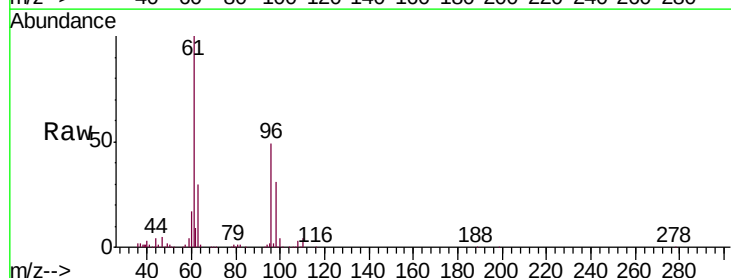
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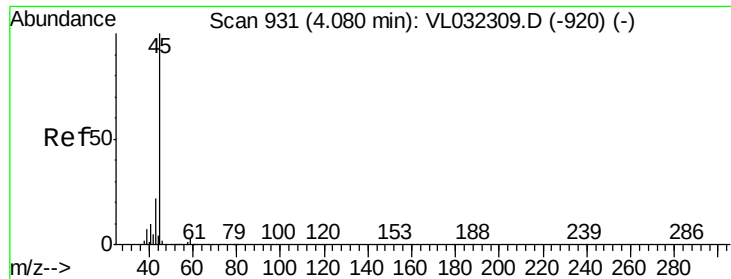
MMDadoda
 7/30/2018 11:42:58 AM



#18
 1,1-Dichloroethene
 Concen: 0.93 ppbv
 RT: 4.41 min Scan# 1034
 Delta R.T. -0.00 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Tgt Ion	96	Resp	78027
Ion Ratio	Lower	Upper	
96	100		
61	204.1	159.0	238.4
98	64.2	51.1	76.7





#19

Isopropyl Alcohol

Concen: 0.99 ppbv

RT: 4.09 min Scan# 934

Delta R.T. 0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 149622

Ion Ratio Lower Upper

45 100

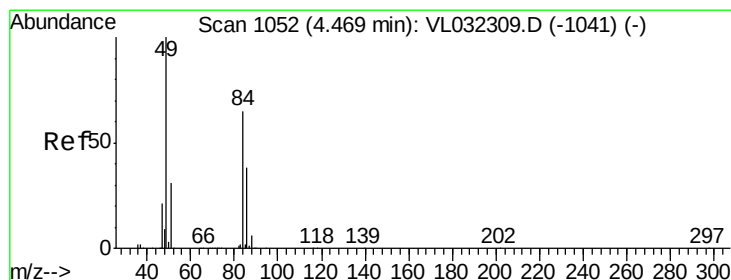
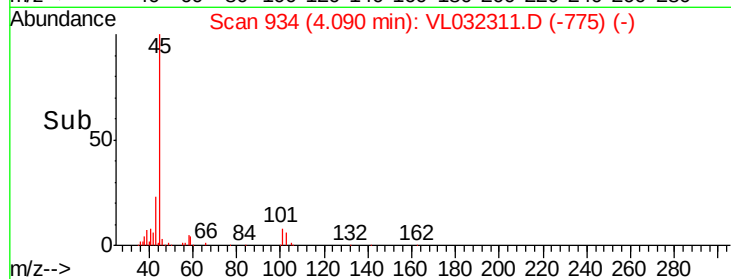
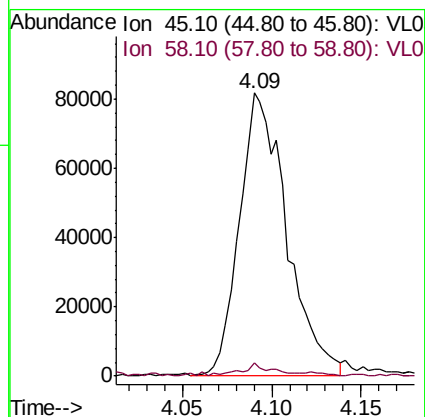
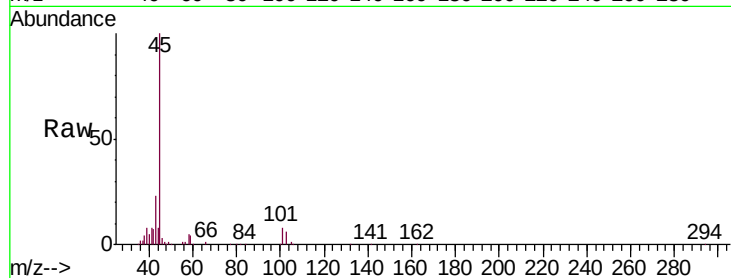
58 4.7 1.5 2.3#

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#20

Methylene Chloride

Concen: 0.97 ppbv

RT: 4.47 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Tgt Ion: 84 Resp: 83863

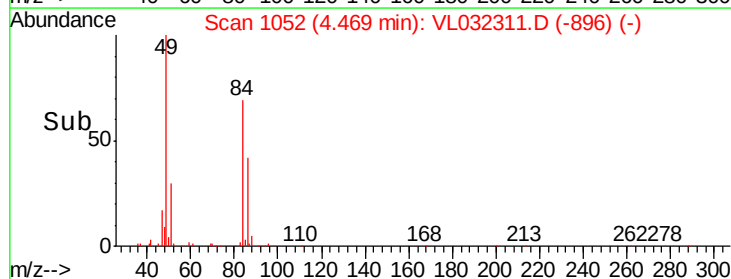
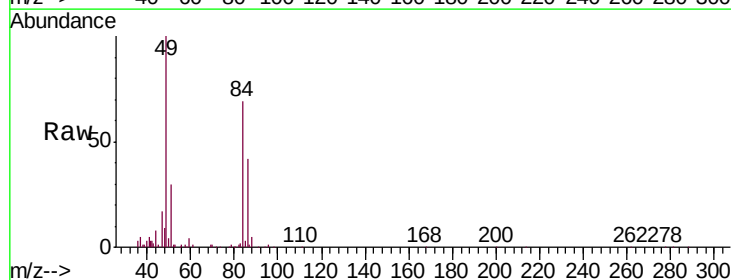
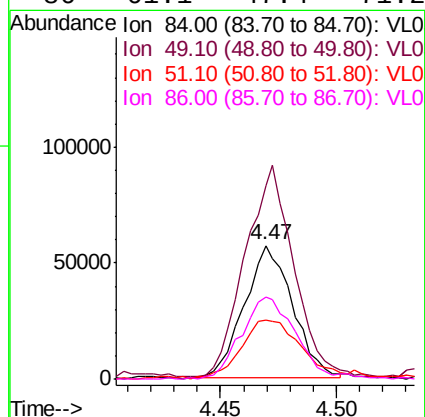
Ion Ratio Lower Upper

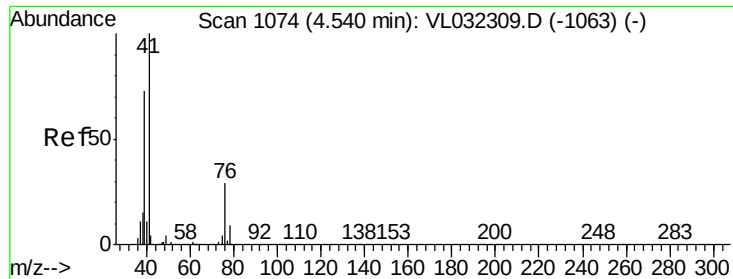
84 100

49 144.5 123.4 185.0

51 43.7 38.2 57.2

86 61.1 47.4 71.2





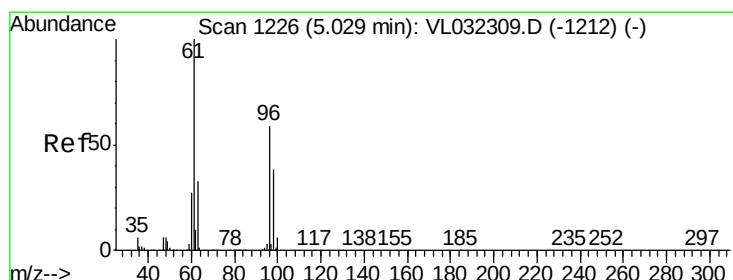
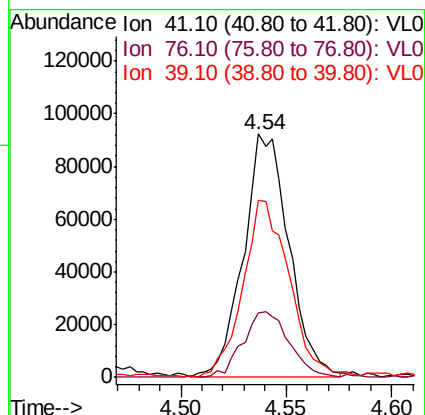
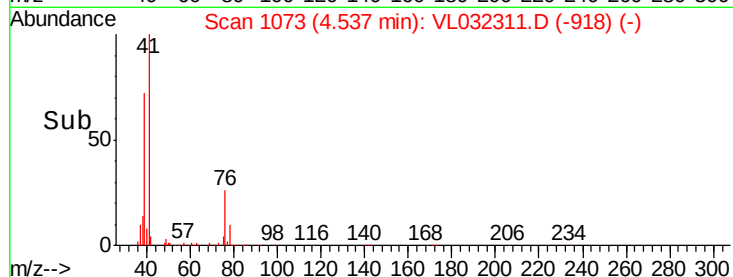
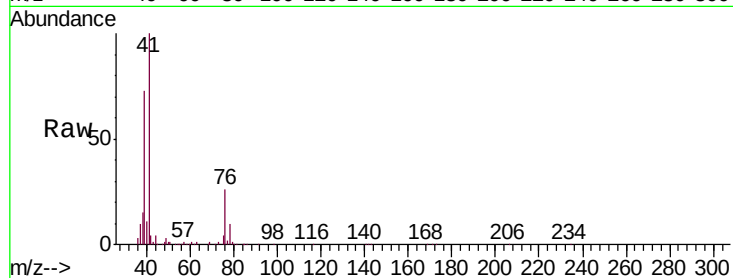
#21
Allvl Chloride
Concen: 0.94 ppbv
RT: 4.54 min Scan# 1073
Delta R.T. -0.00 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.1	23.1	34.7
39	77.1	58.2	87.2

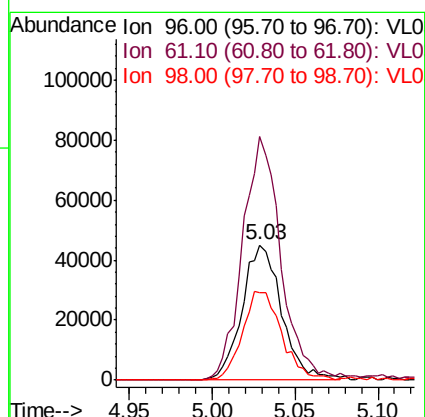
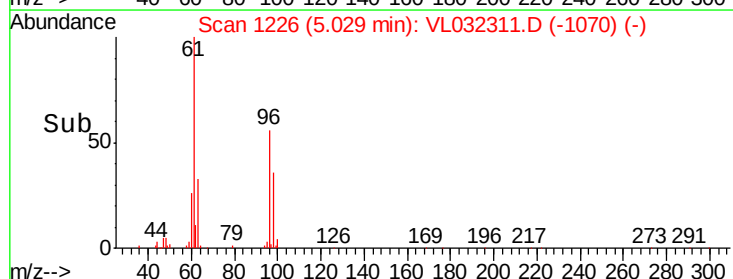
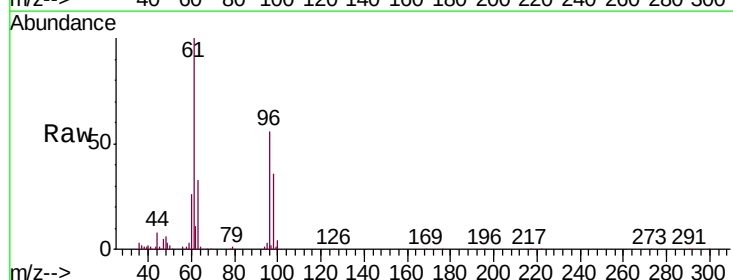
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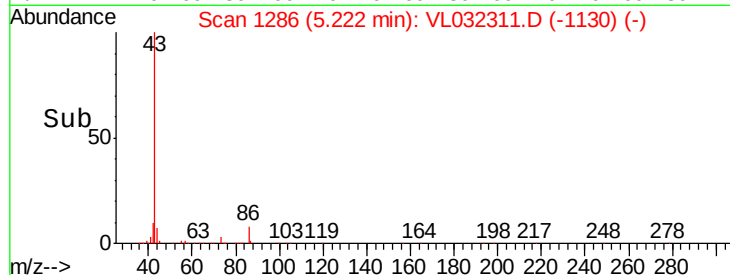
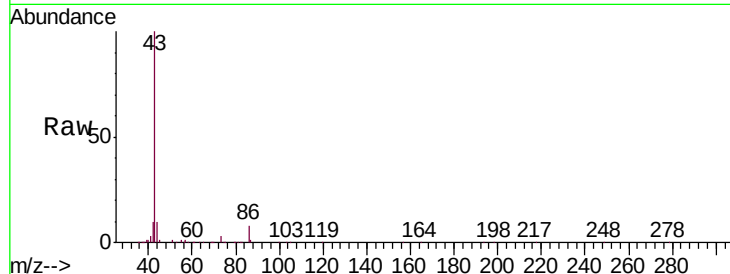
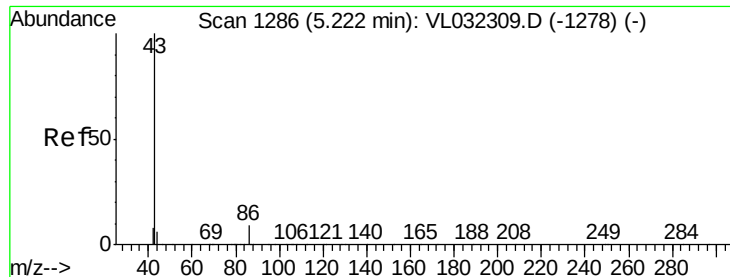
MMDadoda
7/30/2018 11:42:58 AM



#22
trans-1,2-Dichloroethene
Concen: 0.86 ppbv
RT: 5.03 min Scan# 1226
Delta R.T. 0.00 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion	Ratio	Lower	Upper
96	100		
61	180.1	136.5	204.7
98	64.3	51.3	76.9





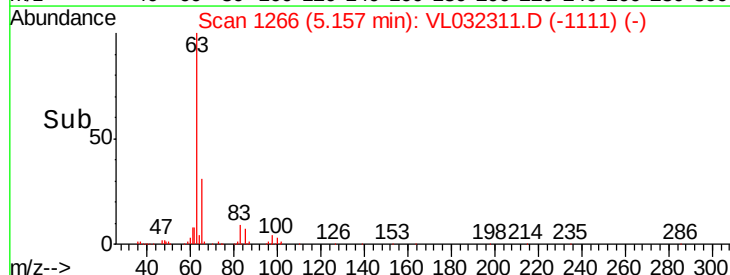
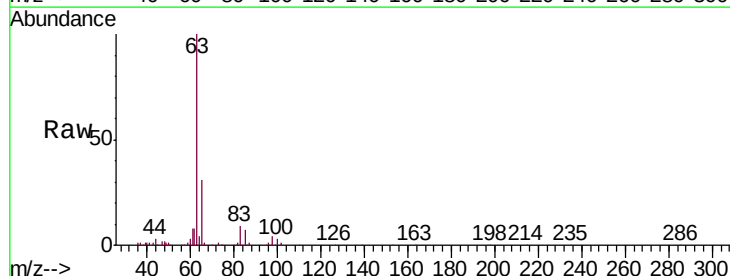
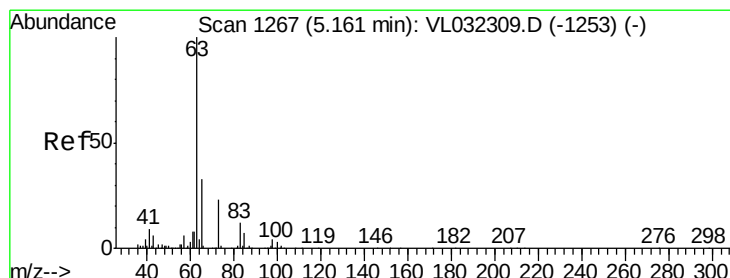
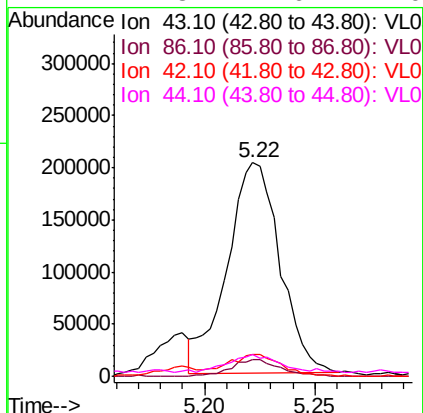
#23
 Vinyl Acetate
 Concen: 0.85 ppbv
 RT: 5.22 min Scan# 1286
 Delta R.T. 0.00 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	43.10	100	336558		
86	86.10	7.7		6.3	9.5
42	42.10	10.1		7.0	10.4
44	44.10	7.8		4.6	7.0#

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

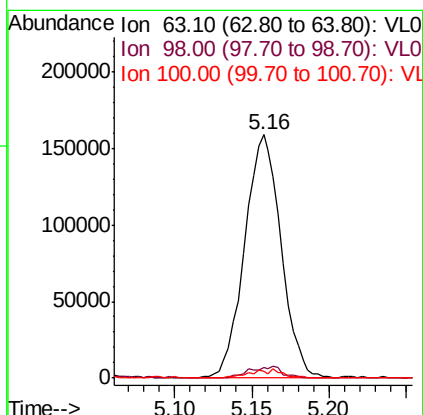
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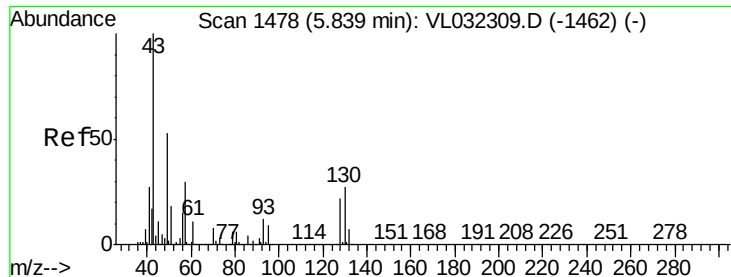
MMDadoda
 7/30/2018 11:42:58 AM



#24
 1,1-Dichloroethane
 Concen: 0.91 ppbv
 RT: 5.16 min Scan# 1266
 Delta R.T. -0.00 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
63	63.10	100	260963		
98	98.00	4.3		2.1	6.5
100	100.00	2.9		1.3	3.8





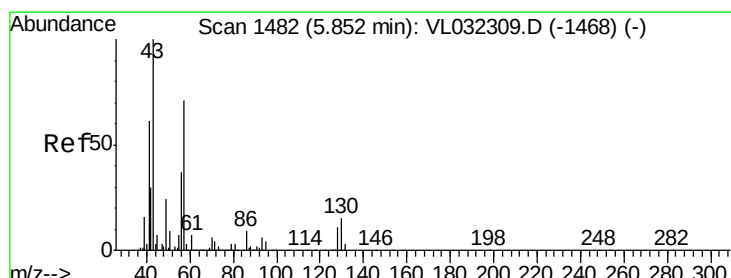
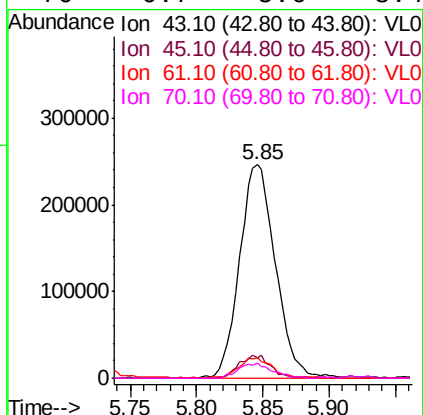
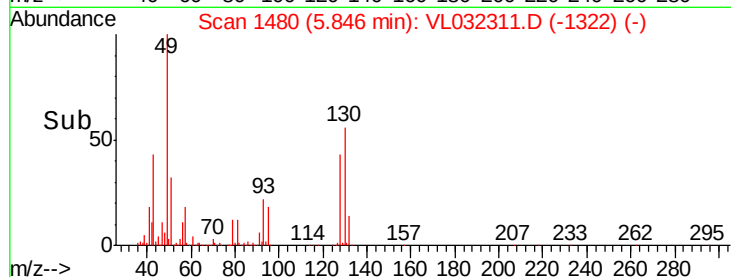
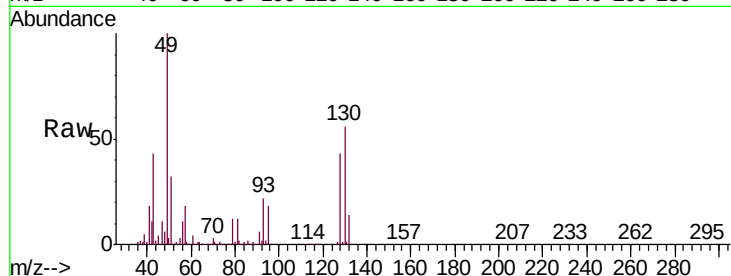
#25
Ethyl Acetate
Concen: 0.96 ppbv
RT: 5.85 min Scan# 1480
Delta R.T. 0.01 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
43	100	464116		
45	9.6		8.1	12.1
61	9.5		7.4	11.0
70	6.7		5.6	8.4

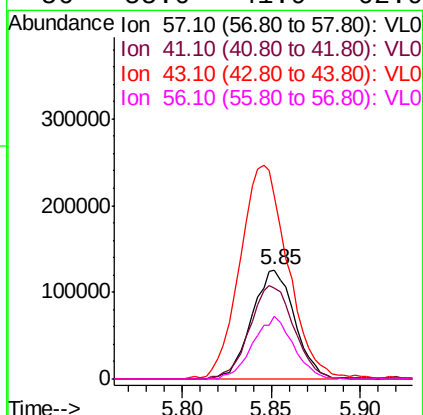
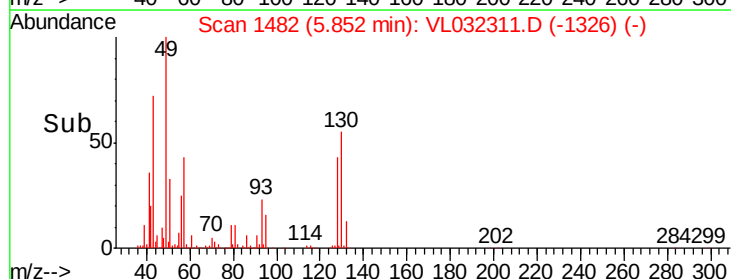
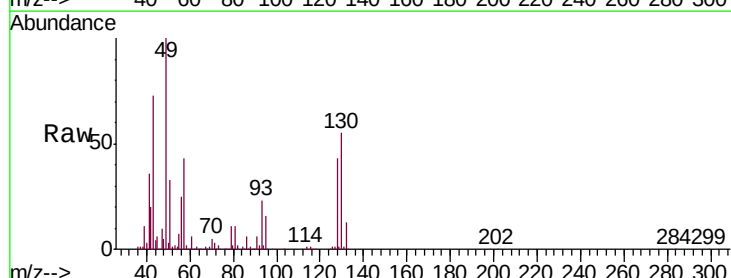
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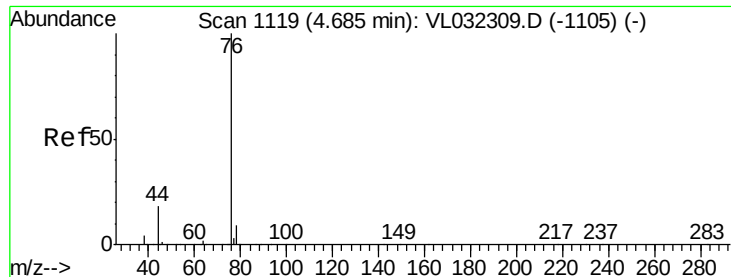
MMDadoda
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#26
Hexane
Concen: 0.96 ppbv
RT: 5.85 min Scan# 1482
Delta R.T. 0.00 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	211582		
41	89.2		68.1	102.1
43	220.9		177.4	266.2
56	55.0		41.9	62.9





#27

Carbon Disulfide

Concen: 0.89 ppbv

RT: 4.69 min Scan# 1120

Delta R.T. 0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

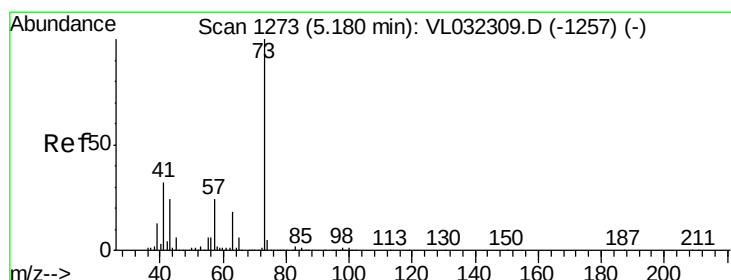
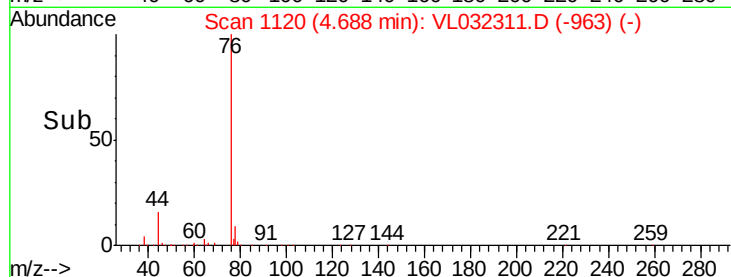
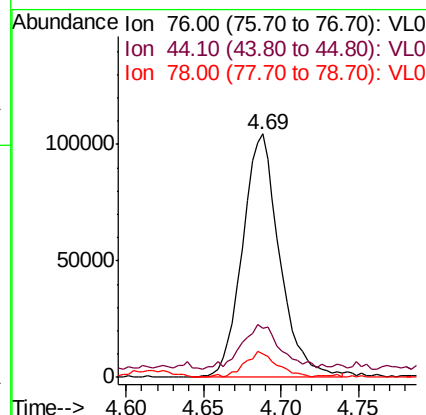
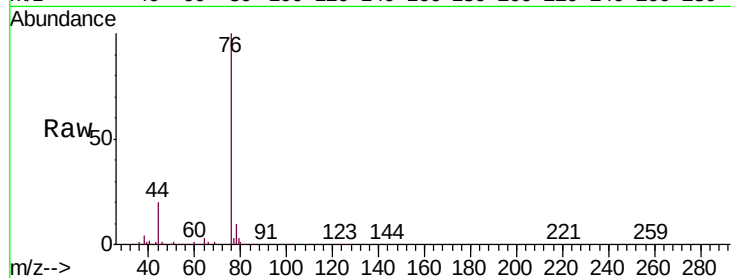
ClientSampleId :

VSTDIC001

Tot Ion:	76	Resp:	174525
Ion Ratio	Lower	Upper	
76	100		
44	18.7	14.0	21.0
78	10.1	7.5	11.3

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#28

Methyl tert-Butyl Ether

Concen: 0.83 ppbv

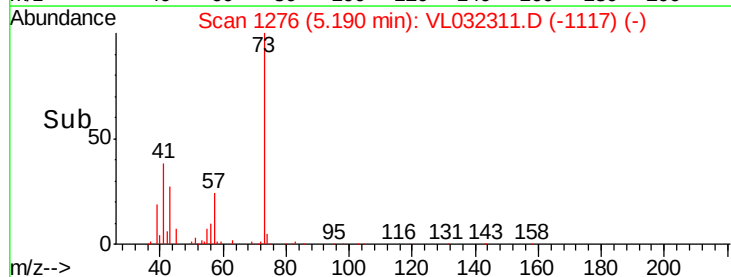
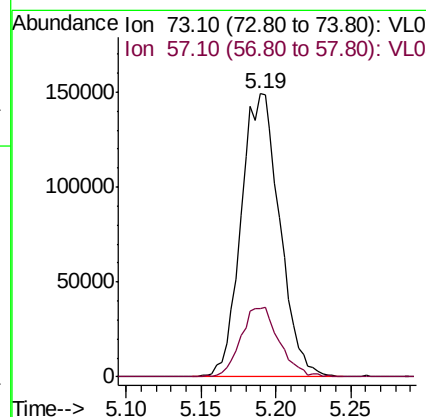
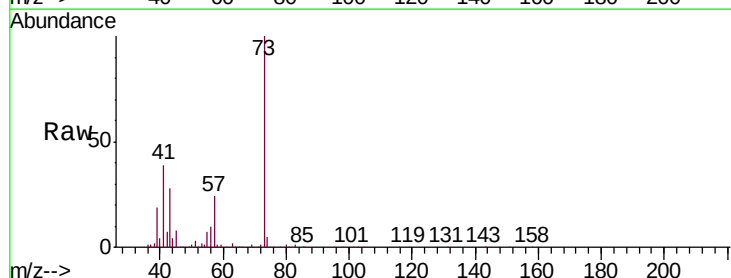
RT: 5.19 min Scan# 1276

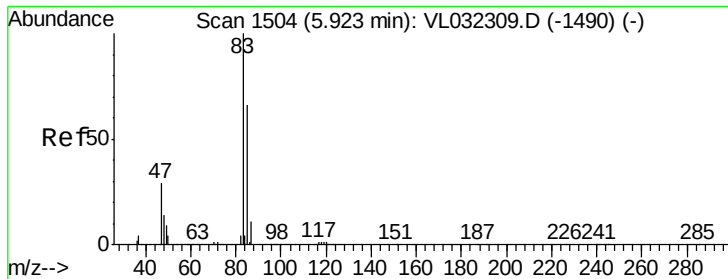
Delta R.T. 0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Tgt Ion:	73	Resp:	268085
Ion Ratio	Lower	Upper	
73	100		
57	24.6	19.4	29.0





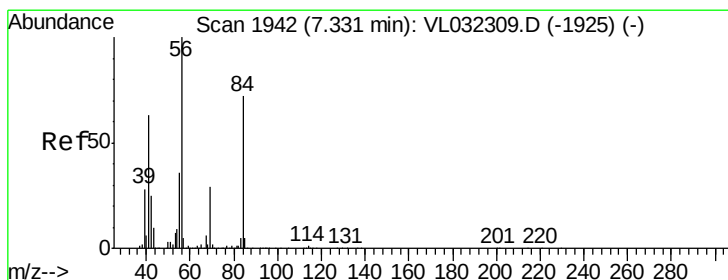
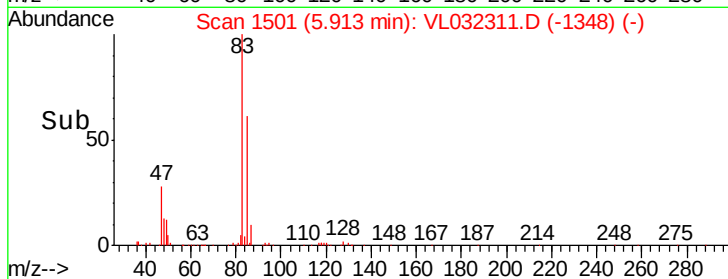
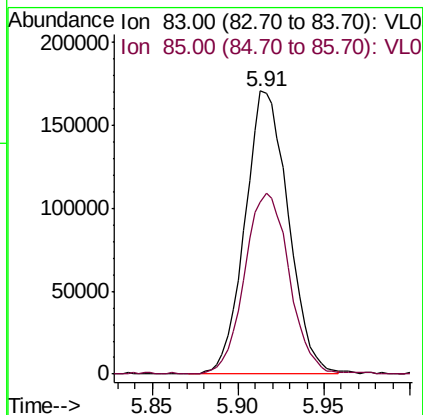
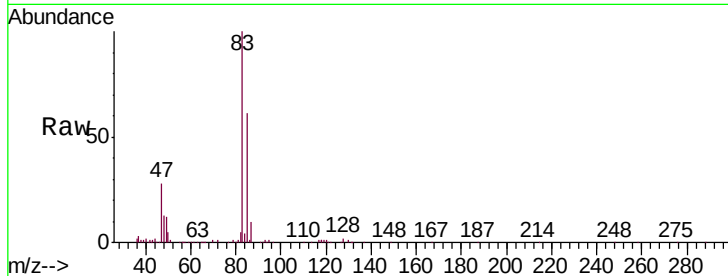
#29
Chloroform
Concen: 0.92 ppbv
RT: 5.91 min Scan# 1501
Delta R.T. -0.01 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	83	Resp	298575
Ion Ratio	100	Lower	Upper
83	100		
85	60.6	52.9	79.3

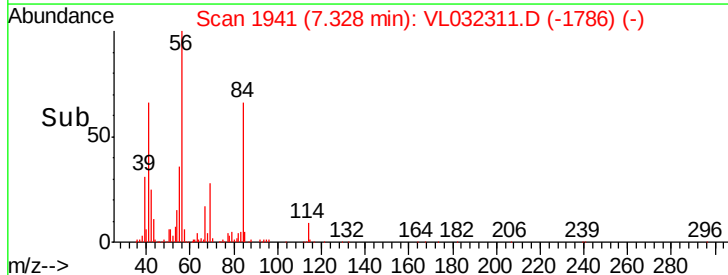
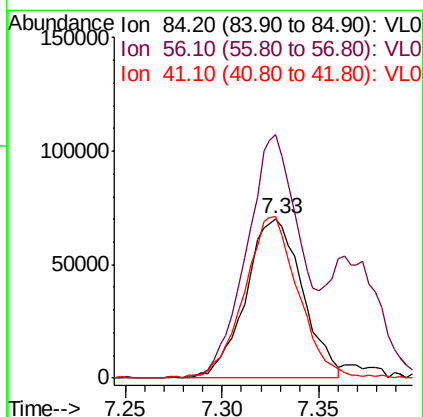
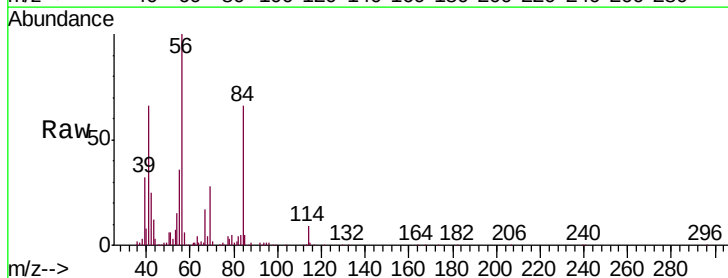
Manual Integrations
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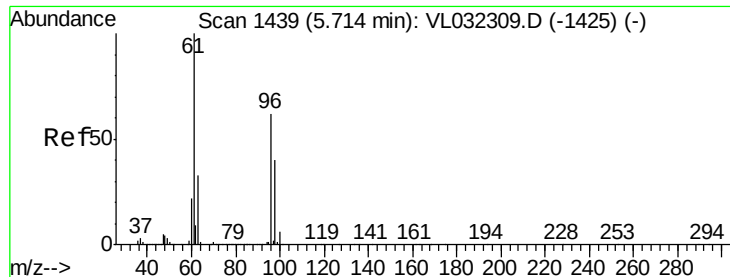
MMDadoda
7/30/2018 11:42:58 AM



#30
Cyclohexane
Concen: 0.77 ppbv
RT: 7.33 min Scan# 1941
Delta R.T. -0.00 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion	84	Resp	141365
Ion Ratio	100	Lower	Upper
84	100		
56	216.3	116.8	175.2#
41	98.6	70.0	105.0





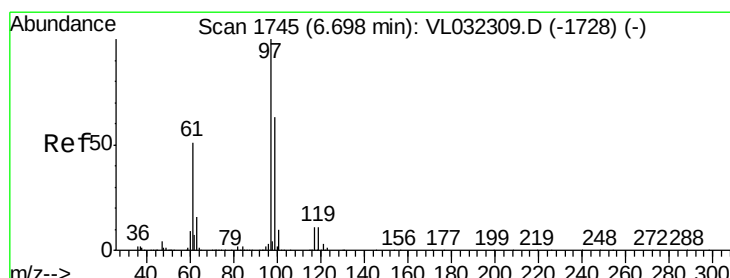
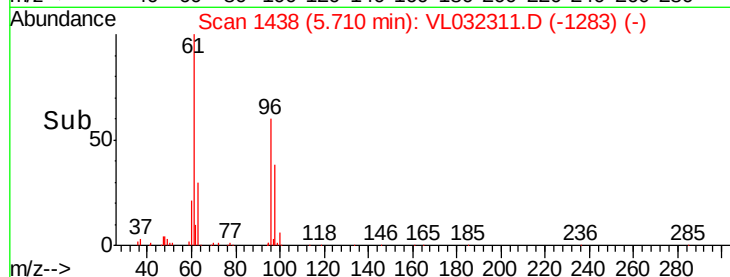
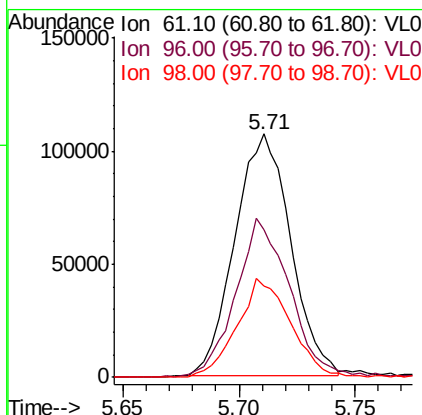
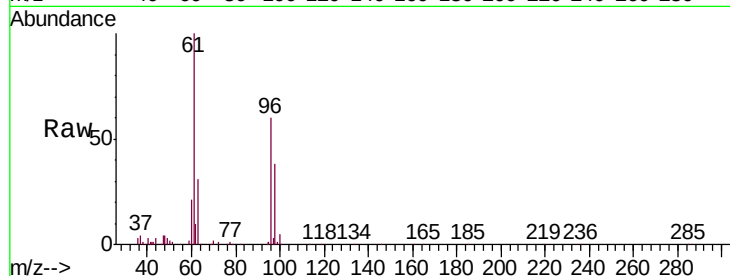
#31
 cis-1,2-Dichloroethene
 Concen: 0.84 ppbv
 RT: 5.71 min Scan# 1438
 Delta R.T. -0.00 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
61	100		
96	59.6	49.8	74.6
98	37.7	31.8	47.6

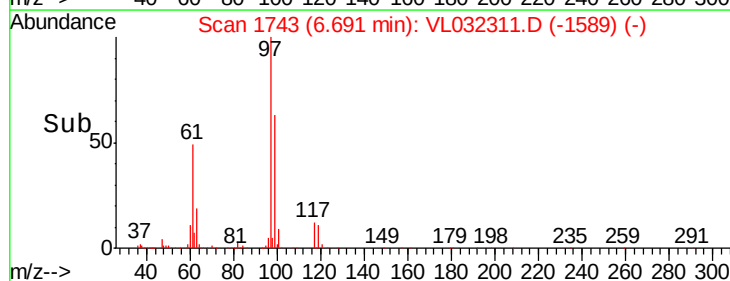
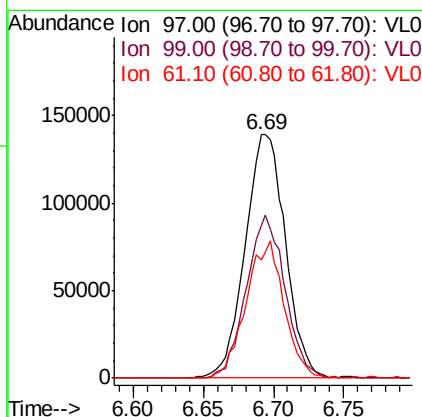
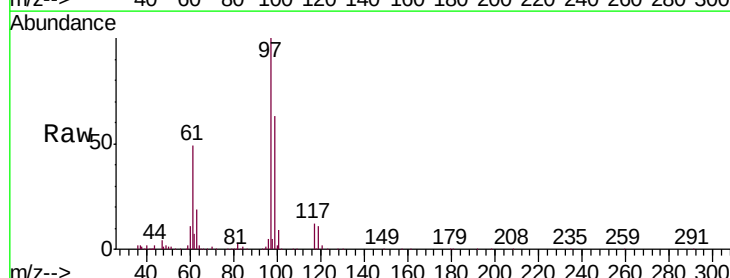
Manual Integrations
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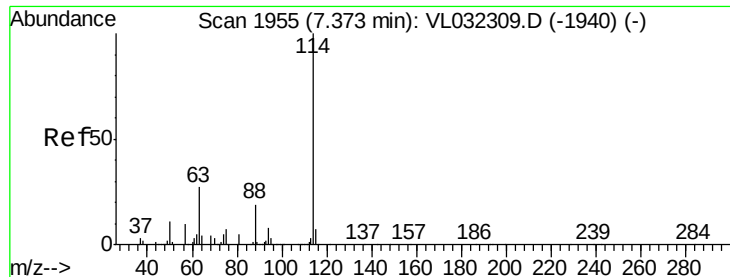
MMDadoda
 7/30/2018 11:42:58 AM



#32
 1,1,1-Trichloroethane
 Concen: 0.85 ppbv
 RT: 6.69 min Scan# 1743
 Delta R.T. -0.01 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	50.9	76.3
61	53.3	41.8	62.6





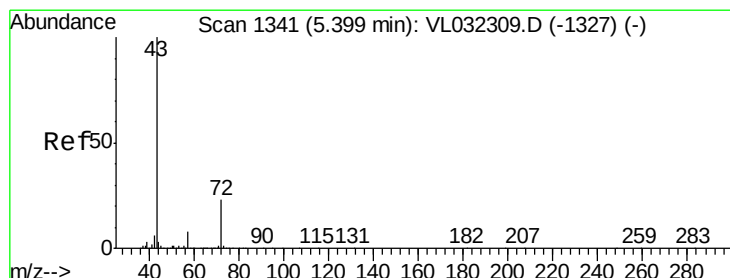
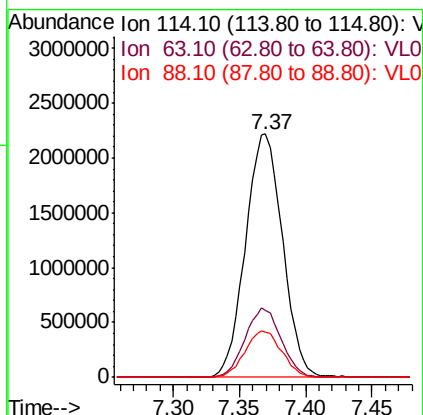
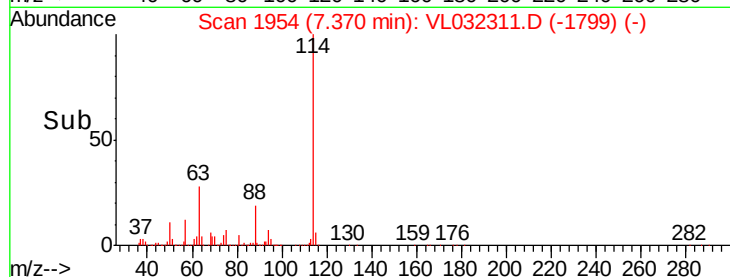
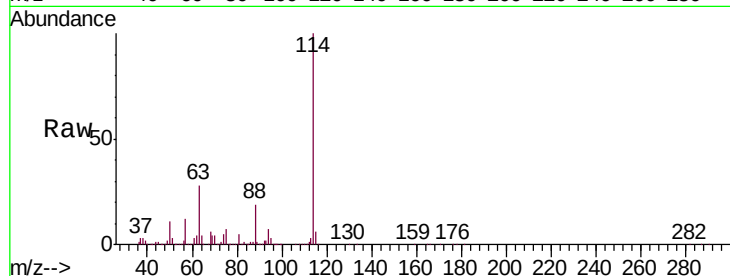
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.37 min Scan# 1954
 Delta R.T. -0.00 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.0	22.4	33.6
88	19.1	15.3	22.9

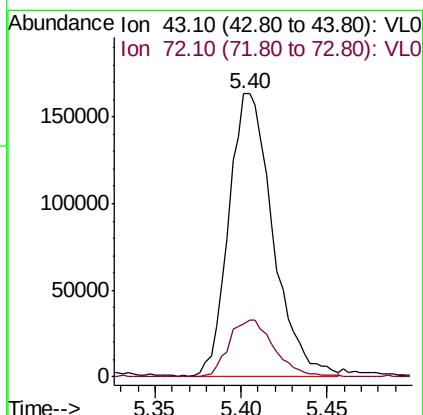
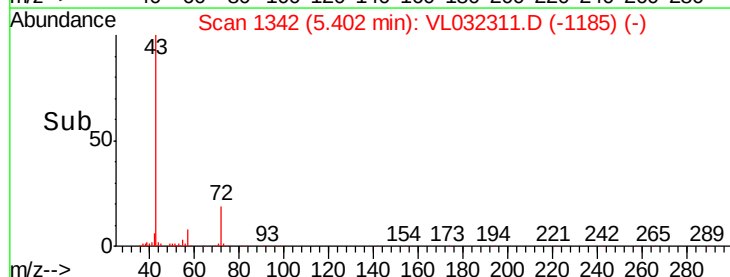
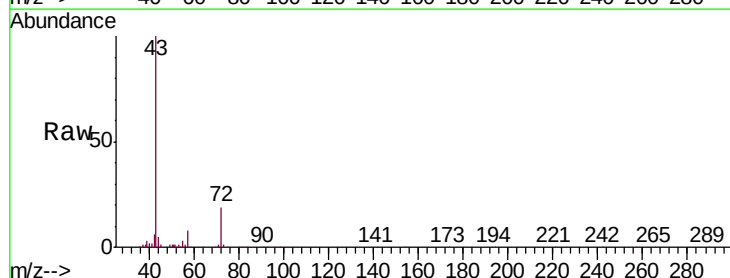
Manual Integrations
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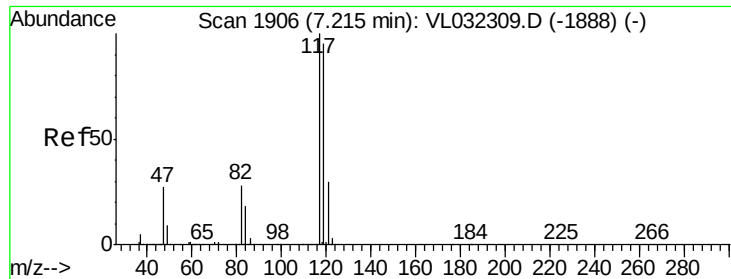
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 7/30/2018 11:42:58 AM



#34
 2-Butanone
 Concen: 0.97 ppbv
 RT: 5.40 min Scan# 1342
 Delta R.T. 0.00 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.1	17.4	26.2





#35

Carbon Tetrachloride

Concen: 0.92 ppbv

RT: 7.21 min Scan# 1905

Delta R.T. -0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

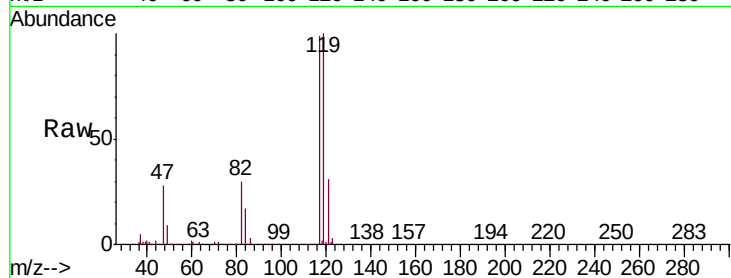
ClientSampleId :

VSTDIC001

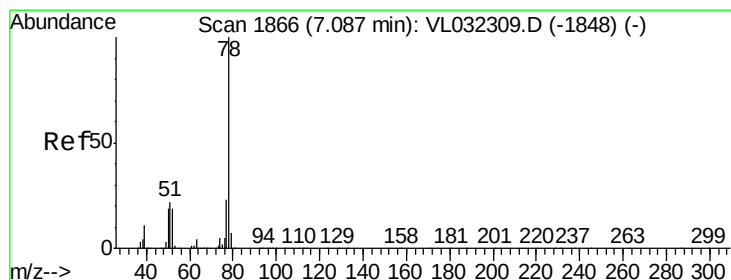
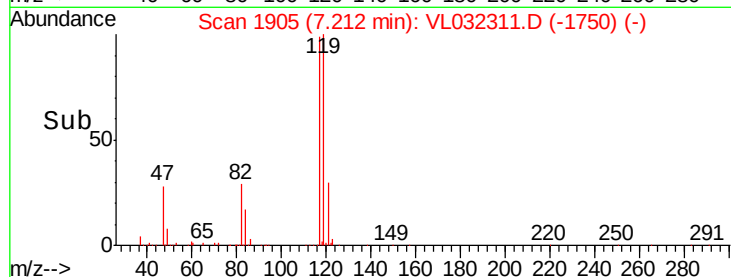
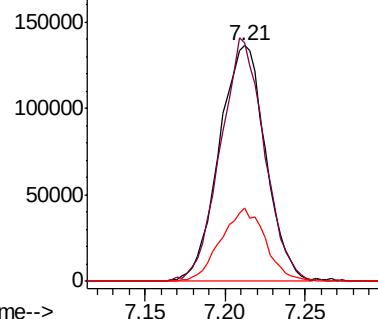
Tot Ion:	117	Resp:	271463
Ion Ratio	Lower	Upper	
117	100		
119	100.9	76.1	114.1
121	30.9	24.4	36.6

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



#36

Benzene

Concen: 0.95 ppbv

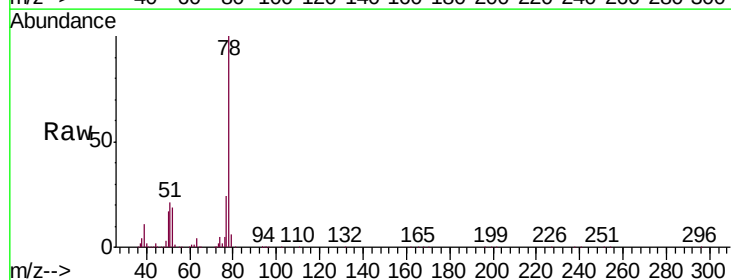
RT: 7.08 min Scan# 1864

Delta R.T. -0.01 min

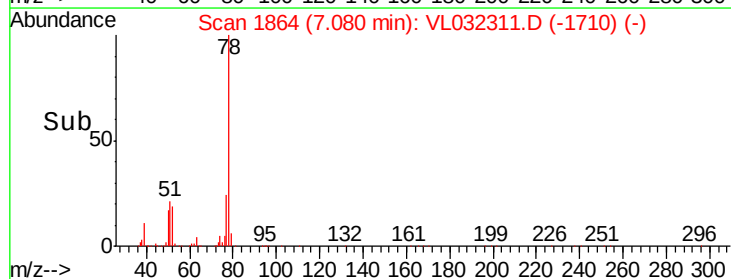
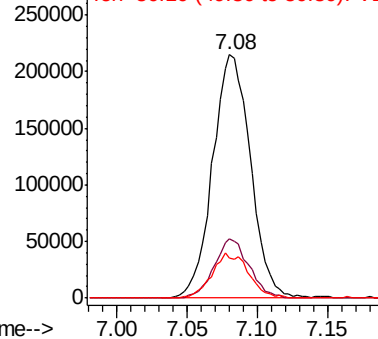
Lab File: VL032311.D

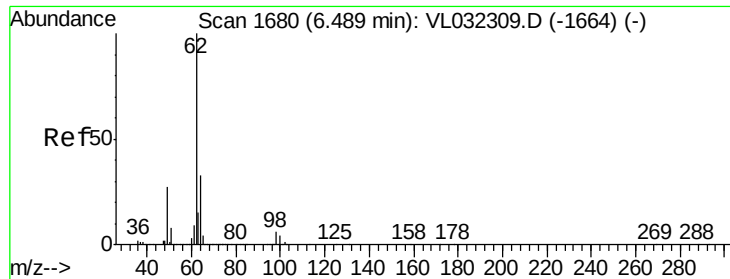
Acq: 27 Jul 2018 1:57

Tgt Ion:	78	Resp:	403869
Ion Ratio	Lower	Upper	
78	100		
77	24.5	18.4	27.6
50	16.7	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





#37

1,2-Dichloroethane

Concen: 0.94 ppbv

RT: 6.49 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 233562

Ion Ratio Lower Upper

62 100

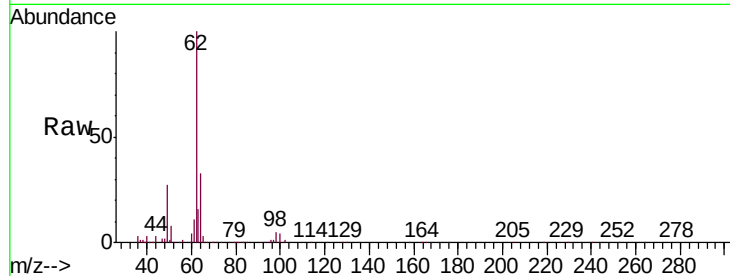
98 6.0 5.1 7.7

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.49

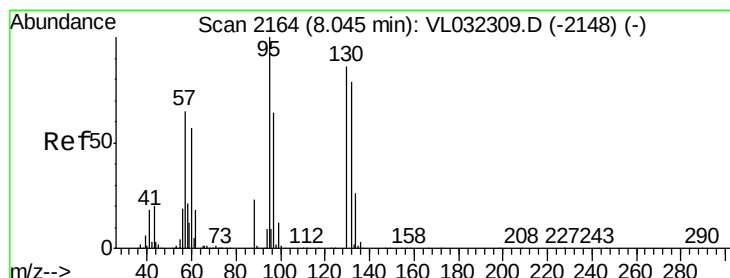
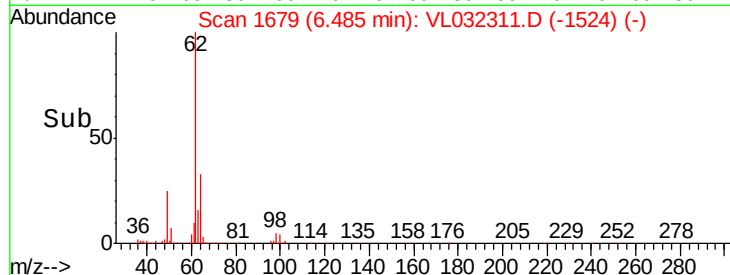
150000

100000

50000

0

Time--> 6.40 6.45 6.50 6.55



#38

Trichloroethene

Concen: 1.13 ppbv

RT: 8.04 min Scan# 2162

Delta R.T. -0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Tgt Ion: 130 Resp: 162727

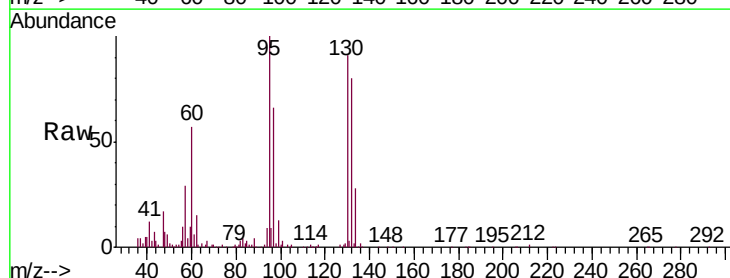
Ion Ratio Lower Upper

130 100

95 111.0 92.9 139.3

132 88.5 73.0 109.4

97 72.9 59.6 89.4



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

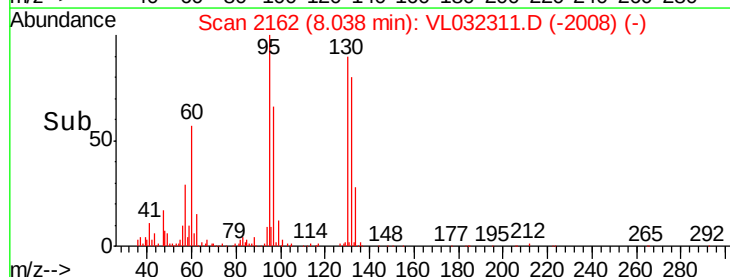
150000

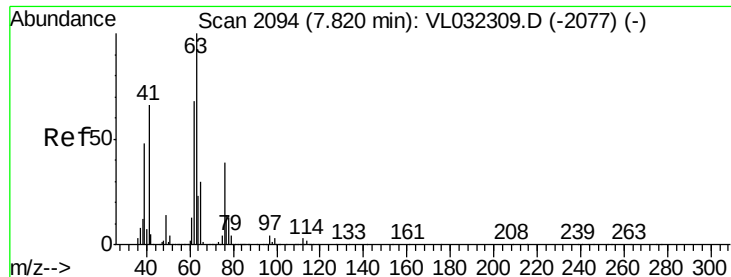
100000

50000

0

Time--> 7.95 8.00 8.05 8.10





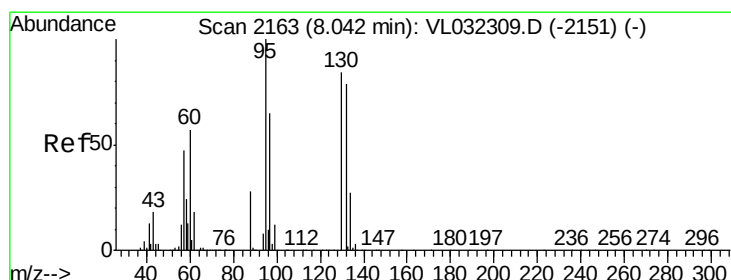
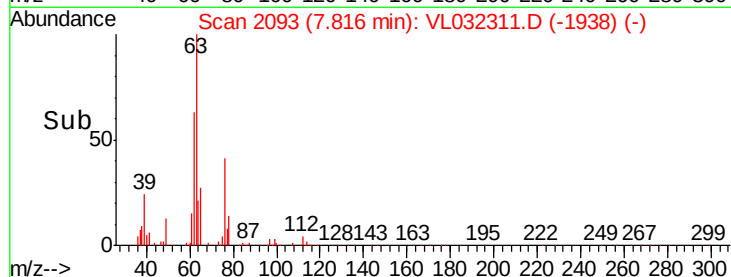
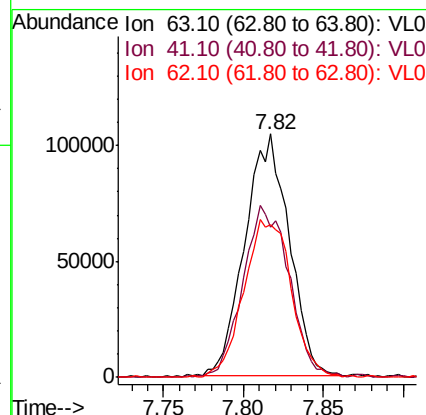
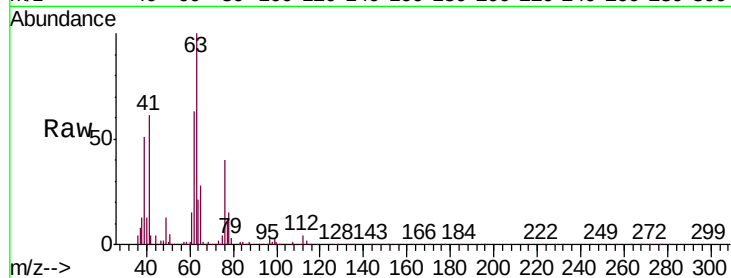
#39
 1,2-Dichloropropane
 Concen: 1.13 ppbv
 RT: 7.82 min Scan# 2093
 Delta R.T. -0.00 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
63	100		
41	61.4	52.5	78.7
62	62.7	54.6	81.8

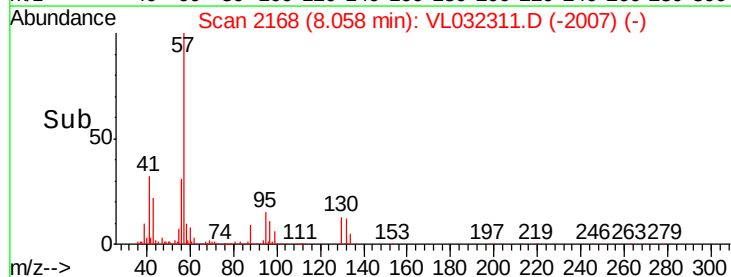
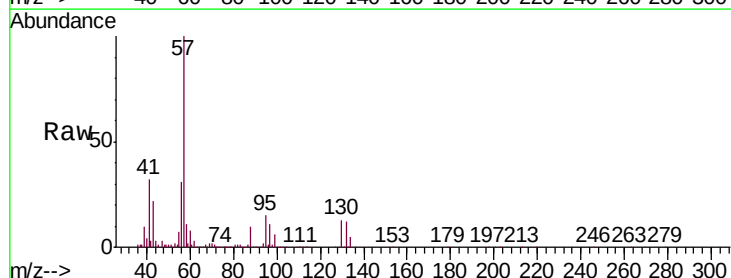
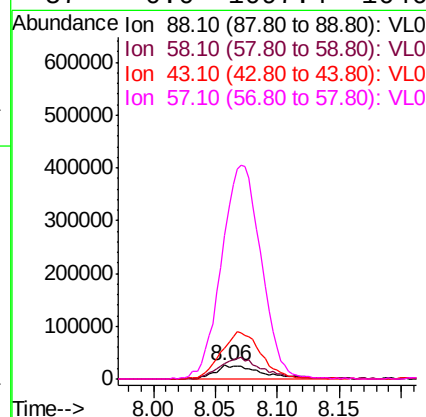
Manual Integrations
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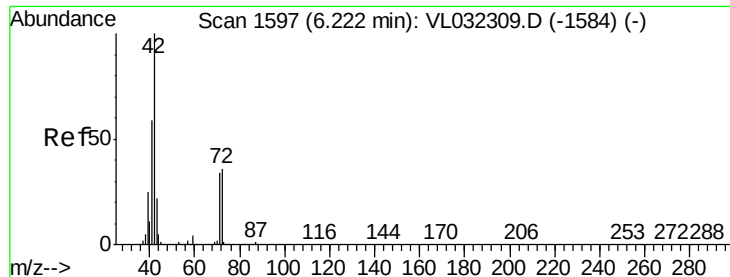
MMDadoda
 7/30/2018 11:42:58 AM



#40
 1,4-Dioxane
 Concen: 1.34 ppbv m
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.02 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	120.5	180.7#
43	0.0	246.2	369.2#
57	0.0	1097.4	1646.2#





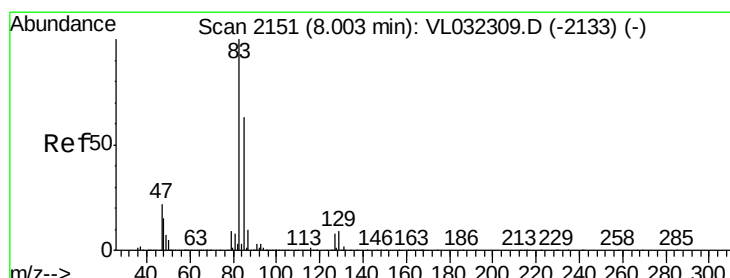
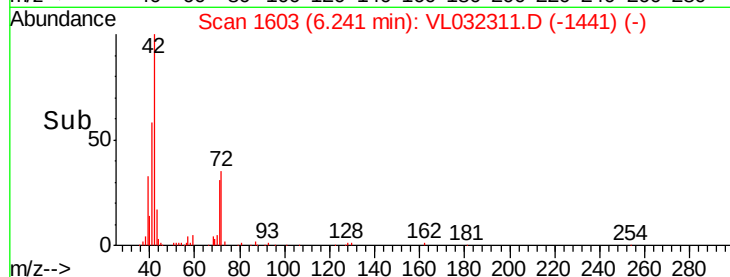
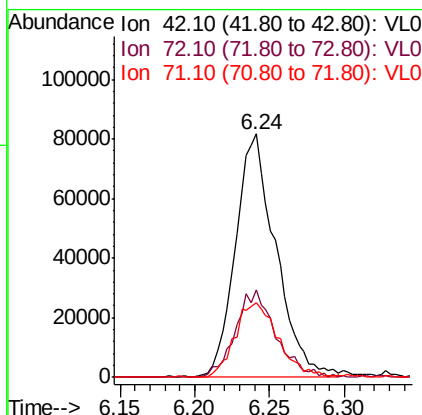
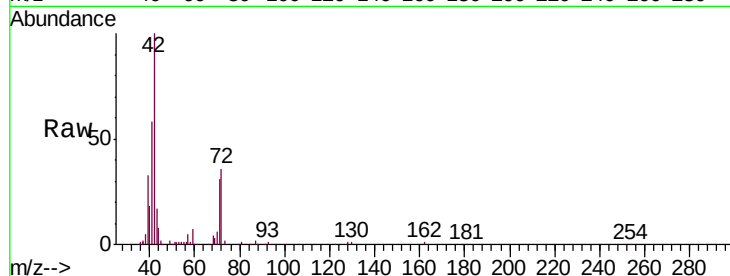
#41
Tetrahydrofuran
Concen: 0.89 ppbv
RT: 6.24 min Scan# 1603
Delta R.T. 0.02 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.8	28.6	42.8
71	34.2	27.8	41.6

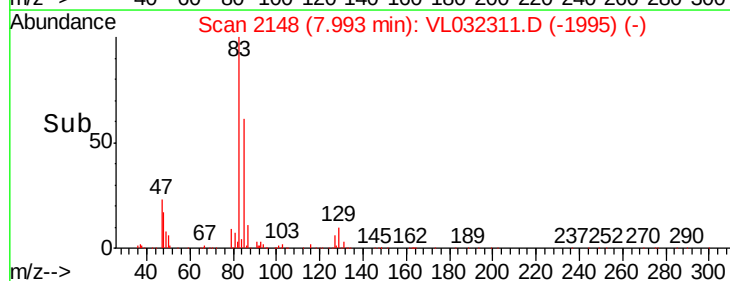
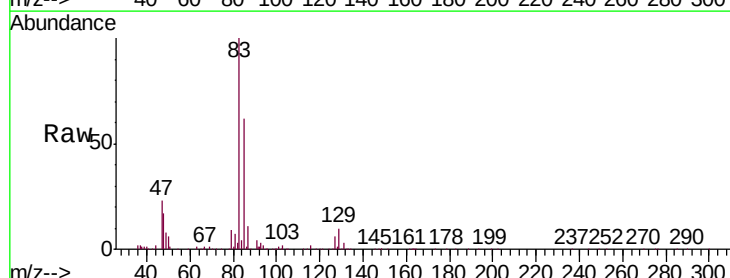
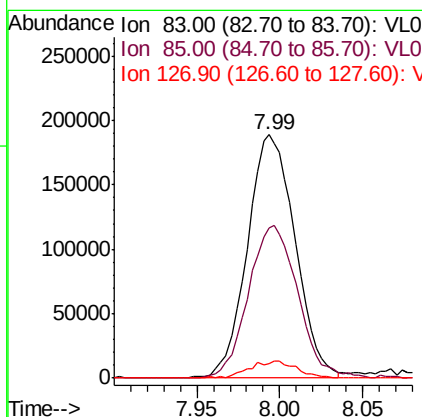
Manual Integrations
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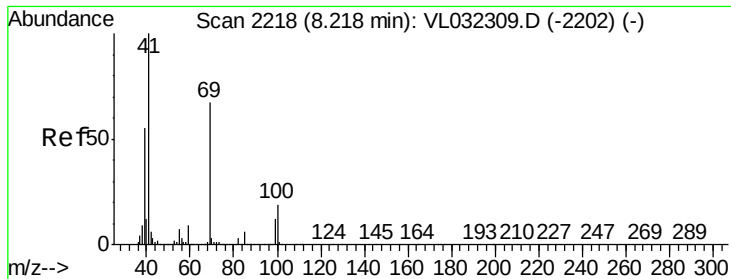
MMDadoda
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#42
Bromodichloromethane
Concen: 1.14 ppbv
RT: 7.99 min Scan# 2148
Delta R.T. -0.01 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.7	50.7	76.1
127	5.8	6.0	9.0#





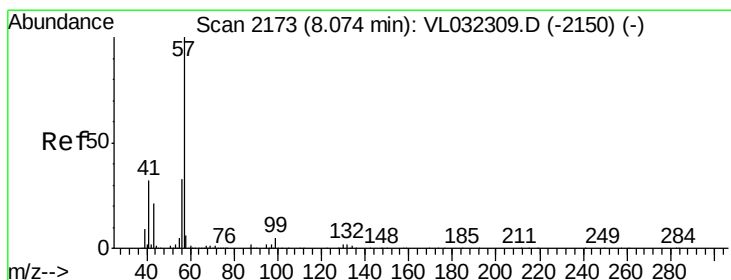
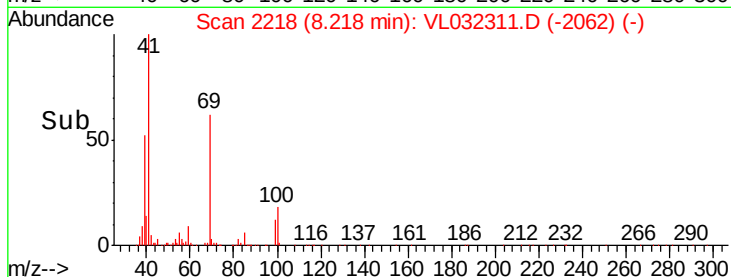
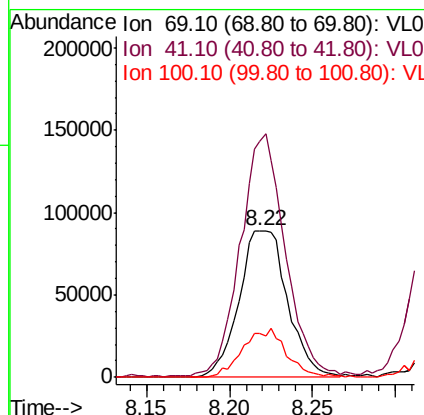
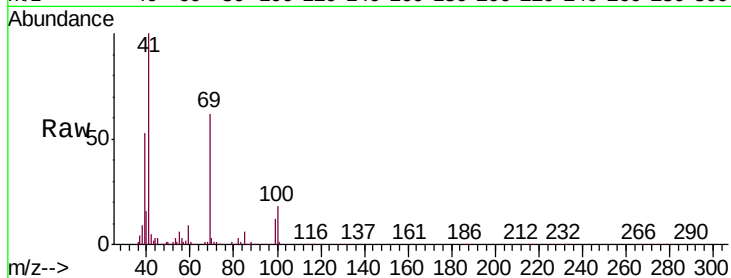
#43
Methyl Methacrylate
Concen: 1.04 ppbv
RT: 8.22 min Scan# 2218
Delta R.T. 0.00 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
69	100		
41	151.7	120.6	180.8
100	30.2	23.2	34.8

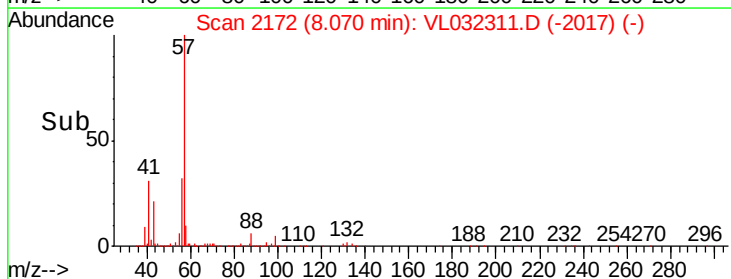
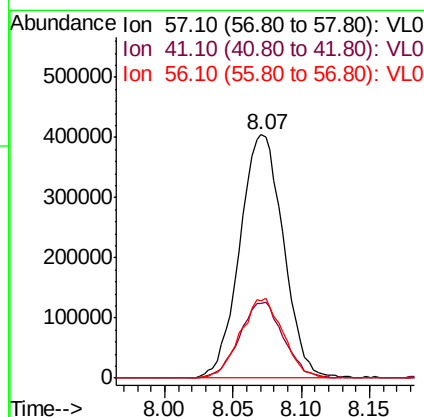
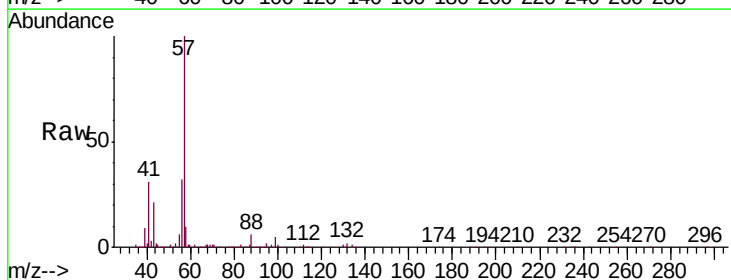
Manual Integrations
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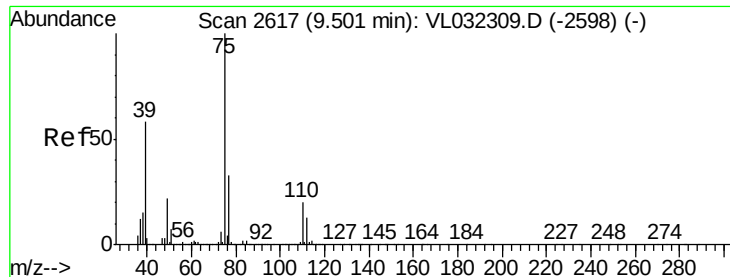
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 1.18 ppbv
RT: 8.07 min Scan# 2172
Delta R.T. -0.00 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.3	24.3	36.5
56	32.7	25.4	38.2





#45

t-1,3-Dichloropropene

Concen: 0.90 ppbv

RT: 9.49 min Scan# 2615

Delta R.T. -0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 75 Resp: 191618

Ion Ratio Lower Upper

75 100

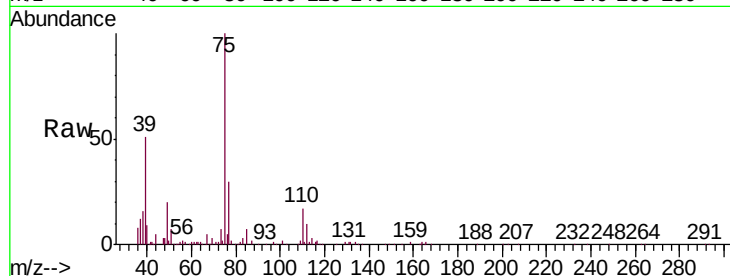
77 30.3 26.2 39.4

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.49

100000

80000

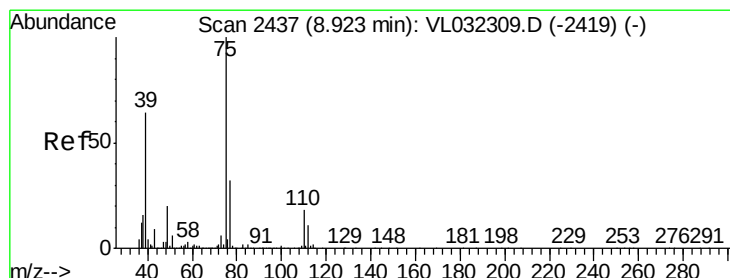
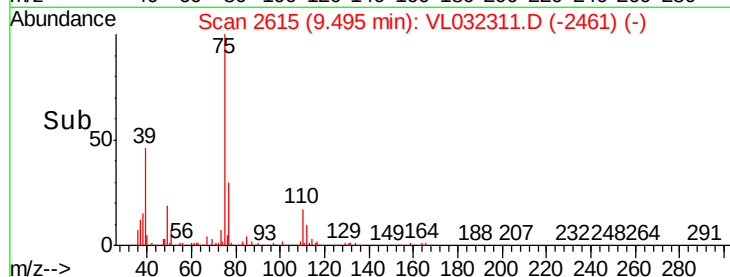
60000

40000

20000

0

Time--> 9.40 9.45 9.50 9.55



#46

cis-1,3-Dichloropropene

Concen: 0.93 ppbv

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

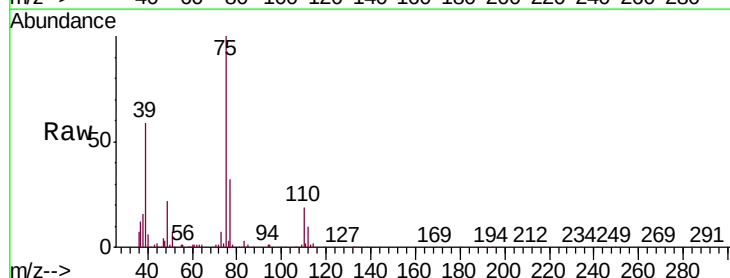
Tgt Ion: 75 Resp: 245337

Ion Ratio Lower Upper

75 100

39 58.8 50.9 76.3

77 31.6 25.7 38.5



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

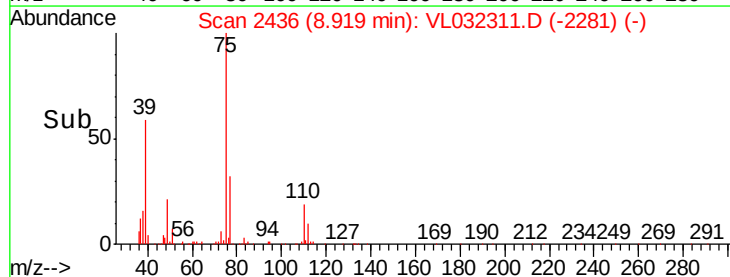
150000

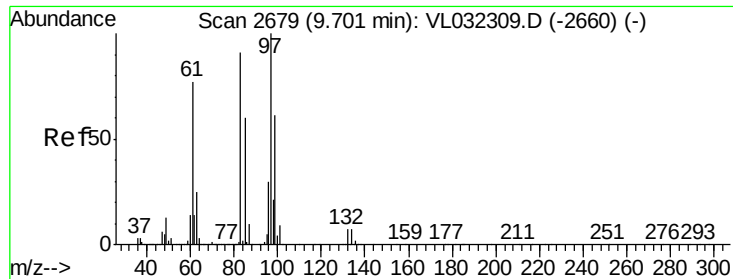
100000

50000

0

Time--> 8.85 8.90 8.95





#47

1,1,2-Trichloroethane

Concen: 1.06 ppbv

RT: 9.70 min Scan# 2679

Delta R.T. 0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

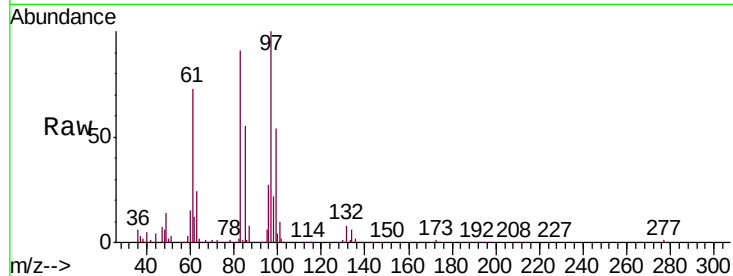
ClientSampleId :

VSTDIC001

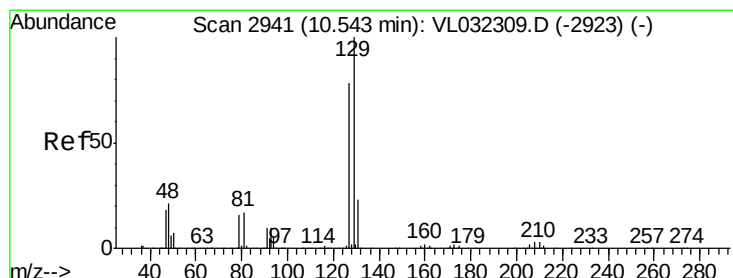
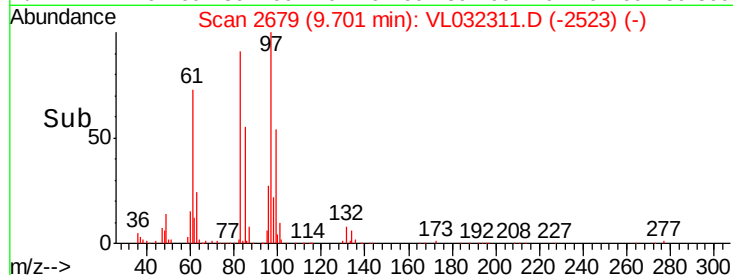
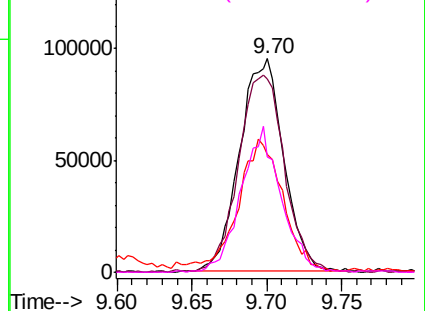
Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		194513		
83	90.7	73.0	109.6		
85	54.7	48.1	72.1		
99	53.8	48.5	72.7		

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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: 1.04 ppbv

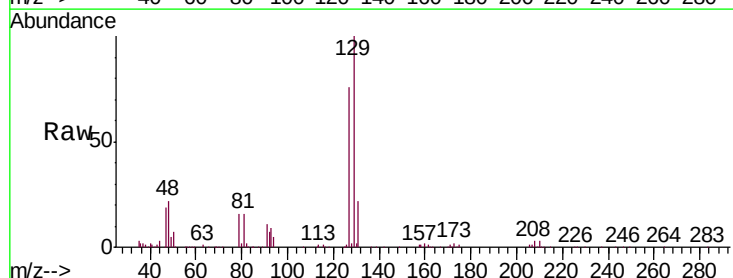
RT: 10.53 min Scan# 2938

Delta R.T. -0.01 min

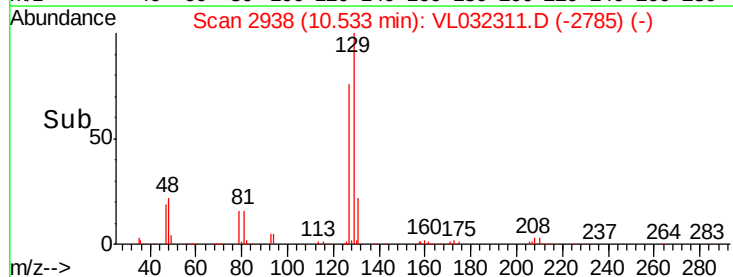
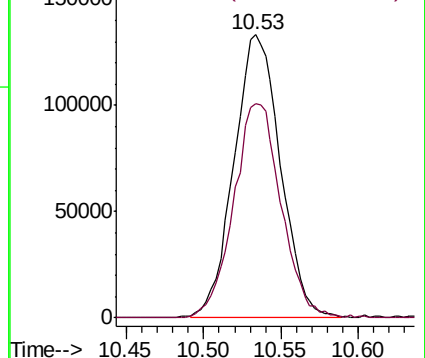
Lab File: VL032311.D

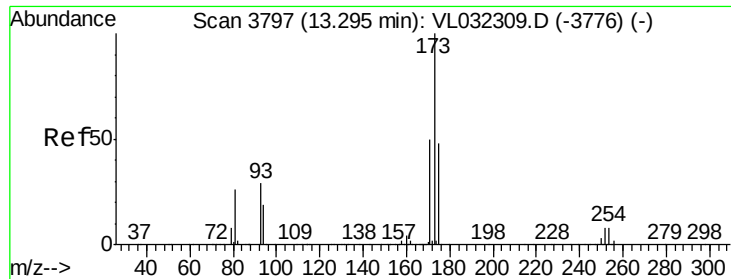
Acq: 27 Jul 2018 1:57

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		278789		
127	77.3	39.5	118.3		



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





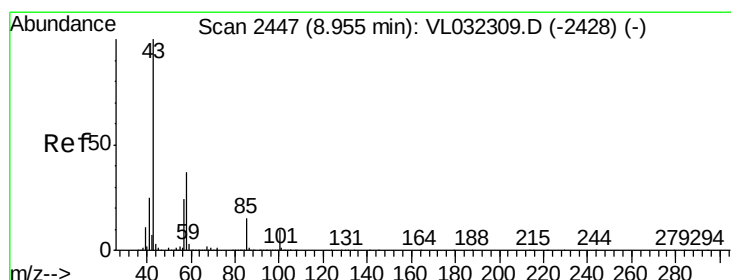
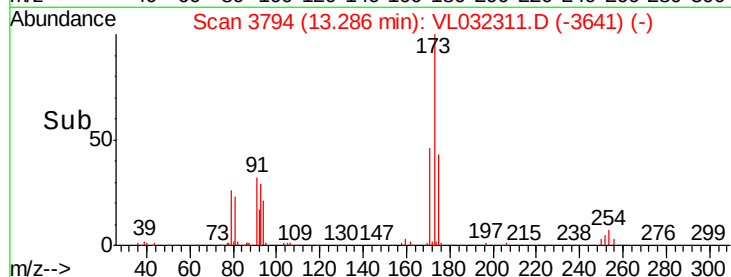
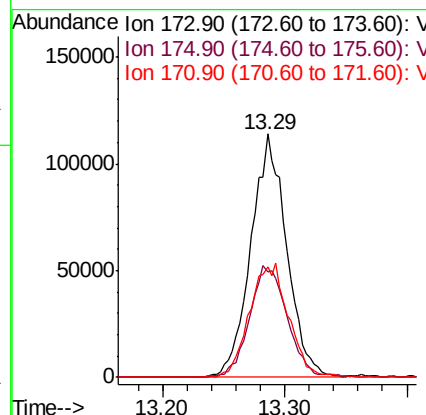
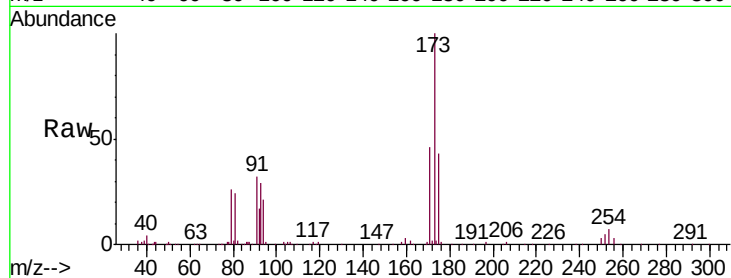
#49
Bromoform
Concen: 0.98 ppbv
RT: 13.29 min Scan# 3794
Delta R.T. -0.01 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.3	38.9	58.3
171	51.3	42.2	63.2

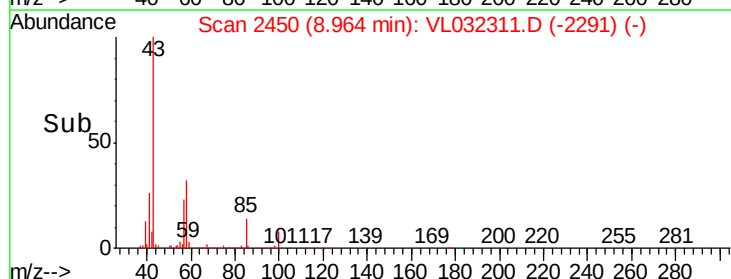
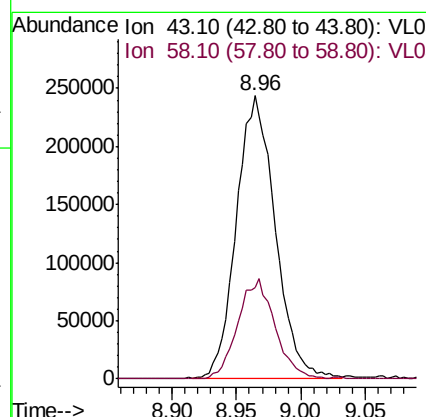
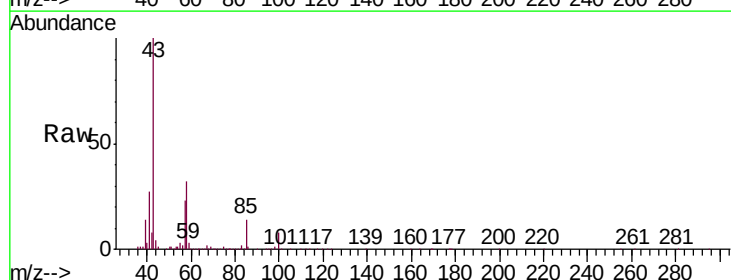
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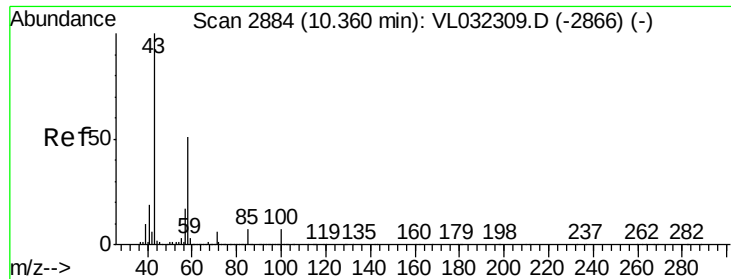
MMDadoda
7/30/2018 11:42:58 AM



#50
4-Methyl-2-Pentanone
Concen: 1.04 ppbv
RT: 8.96 min Scan# 2450
Delta R.T. 0.01 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.3	28.9	43.3





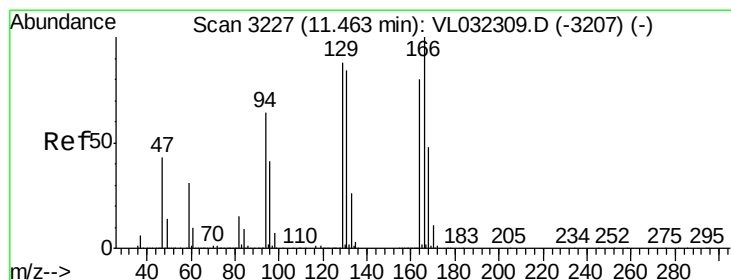
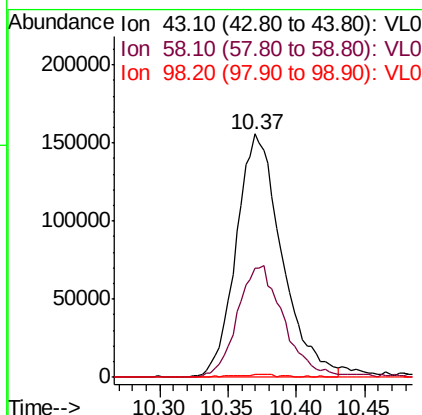
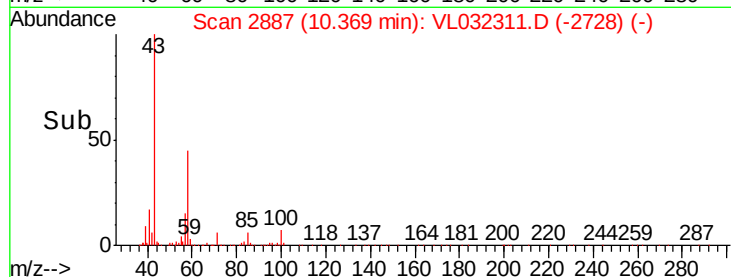
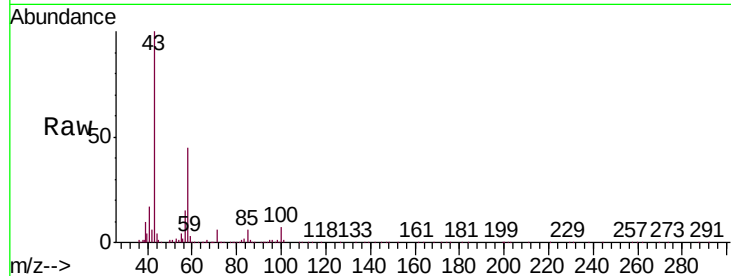
#51
2-Hexanone
Concen: 0.94 ppbv
RT: 10.37 min Scan# 2887
Delta R.T. 0.01 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
58	46.8	39.1	58.7
98	1.3	0.3	0.5#

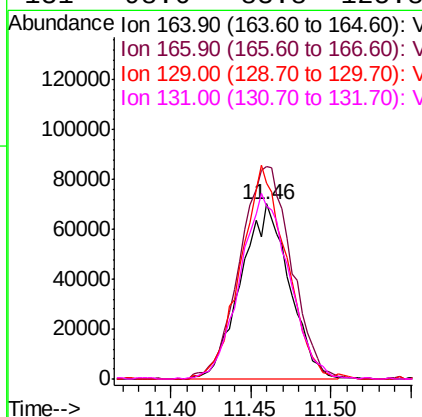
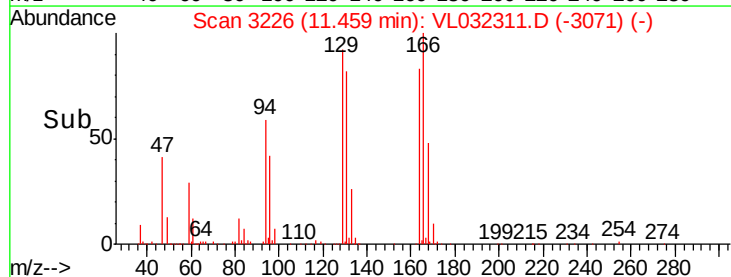
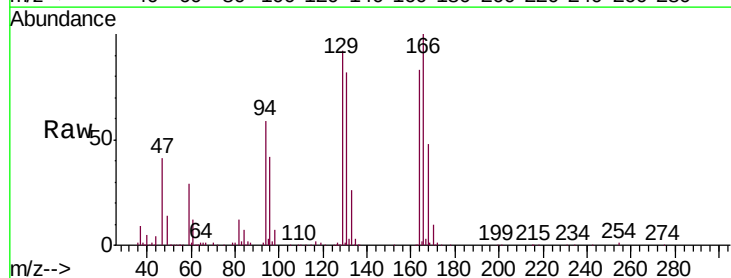
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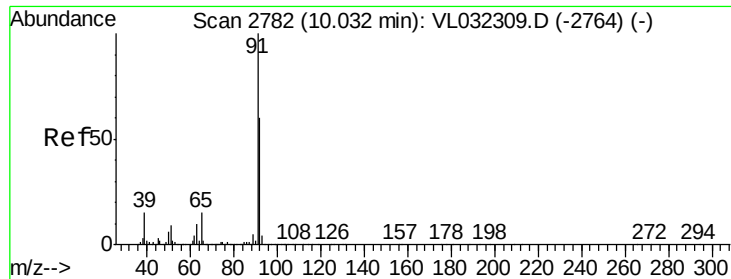
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#52
Tetrachloroethene
Concen: 0.99 ppbv
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.9	100.0	150.0
129	111.7	87.9	131.9
131	98.6	83.8	125.8





#53

Toluene

Concen: 0.91 ppbv

RT: 10.03 min Scan# 2782

Delta R.T. 0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 468090

Ion Ratio Lower Upper

91 100

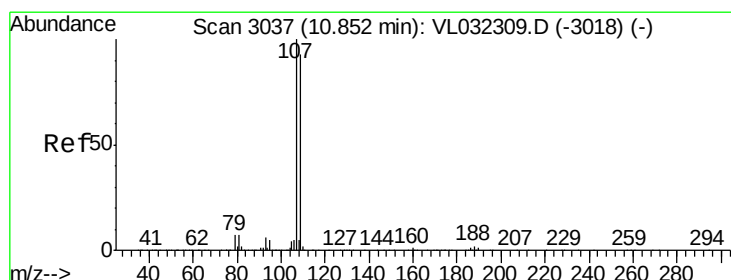
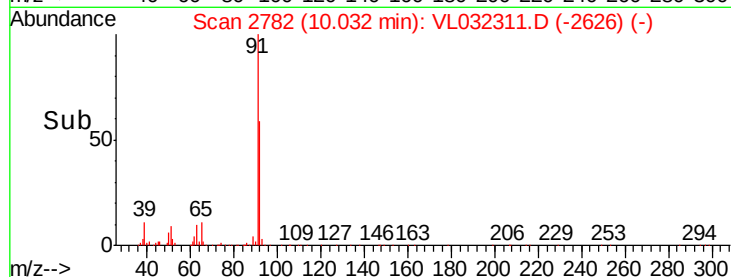
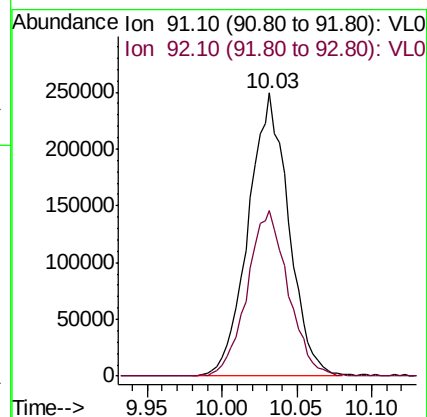
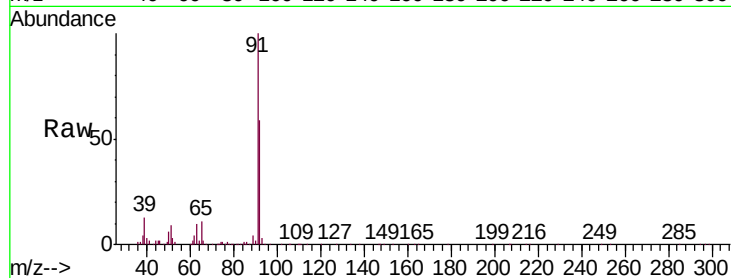
92 59.3 48.6 72.8

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 0.99 ppbv

RT: 10.85 min Scan# 3035

Delta R.T. -0.01 min

Lab File: VL032311.D

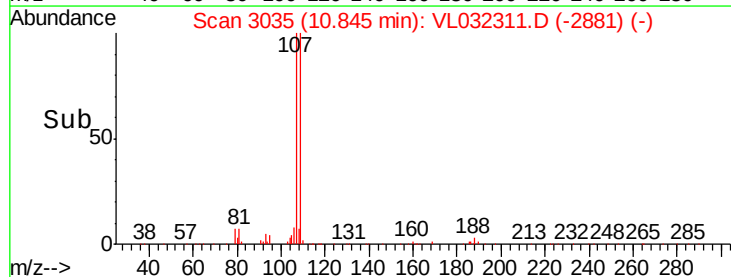
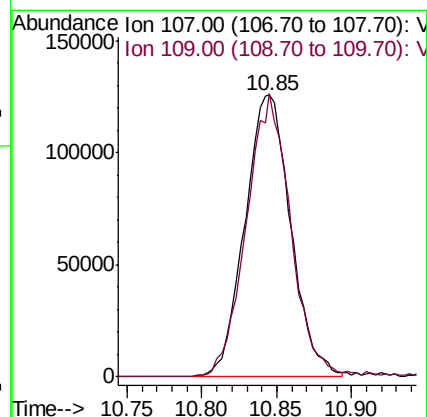
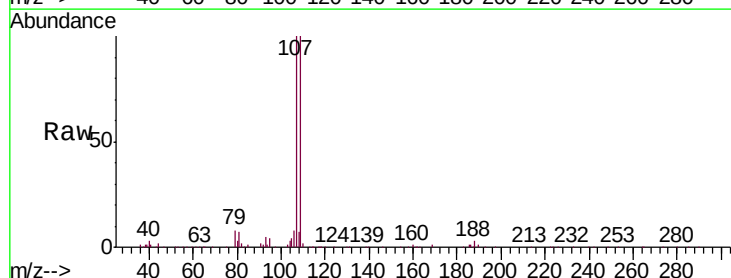
Acq: 27 Jul 2018 1:57

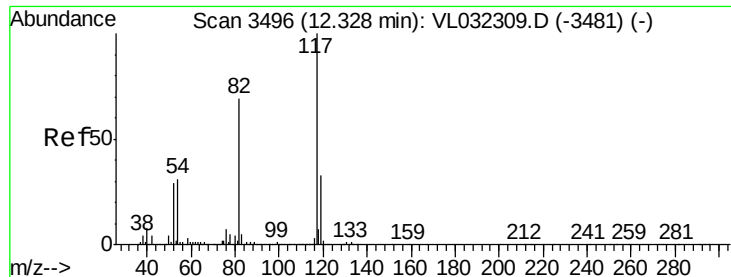
Tgt Ion: 107 Resp: 268849

Ion Ratio Lower Upper

107 100

109 100.4 74.1 111.1





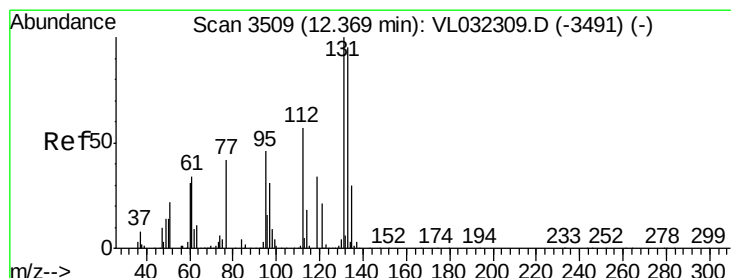
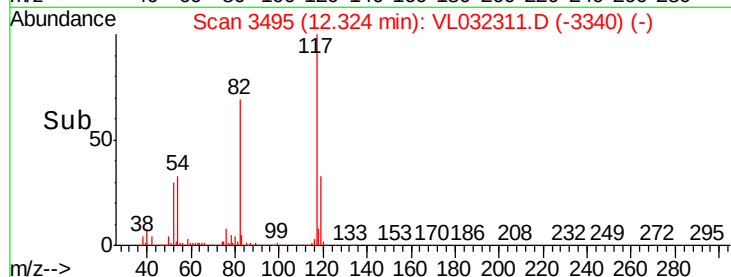
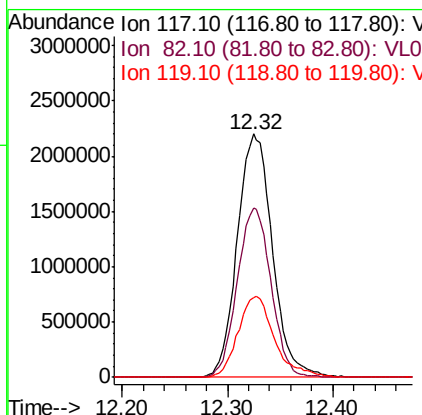
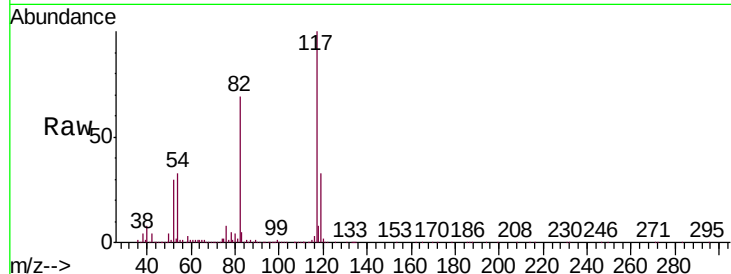
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.32 min Scan# 3495
Delta R.T. -0.00 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.1	52.6	78.8
119	34.6	25.7	38.5

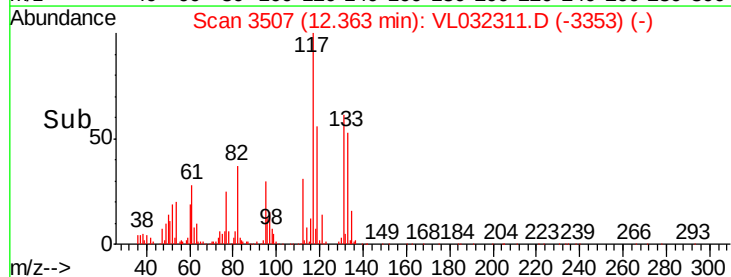
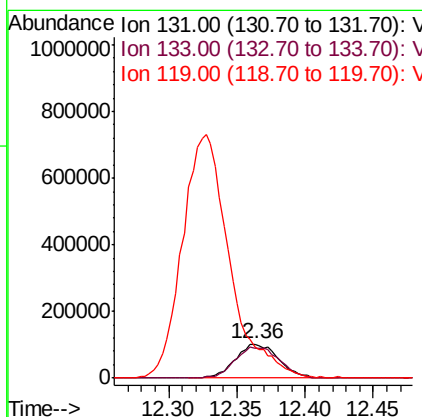
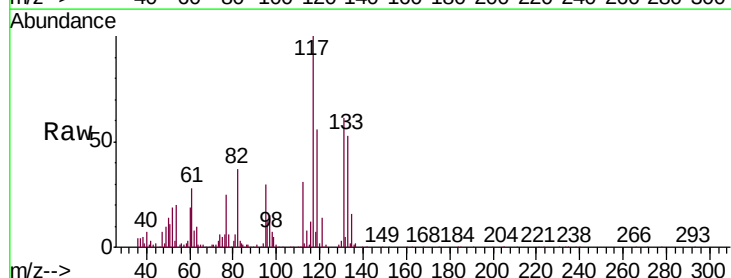
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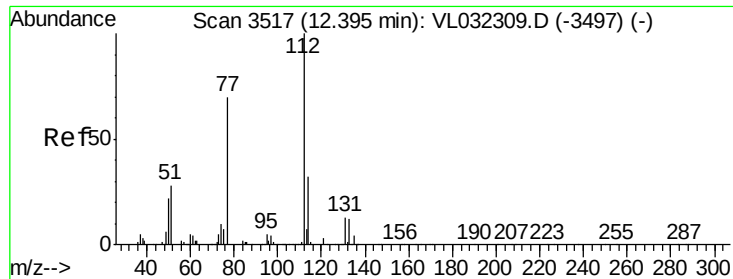
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 1.00 ppbv
RT: 12.36 min Scan# 3507
Delta R.T. -0.01 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.9	75.8	113.6
119	780.3	48.1	72.1#





#57

Chlorobenzene

Concen: 1.03 ppbv

RT: 12.39 min Scan# 3515

Delta R.T. -0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

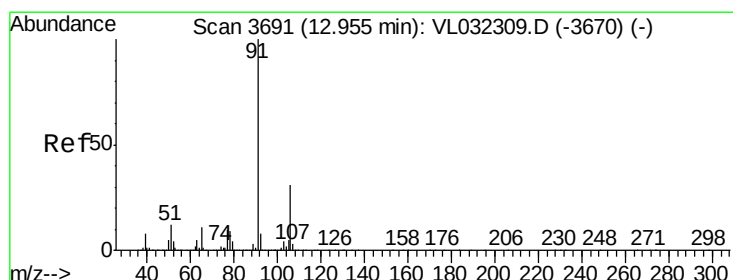
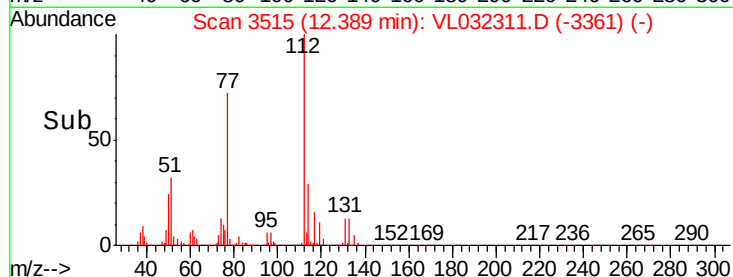
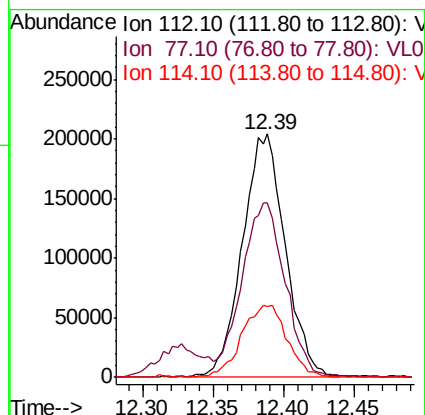
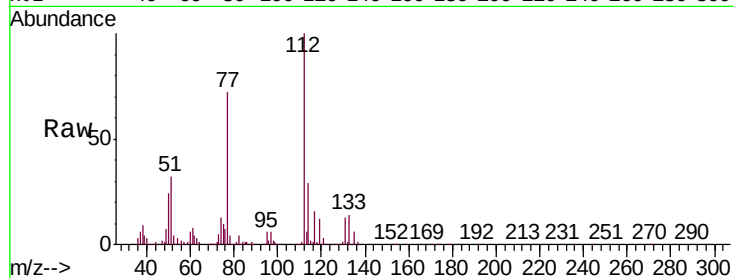
ClientSampleId :

VSTDIC001

Tot Ion:	112	Resp:	430309
Ion Ratio	Lower	Upper	
112	100		
77	71.4	56.5	84.7
114	28.8	28.4	34.7

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7/30/2018 11:42:58 AM



#58

Ethyl Benzene

Concen: 0.92 ppbv

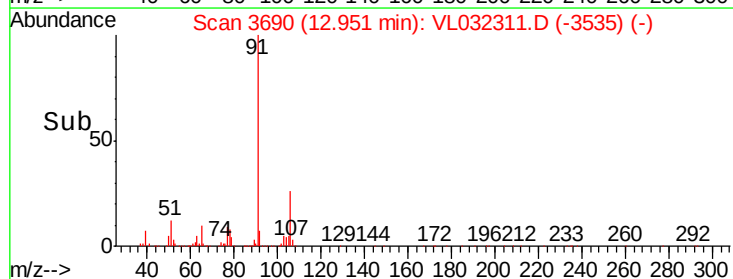
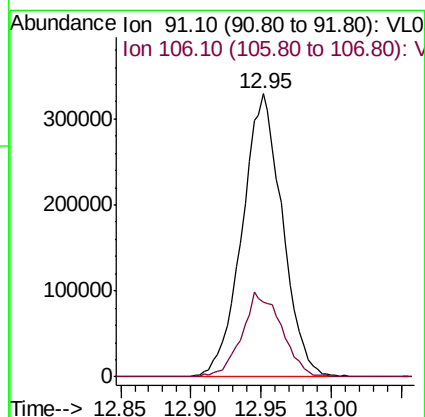
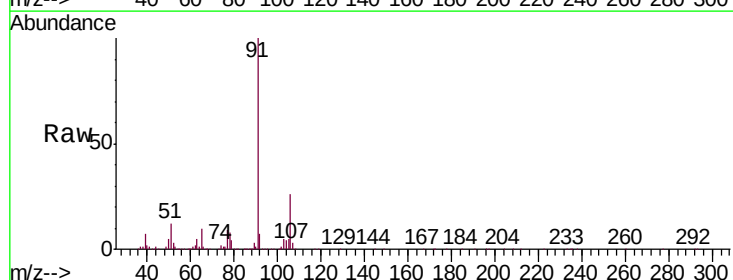
RT: 12.95 min Scan# 3690

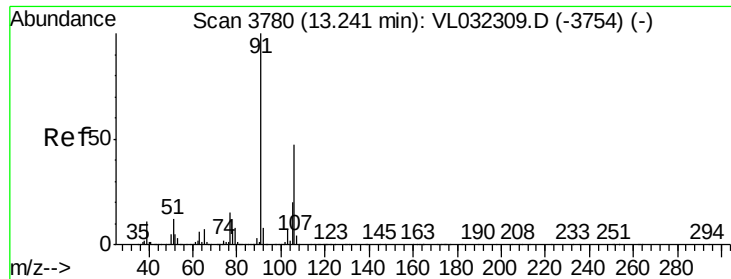
Delta R.T. -0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Tgt Ion:	91	Resp:	653205
Ion Ratio	Lower	Upper	
91	100		
106	26.2	25.0	37.4





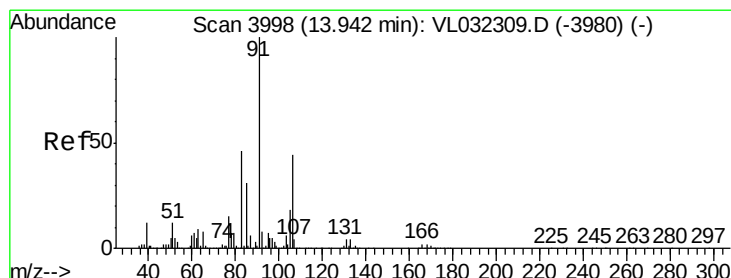
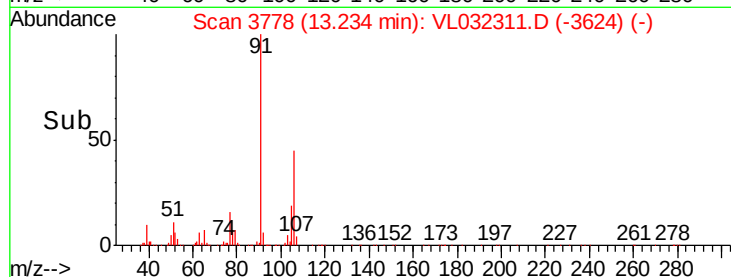
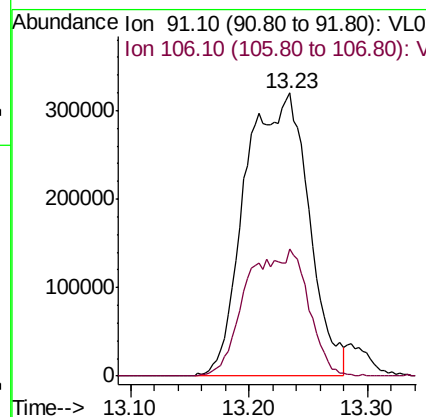
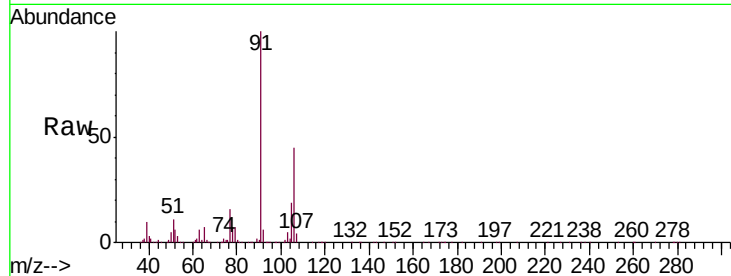
#59
m/p-Xylene
Concen: 1.93 ppbv m
RT: 13.23 min Scan# 3778
Delta R.T. -0.01 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 91 Resp: 1178313
Ion Ratio Lower Upper
91 100
106 43.8 36.4 54.6

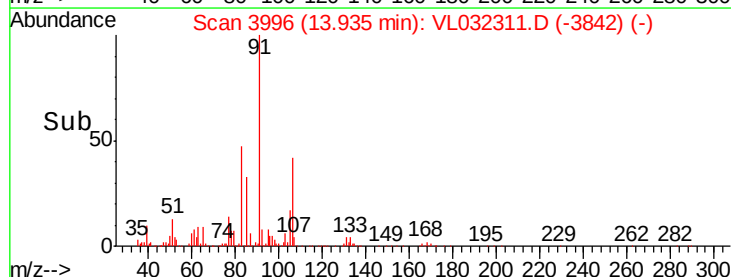
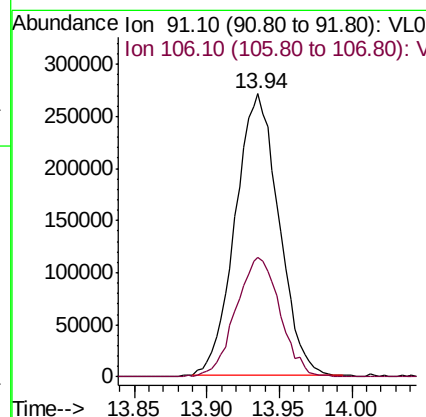
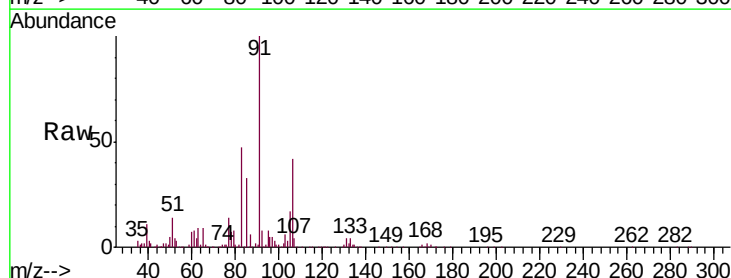
Manual Integrations
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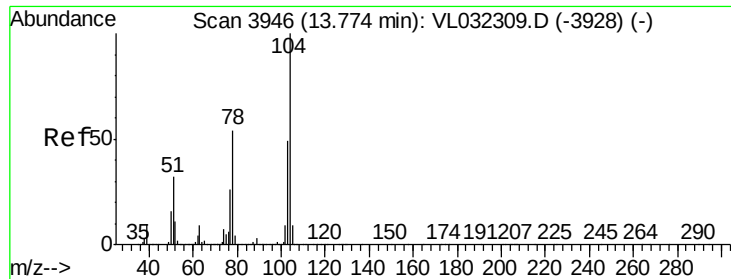
MMDadoda
7/30/2018 11:42:58 AM



#60
o-Xylene
Concen: 0.93 ppbv
RT: 13.94 min Scan# 3996
Delta R.T. -0.01 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion: 91 Resp: 566991
Ion Ratio Lower Upper
91 100
106 43.2 22.4 67.0





#61

Stvrene

Concen: 0.88 ppbv

RT: 13.77 min Scan# 3946

Delta R.T. 0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

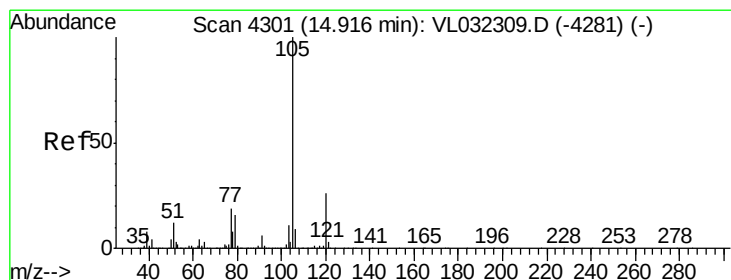
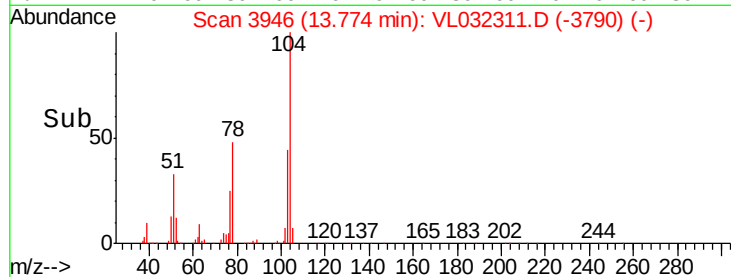
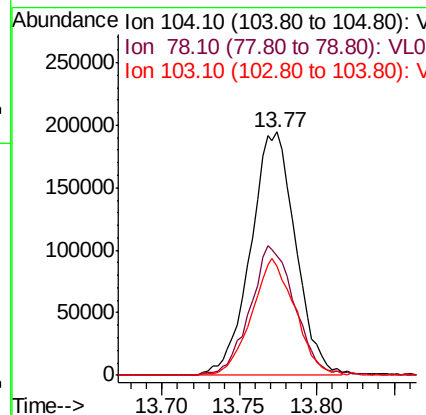
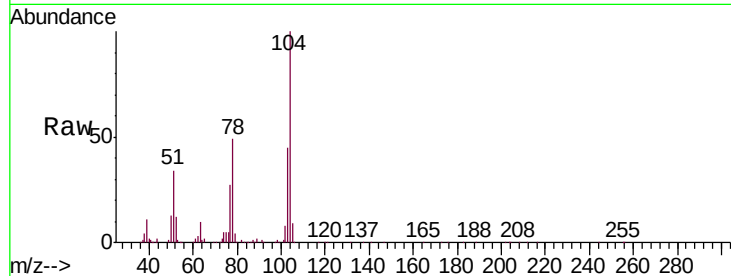
ClientSampleId :

VSTDIC001

Tot Ion:	104	Resp:	391855
Ion Ratio	Lower	Upper	
104	100		
78	53.6	42.6	63.8
103	46.6	38.0	57.0

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#62

Isopropylbenzene

Concen: 0.95 ppbv

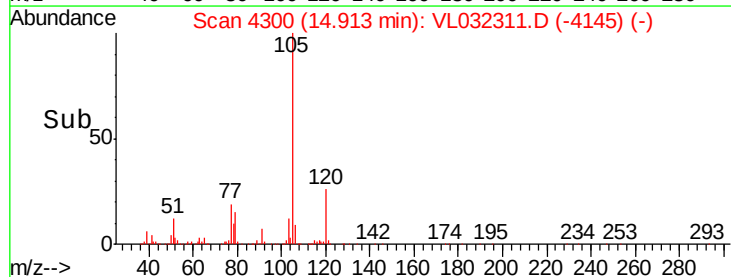
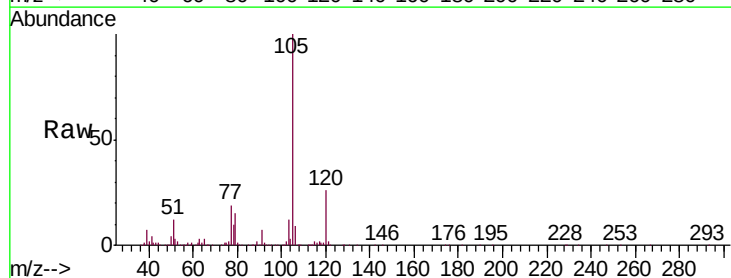
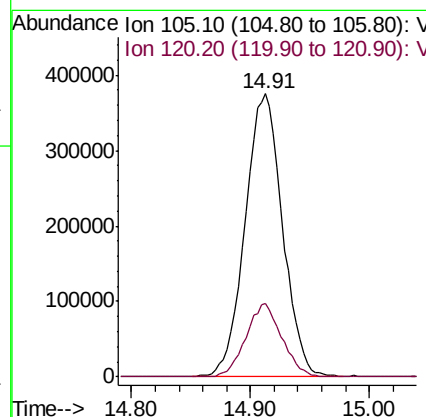
RT: 14.91 min Scan# 4300

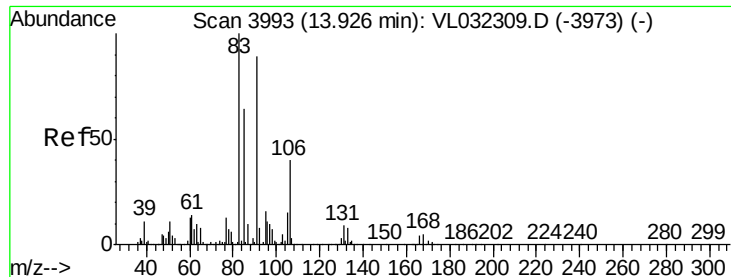
Delta R.T. -0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Tgt Ion:	105	Resp:	816388
Ion Ratio	Lower	Upper	
105	100		
120	25.0	20.4	30.6





#63

1,1,2,2-Tetrachloroethane

Concen: 0.94 ppbv

RT: 13.92 min Scan# 3992

Delta R.T. -0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

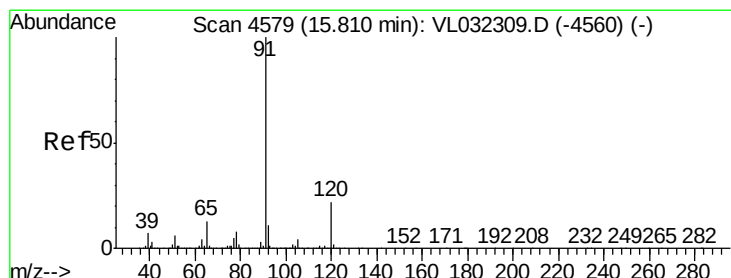
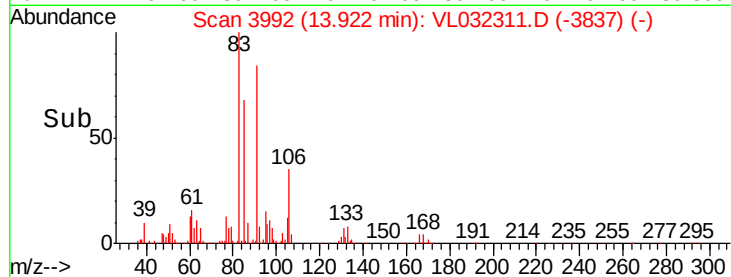
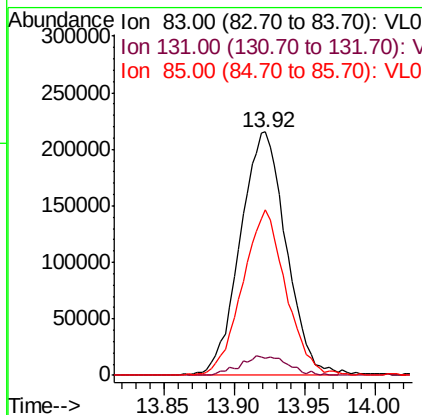
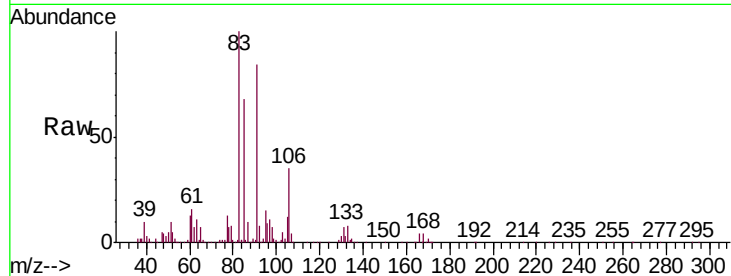
ClientSampleId :

VSTDIC001

Tot Ion:	83	Resp:	487283
Ion Ratio	Lower	Upper	
83	100		
131	8.3	4.3	12.8
85	64.9	32.6	97.7

Manual Integrations
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#64

n-propylbenzene

Concen: 0.95 ppbv

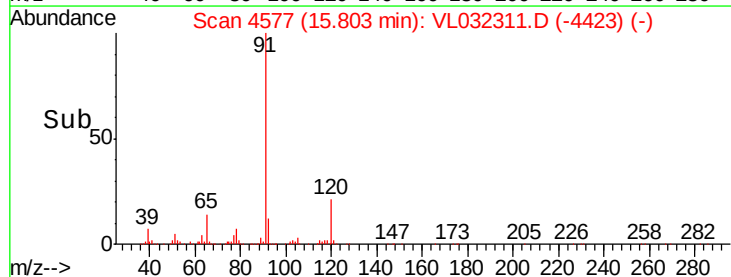
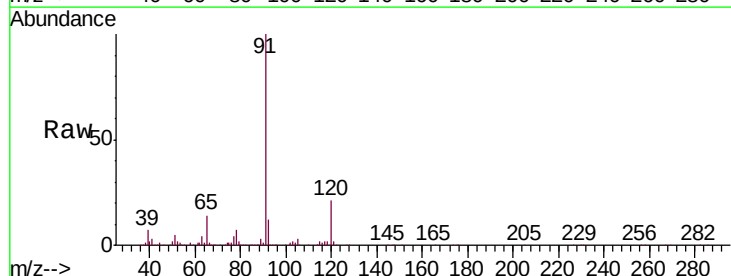
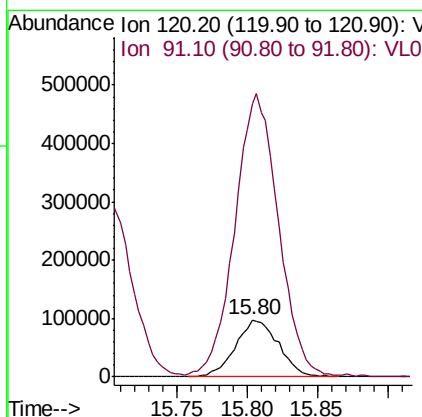
RT: 15.80 min Scan# 4577

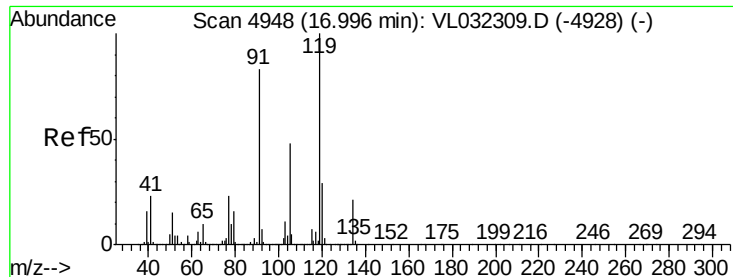
Delta R.T. -0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Tgt Ion:	120	Resp:	209238
Ion Ratio	Lower	Upper	
120	100		
91	504.8	381.8	572.8





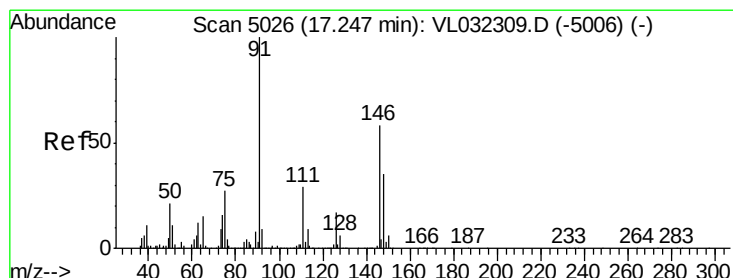
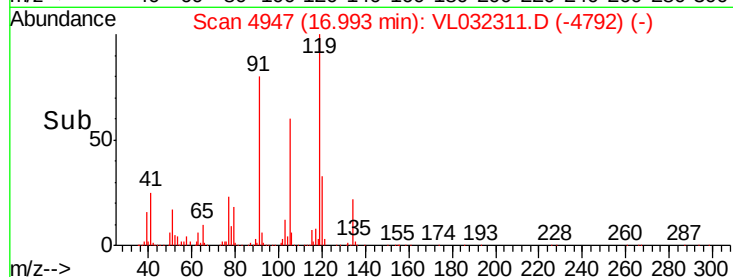
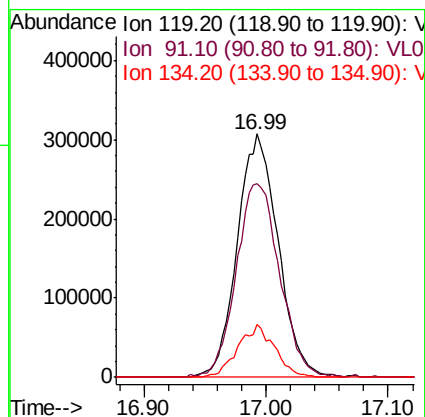
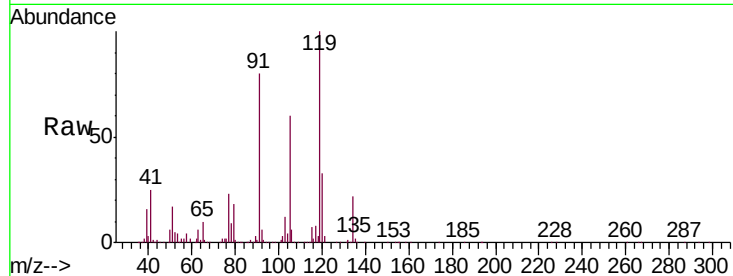
#65
tert-Butylbenzene
Concen: 0.97 ppbv
RT: 16.99 min Scan# 4947
Delta R.T. -0.00 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
119	100	710120		
91	85.4	67.5	101.3	
134	19.6	15.8	23.6	

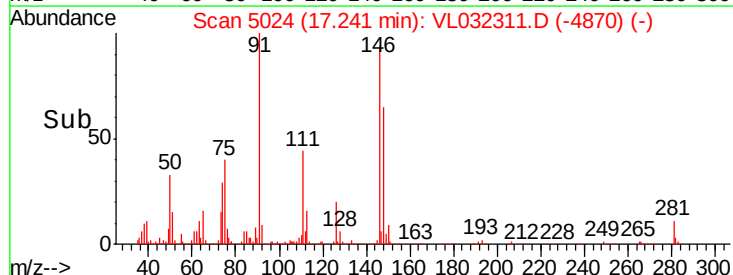
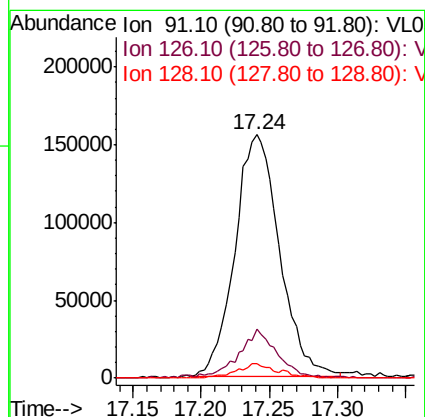
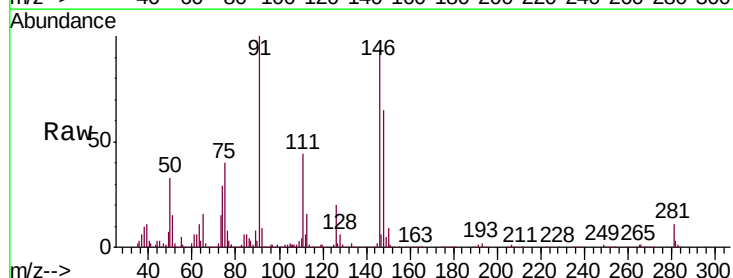
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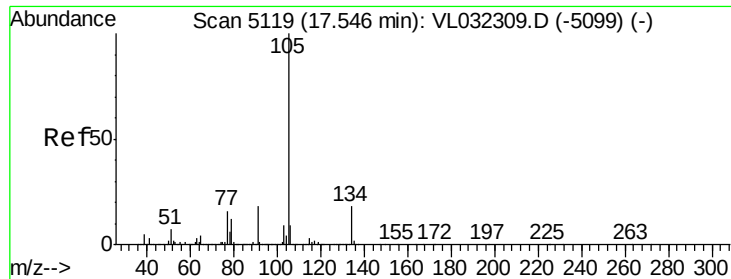
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#66
Benzyl Chloride
Concen: 0.86 ppbv
RT: 17.24 min Scan# 5024
Delta R.T. -0.01 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	353857		
126	18.4	13.7	20.5	
128	5.7	4.3	6.5	





#67

sec-Butylbenzene

Concen: 0.97 ppbv

RT: 17.54 min Scan# 5118

Delta R.T. -0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 105 Resp: 1060235

Ion Ratio Lower Upper

105 100

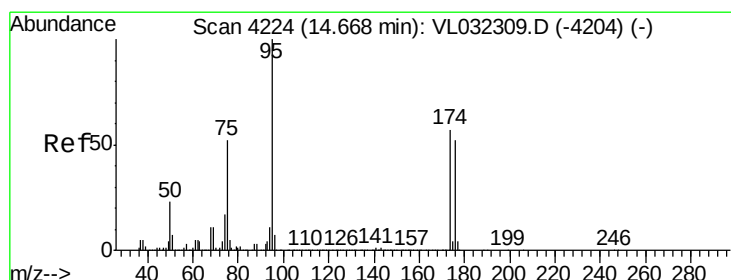
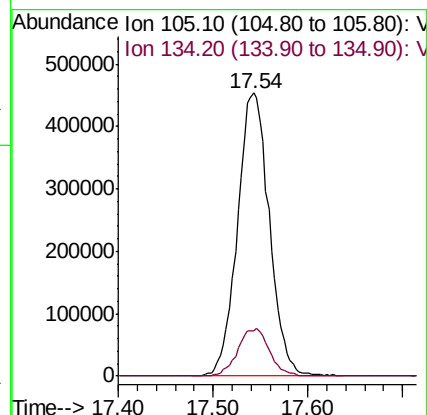
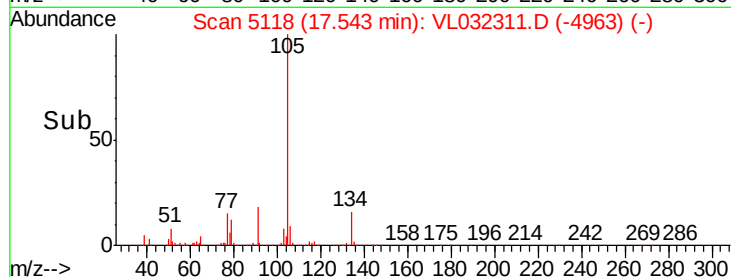
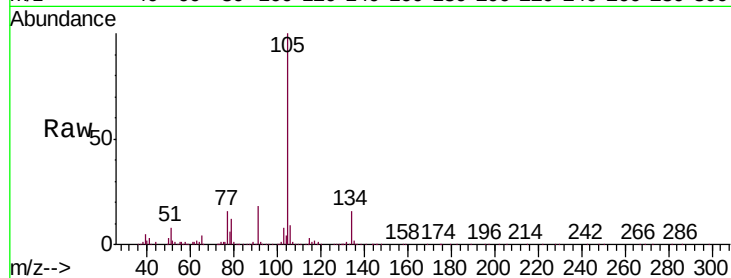
134 16.8 14.2 21.4

Manual Integrations

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.85 ppbv

RT: 14.66 min Scan# 4222

Delta R.T. -0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

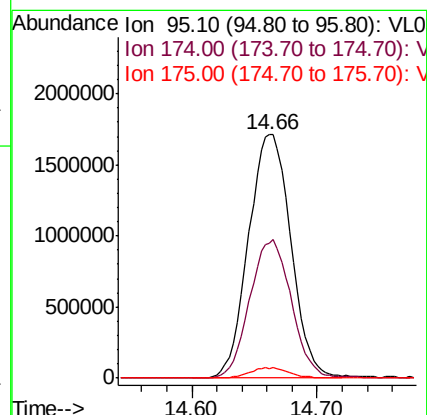
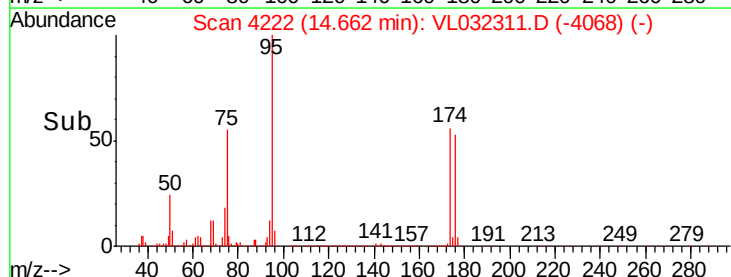
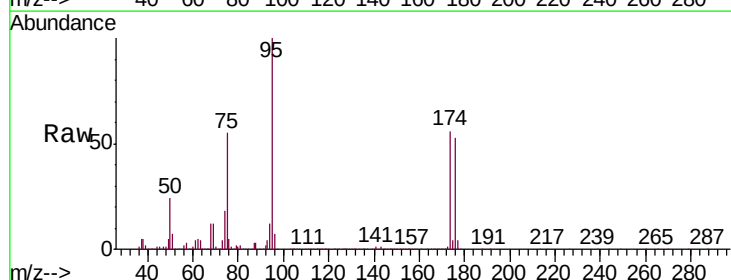
Tgt Ion: 95 Resp: 4025198

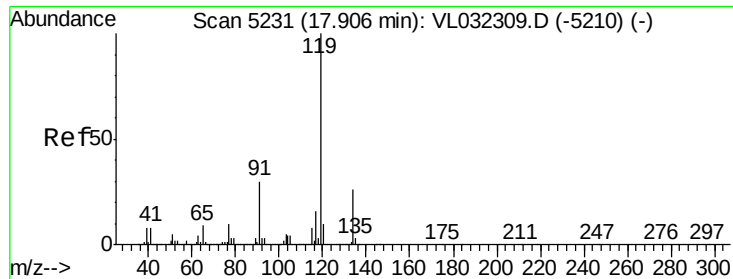
Ion Ratio Lower Upper

95 100

174 56.4 45.5 68.3

175 4.0 3.3 4.9





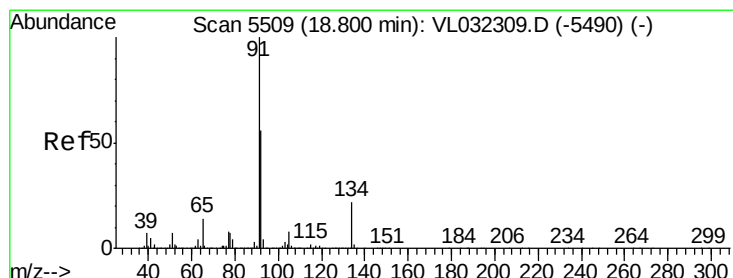
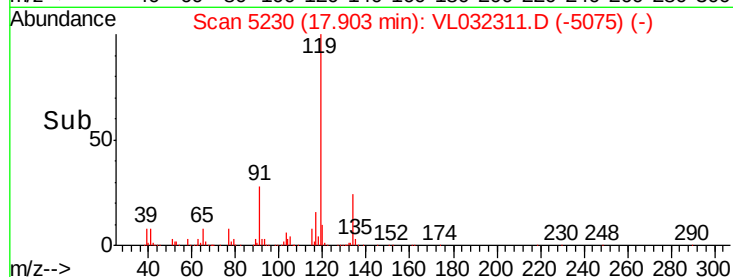
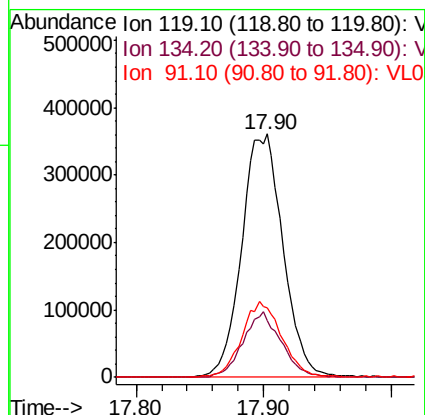
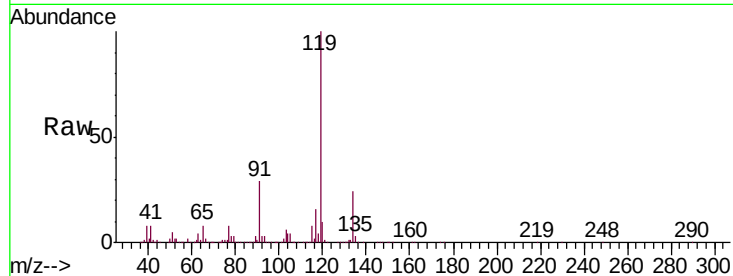
#69
 p-Isopropyltoluene
 Concen: 0.95 ppbv m
 RT: 17.90 min Scan# 5230
 Delta R.T. -0.00 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion:	119	Resp:	811532
Ion Ratio	Lower	Upper	
119	100		
134	24.9	20.3	30.5
91	30.1	23.8	35.6

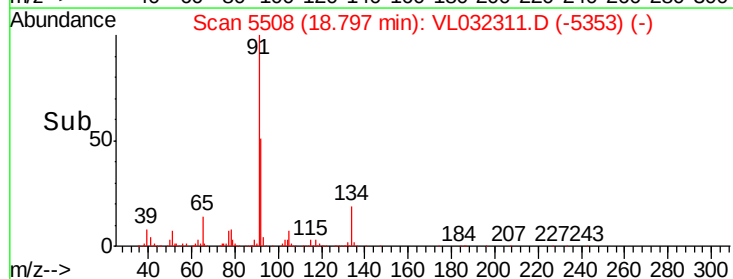
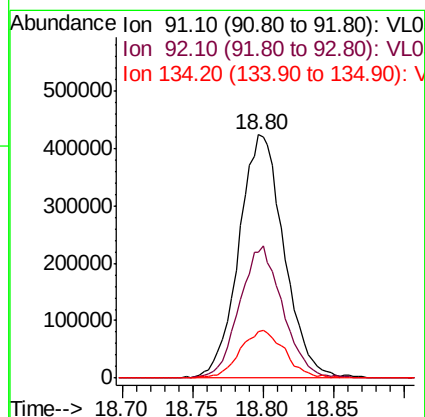
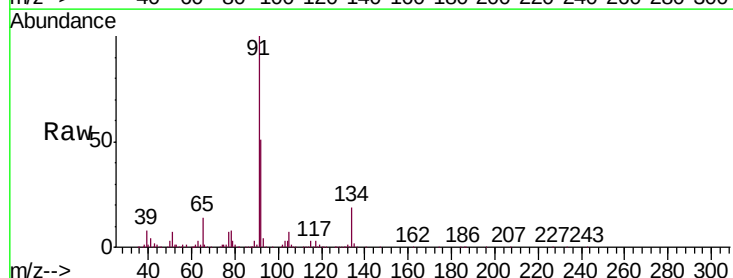
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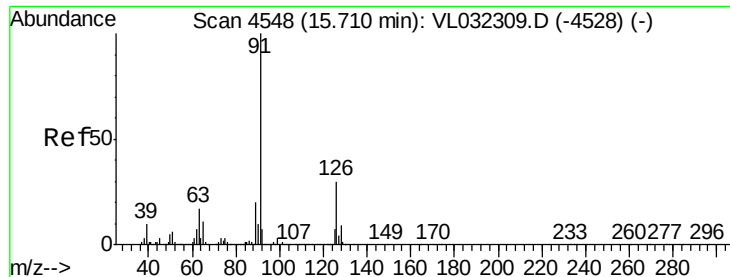
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#70
 n-Butylbenzene
 Concen: 0.99 ppbv
 RT: 18.80 min Scan# 5508
 Delta R.T. -0.00 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Tgt Ion:	91	Resp:	938020
Ion Ratio	Lower	Upper	
91	100		
92	52.8	44.2	66.4
134	20.0	17.4	26.2





#71

2-Chlorotoluene

Concen: 0.91 ppbv

RT: 15.70 min Scan# 4546

Delta R.T. -0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 623380

Ion Ratio Lower Upper

91 100

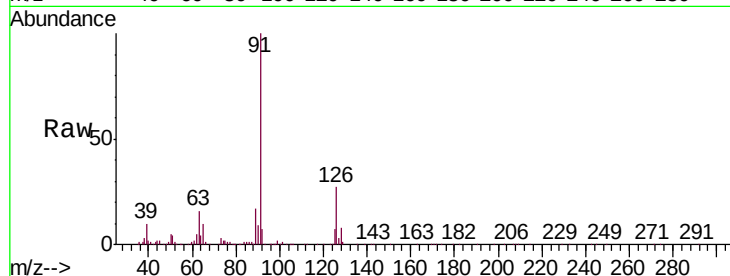
126 29.0 11.8 47.0

Manual Integrations

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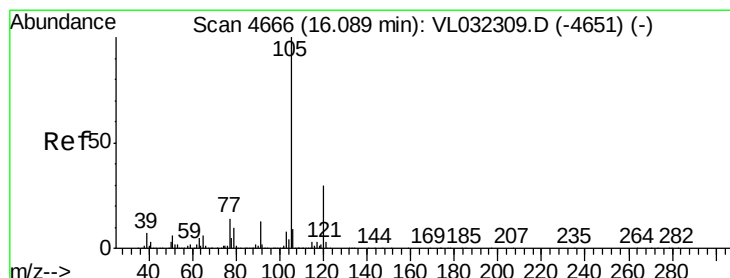
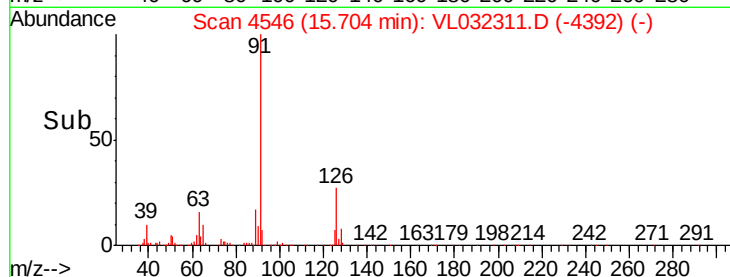
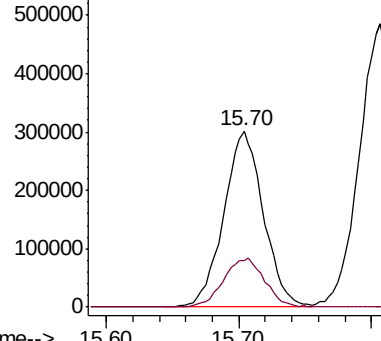
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.89 ppbv

RT: 16.08 min Scan# 4664

Delta R.T. -0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Tgt Ion: 105 Resp: 614477

Ion Ratio Lower Upper

105 100

120 29.7 23.1 34.7

91 13.7 10.0 15.0

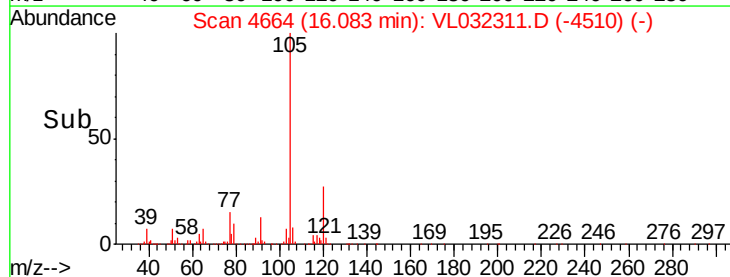
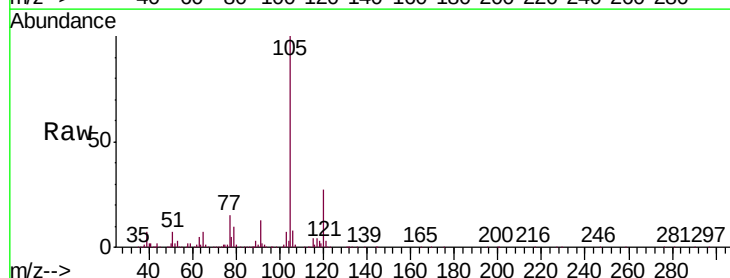
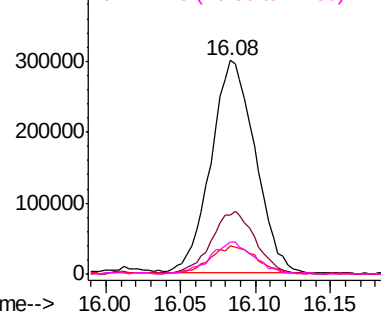
77 15.0 11.5 17.3

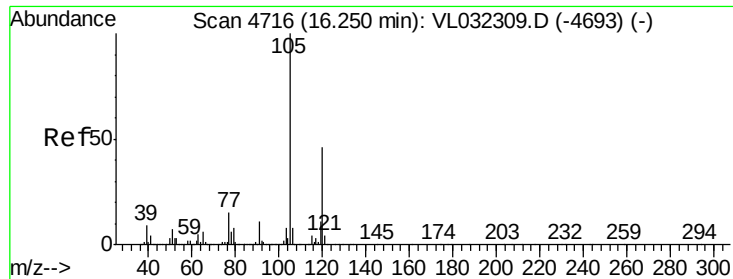
Abundance Ion 105.10 (104.80 to 105.80): V

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





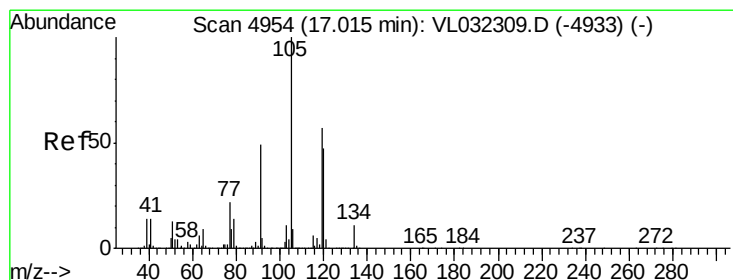
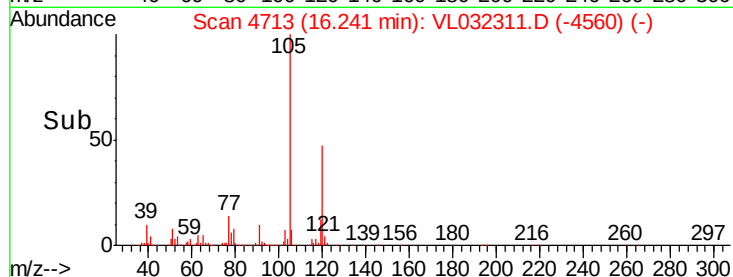
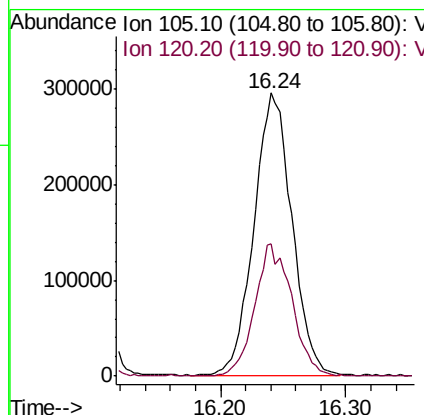
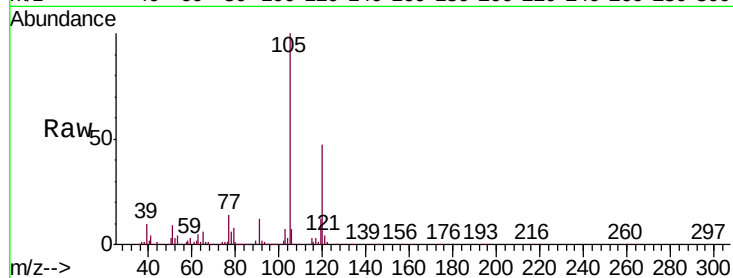
#73
 1,3,5-Trimethylbenzene
 Concen: 0.92 ppbv
 RT: 16.24 min Scan# 4713
 Delta R.T. -0.01 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion:105 Resp: 625564
 Ion Ratio Lower Upper
 105 100
 120 46.9 36.5 54.7

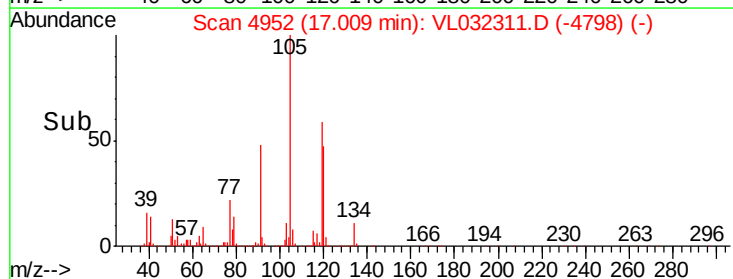
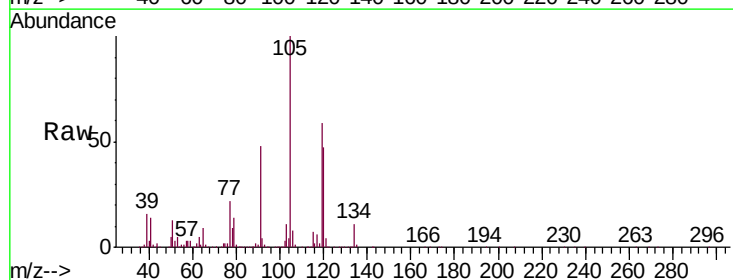
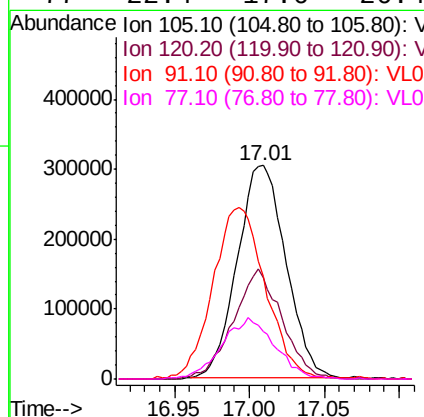
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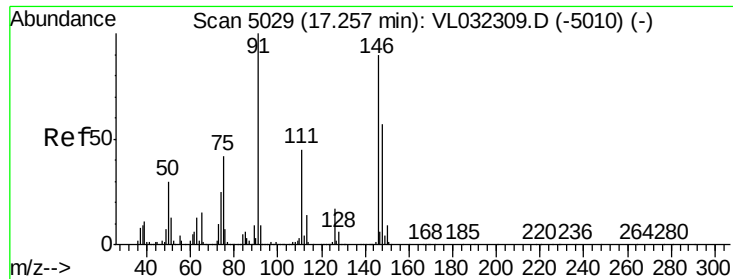
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.97 ppbv
 RT: 17.01 min Scan# 4952
 Delta R.T. -0.01 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Tgt Ion:105 Resp: 688506
 Ion Ratio Lower Upper
 105 100
 120 46.8 37.8 56.6
 91 47.9 39.4 59.0
 77 22.4 17.6 26.4





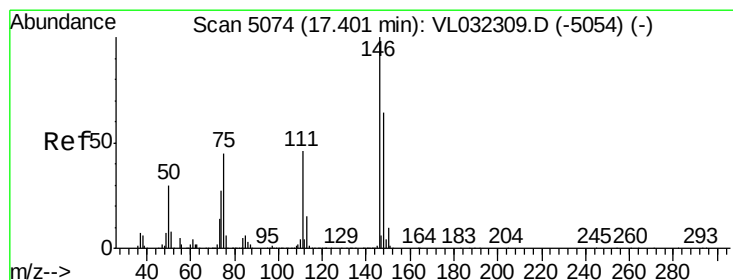
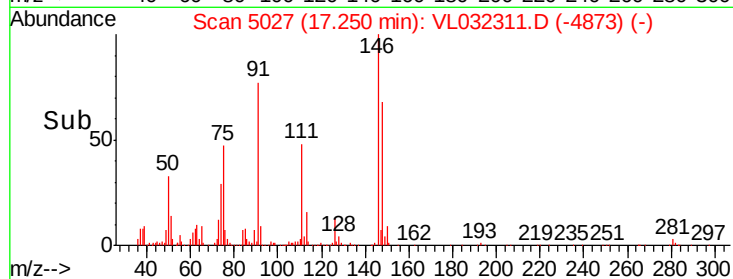
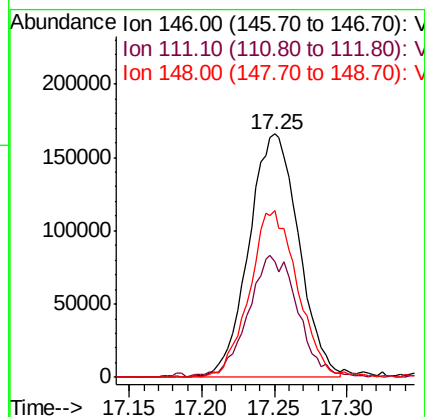
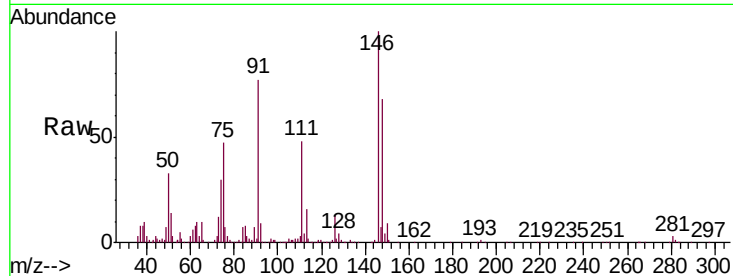
#75
 1,3-Dichlorobenzene
 Concen: 1.00 ppbv
 RT: 17.25 min Scan# 5027
 Delta R.T. -0.01 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.7	24.6	73.8
148	66.7	31.6	95.0

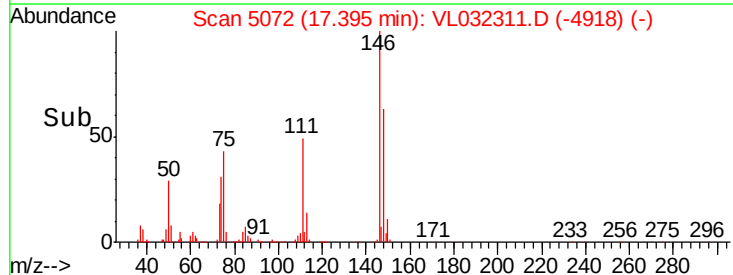
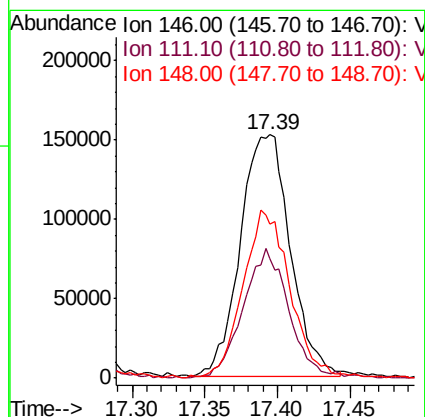
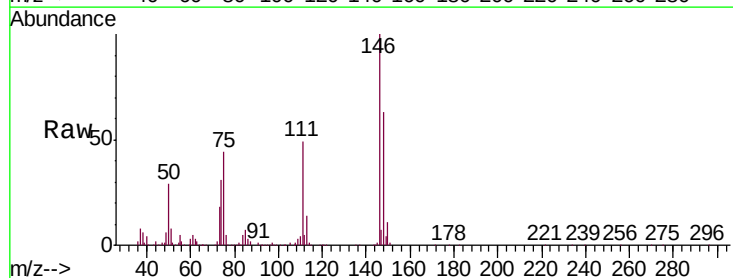
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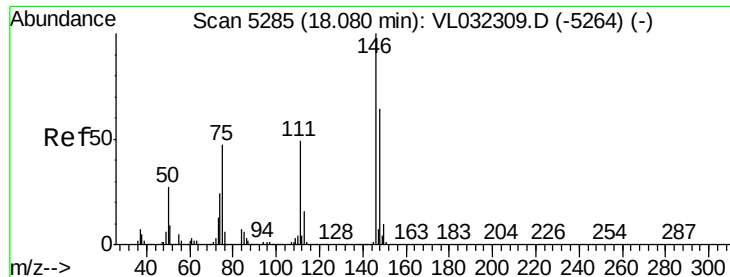
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#76
 1,4-Dichlorobenzene
 Concen: 0.93 ppbv
 RT: 17.39 min Scan# 5072
 Delta R.T. -0.01 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Tgt Ion	Ratio	Lower	Upper
146	100		
111	49.2	23.6	70.8
148	66.3	32.1	96.3





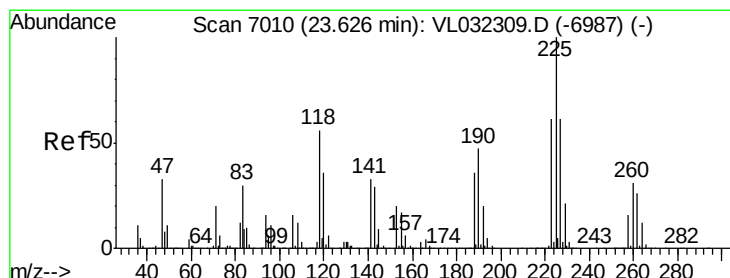
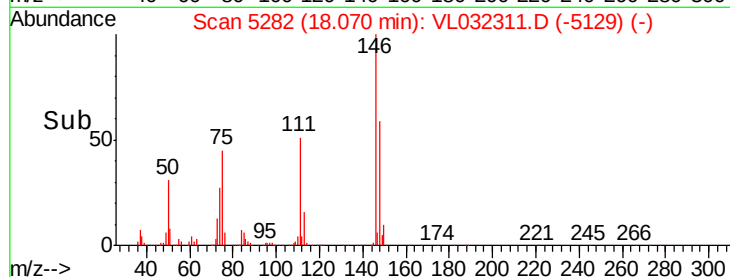
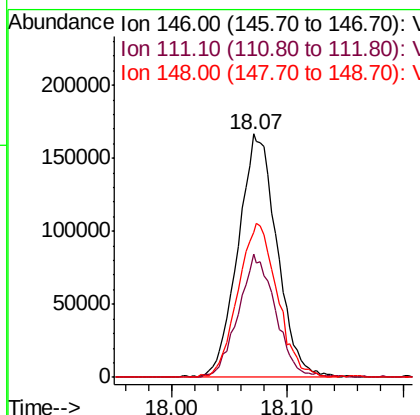
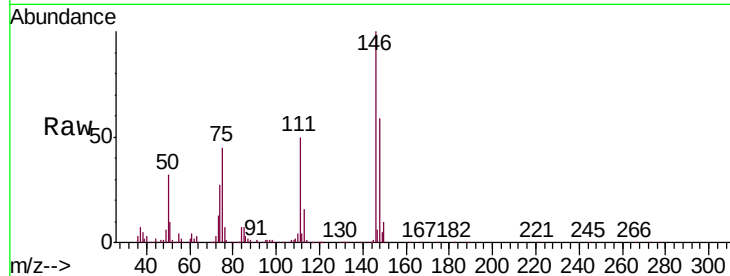
#77
 1,2-Dichlorobenzene
 Concen: 1.02 ppbv m
 RT: 18.07 min Scan# 5282
 Delta R.T. -0.01 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.3	25.1	75.3
148	63.9	31.9	95.7

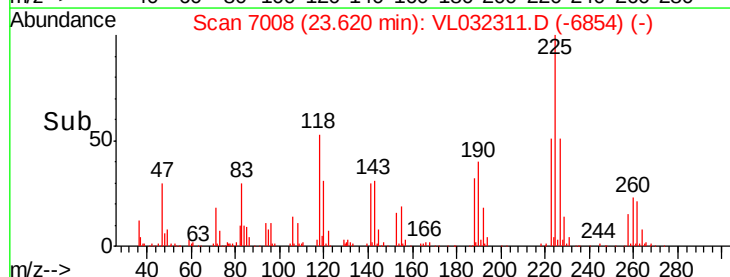
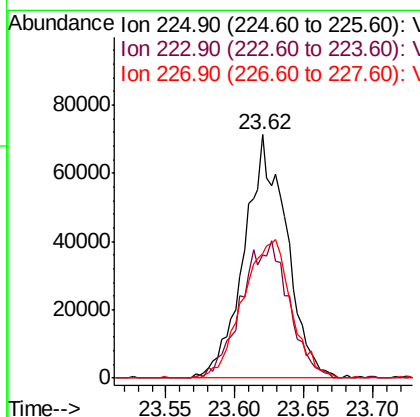
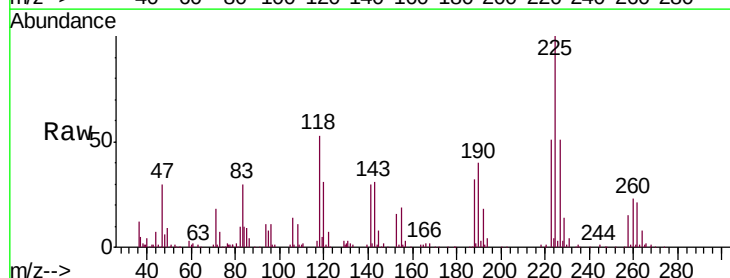
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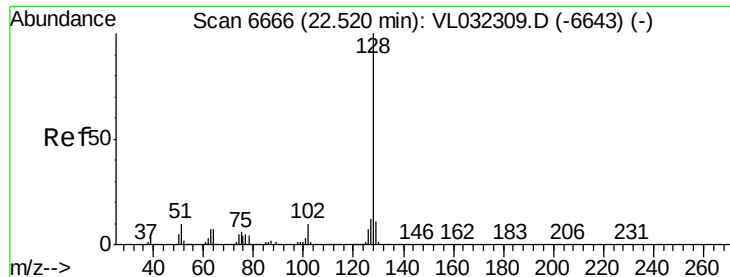
MMDadoda
 7/30/2018 11:42:58 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.19 ppbv m
 RT: 23.62 min Scan# 7008
 Delta R.T. -0.01 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	50.5	75.7#
227	0.0	51.3	76.9#





#79

Naphthalene

Concen: 0.90 ppbv

RT: 22.51 min Scan# 6663

Delta R.T. -0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

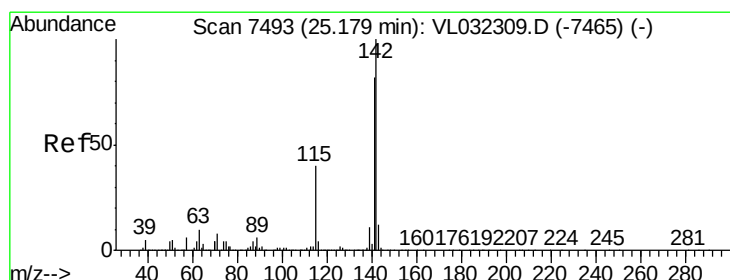
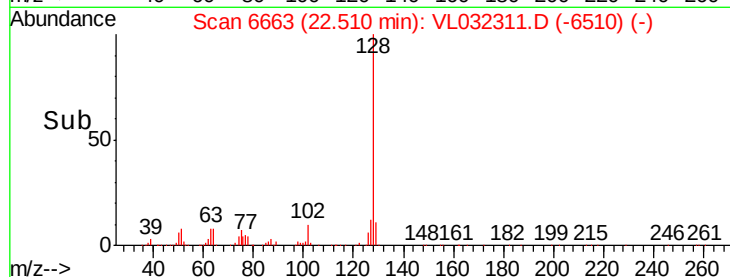
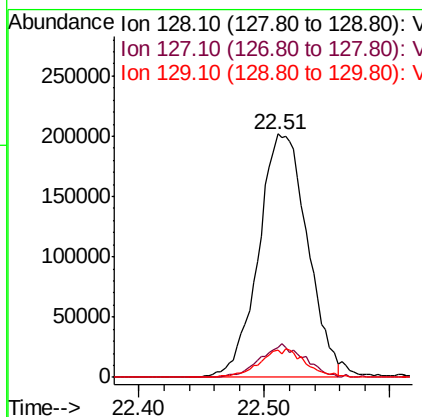
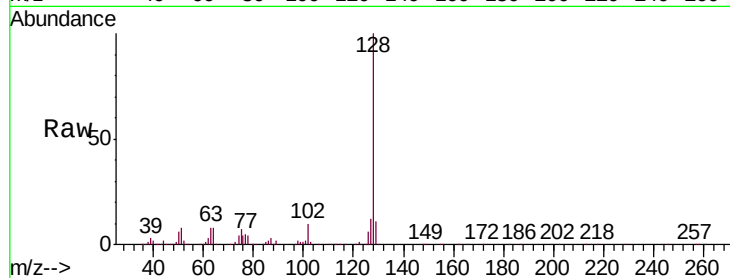
ClientSampleId :

VSTDIC001

Tot Ion:	128	Resp:	545558
Ion Ratio		Lower	Upper
128	100		
127	12.3	9.9	14.9
129	11.3	8.8	13.2

Manual Integrations
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#80

Naphthalene, 2-methyl-

Concen: 0.66 ppbv

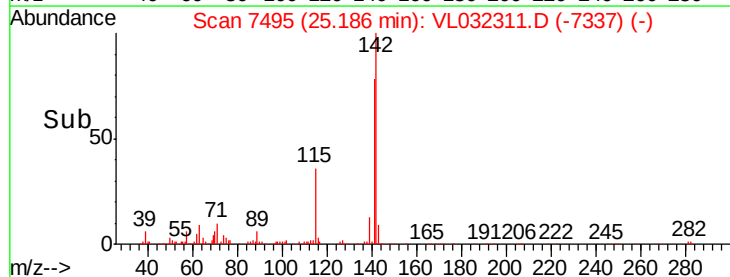
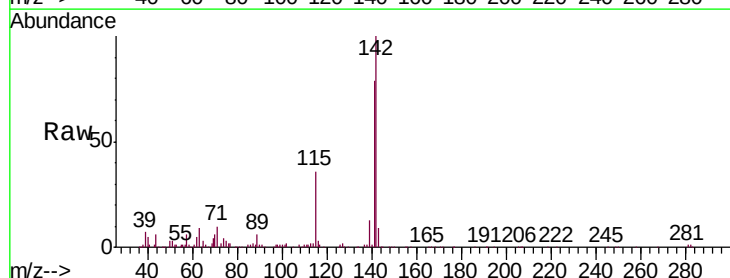
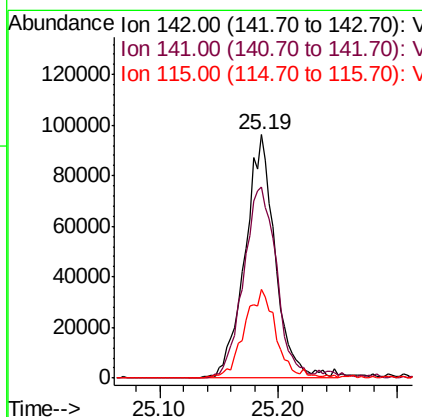
RT: 25.19 min Scan# 7495

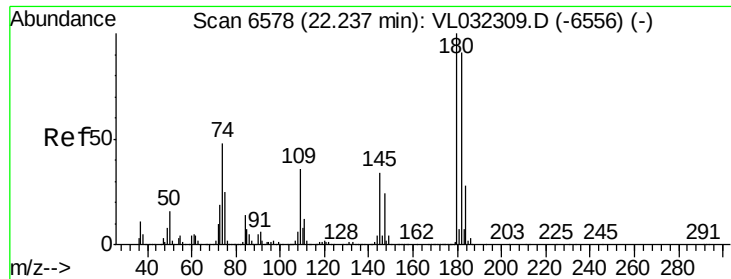
Delta R.T. 0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Tgt Ion:	142	Resp:	168835
Ion Ratio		Lower	Upper
142	100		
141	88.7	66.7	100.1
115	39.3	31.1	46.7





#81
 1,2,4-Trichlorobenzene
 Concen: 0.96 ppbv m
 RT: 22.23 min Scan# 6577
 Delta R.T. -0.00 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
180	100	284505		
182	0.0	76.2	114.2#	
184	0.0	24.3	36.5#	

Manual Integrations
 APPROVED

MMDadoda
 7/30/2018 11:42:58 AM

