

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033328.D
 Acq On : 15 Mar 2019 11:44
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 10:02:18 AM

Quant Time: Mar 15 13:24:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 2019
 QLast Update : Fri Mar 15 12:24:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	863700	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1962270	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2174288	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1617441	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	172139	1.101 ppbv	96
3) Chlorodifluoromethane	3.02	51	103109	1.043 ppbv	100
4) Chloromethane	3.17	50	55840	1.039 ppbv	98
5) Vinyl Chloride	3.29	62	52047	0.955 ppbv	98
6) Bromomethane	3.52	94	33647	1.018 ppbv	91
7) Chloroethane	3.60	64	20092	1.028 ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	137941	1.035 ppbv	97
9) Propene	3.04	41	47538	1.073 ppbv	99
10) Heptane	8.25	43	112718	1.007 ppbv	99
11) Trichlorofluoromethane	4.01	101	155765	1.049 ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.56	101	107426m	1.104 ppbv	
13) Ethanol	3.65	45	30065	1.951 ppbv	99
14) Bromoethene	3.79	108	42411	1.031 ppbv	98
15) Acetone	3.91	43	159919	1.209 ppbv	98
16) 1,3-Butadiene	3.36	39	43657	0.940 ppbv	99
17) tert-Butyl alcohol	4.37	59	21049m	1.116 ppbv	
18) 1,1-Dichloroethene	4.35	96	48222	1.119 ppbv	98
19) Isopropyl Alcohol	4.04	45	67629	1.019 ppbv	# 97
20) Methylene Chloride	4.41	84	47757	1.127 ppbv	92
21) Allyl Chloride	4.48	41	65782	1.005 ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	43874	1.025 ppbv	97
23) Vinyl Acetate	5.16	43	160665	1.040 ppbv	98
24) 1,1-Dichloroethane	5.09	63	114626	1.042 ppbv	98
25) Ethyl Acetate	5.78	43	206465	1.079 ppbv	99
26) Hexane	5.78	57	90742	1.036 ppbv	97
27) Carbon Disulfide	4.62	76	100268	1.015 ppbv	# 92
28) Methyl tert-Butyl Ether	5.13	73	129966m	1.031 ppbv	
29) Chloroform	5.85	83	146259	1.025 ppbv	99
30) Cyclohexane	7.25	84	70255	1.013 ppbv	94
31) cis-1,2-Dichloroethene	5.64	61	88550	1.020 ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	143564	1.013 ppbv	98
34) 2-Butanone	5.34	43	134340	1.079 ppbv	99
35) Carbon Tetrachloride	7.13	117	137689	0.972 ppbv	99
36) Benzene	7.01	78	183251	1.045 ppbv	96
37) 1,2-Dichloroethane	6.42	62	116372	1.064 ppbv	100
38) Trichloroethene	7.96	130	69884	1.012 ppbv	94
39) 1,2-Dichloropropane	7.73	63	70822	1.061 ppbv	98
40) 1,4-Dioxane	7.98	88	24787m	1.014 ppbv	
41) Tetrahydrofuran	6.16	42	73571	1.066 ppbv	98
42) Bromodichloromethane	7.92	83	149682	1.004 ppbv	95
43) Methyl Methacrylate	8.14	69	68494	1.002 ppbv	98

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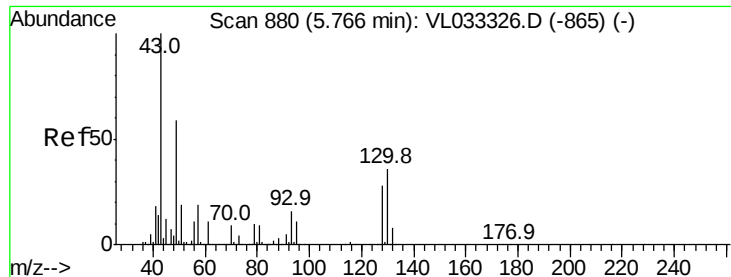
Manual Integrations
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MMDadoda
 3/19/2019 10:02:18 AM

Quant Time: Mar 15 13:24:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	304617	1.036	ppbv	97
45) t-1,3-Dichloropropene	9.42	75	74182	0.885	ppbv	92
46) cis-1,3-Dichloropropene	8.83	75	95446	0.970	ppbv	92
47) 1,1,2-Trichloroethane	9.61	97	73036	1.017	ppbv	93
48) Dibromochloromethane	10.45	129	113891	0.928	ppbv	97
49) Bromoform	13.20	173	109831	0.989	ppbv	98
50) 4-Methyl-2-Pentanone	8.89	43	188807	1.037	ppbv	98
51) 2-Hexanone	10.29	43	143955	0.993	ppbv #	100
52) Tetrachloroethene	11.38	164	76136	1.075	ppbv	95
53) Toluene	9.95	91	202424	1.012	ppbv	98
54) 1,2-Dibromoethane	10.76	107	127542	1.090	ppbv	88
56) 1,1,1,2-Tetrachloroethane	12.28	131	102788m	1.054	ppbv	
57) Chlorobenzene	12.31	112	189051m	1.095	ppbv	
58) Ethyl Benzene	12.87	91	320116	1.041	ppbv	96
59) m/p-Xylene	13.13	91	551482m	2.104	ppbv	
60) o-Xylene	13.85	91	270885	1.055	ppbv	100
61) Styrene	13.69	104	176603m	0.985	ppbv	
62) Isopropylbenzene	14.83	105	378571	1.067	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	194046	1.000	ppbv	100
64) n-propylbenzene	15.73	120	93059	1.039	ppbv	93
65) tert-Butylbenzene	16.91	119	344068m	1.052	ppbv	
66) Benzyl Chloride	17.16	91	100699	0.755	ppbv	96
67) sec-Butylbenzene	17.46	105	483769	1.035	ppbv	99
69) p-Isopropyltoluene	17.82	119	388975	1.023	ppbv	97
70) n-Butylbenzene	18.71	91	417587	1.028	ppbv	98
71) 2-Chlorotoluene	15.62	91	293987	1.041	ppbv	99
72) 4-Ethyltoluene	16.00	105	299810	1.024	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	297270	1.025	ppbv	96
74) 1,2,4-Trimethylbenzene	16.92	105	327571	1.073	ppbv	93
75) 1,3-Dichlorobenzene	17.16	146	187342m	1.055	ppbv	
76) 1,4-Dichlorobenzene	17.31	146	181439m	1.038	ppbv	
77) 1,2-Dichlorobenzene	17.99	146	175705	1.023	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	110224m	1.066	ppbv	
79) Naphthalene	22.42	128	302705m	1.015	ppbv	
80) Naphthalene, 2-methyl-	25.12	142	145399	1.011	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	155566	1.006	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

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MSVOA_L

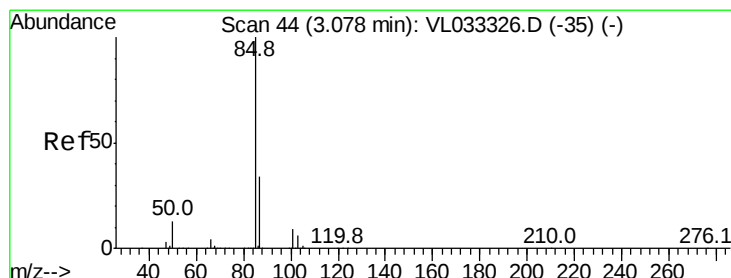
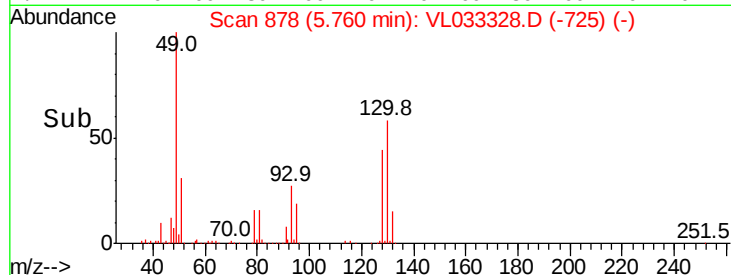
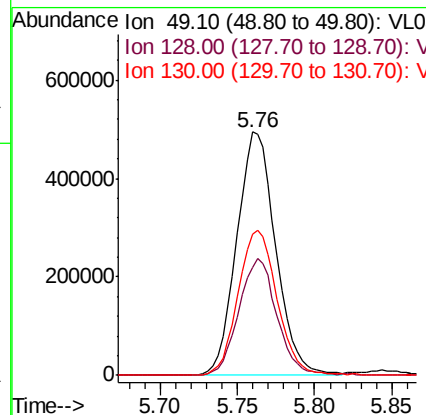
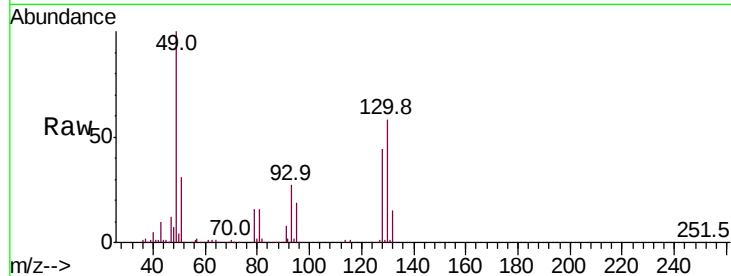
ClientSampleId :

VSTDIC001

Tot Ion: 49 Resp: 863700
 Ion Ratio Lower Upper
 49 100
 128 47.2 23.5 70.6
 130 60.5 30.1 90.3

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#2

Dichlorodifluoromethane

Concen: 1.101 ppbv

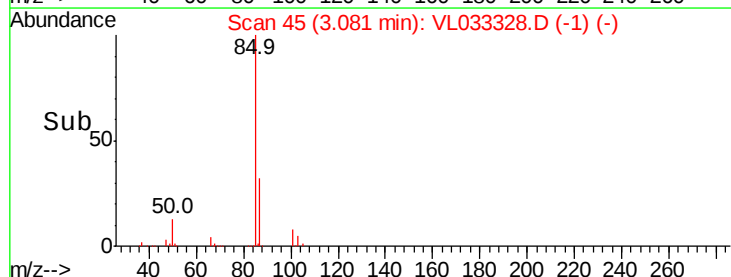
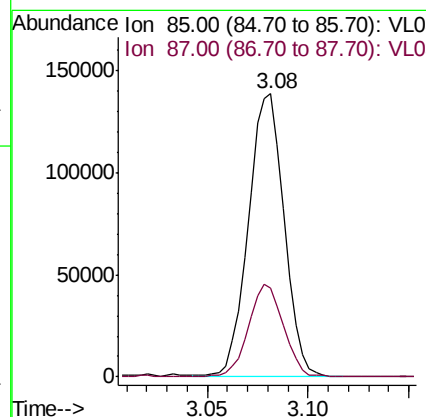
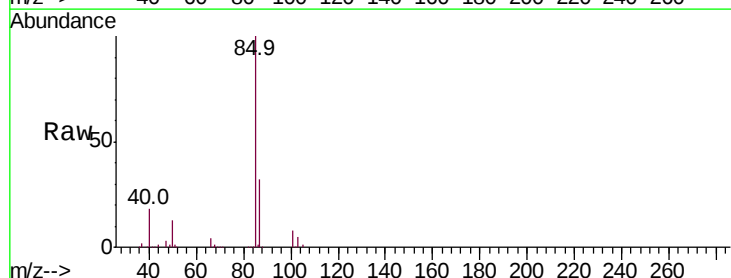
RT: 3.08 min Scan# 45

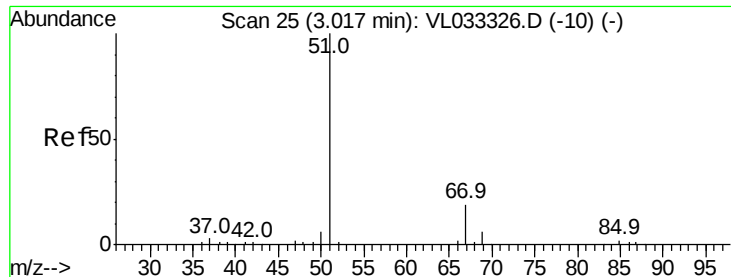
Delta R.T. 0.00 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Tgt Ion: 85 Resp: 172139
 Ion Ratio Lower Upper
 85 100
 87 31.4 26.9 40.3





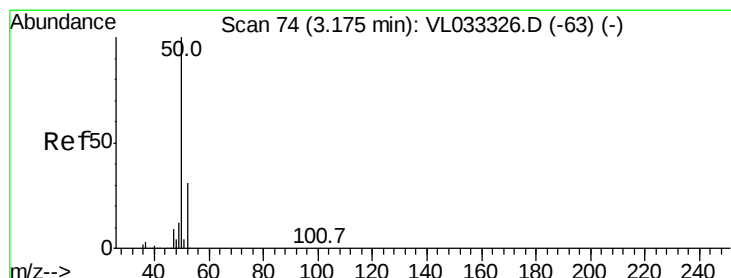
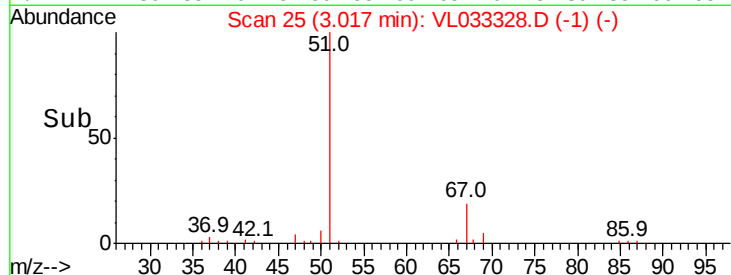
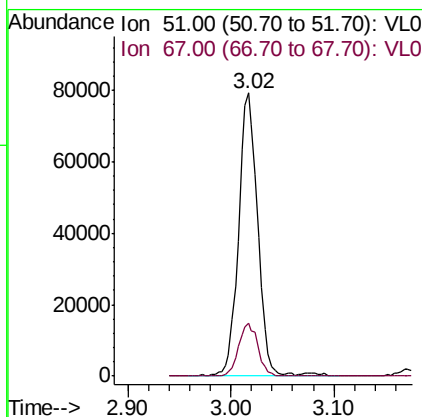
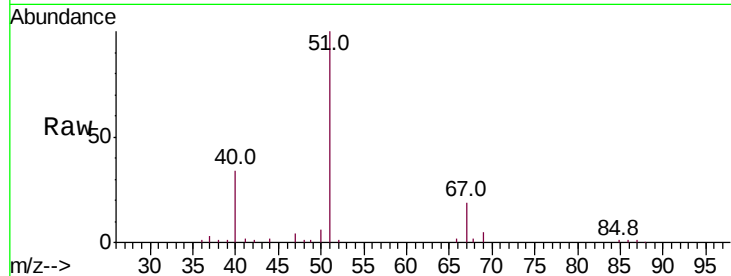
#3
Chlorodifluoromethane
Concen: 1.043 ppbv
RT: 3.02 min Scan# 25
Delta R.T. -0.00 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 51 Resp: 103109
Ion Ratio Lower Upper
51 100
67 18.7 14.9 22.3

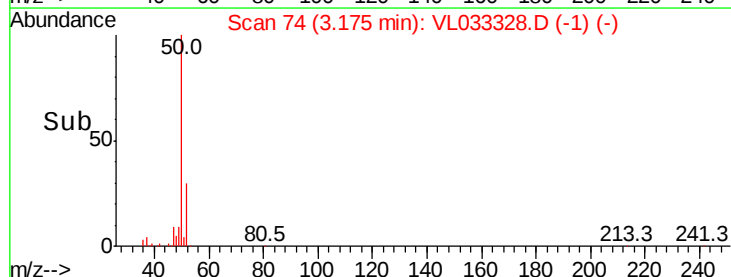
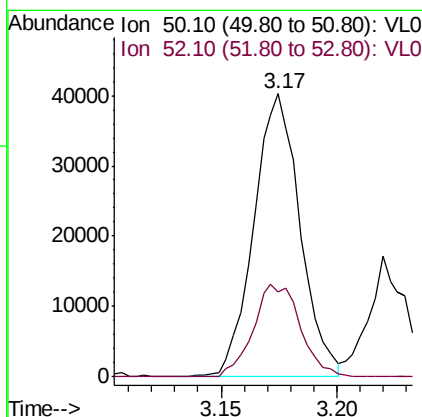
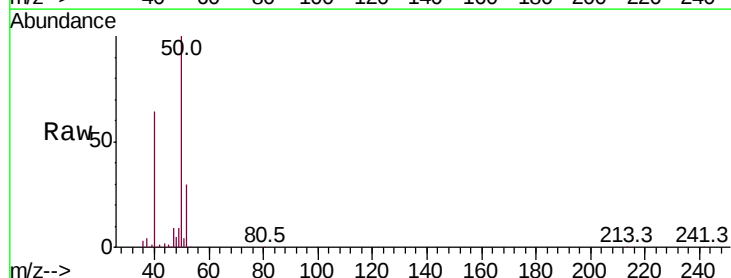
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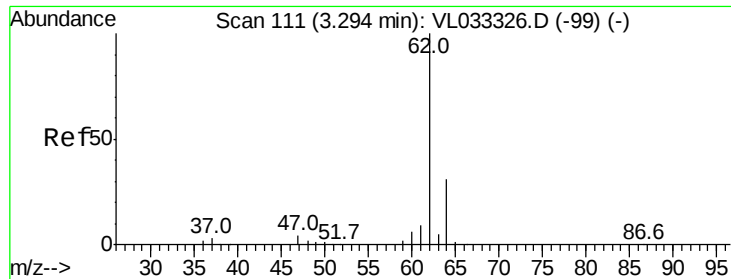
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#4
Chloromethane
Concen: 1.039 ppbv
RT: 3.17 min Scan# 74
Delta R.T. -0.00 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Tgt Ion: 50 Resp: 55840
Ion Ratio Lower Upper
50 100
52 29.9 25.0 37.6





#5

Vinyl Chloride

Concen: 0.955 ppbv

RT: 3.29 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 52047

Ion Ratio Lower Upper

62 100

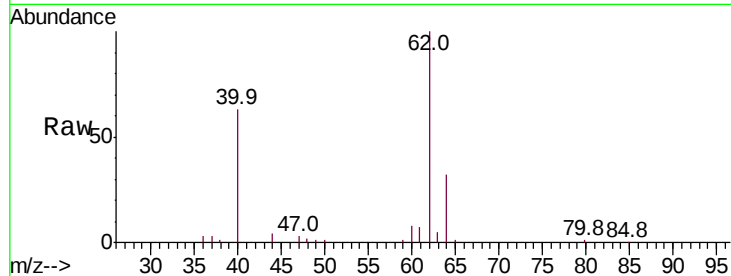
64 32.2 25.0 37.6

Manual Integrations

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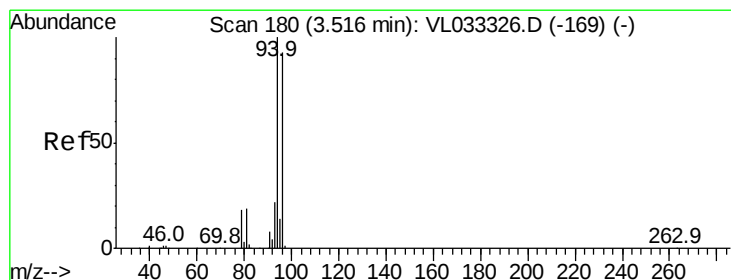
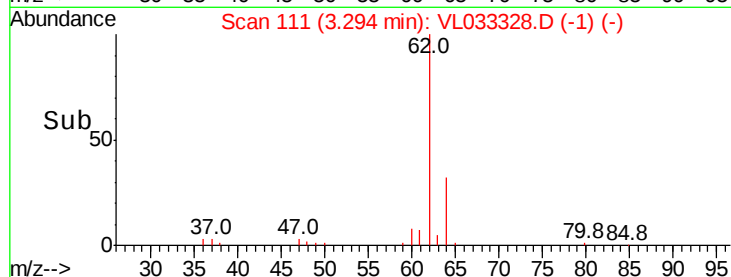
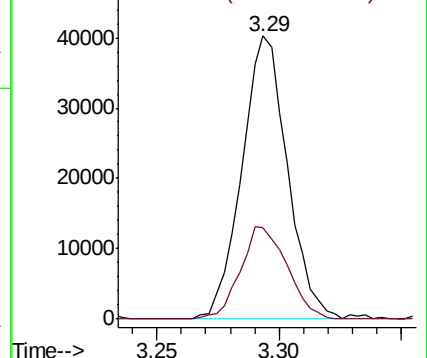
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 1.018 ppbv

RT: 3.52 min Scan# 180

Delta R.T. -0.00 min

Lab File: VL033328.D

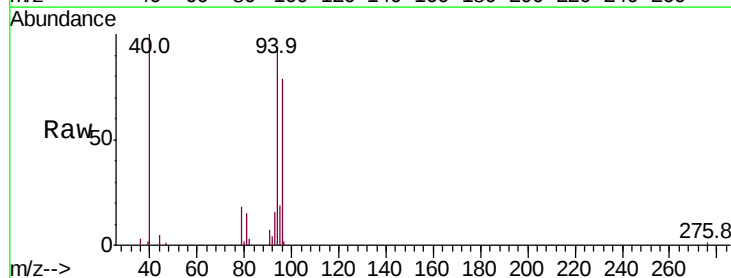
Acq: 15 Mar 2019 11:44

Tgt Ion: 94 Resp: 33647

Ion Ratio Lower Upper

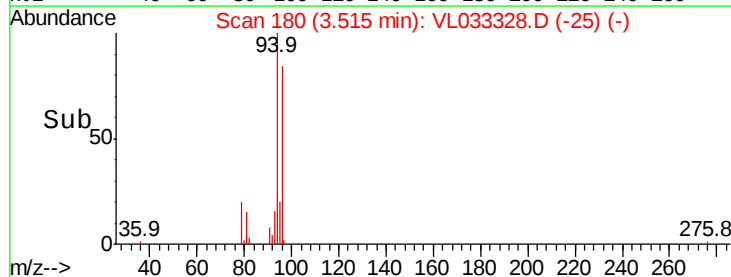
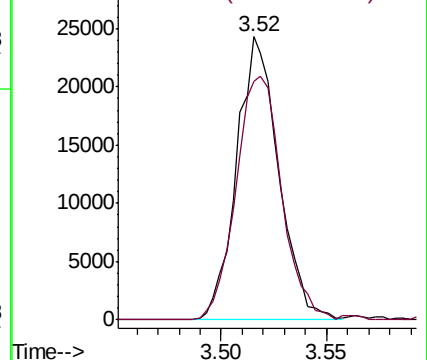
94 100

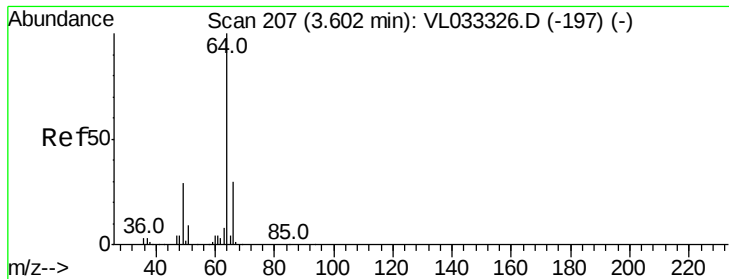
96 84.2 74.6 111.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 1.028 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 20092

Ion Ratio Lower Upper

64 100

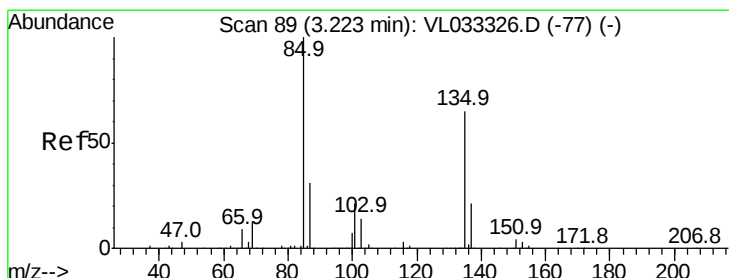
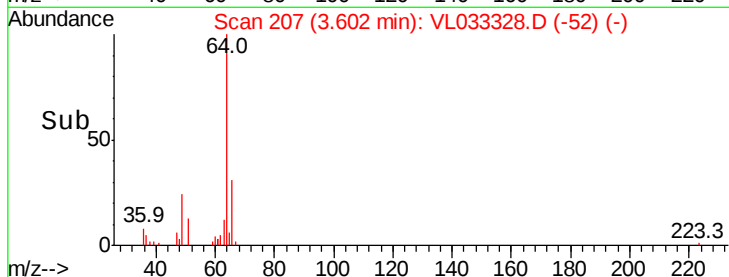
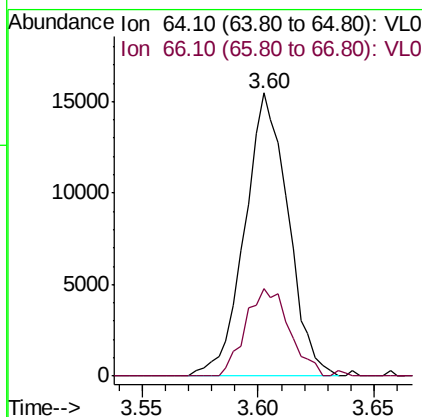
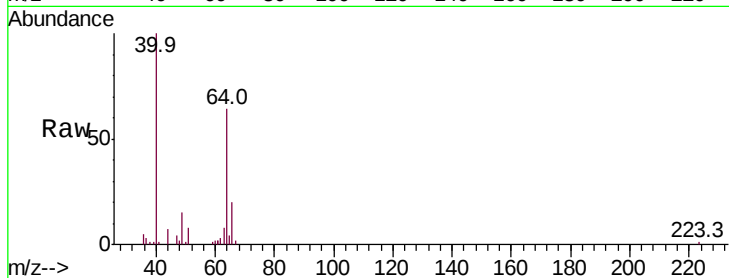
66 31.0 24.0 36.0

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#8

Dichlorotetrafluoroethane

Concen: 1.035 ppbv

RT: 3.22 min Scan# 89

Delta R.T. -0.00 min

Lab File: VL033328.D

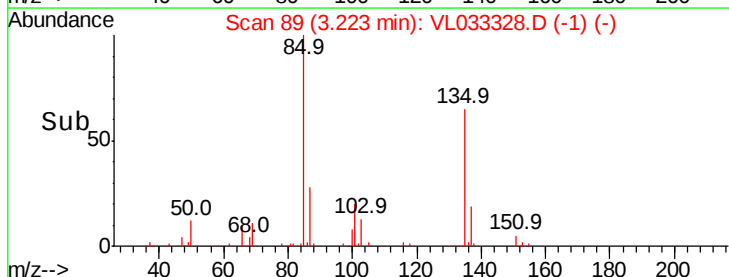
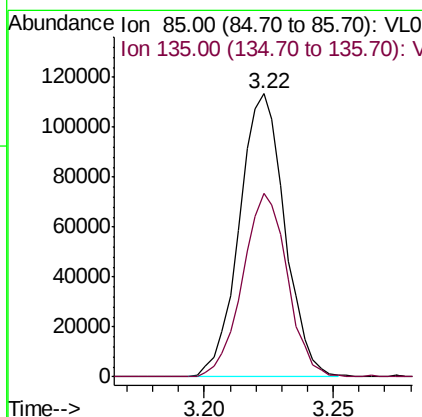
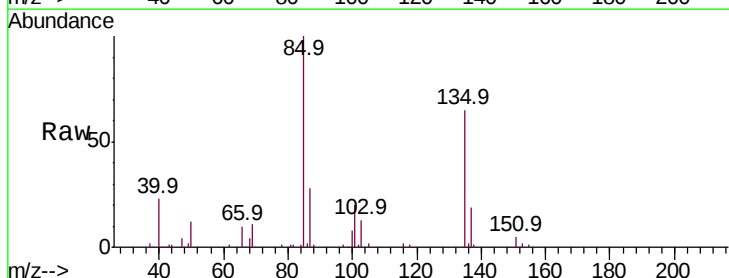
Acq: 15 Mar 2019 11:44

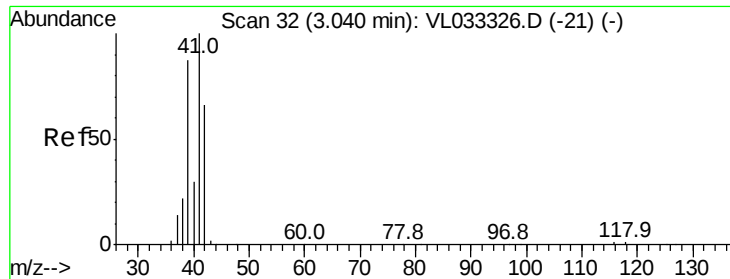
Tgt Ion: 85 Resp: 137941

Ion Ratio Lower Upper

85 100

135 64.4 53.4 80.2





#9

Propene

Concen: 1.073 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Tot Ion: 41 Resp: 47538

Ion Ratio Lower Upper

41 100

42 69.6 55.2 82.8

Instrument :

MSVOA_L

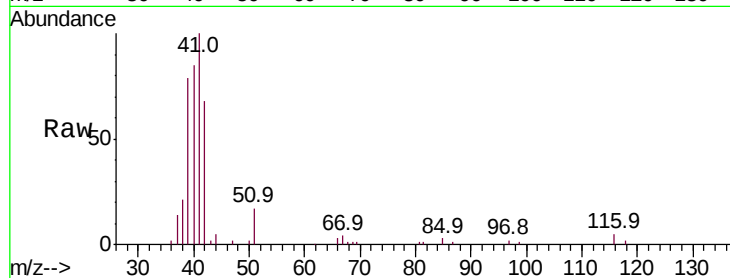
ClientSampleId :

VSTDIC001

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.04

40000

30000

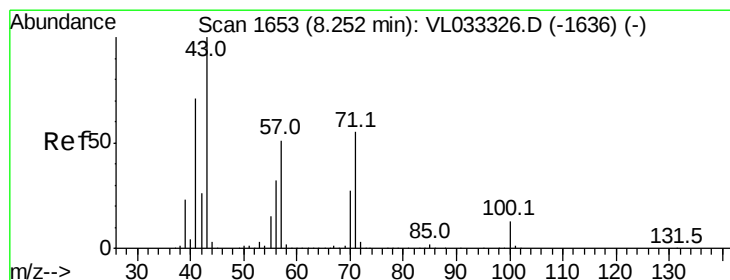
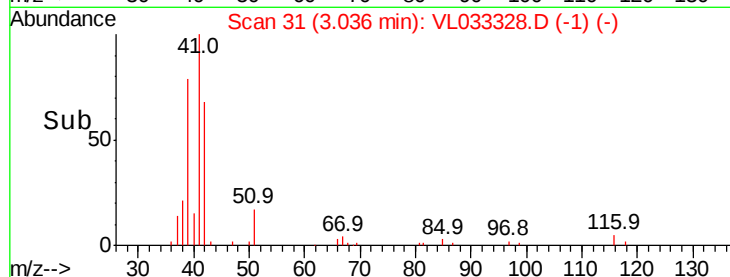
20000

10000

0

Time-->

3.00 3.05



#10

Heptane

Concen: 1.007 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL033328.D

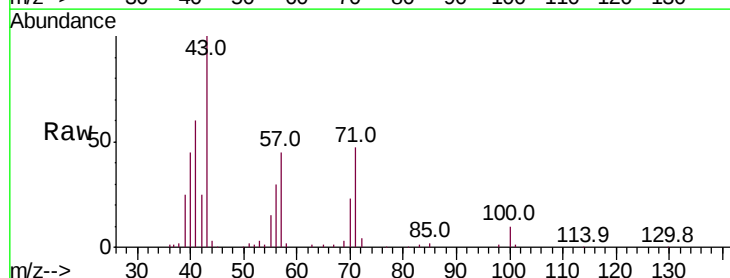
Acq: 15 Mar 2019 11:44

Tgt Ion: 43 Resp: 112718

Ion Ratio Lower Upper

43 100

57 49.9 40.4 60.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.25

60000

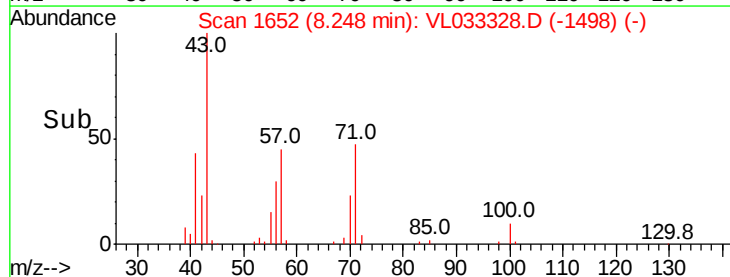
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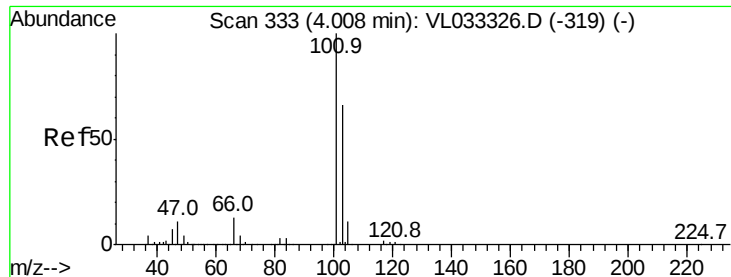
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0

Time-->

8.20 8.25 8.30





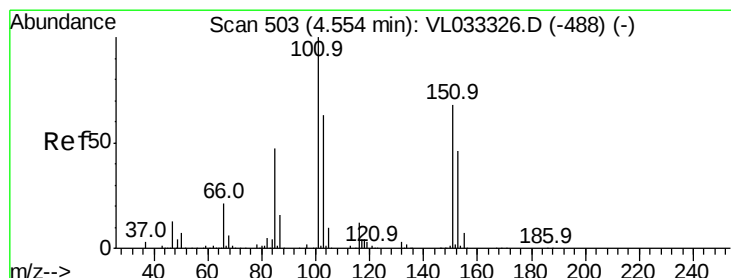
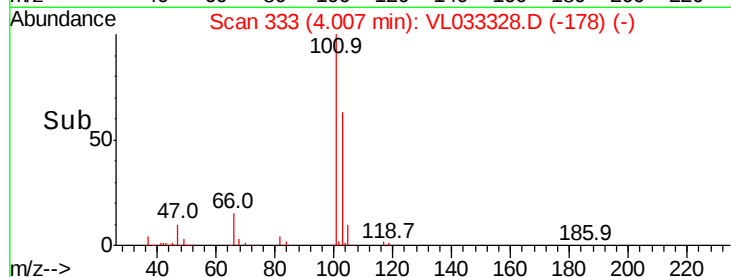
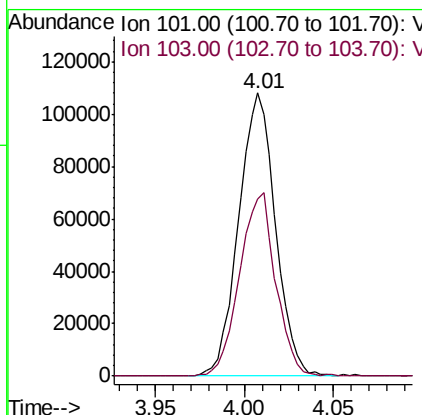
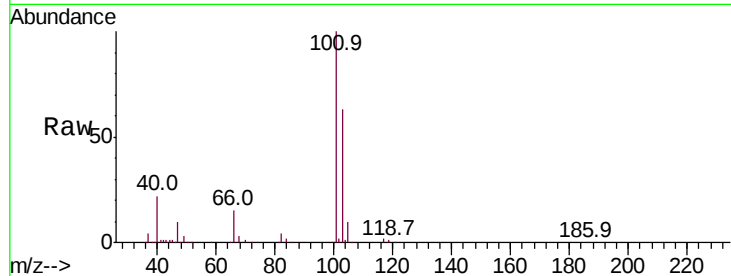
#11
 Trichlorofluoromethane
 Concen: 1.049 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. -0.00 min
 Lab File: VL033328.D
 Acq: 15 Mar 2019 11:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion:101 Resp: 155765
 Ion Ratio Lower Upper
 101 100
 103 62.8 52.9 79.3

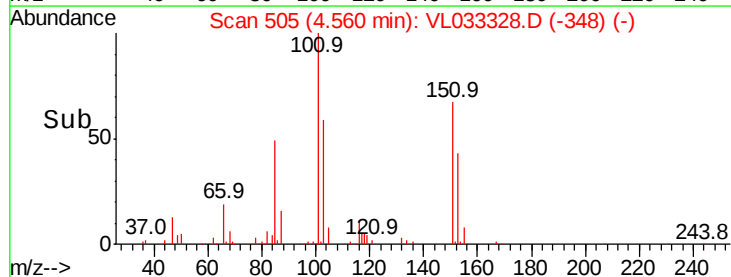
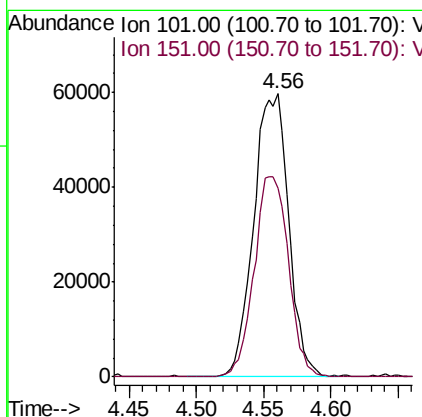
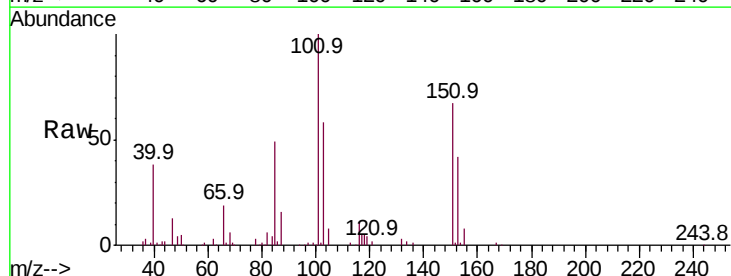
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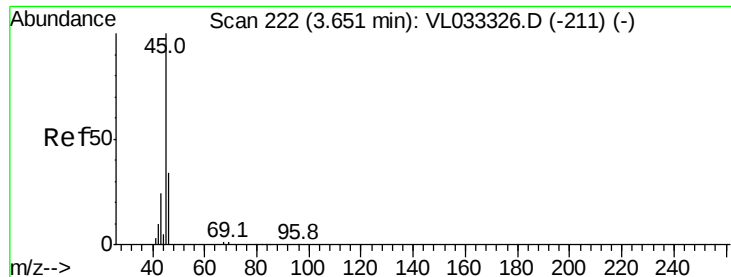
MMDadoda
 3/19/2019 10:02:18 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.104 ppbv m
 RT: 4.56 min Scan# 505
 Delta R.T. 0.01 min
 Lab File: VL033328.D
 Acq: 15 Mar 2019 11:44

Tgt Ion:101 Resp: 107426
 Ion Ratio Lower Upper
 101 100
 151 0.0 56.3 84.5#





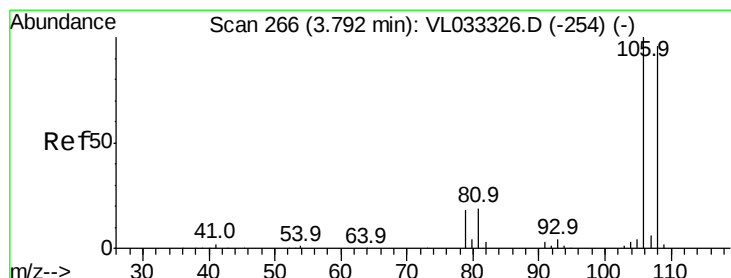
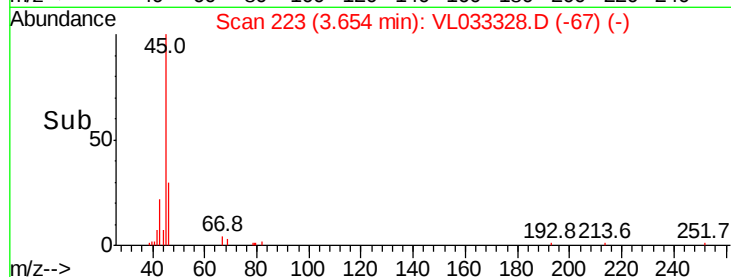
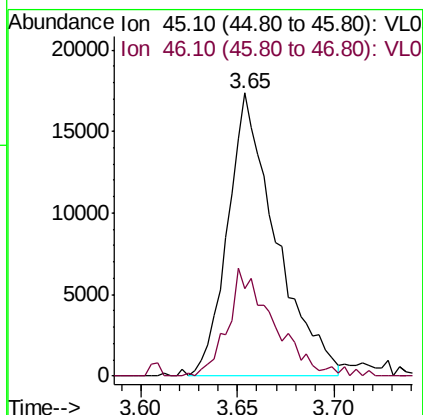
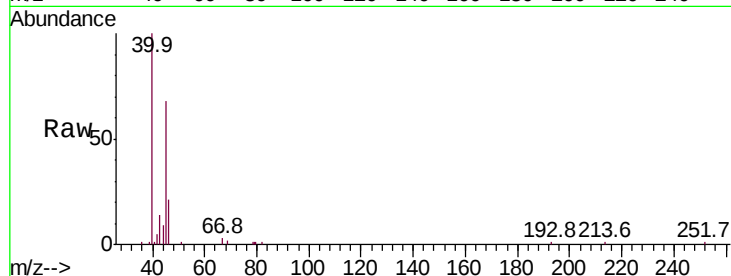
#13
Ethanol
Concen: 1.951 ppbv
RT: 3.65 min Scan# 223
Delta R.T. 0.00 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 45 Resp: 30065
Ion Ratio Lower Upper
45 100
46 36.7 14.9 59.7

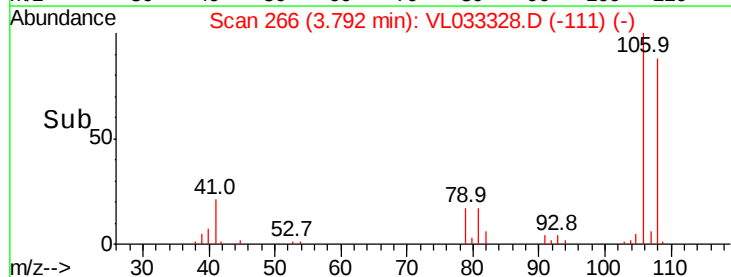
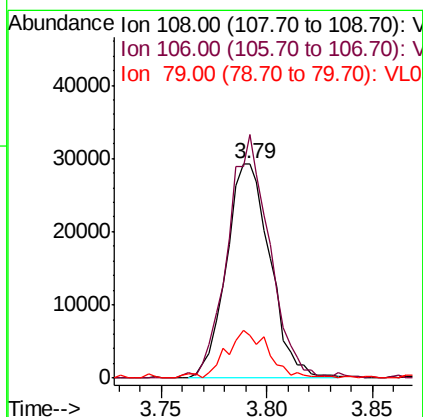
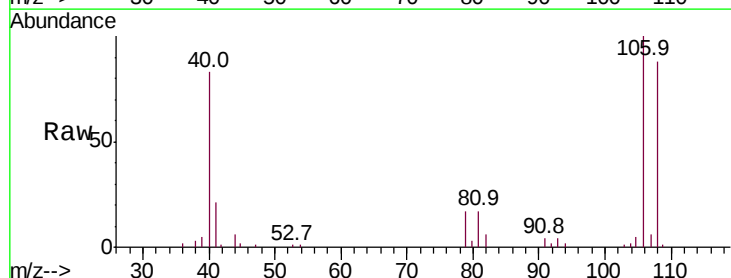
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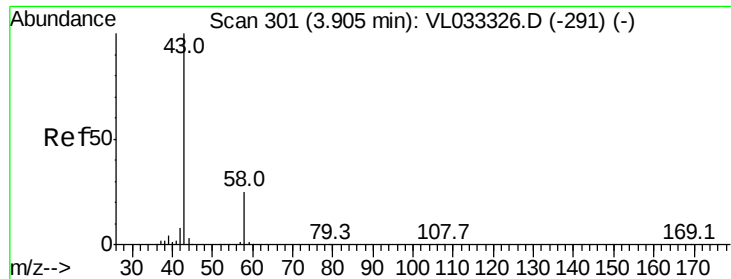
MMDadoda
3/19/2019 10:02:18 AM



#14
Bromoethene
Concen: 1.031 ppbv
RT: 3.79 min Scan# 266
Delta R.T. -0.00 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Tgt Ion: 108 Resp: 42411
Ion Ratio Lower Upper
108 100
106 108.9 86.2 129.2
79 22.3 15.4 23.2





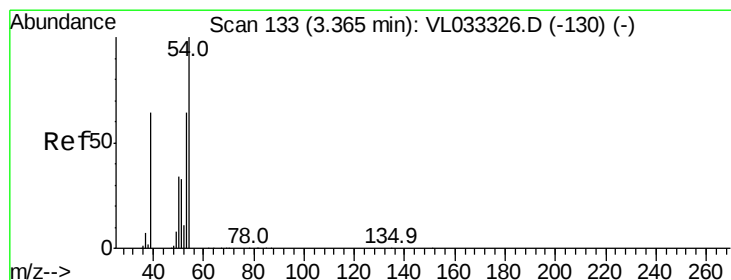
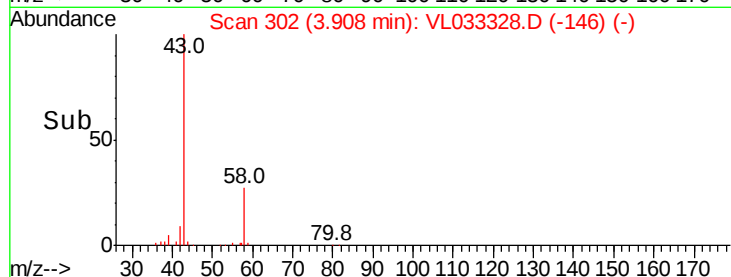
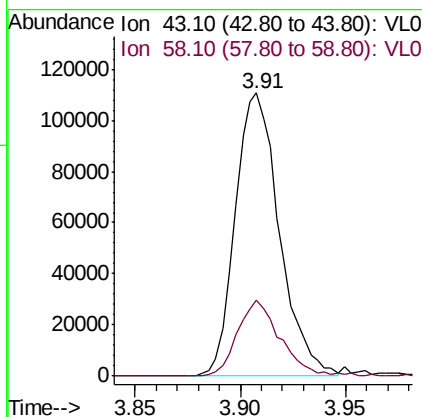
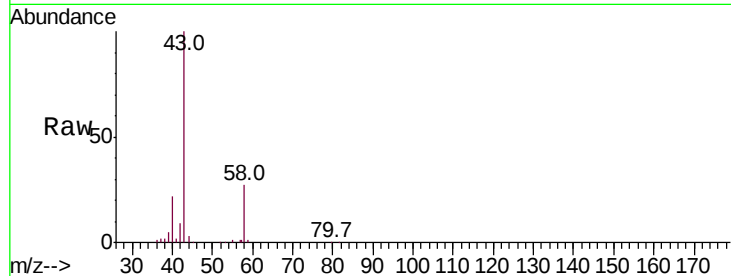
#15
Acetone
Concen: 1.209 ppbv
RT: 3.91 min Scan# 302
Delta R.T. 0.00 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
58	26.6	20.4	30.6

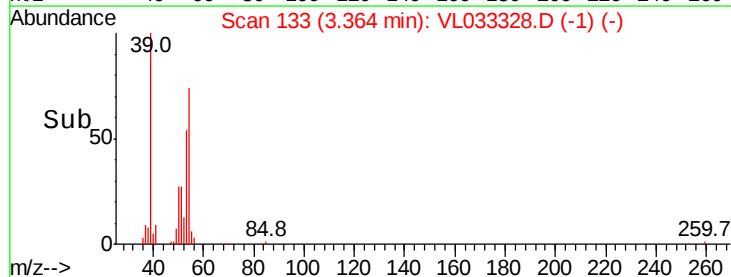
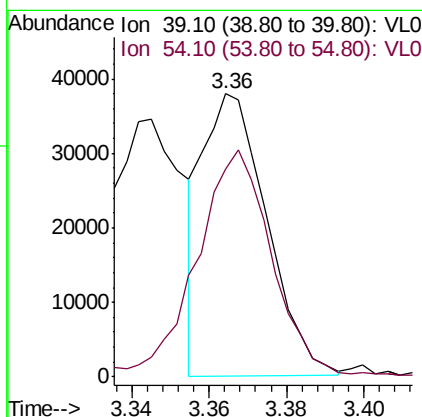
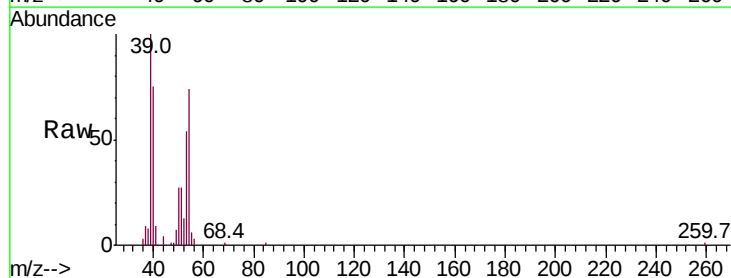
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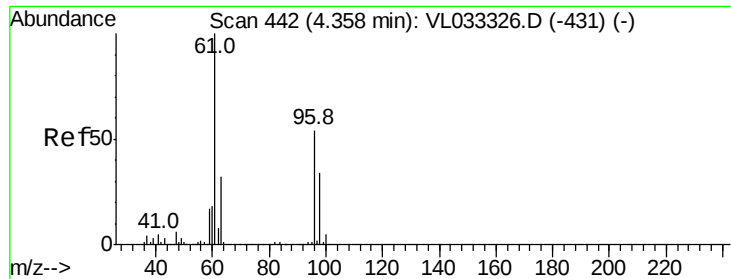
MMDadoda
3/19/2019 10:02:18 AM



#16
1,3-Butadiene
Concen: 0.940 ppbv
RT: 3.36 min Scan# 133
Delta R.T. -0.00 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Tgt Ion	Ratio	Lower	Upper
39	100		
54	95.1	76.8	115.2





#17

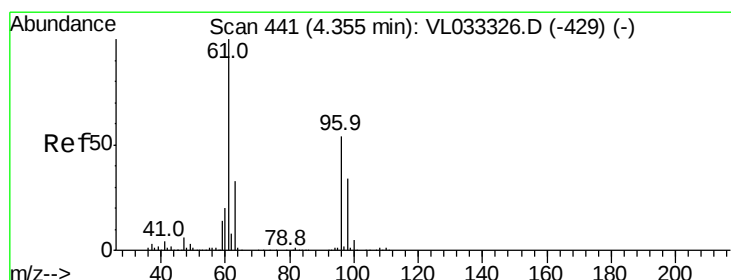
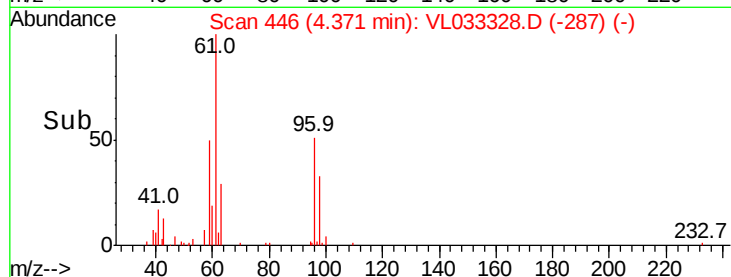
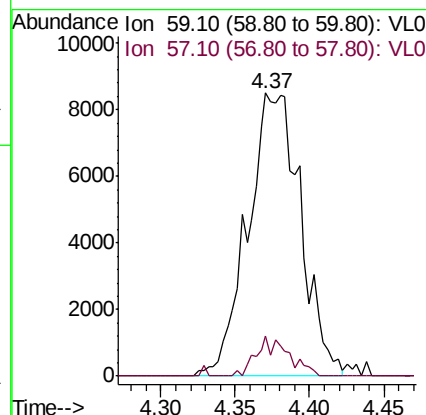
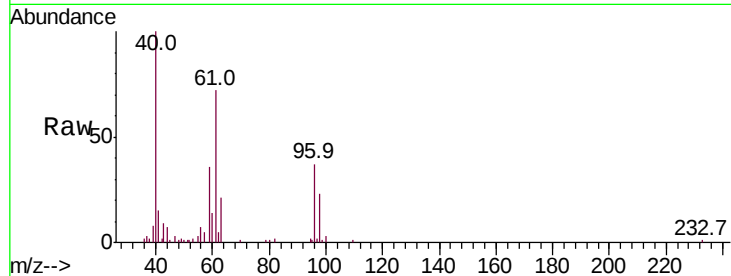
tert-Butyl alcohol
 Concen: 1.116 ppbv
 RT: 4.37 min Scan# 446
 Delta R.T. 0.01 min
 Lab File: VL033328.D
 Acq: 15 Mar 2019 11:44

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC001

Tot Ion: 59 Resp: 21049
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.7 11.5#

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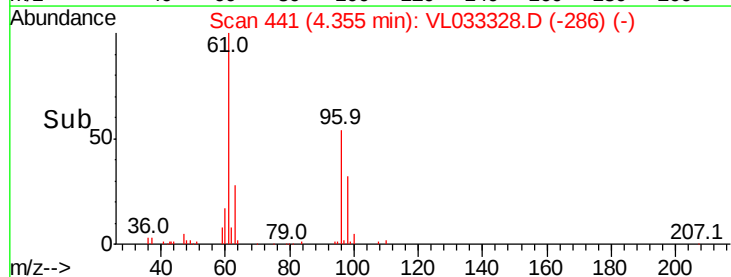
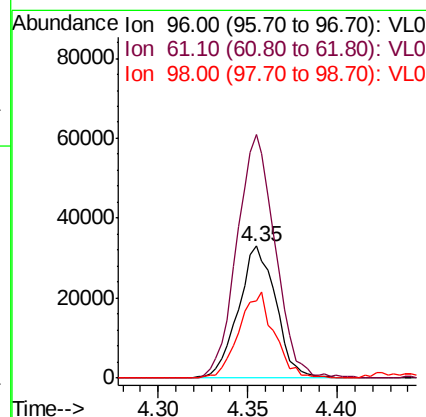
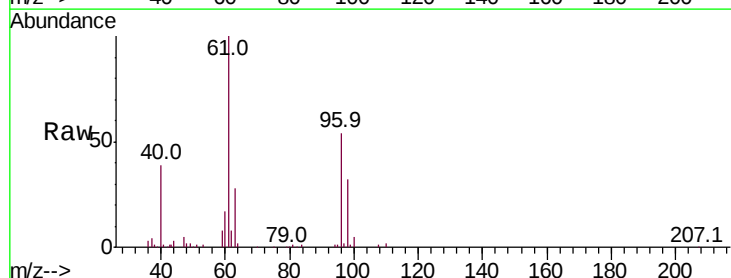
MMDadoda
 3/19/2019 10:02:18 AM

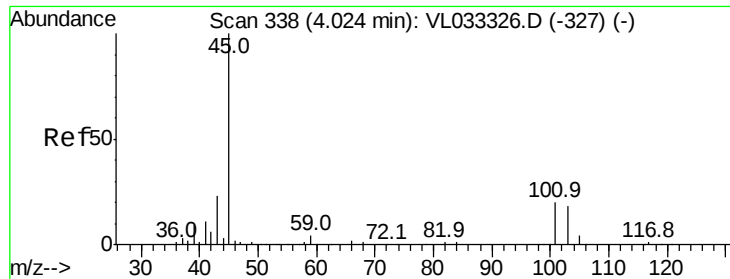


#18

1,1-Dichloroethene
 Concen: 1.119 ppbv
 RT: 4.35 min Scan# 441
 Delta R.T. -0.00 min
 Lab File: VL033328.D
 Acq: 15 Mar 2019 11:44

Tgt Ion: 96 Resp: 48222
 Ion Ratio Lower Upper
 96 100
 61 184.2 148.6 222.8
 98 58.6 50.3 75.5





#19

Isopropyl Alcohol

Concen: 1.019 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.01 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 45 Resp: 67629

Ion Ratio Lower Upper

45 100

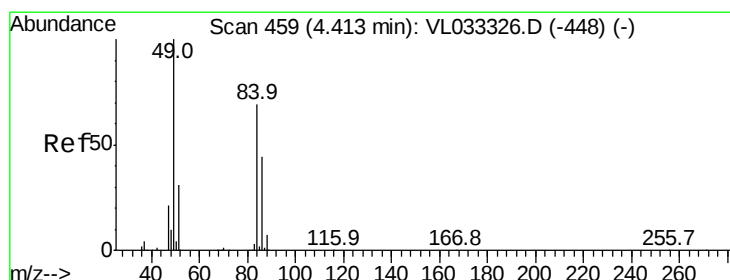
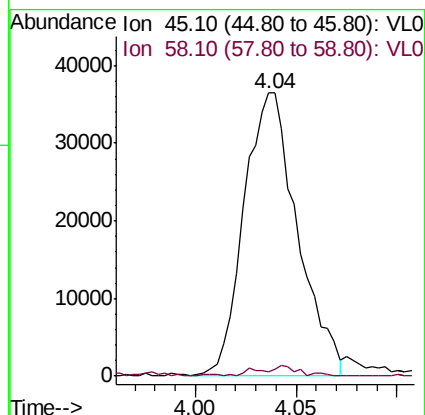
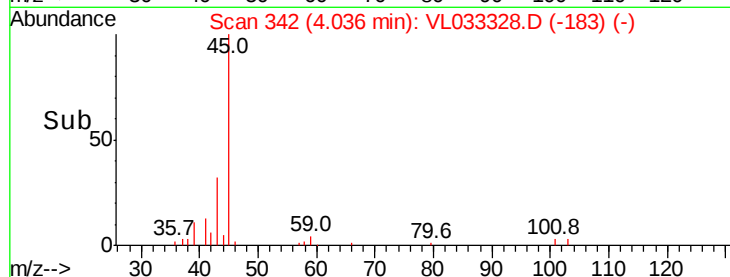
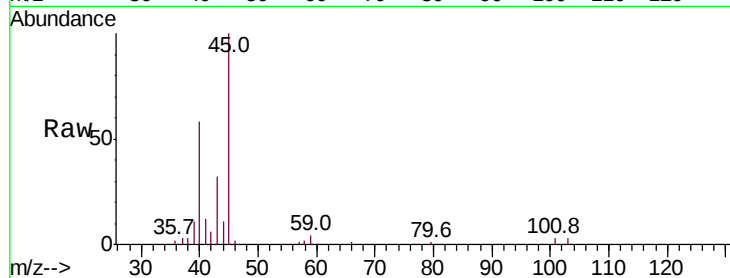
58 2.9 1.5 2.3#

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#20

Methylene Chloride

Concen: 1.127 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Tgt Ion: 84 Resp: 47757

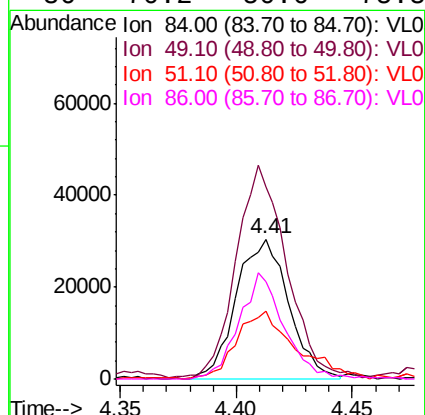
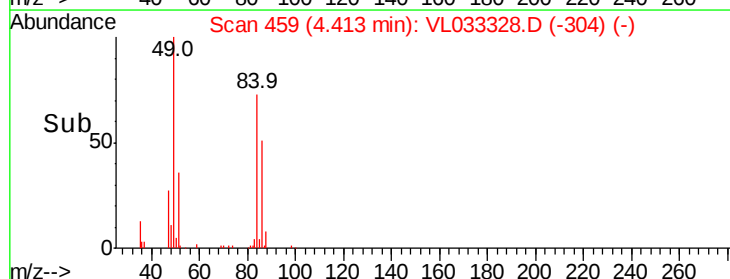
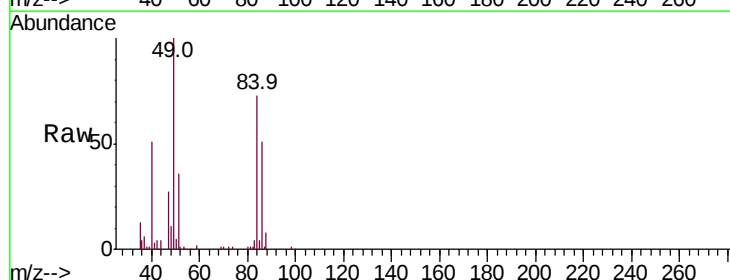
Ion Ratio Lower Upper

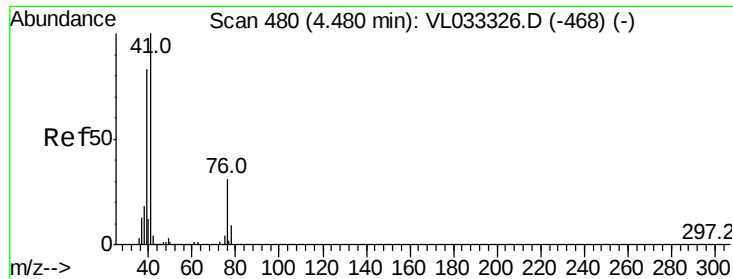
84 100

49 134.2 115.4 173.0

51 47.7 35.8 53.6

86 70.2 50.6 75.8





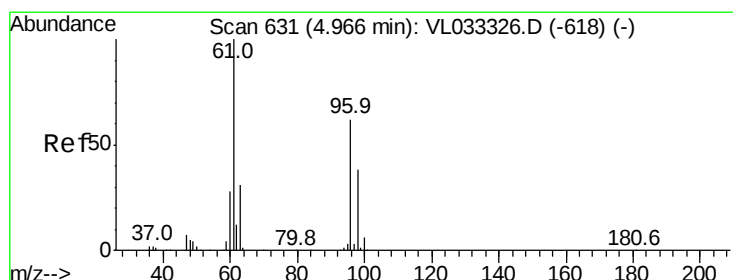
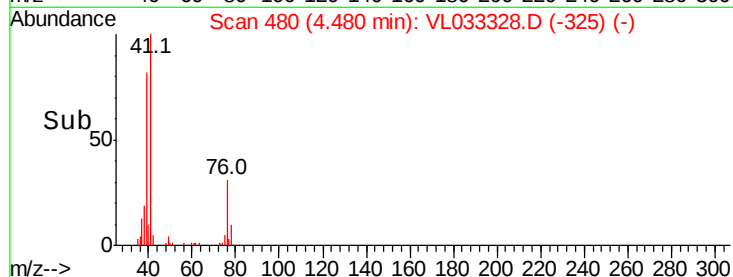
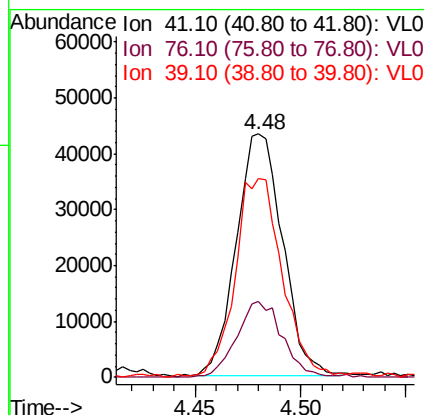
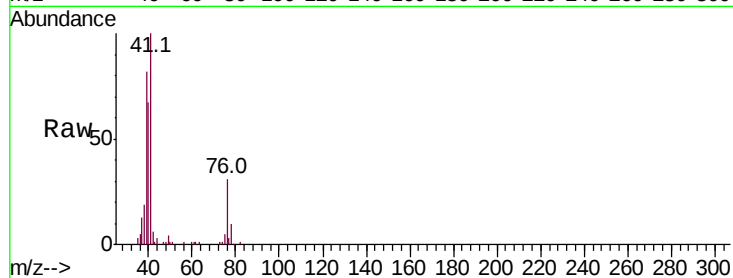
#21
Allvl Chloride
Concen: 1.005 ppbv
RT: 4.48 min Scan# 480
Delta R.T. -0.00 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
41	100	65782		
76	31.0		25.0	37.4
39	85.2		65.9	98.9

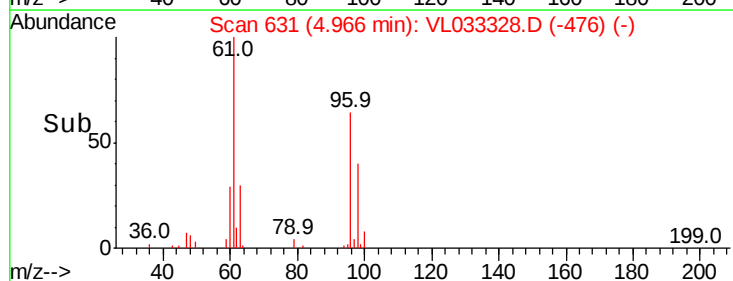
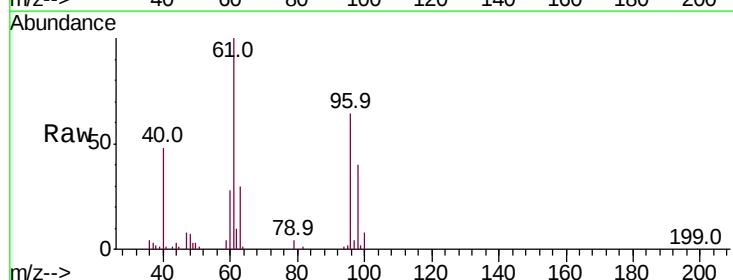
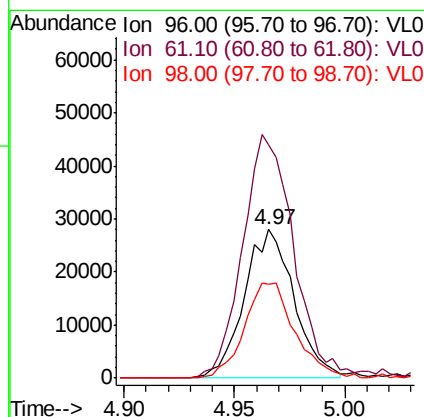
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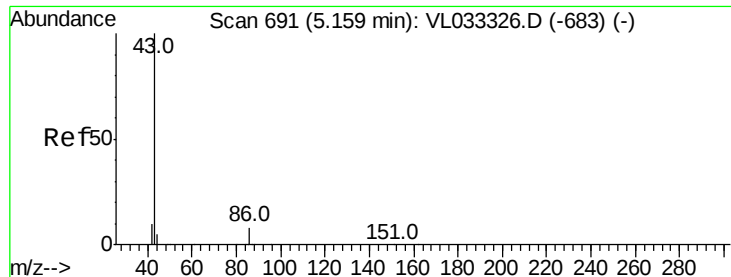
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 1.025 ppbv
RT: 4.97 min Scan# 631
Delta R.T. -0.00 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	43874		
61	156.7		130.0	195.0
98	63.0		50.0	75.0





#23

Vinyl Acetate

Concen: 1.040 ppbv

RT: 5.16 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Instrument :

MSVOA_L

ClientSampleId :

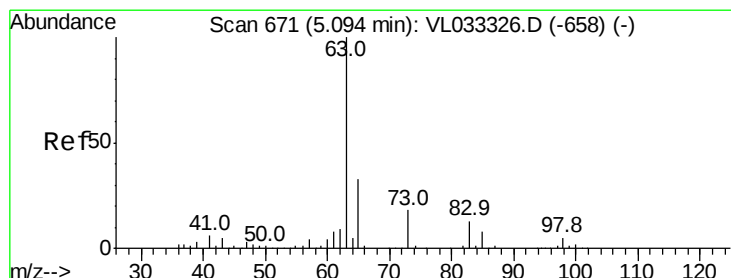
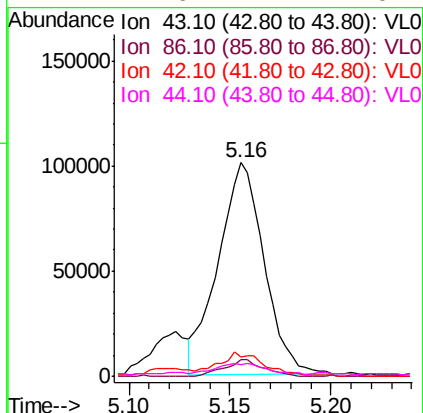
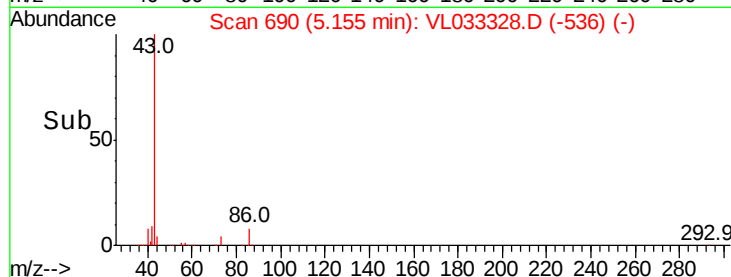
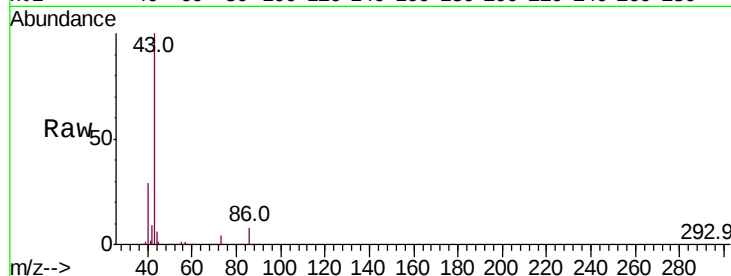
VSTDIC001

Tot Ion: 43 Resp: 160665

Ion	Ratio	Lower	Upper
43	100		
86	7.9	6.2	9.2
42	8.9	8.1	12.1
44	4.6	4.1	6.1

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#24

1,1-Dichloroethane

Concen: 1.042 ppbv

RT: 5.09 min Scan# 670

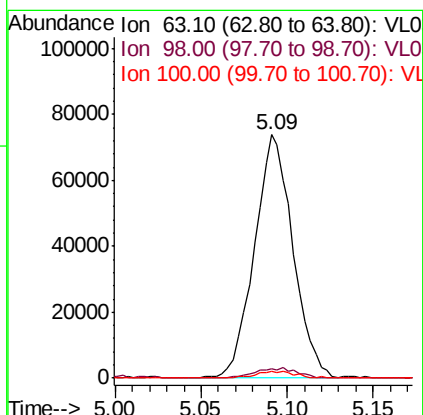
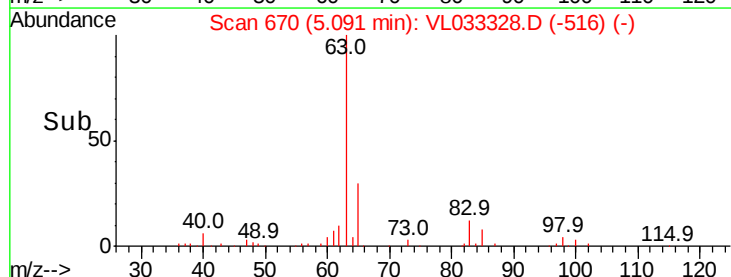
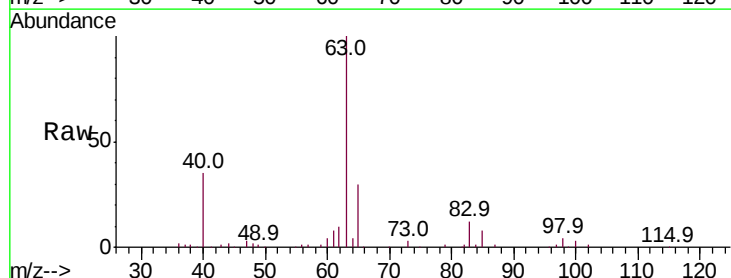
Delta R.T. -0.00 min

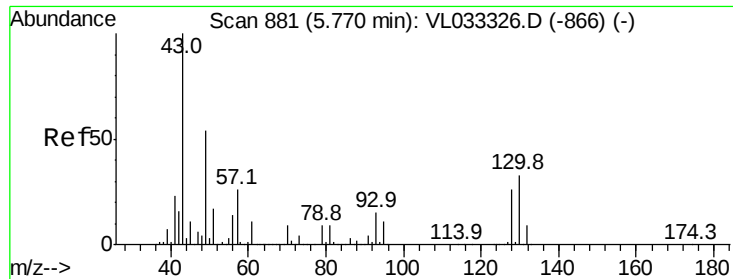
Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Tgt Ion: 63 Resp: 114626

Ion	Ratio	Lower	Upper
63	100		
98	3.9	2.4	7.1
100	2.5	1.3	3.8





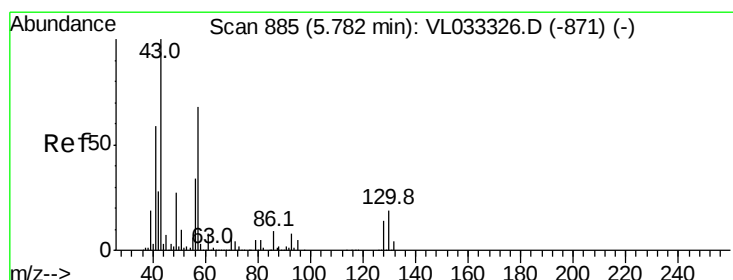
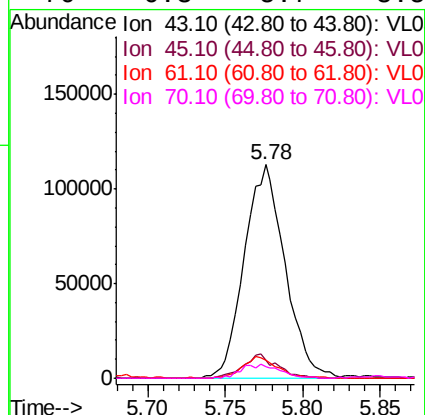
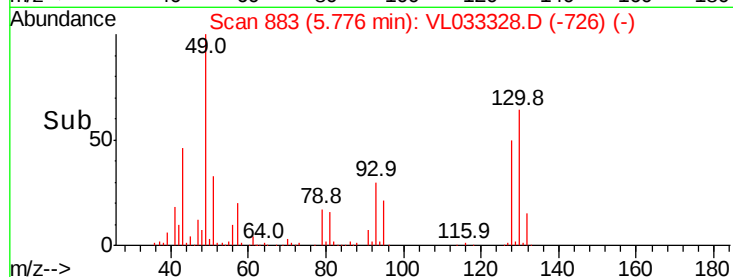
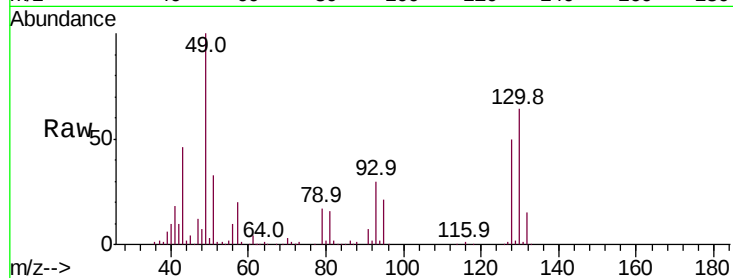
#25
Ethyl Acetate
Concen: 1.079 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
45	9.7	7.9	11.9	
61	8.8	7.4	11.2	
70	6.3	5.7	8.5	

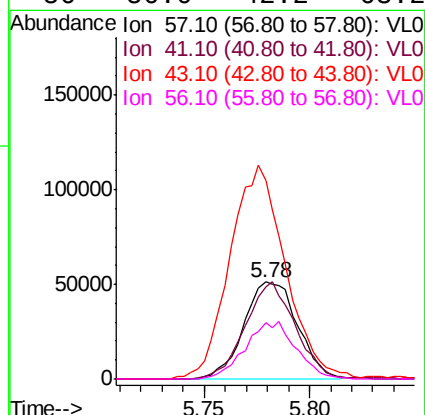
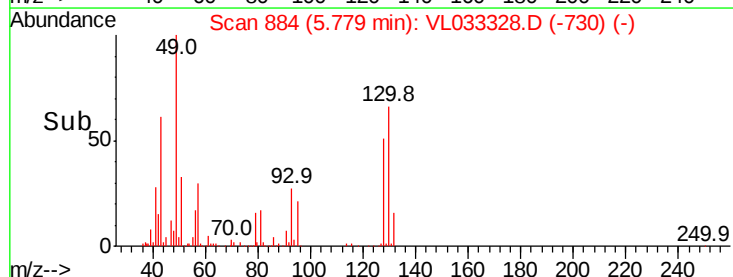
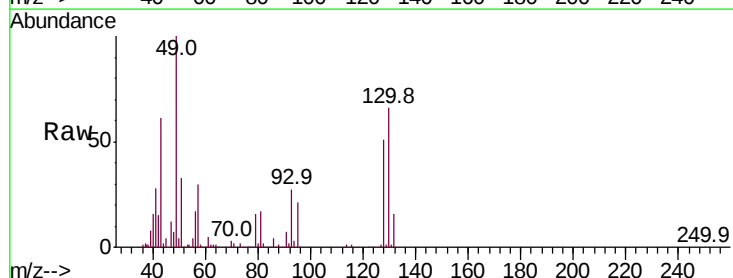
Manual Integrations
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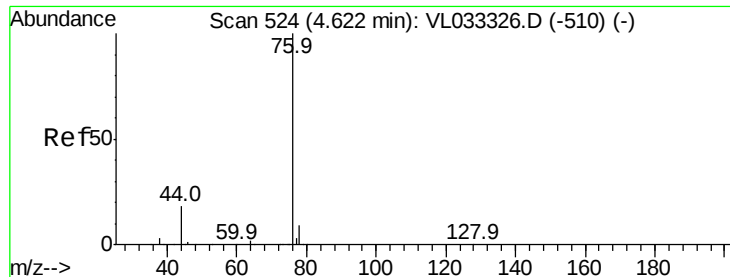
MMDadoda
3/19/2019 10:02:18 AM



#26
Hexane
Concen: 1.036 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Tgt Ion	Ratio	Resp	Lower	Upper
57	100			
41	94.5	70.5	105.7	
43	229.9	181.8	272.8	
56	56.0	42.2	63.2	





#27

Carbon Disulfide

Concen: 1.015 ppbv

RT: 4.62 min Scan# 524

Delta R.T. -0.00 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Instrument :

MSVOA_L

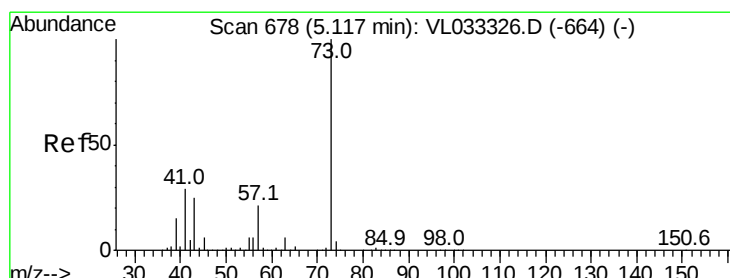
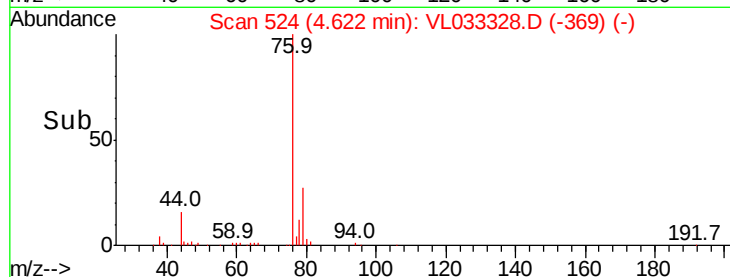
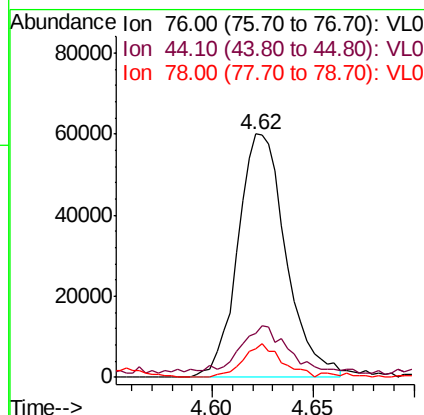
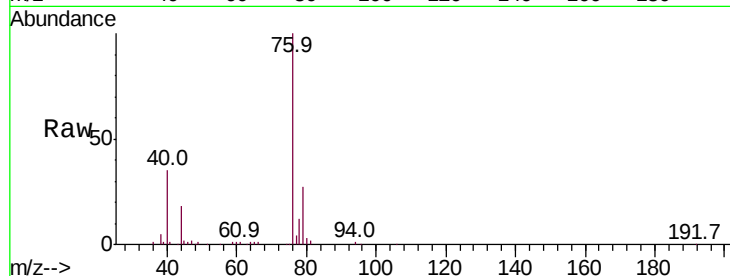
ClientSampleId :

VSTDIC001

Tot Ion:	76	Resp:	100268
Ion	Ratio	Lower	Upper
76	100		
44	22.2	15.2	22.8
78	12.0	7.2	10.8#

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 1.031 ppbv m

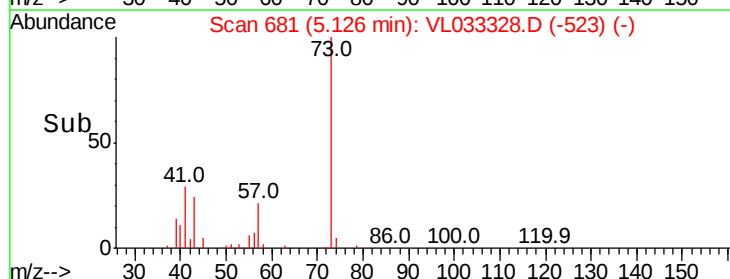
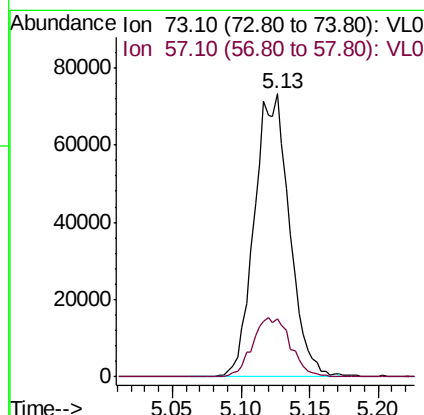
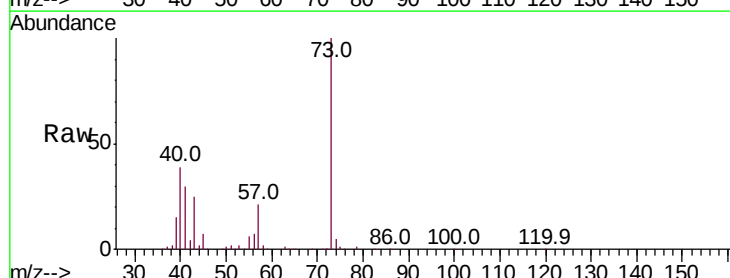
RT: 5.13 min Scan# 681

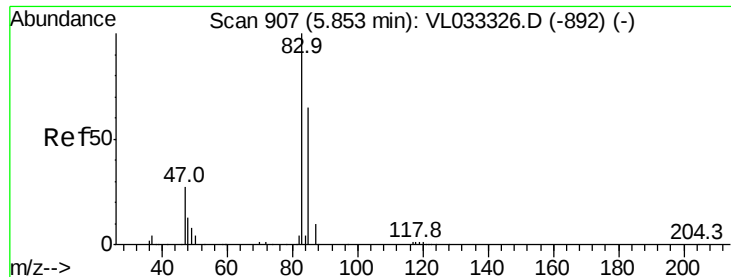
Delta R.T. 0.01 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Tgt Ion:	73	Resp:	129966
Ion	Ratio	Lower	Upper
73	100		
57	7.7	17.4	26.0#





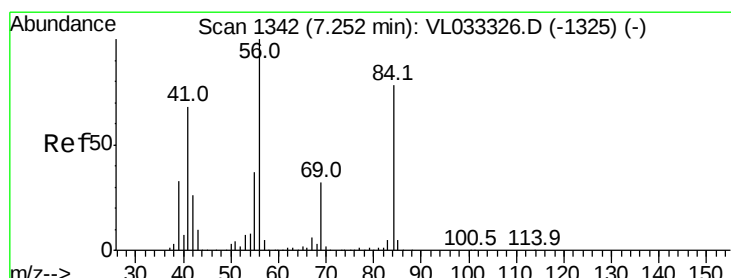
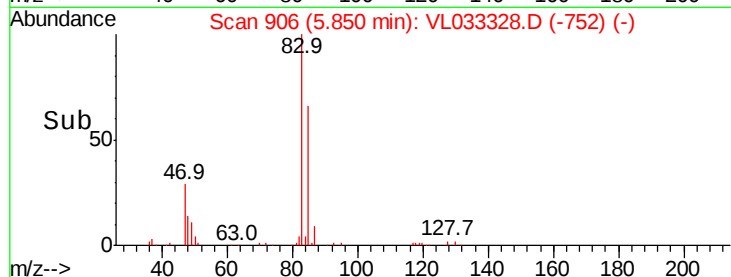
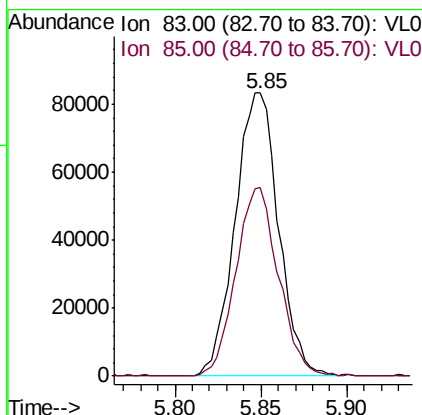
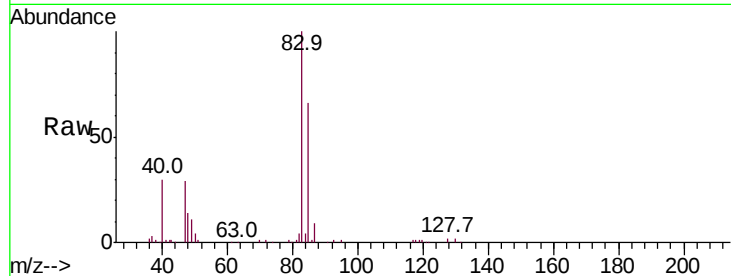
#29
Chloroform
Concen: 1.025 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 83 Resp: 146259
Ion Ratio Lower Upper
83 100
85 66.1 52.0 78.0

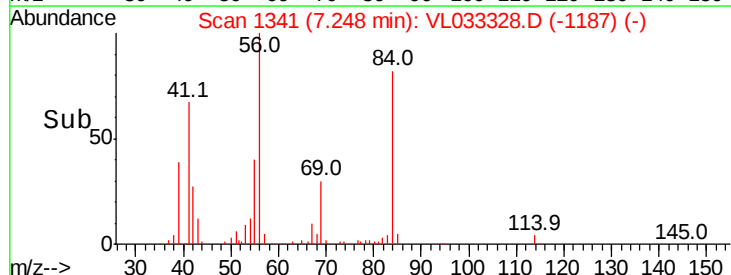
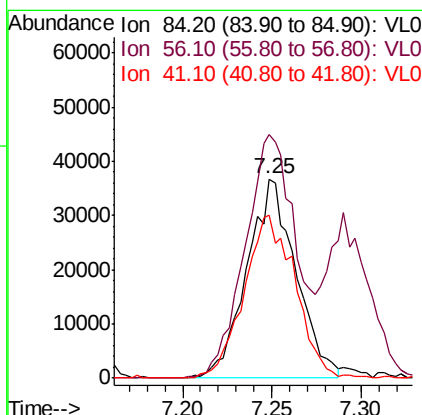
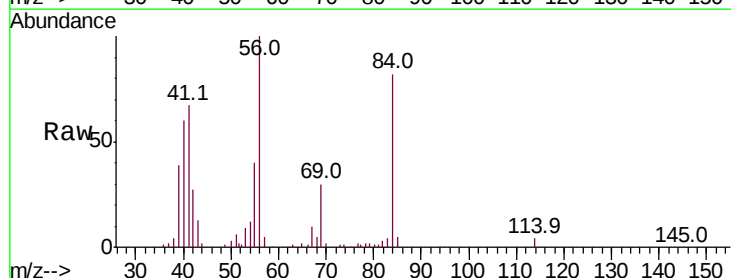
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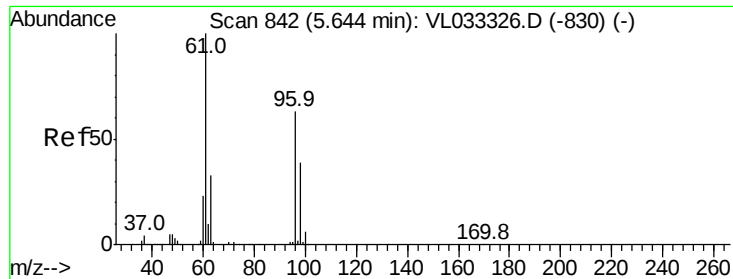
MMDadoda
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#30
Cyclohexane
Concen: 1.013 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Tgt Ion: 84 Resp: 70255
Ion Ratio Lower Upper
84 100
56 127.5 111.3 166.9
41 85.8 69.6 104.4





#31

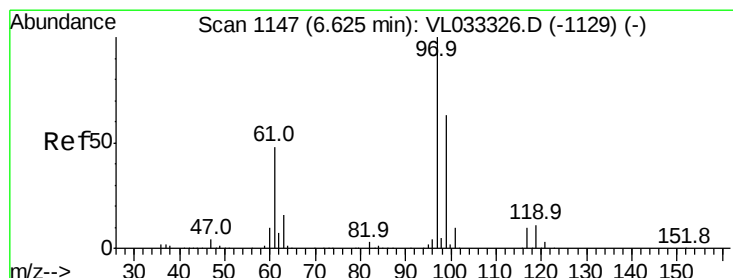
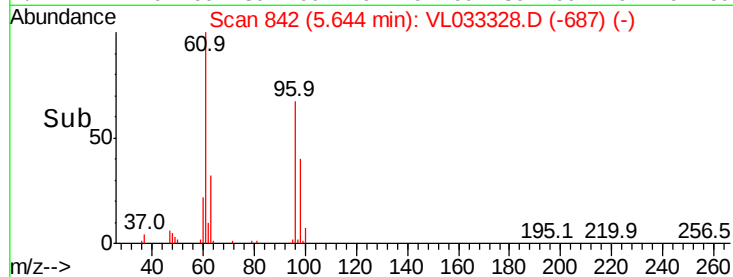
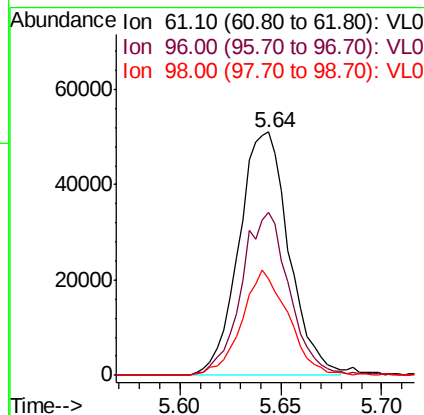
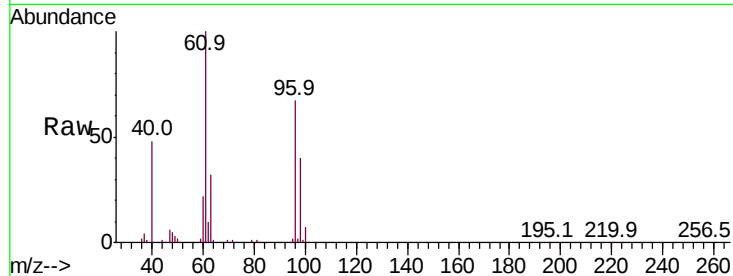
cis-1,2-Dichloroethene
Concen: 1.020 ppbv
RT: 5.64 min Scan# 842
Delta R.T. -0.00 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
61	100	88550		
96	66.8		50.3	75.5
98	39.6		31.5	47.3

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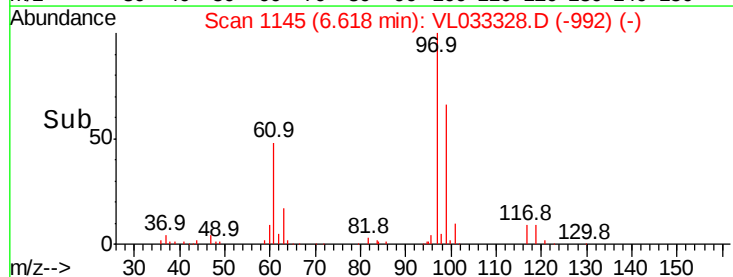
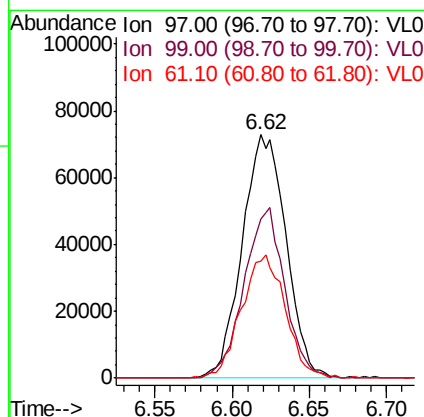
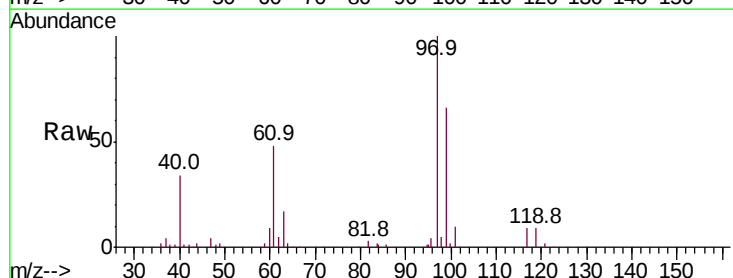
MMDadoda
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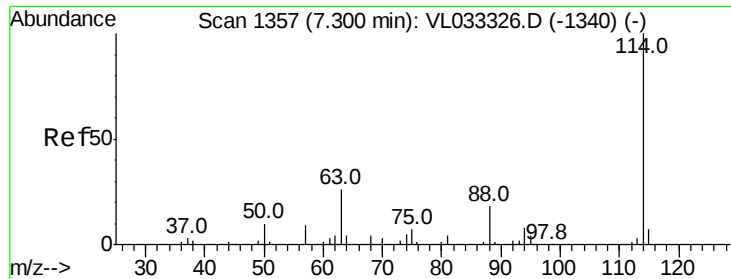


#32

1,1,1-Trichloroethane
Concen: 1.013 ppbv
RT: 6.62 min Scan# 1145
Delta R.T. -0.01 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	143564		
99	65.1		51.0	76.6
61	50.8		39.3	58.9





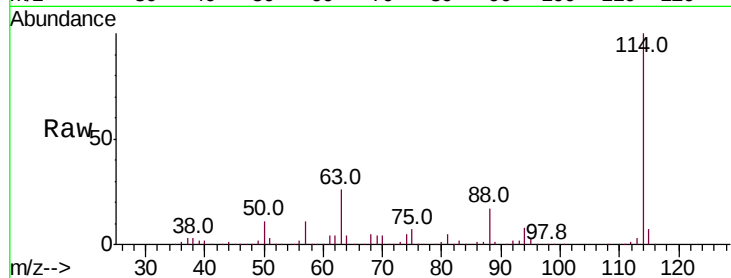
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL033328.D
 Acq: 15 Mar 2019 11:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

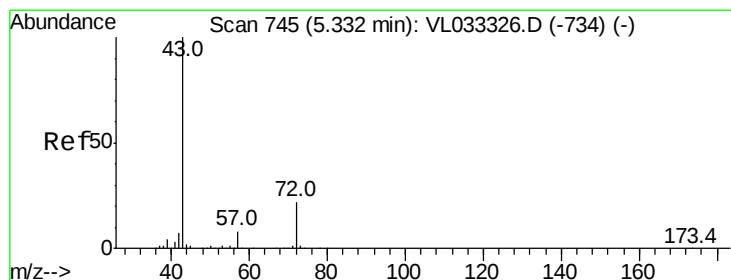
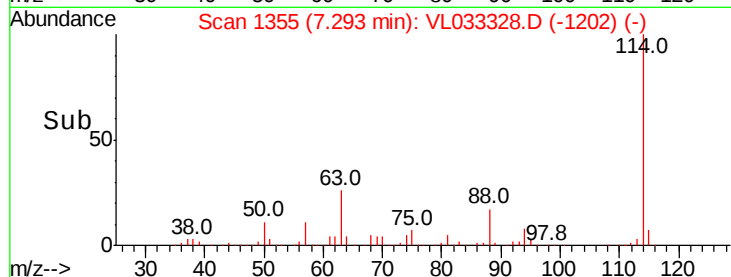
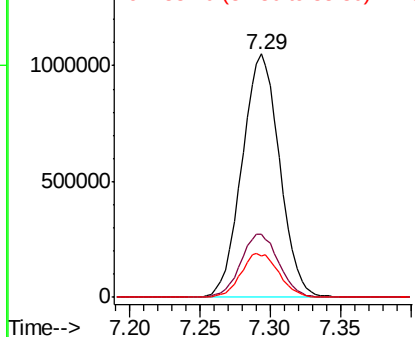
Tot Ion	Ratio	Lower	Upper
114	100		
63	26.5	21.4	32.2
88	18.1	14.5	21.7

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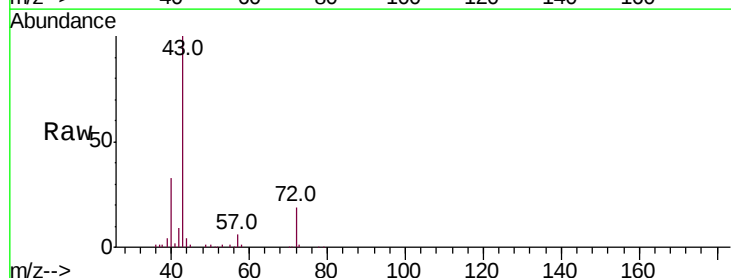


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

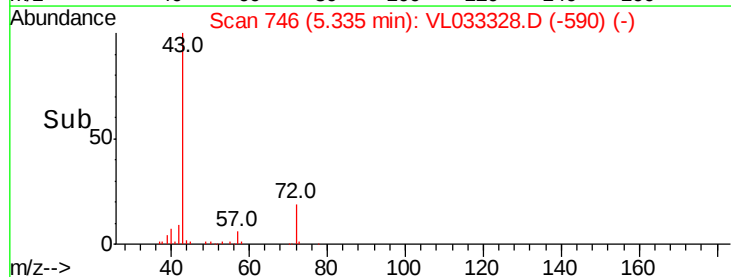
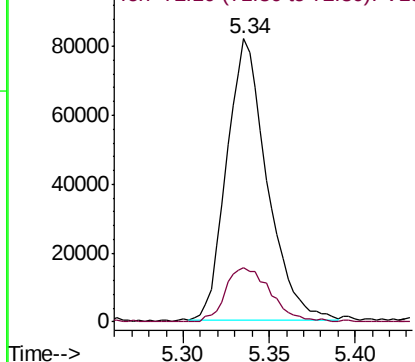


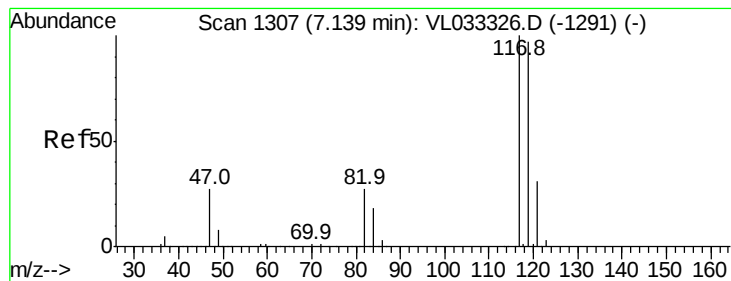
#34
 2-Butanone
 Concen: 1.079 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. 0.00 min
 Lab File: VL033328.D
 Acq: 15 Mar 2019 11:44

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.6	17.7	26.5



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.972 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.01 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Instrument :

MSVOA_L

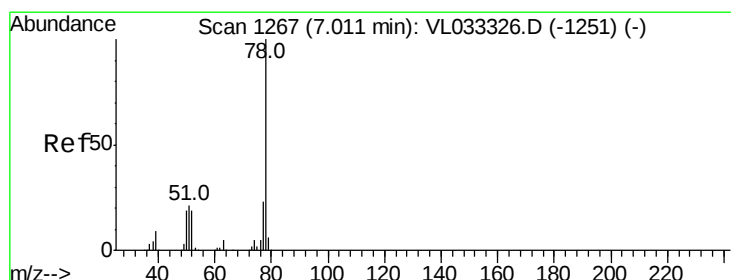
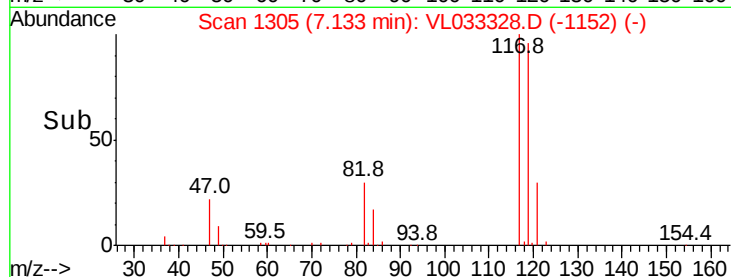
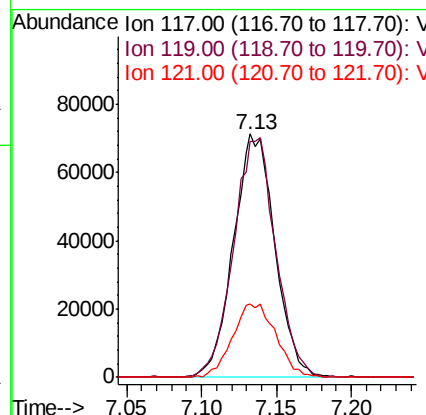
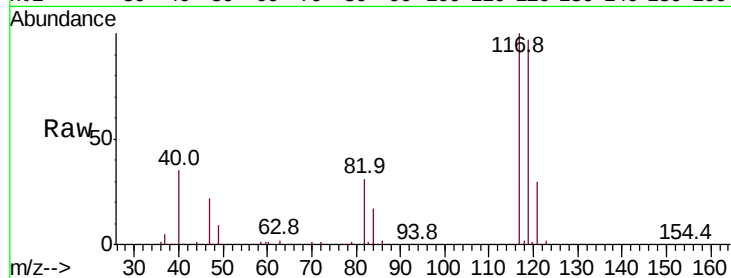
ClientSampleId :

VSTDIC001

Tot Ion:	117	Resp:	137689
Ion Ratio	Lower	Upper	
117	100		
119	97.0	77.4	116.0
121	30.3	24.9	37.3

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#36

Benzene

Concen: 1.045 ppbv

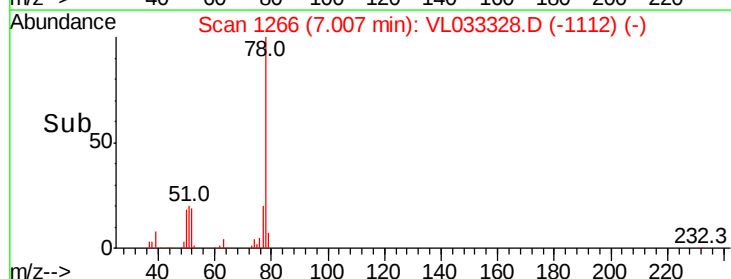
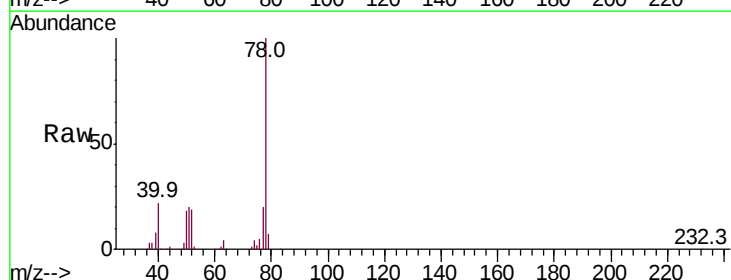
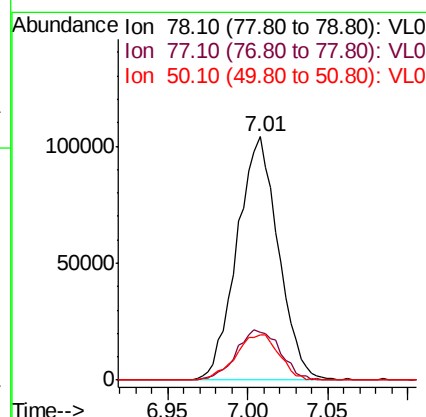
RT: 7.01 min Scan# 1266

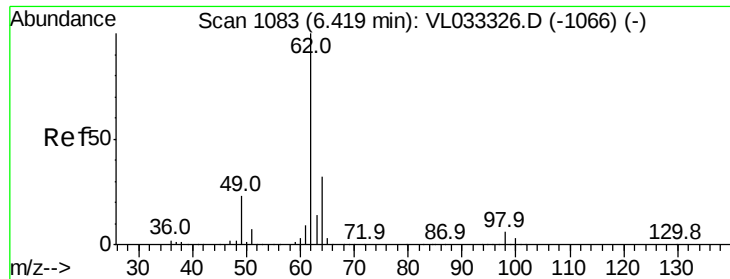
Delta R.T. -0.00 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Tgt Ion:	78	Resp:	183251
Ion Ratio	Lower	Upper	
78	100		
77	19.3	18.1	27.1
50	18.4	15.2	22.8





#37

1,2-Dichloroethane

Concen: 1.064 ppbv

RT: 6.42 min Scan# 1082

Delta R.T. -0.00 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Instrument :
MSVOA_L

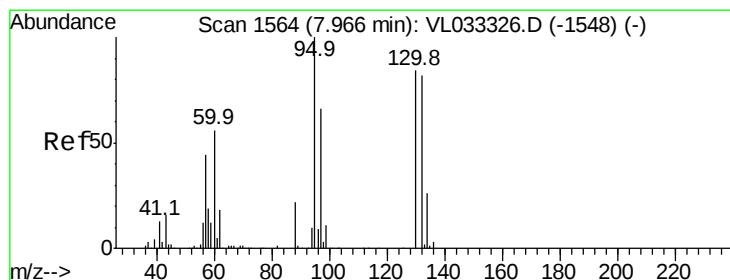
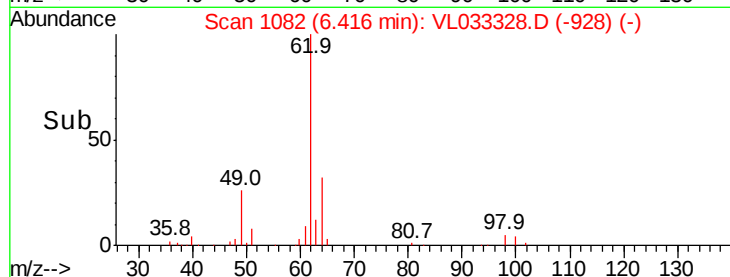
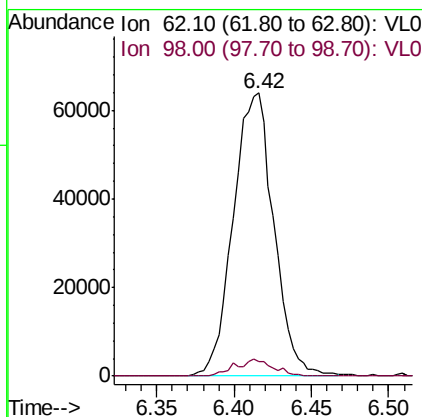
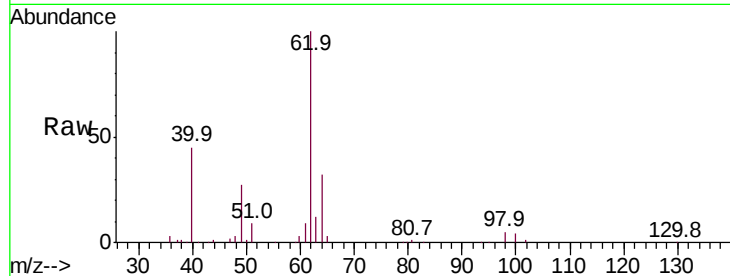
ClientSampleId :
VSTDIC001

Tot Ion: 62 Resp: 116372

Ion	Ratio	Lower	Upper
62	100		
98	5.7	4.5	6.7

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#38

Trichloroethene

Concen: 1.012 ppbv

RT: 7.96 min Scan# 1563

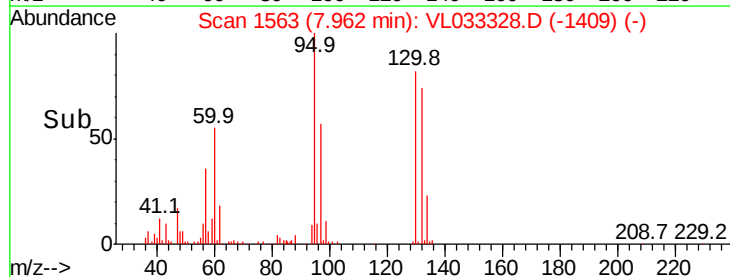
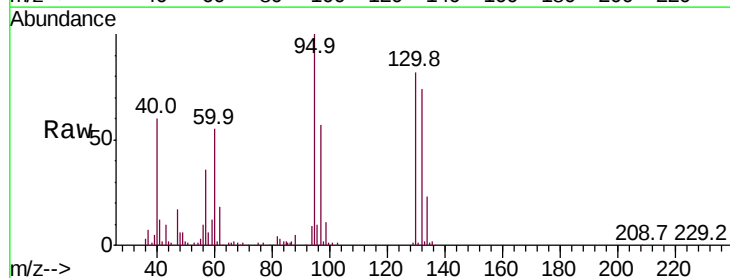
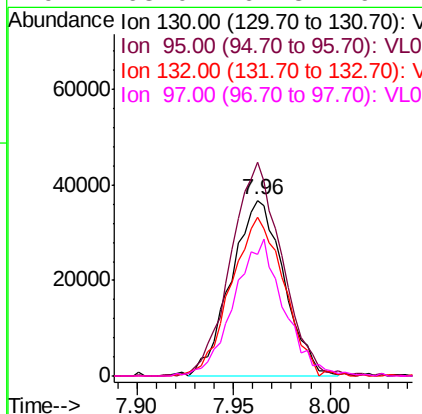
Delta R.T. -0.00 min

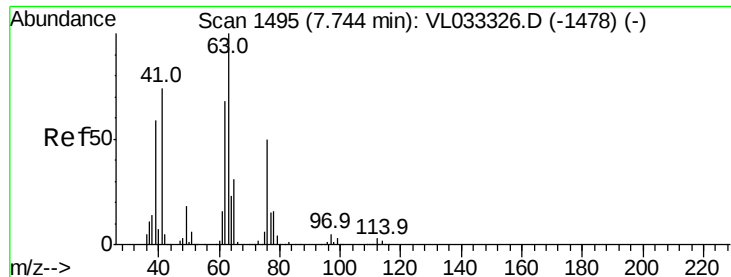
Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Tgt Ion: 130 Resp: 69884

Ion	Ratio	Lower	Upper
130	100		
95	119.7	95.2	142.8
132	89.9	77.7	116.5
97	68.0	62.8	94.2





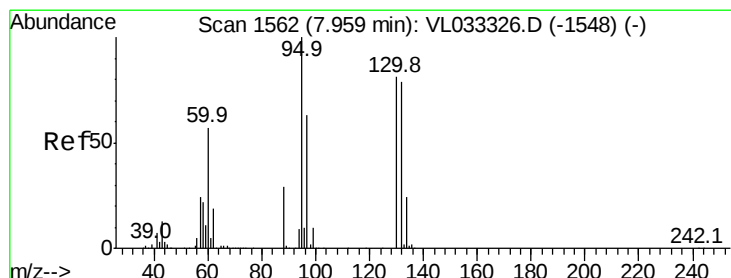
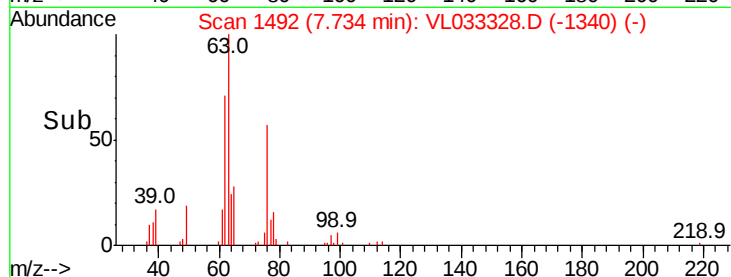
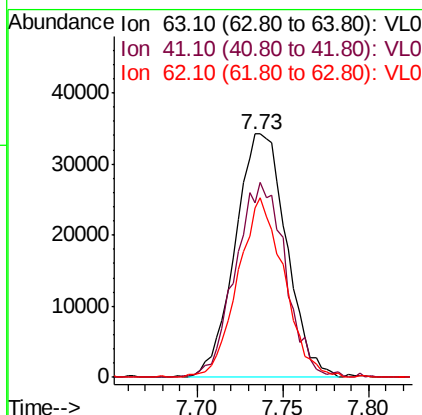
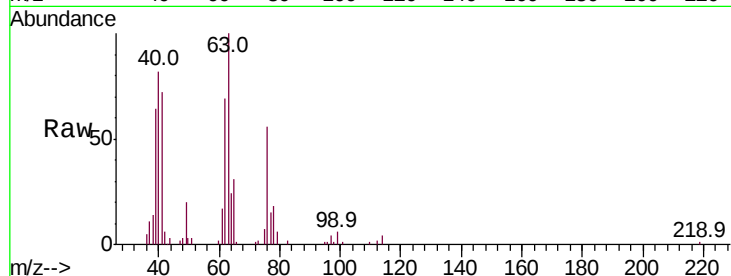
#39
 1,2-Dichloropropane
 Concen: 1.061 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: VL033328.D
 Acq: 15 Mar 2019 11:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
63	100		
41	71.3	59.5	89.3
62	68.0	54.7	82.1

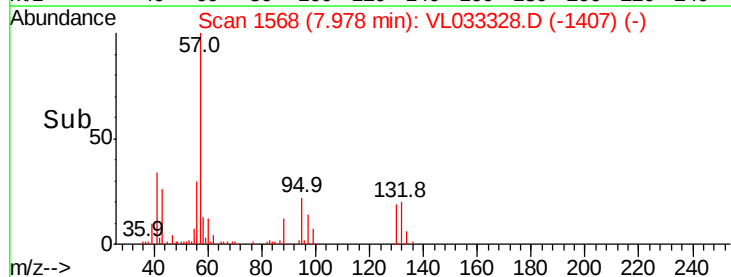
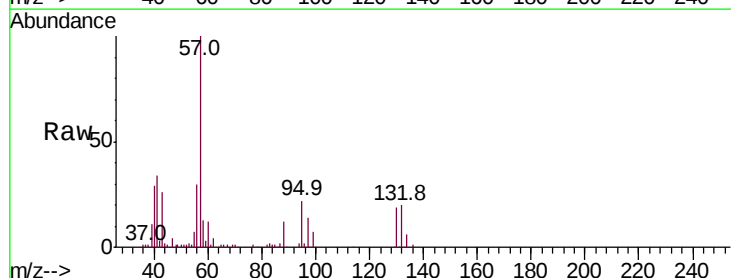
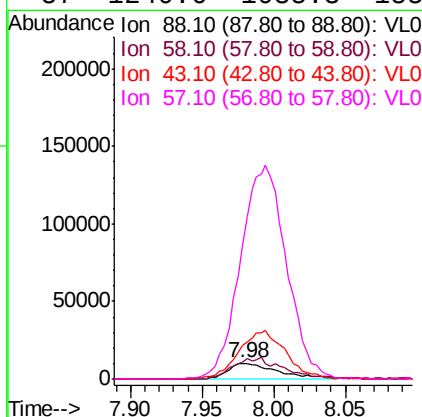
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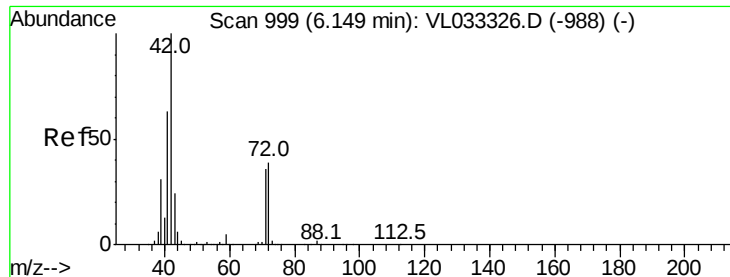
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#40
 1,4-Dioxane
 Concen: 1.014 ppbv m
 RT: 7.98 min Scan# 1568
 Delta R.T. 0.02 min
 Lab File: VL033328.D
 Acq: 15 Mar 2019 11:44

Tgt Ion	Ratio	Lower	Upper
88	100		
58	136.5	107.9	161.9
43	289.5	230.8	346.2
57	1240.6	1035.3	1552.9





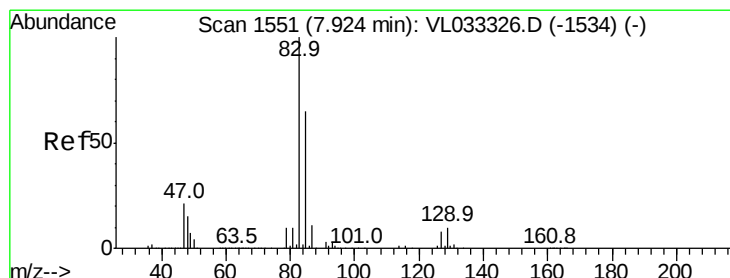
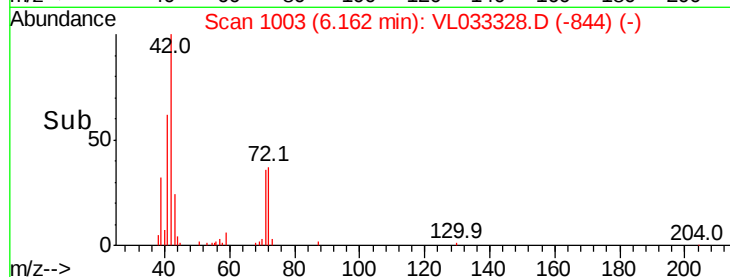
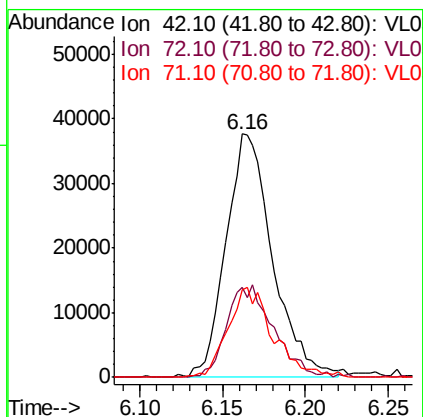
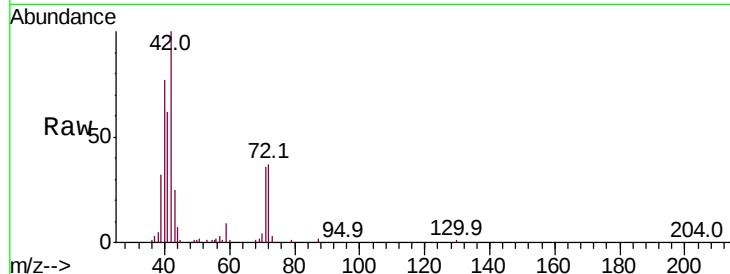
#41
Tetrahydrofuran
Concen: 1.066 ppbv
RT: 6.16 min Scan# 1003
Delta R.T. 0.01 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.2	31.6	47.4
71	35.8	29.9	44.9

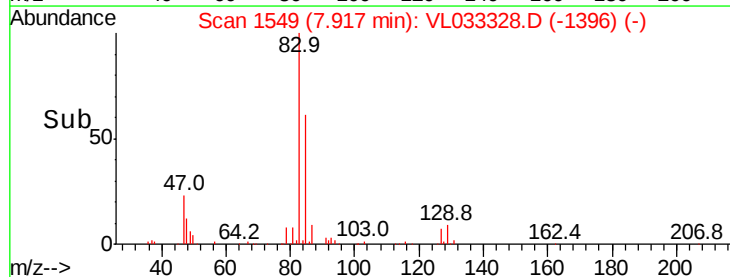
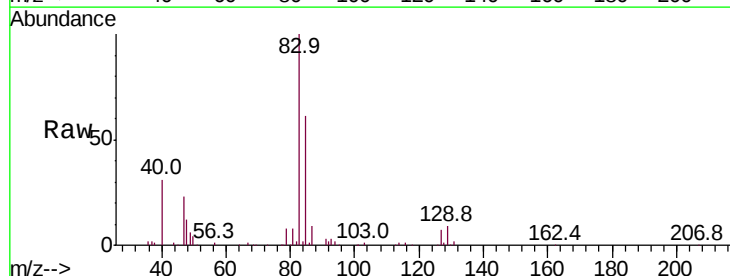
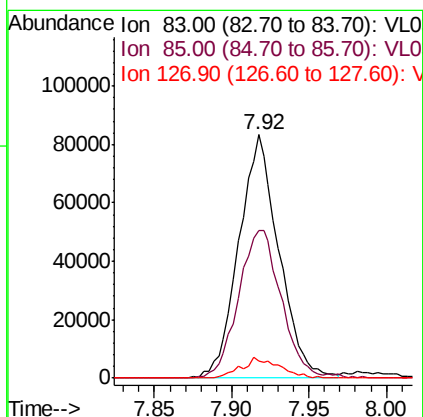
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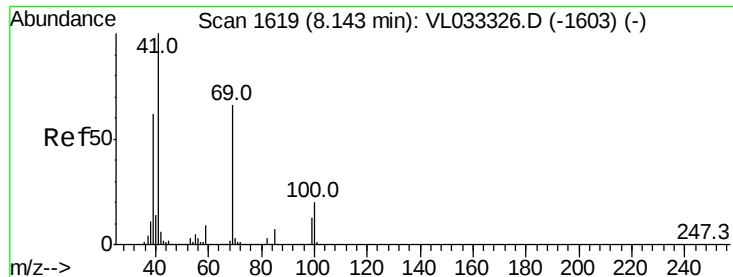
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#42
Bromodichloromethane
Concen: 1.004 ppbv
RT: 7.92 min Scan# 1549
Delta R.T. -0.01 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.6	51.8	77.6
127	7.1	6.2	9.2





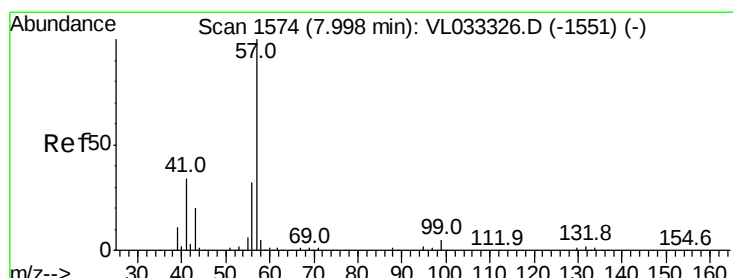
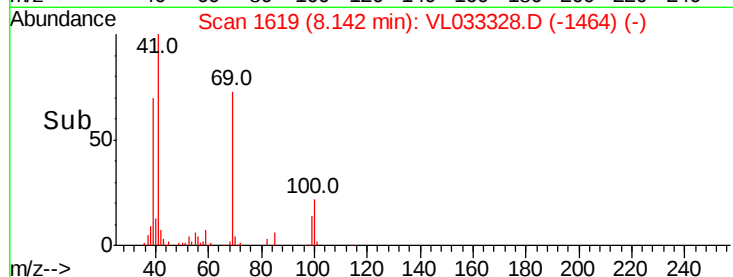
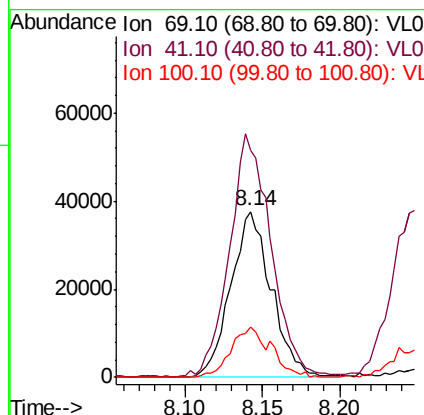
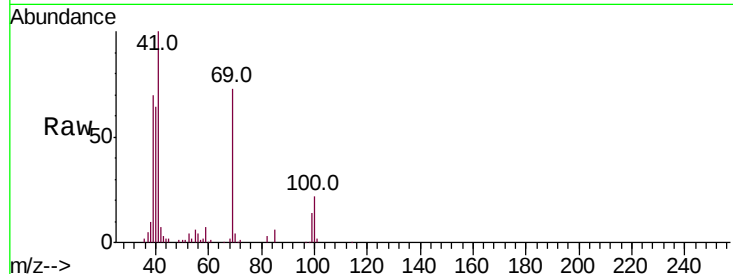
#43
Methyl Methacrylate
Concen: 1.002 ppbv
RT: 8.14 min Scan# 1619
Delta R.T. -0.00 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
69	100		
41	152.0	119.5	179.3
100	30.0	24.4	36.6

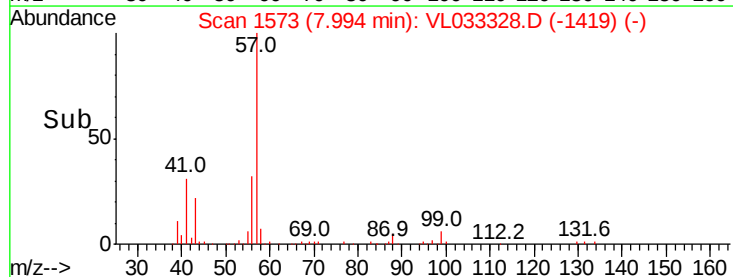
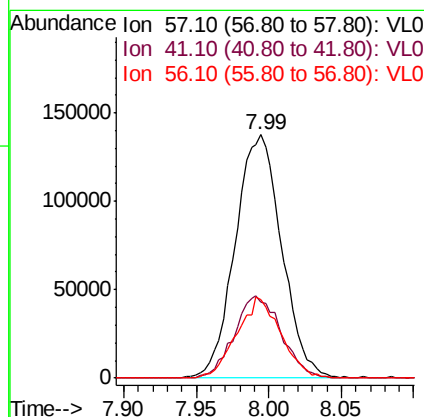
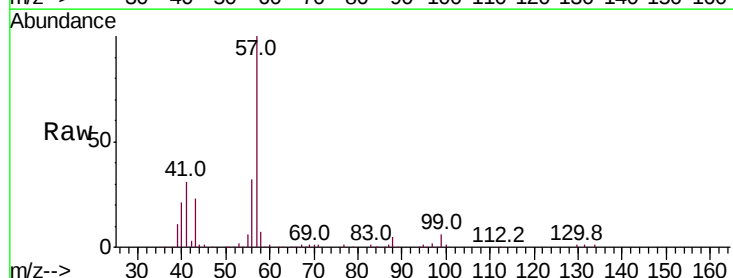
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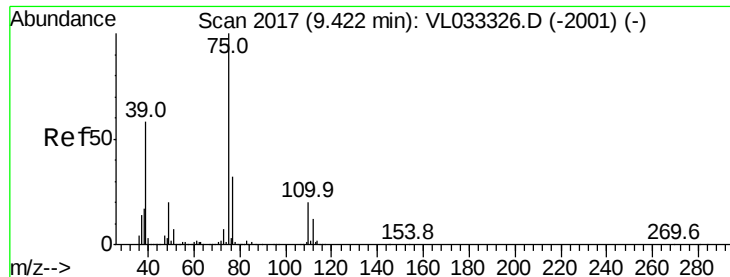
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#44
2,2,4-Trimethylpentane
Concen: 1.036 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Tgt Ion	Ratio	Lower	Upper
57	100		
41	34.5	26.0	39.0
56	31.6	24.6	36.8





#45

t-1,3-Dichloropropene

Concen: 0.885 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. -0.00 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 75 Resp: 74182

Ion Ratio Lower Upper

75 100

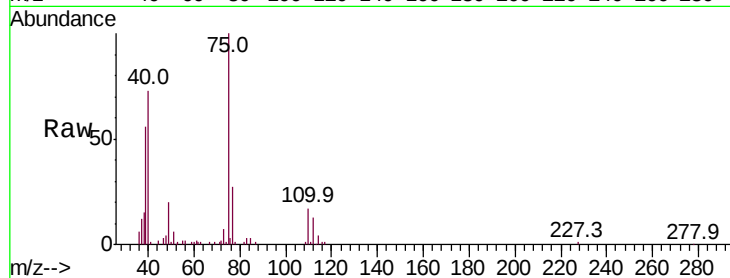
77 27.2 25.5 38.3

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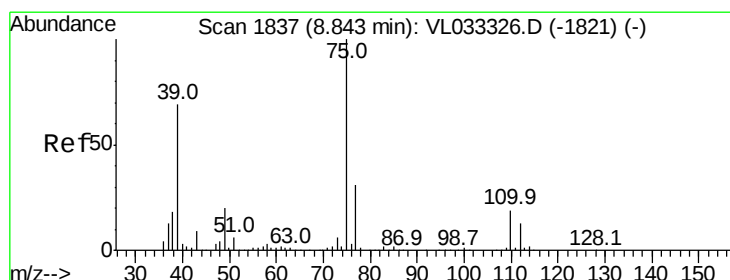
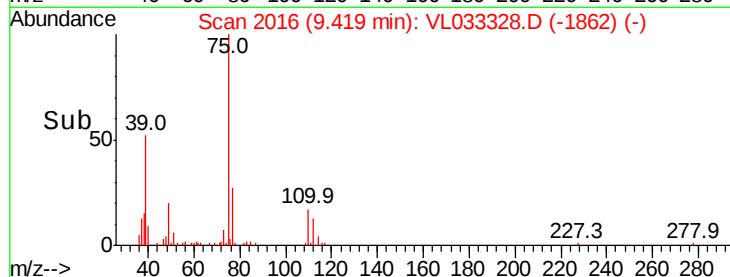
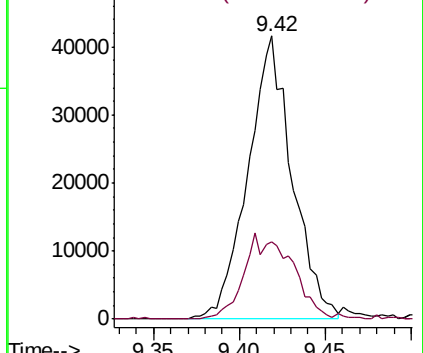
MMDadoda

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.970 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.01 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

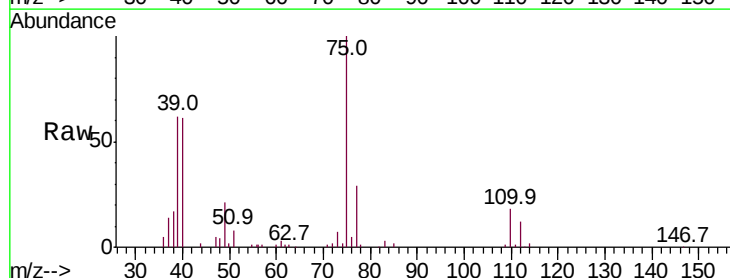
Tgt Ion: 75 Resp: 95446

Ion Ratio Lower Upper

75 100

39 61.4 55.0 82.6

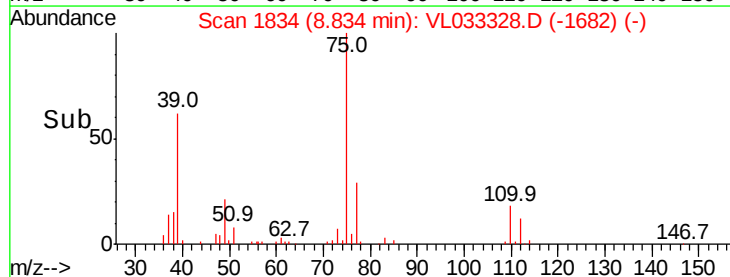
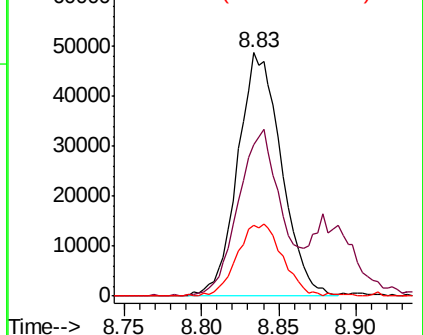
77 28.4 24.5 36.7

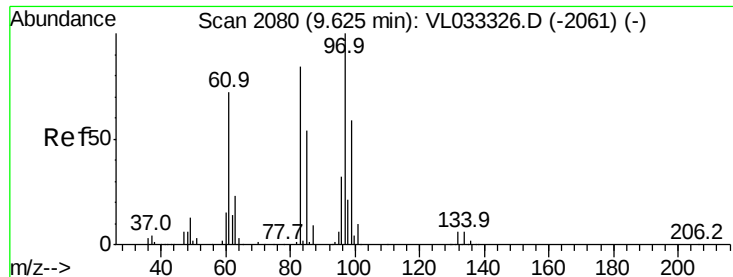


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





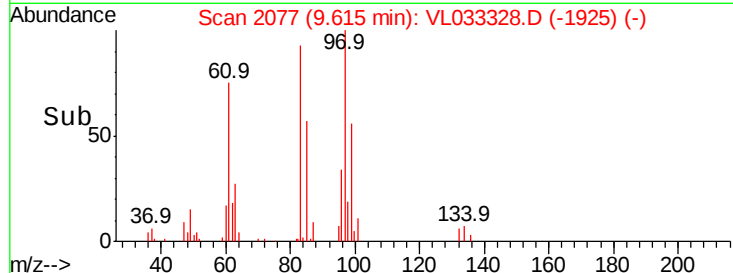
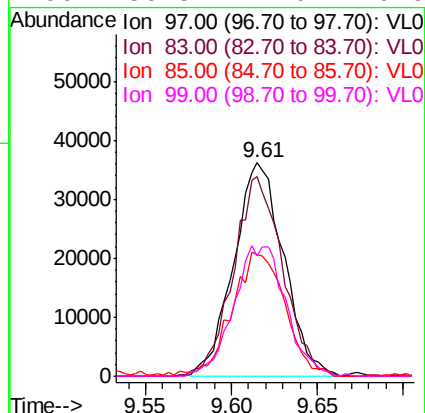
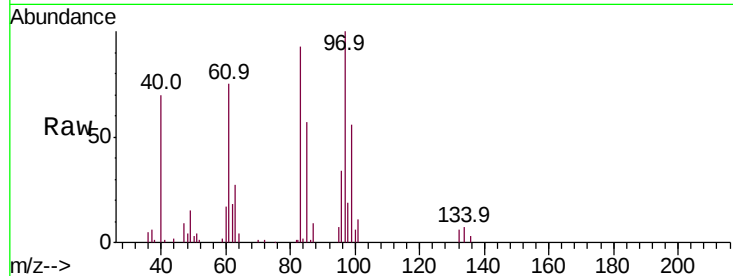
#47
 1,1,2-Trichloroethane
 Concen: 1.017 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. -0.01 min
 Lab File: VL033328.D
 Acq: 15 Mar 2019 11:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
97	100		
83	93.3	67.4	101.0
85	57.2	43.0	64.4
99	56.5	47.0	70.6

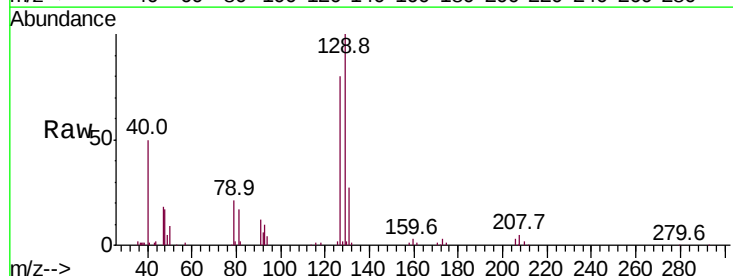
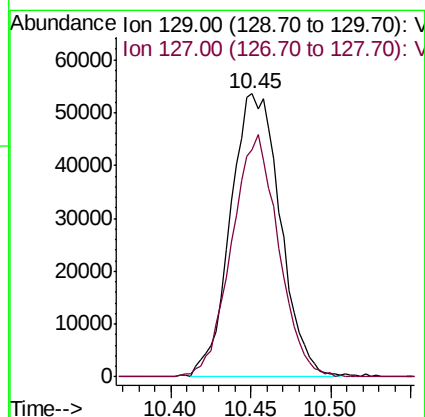
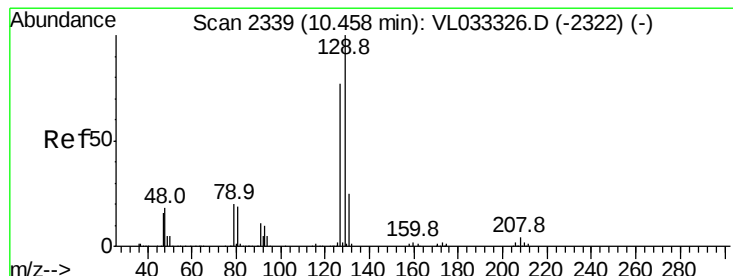
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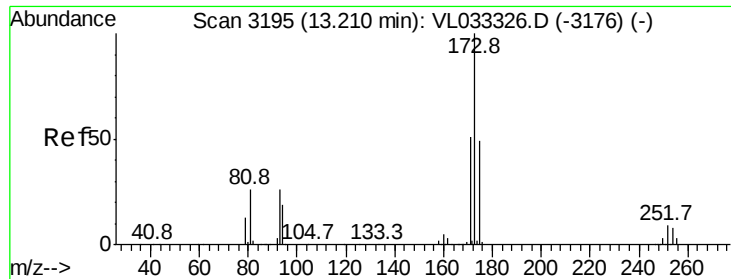
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#48
 Dibromochloromethane
 Concen: 0.928 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. -0.01 min
 Lab File: VL033328.D
 Acq: 15 Mar 2019 11:44

Tgt Ion	Ratio	Lower	Upper
129	100		
127	80.5	38.9	116.6





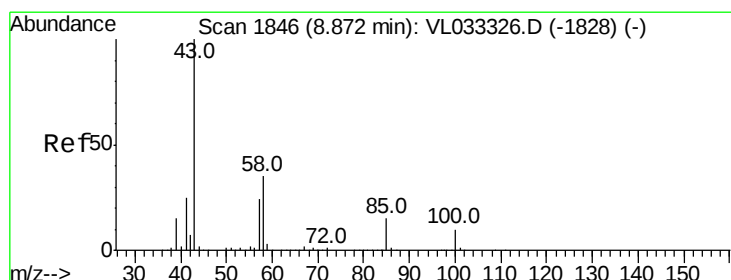
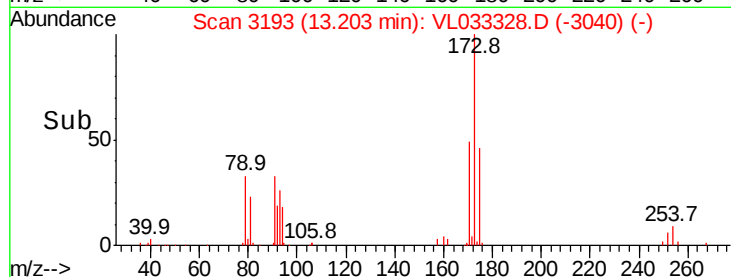
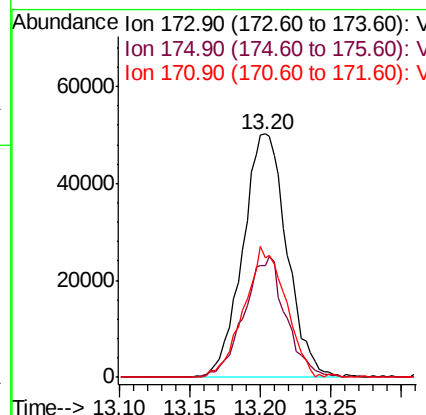
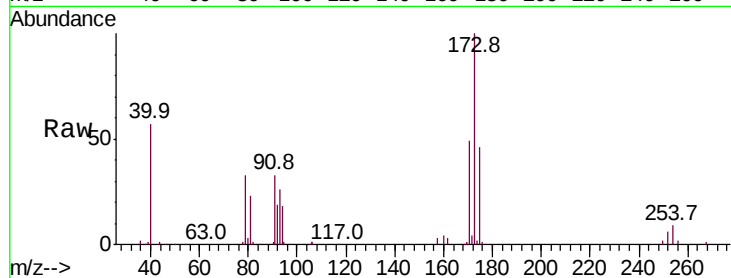
#49
Bromoform
Concen: 0.989 ppbv
RT: 13.20 min Scan# 3193
Delta R.T. -0.01 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.9	39.0	58.6
171	50.9	41.7	62.5

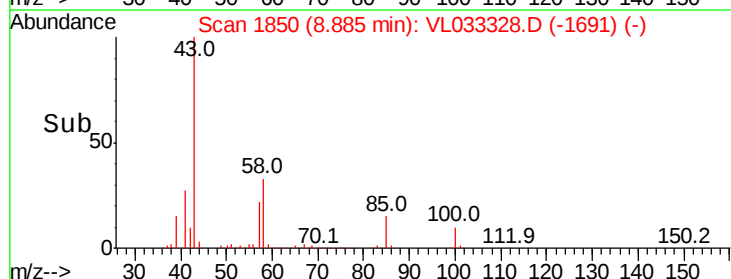
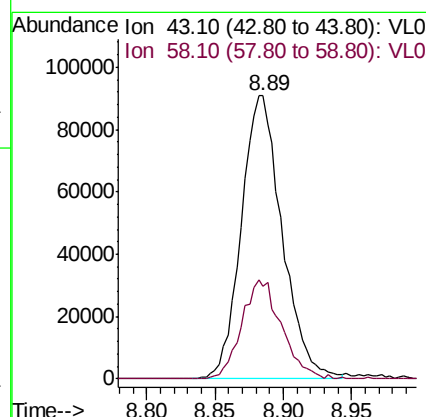
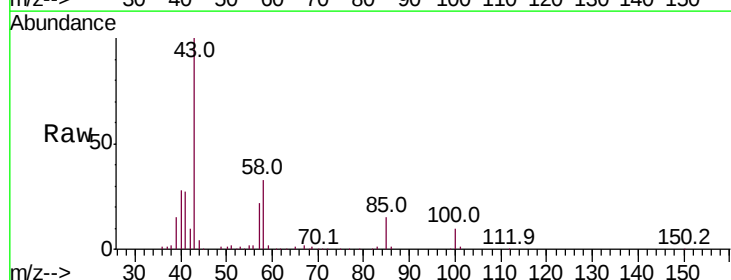
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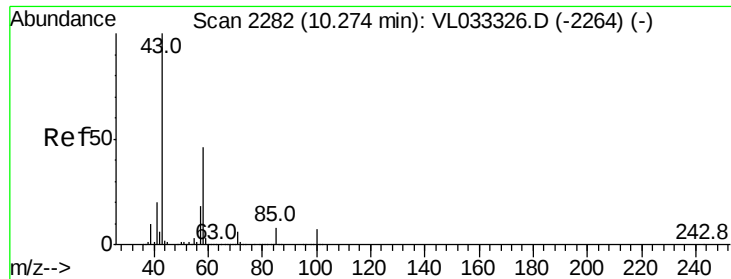
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#50
4-Methyl-2-Pentanone
Concen: 1.037 ppbv
RT: 8.89 min Scan# 1850
Delta R.T. 0.01 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.4	28.4	42.6





#51

2-Hexanone

Concen: 0.993 ppbv

RT: 10.29 min Scan# 2287

Delta R.T. 0.02 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Instrument :

MSVOA_L

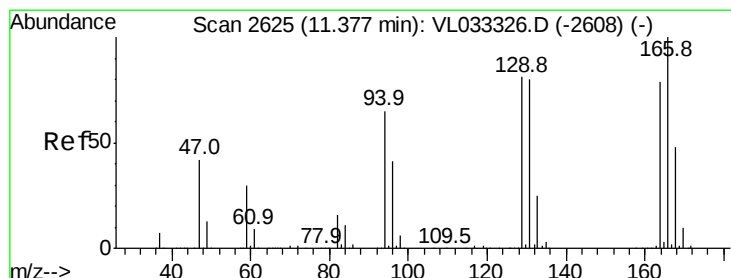
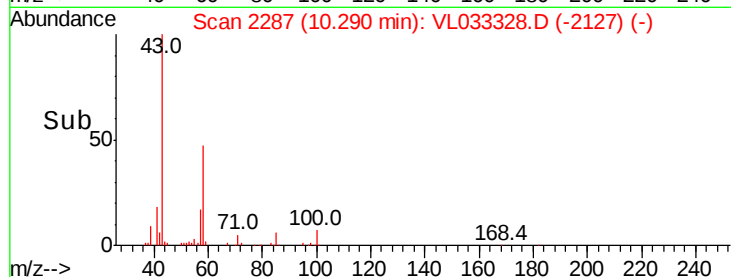
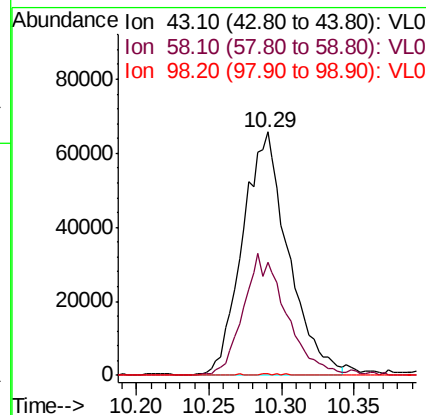
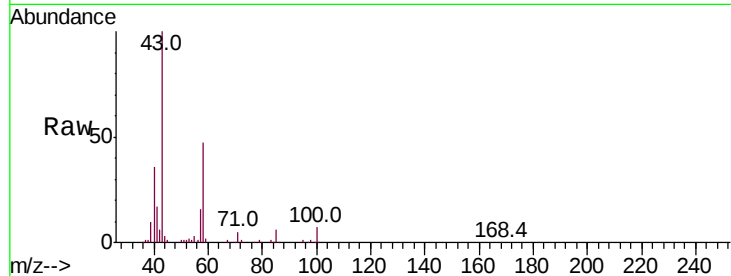
ClientSampleId :

VSTDIC001

Tot Ion:	43	Resp:	143955
Ion Ratio	Lower	Upper	
43	100		
58	47.7	38.0	57.0
98	0.4	0.1	0.1#

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#52

Tetrachloroethene

Concen: 1.075 ppbv

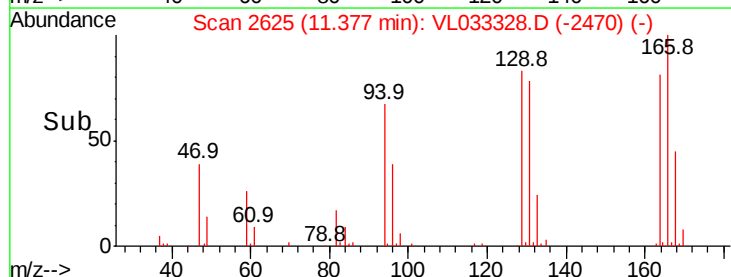
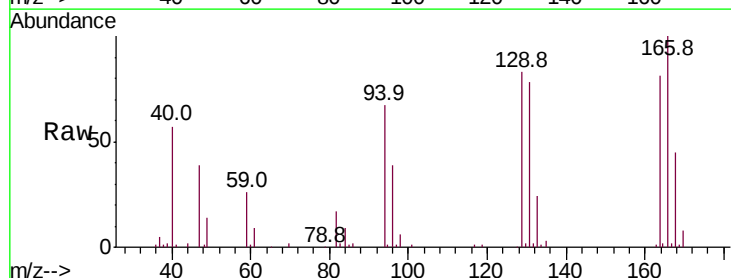
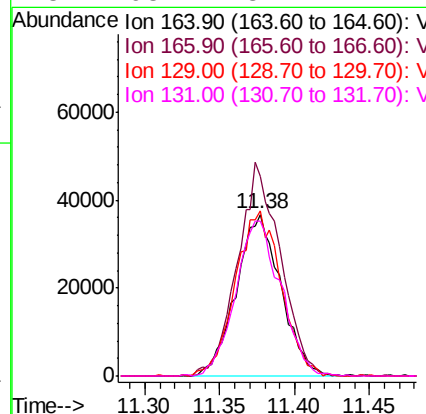
RT: 11.38 min Scan# 2625

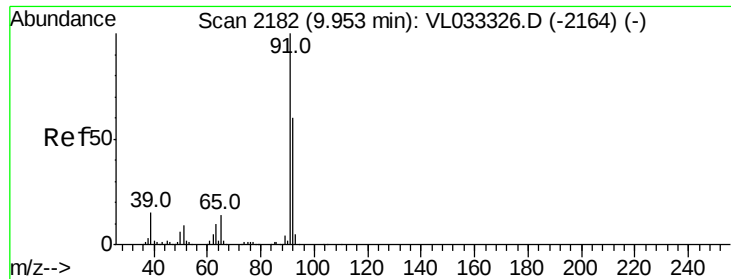
Delta R.T. -0.00 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Tgt Ion:	164	Resp:	76136
Ion Ratio	Lower	Upper	
164	100		
166	120.6	101.5	152.3
129	99.8	82.2	123.2
131	93.7	81.1	121.7





#53

Toluene

Concen: 1.012 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 202424

Ion Ratio Lower Upper

91 100

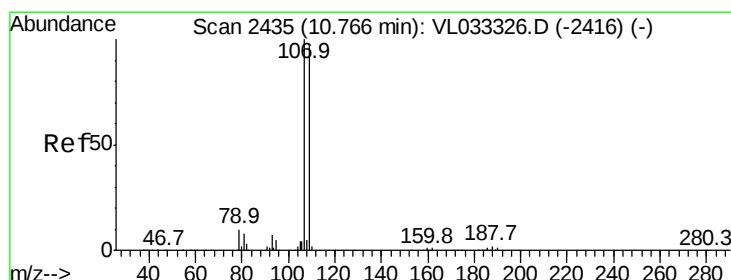
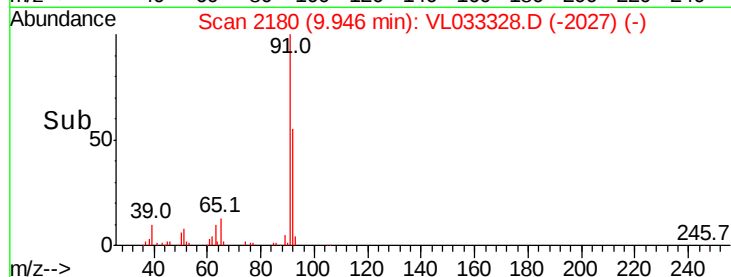
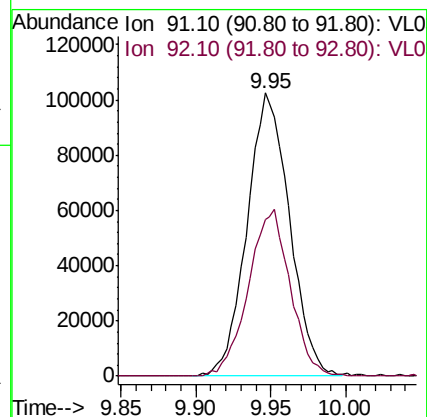
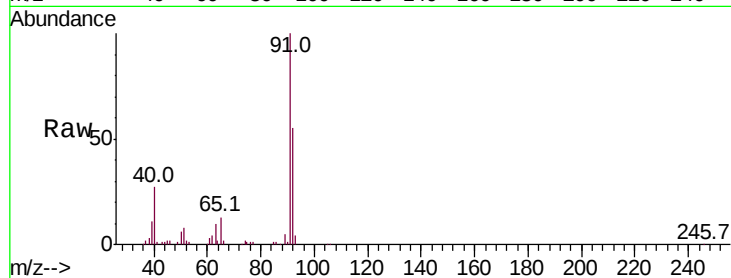
92 58.0 47.4 71.0

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#54

1,2-Dibromoethane

Concen: 1.090 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.01 min

Lab File: VL033328.D

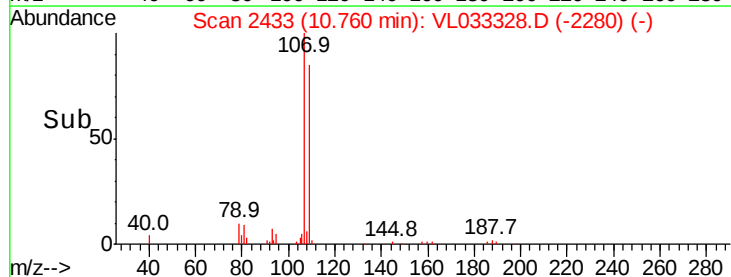
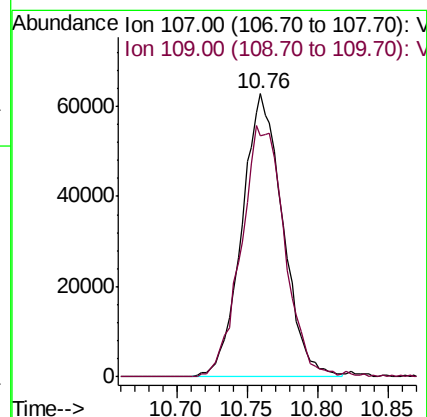
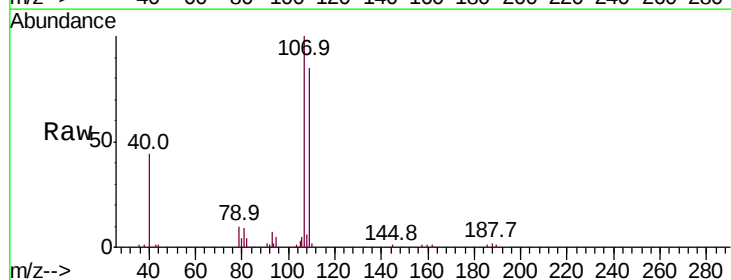
Acq: 15 Mar 2019 11:44

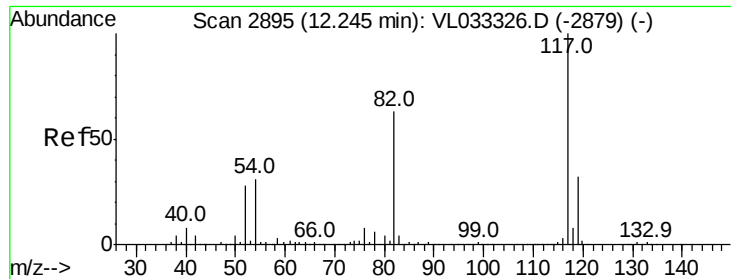
Tgt Ion: 107 Resp: 127542

Ion Ratio Lower Upper

107 100

109 85.1 77.2 115.8





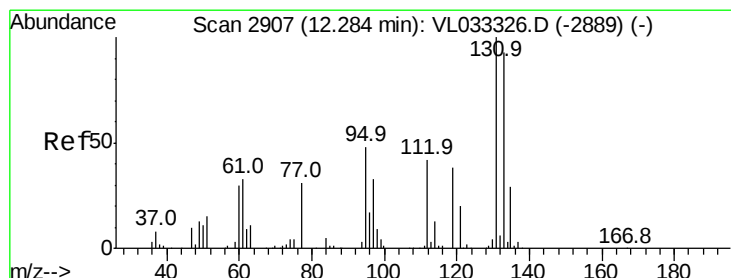
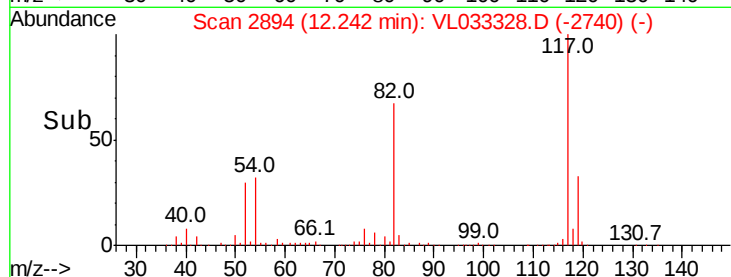
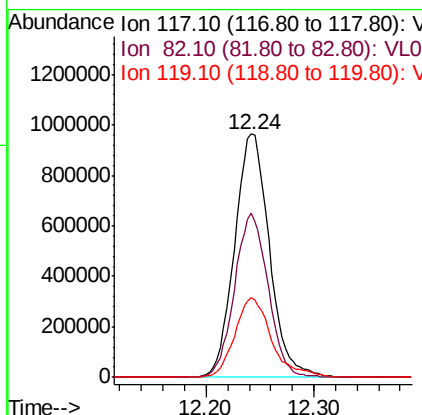
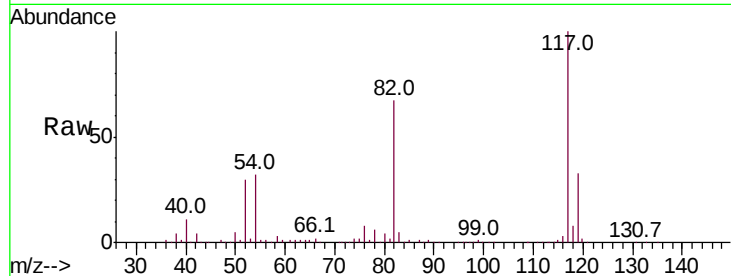
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion:117 Resp: 2174288
Ion Ratio Lower Upper
117 100
82 65.2 53.4 80.2
119 34.5 27.3 40.9

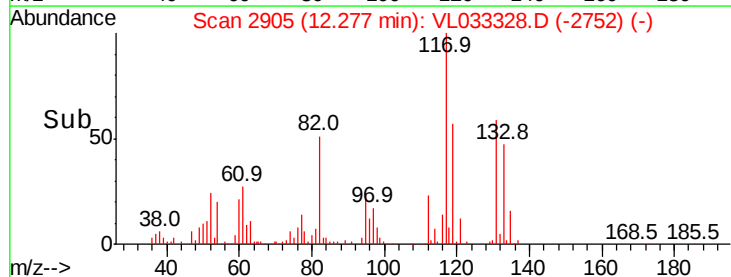
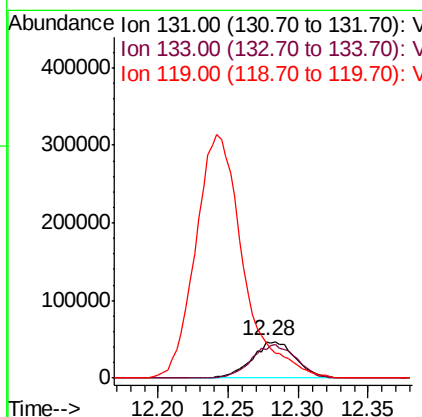
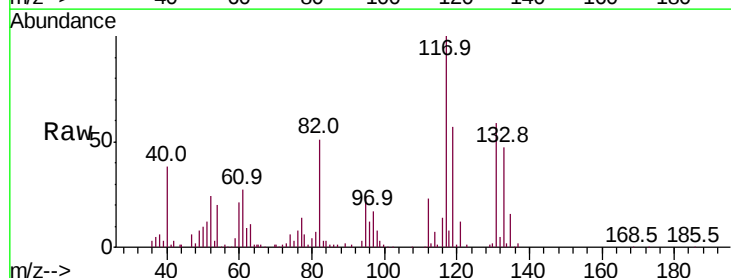
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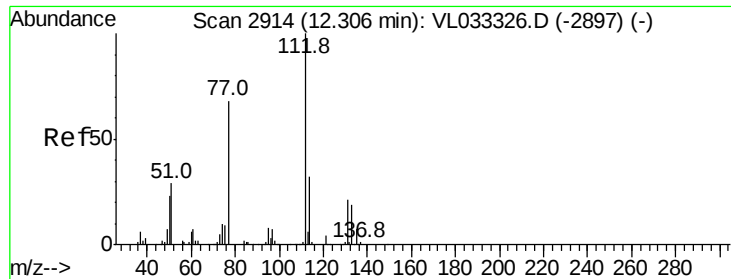
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#56
1,1,1,2-Tetrachloroethane
Concen: 1.054 ppbv m
RT: 12.28 min Scan# 2905
Delta R.T. -0.01 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Tgt Ion:131 Resp: 102788
Ion Ratio Lower Upper
131 100
133 93.8 76.7 115.1
119 0.0 40.3 60.5#





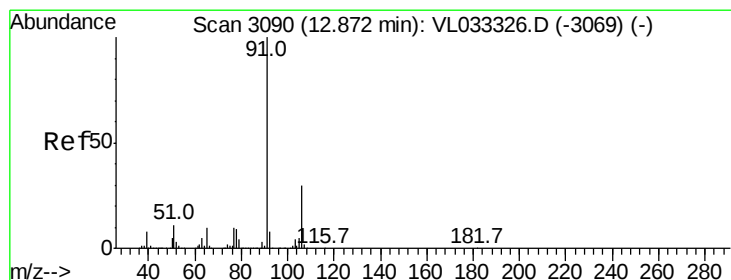
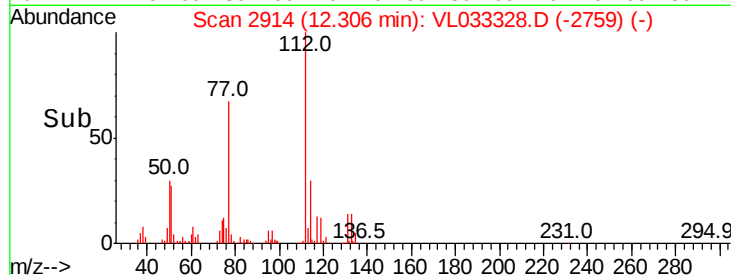
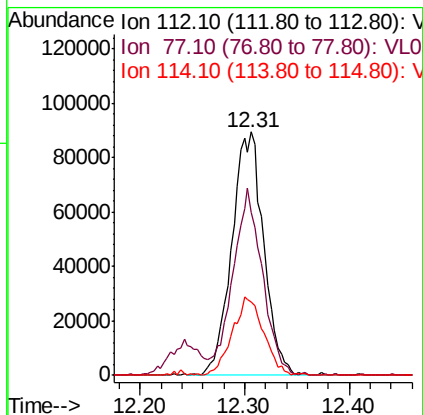
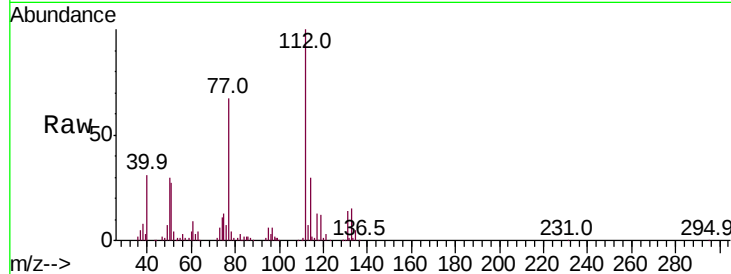
#57
Chlorobenzene
Concen: 1.095 ppbv m
RT: 12.31 min Scan# 2914
Delta R.T. -0.00 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
112	100	189051		
77	67.1	55.8	83.6	
114	30.4	28.6	35.0	

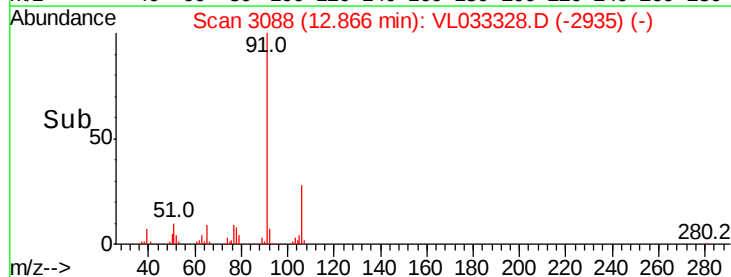
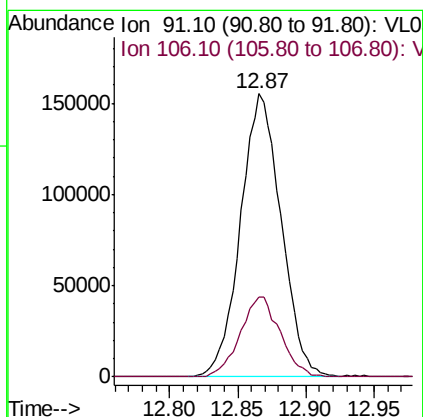
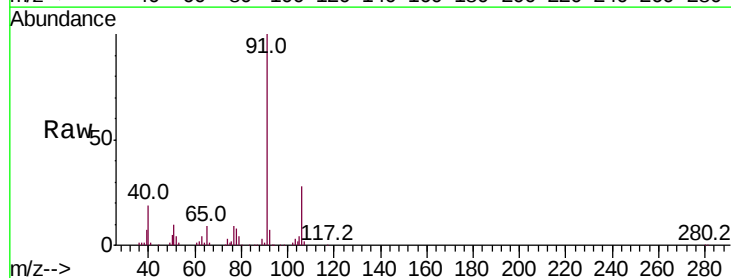
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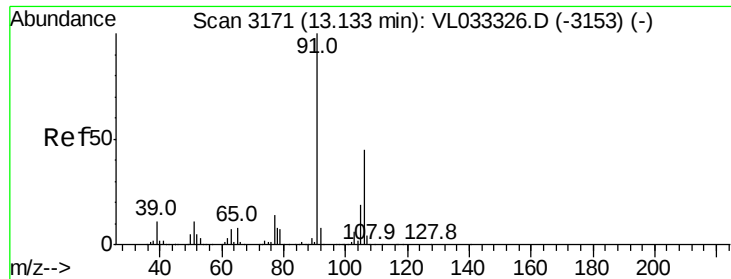
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#58
Ethyl Benzene
Concen: 1.041 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.01 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	320116		
106	28.2	24.2	36.2	





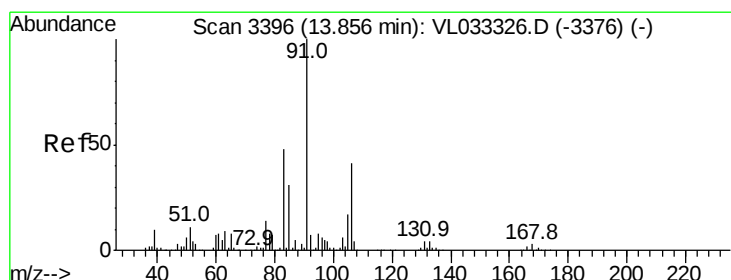
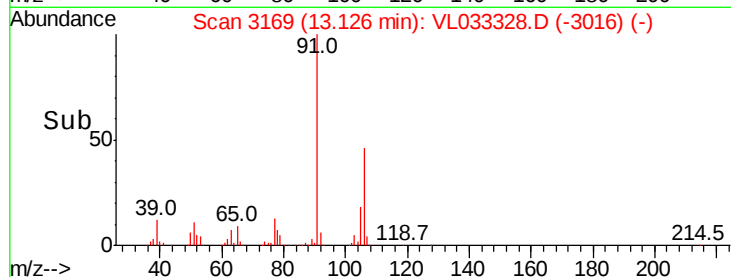
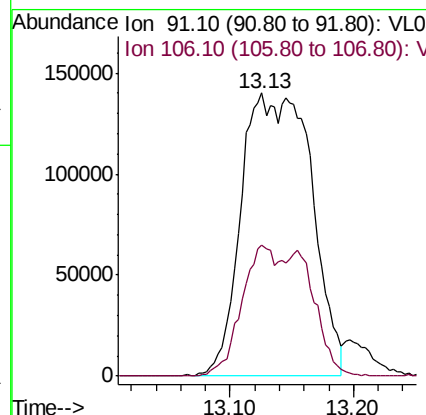
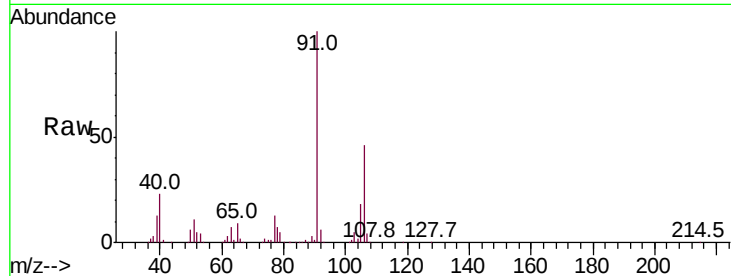
#59
m/p-Xylene
Concen: 2.104 ppbv m
RT: 13.13 min Scan# 3169
Delta R.T. -0.01 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 91 Resp: 551482
Ion Ratio Lower Upper
91 100
106 44.0 0.0 0.0#

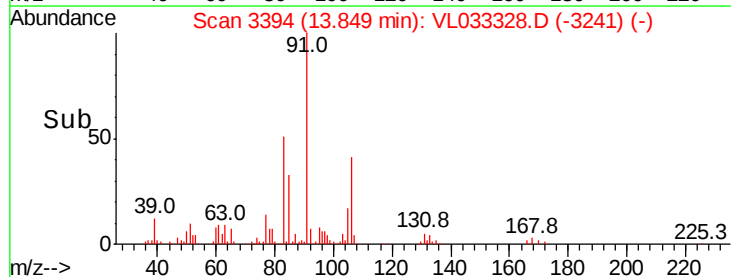
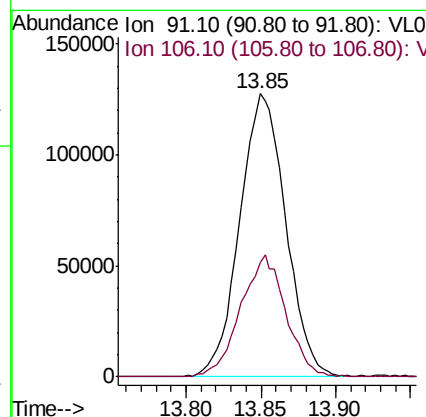
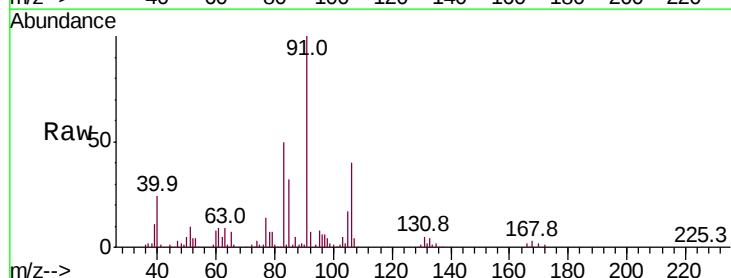
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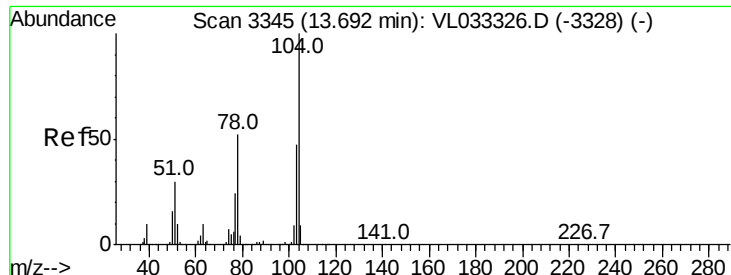
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#60
o-Xylene
Concen: 1.055 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Tgt Ion: 91 Resp: 270885
Ion Ratio Lower Upper
91 100
106 42.6 21.3 63.9





#61

Stvrene

Concen: 0.985 ppbv m

RT: 13.69 min Scan# 3343

Delta R.T. -0.01 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Instrument :

MSVOA_L

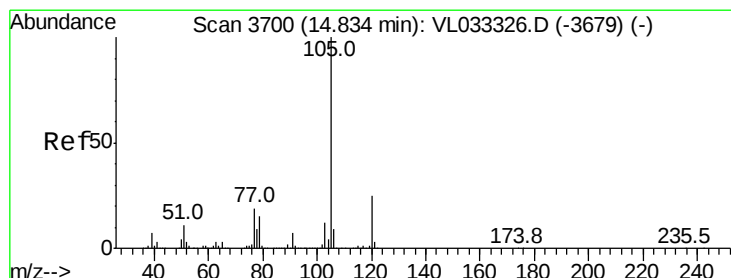
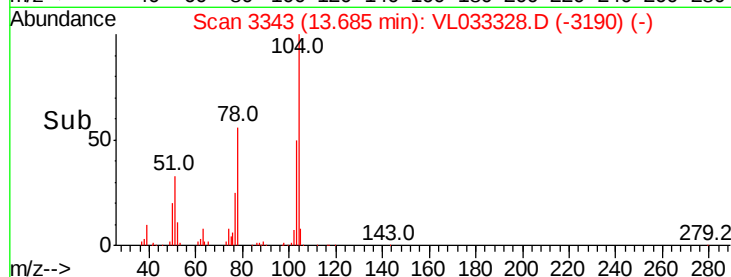
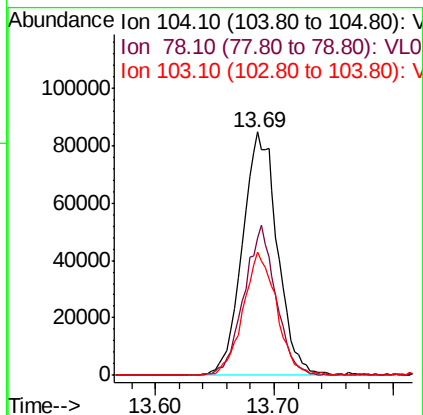
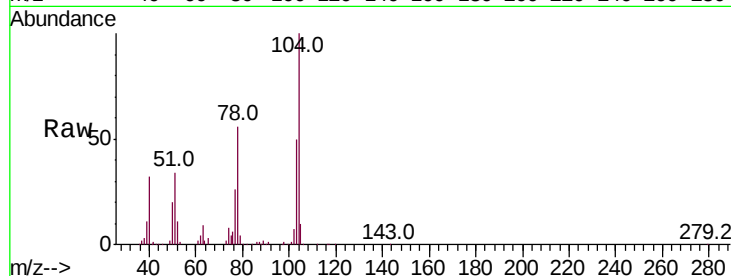
ClientSampleId :

VSTDIC001

Tot Ion:	104	Resp:	176603
Ion Ratio	Lower	Upper	
104	100		
78	56.5	42.7	64.1
103	48.7	38.0	57.0

Manual Integrations
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3/19/2019 10:02:18 AM



#62

Isopropylbenzene

Concen: 1.067 ppbv

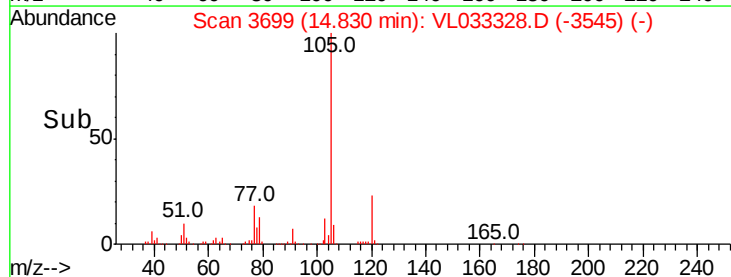
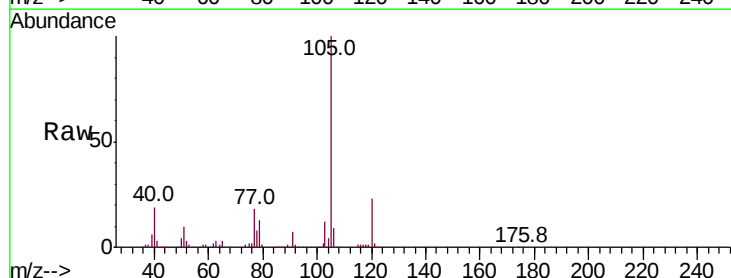
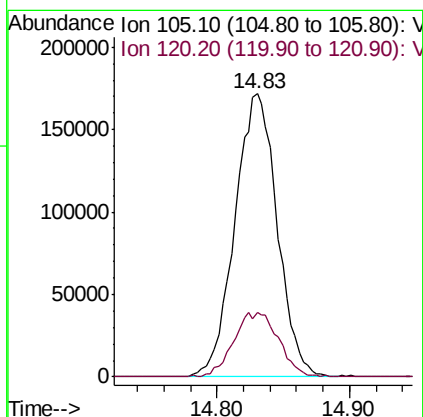
RT: 14.83 min Scan# 3699

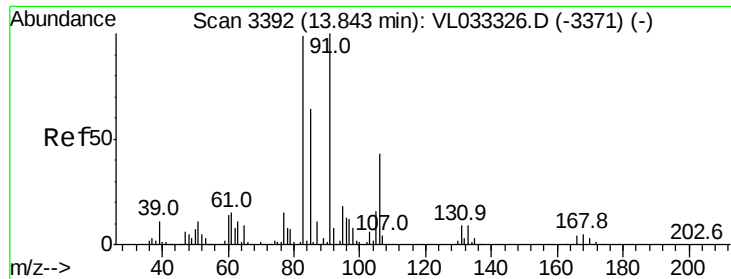
Delta R.T. -0.00 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Tgt Ion:	105	Resp:	378571
Ion Ratio	Lower	Upper	
105	100		
120	24.4	19.9	29.9





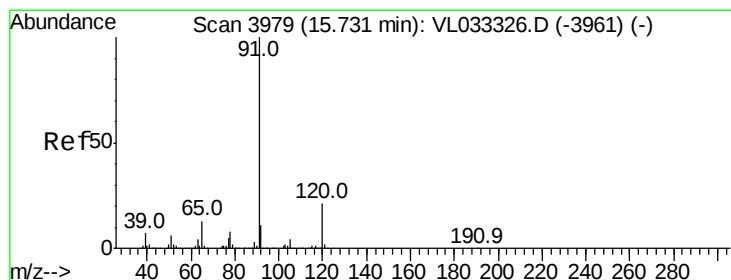
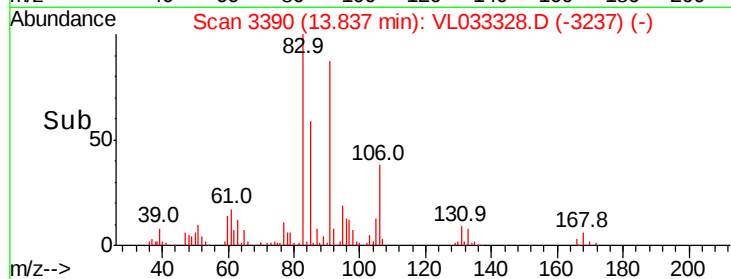
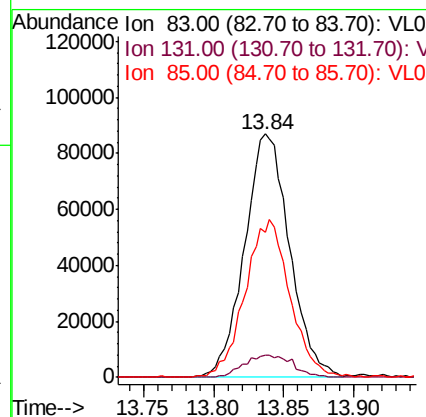
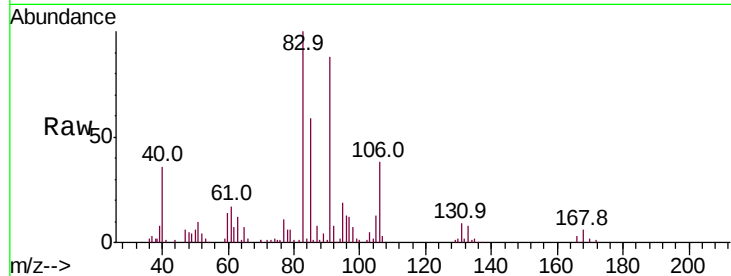
#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.000 ppbv
 RT: 13.84 min Scan# 3390
 Delta R.T. -0.01 min
 Lab File: VL033328.D
 Acq: 15 Mar 2019 11:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
83	100		
131	10.0	4.7	14.0
85	64.8	32.5	97.4

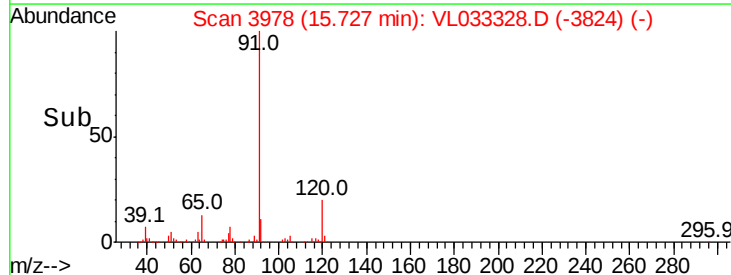
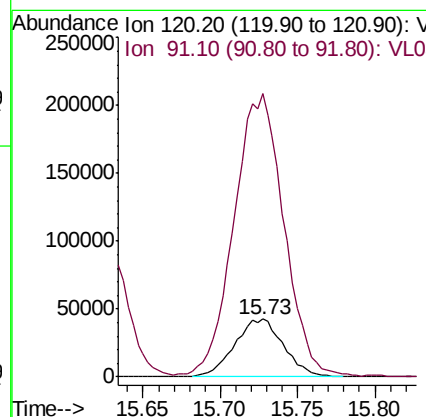
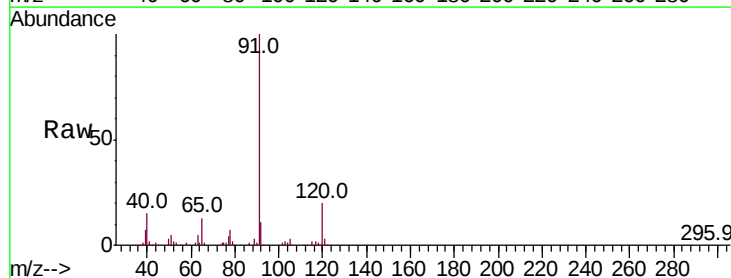
Manual Integrations
 APPROVED

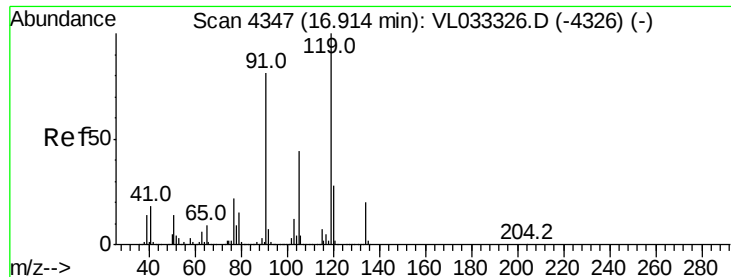
MMDadoda
 3/19/2019 10:02:18 AM



#64
 n-propylbenzene
 Concen: 1.039 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. -0.00 min
 Lab File: VL033328.D
 Acq: 15 Mar 2019 11:44

Tgt Ion	Ratio	Lower	Upper
120	100		
91	507.1	389.8	584.6





#65

tert-Butylbenzene

Concen: 1.052 ppbv

RT: 16.91 min Scan# 4345

Delta R.T. -0.01 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Instrument :

MSVOA_L

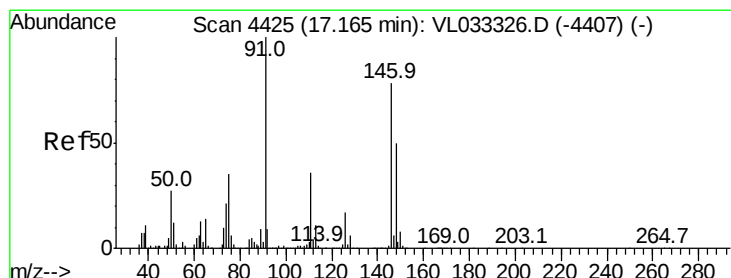
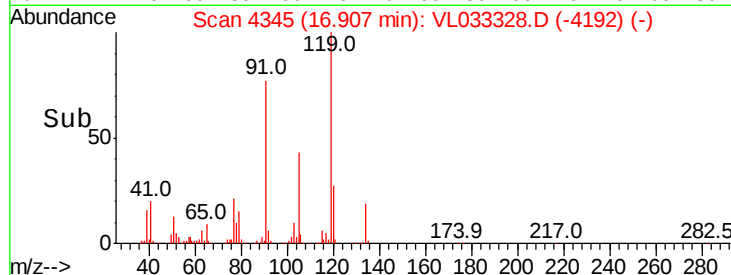
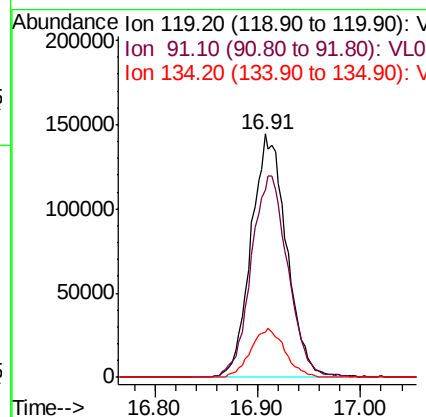
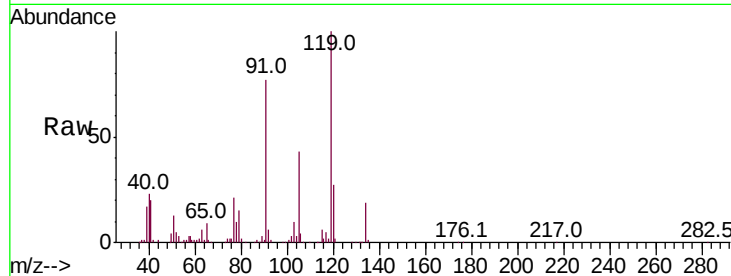
ClientSampleId :

VSTDIC001

Tot Ion:	119	Resp:	344068
Ion Ratio	Lower	Upper	
119	100		
91	0.0	67.2	100.8#
134	0.0	15.4	23.2#

Manual Integrations
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#66

Benzyl Chloride

Concen: 0.755 ppbv

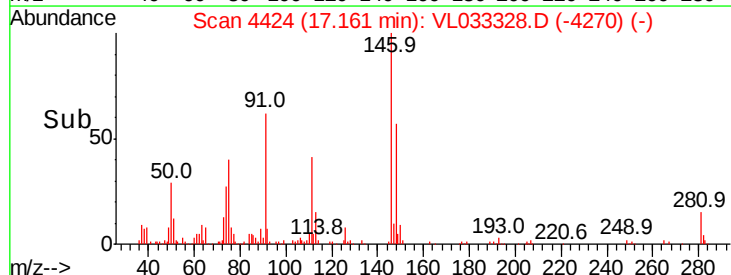
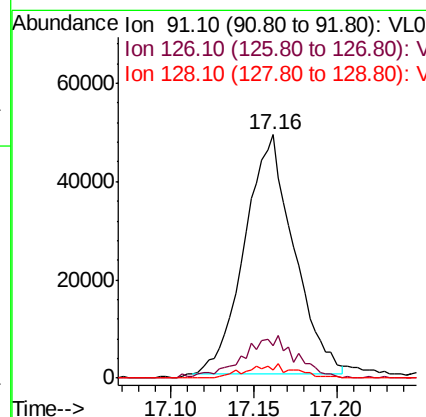
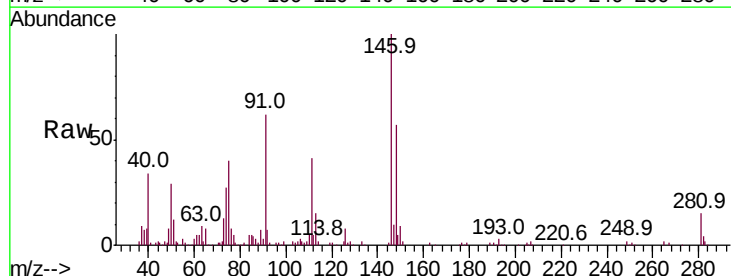
RT: 17.16 min Scan# 4424

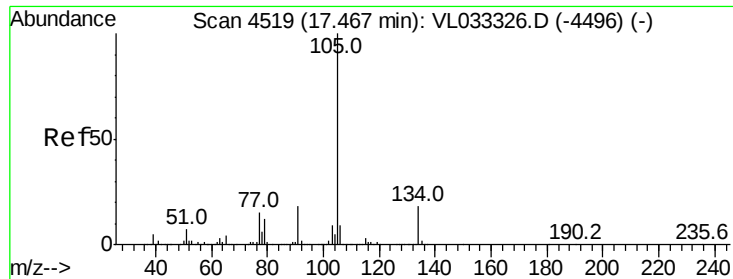
Delta R.T. -0.00 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Tgt Ion:	91	Resp:	100699
Ion Ratio	Lower	Upper	
91	100		
126	18.9	13.2	19.8
128	5.5	4.2	6.4





#67

sec-Butylbenzene

Concen: 1.035 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. -0.01 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 105 Resp: 483769

Ion Ratio Lower Upper

105 100

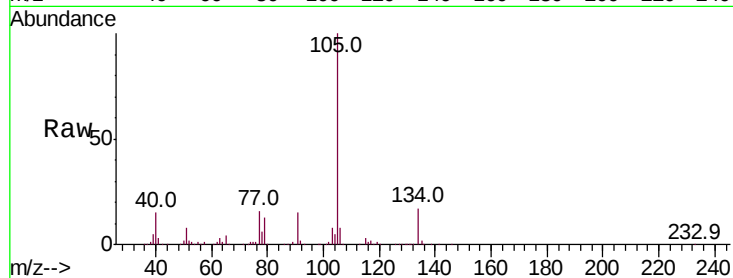
134 18.1 14.2 21.4

Manual Integrations

APPROVED

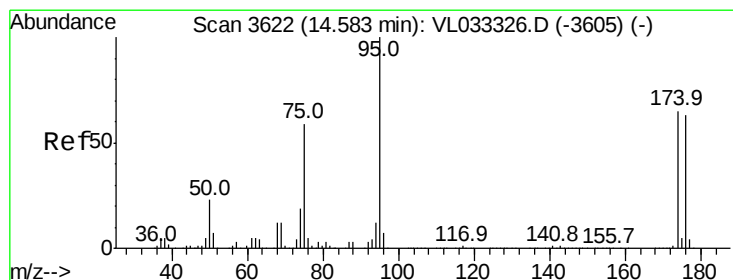
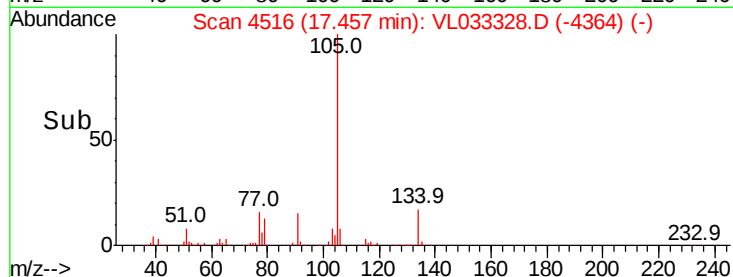
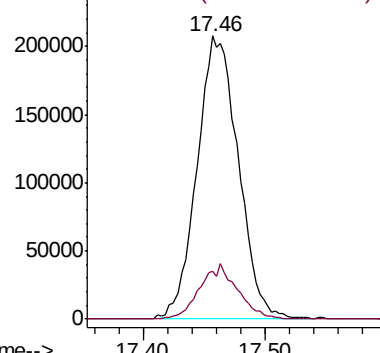
MMDadoda

3/19/2019 10:02:18 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.787 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

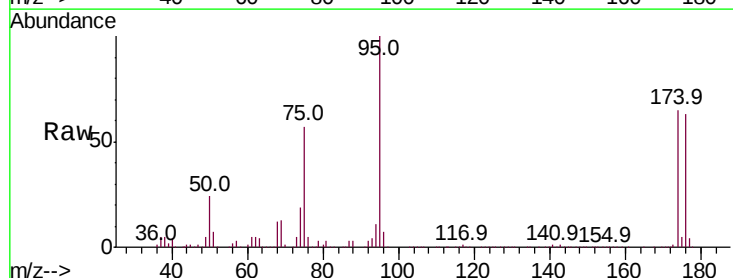
Tgt Ion: 95 Resp: 1617441

Ion Ratio Lower Upper

95 100

174 65.0 51.5 77.3

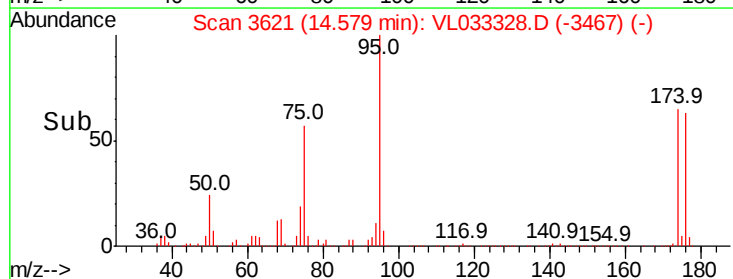
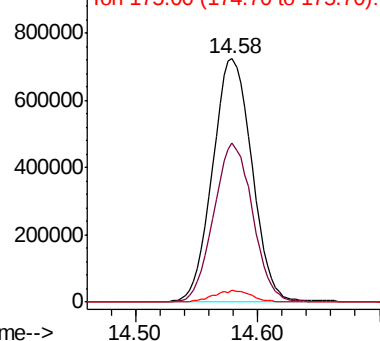
175 4.6 3.8 5.6

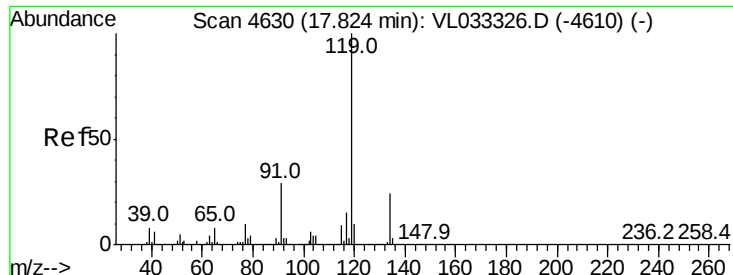


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





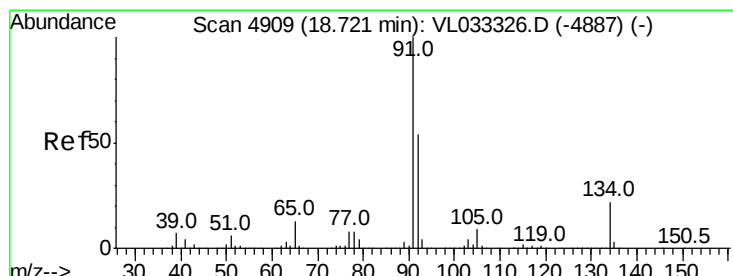
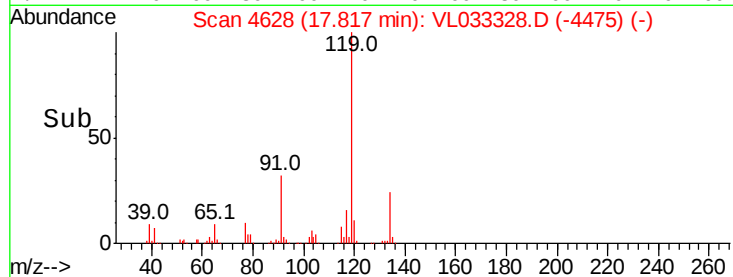
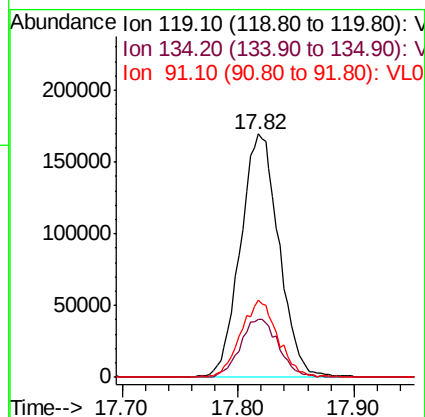
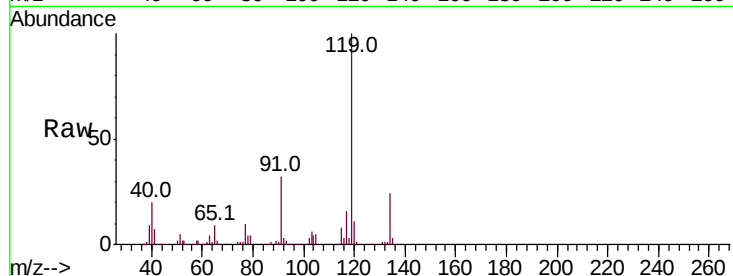
#69
 p-Isopropyltoluene
 Concen: 1.023 ppbv
 RT: 17.82 min Scan# 4628
 Delta R.T. -0.01 min
 Lab File: VL033328.D
 Acq: 15 Mar 2019 11:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
119	100	388975		
134	24.0		19.8	29.6
91	31.2		23.4	35.2

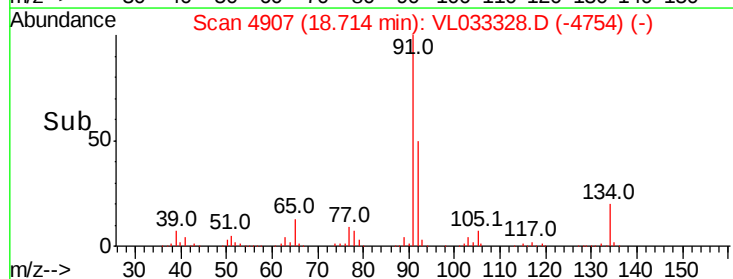
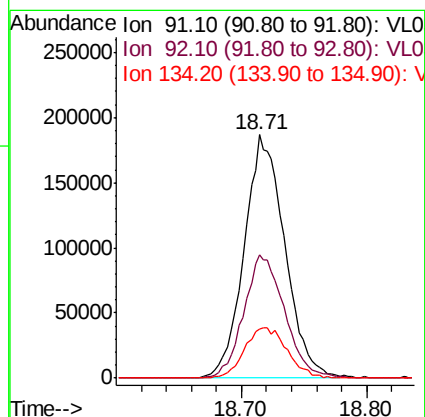
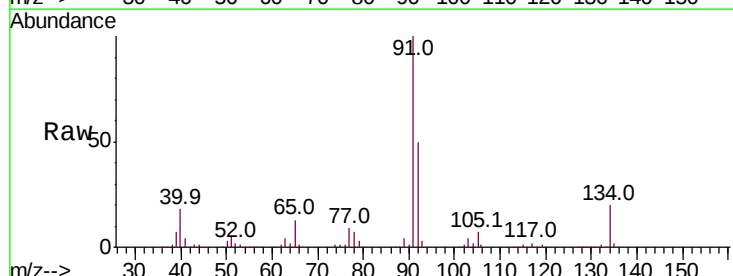
Manual Integrations
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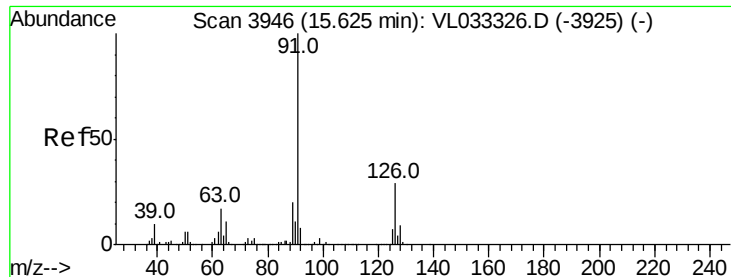
MMDadoda
 3/19/2019 10:02:18 AM



#70
 n-Butylbenzene
 Concen: 1.028 ppbv
 RT: 18.71 min Scan# 4907
 Delta R.T. -0.01 min
 Lab File: VL033328.D
 Acq: 15 Mar 2019 11:44

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	417587		
92	51.3		42.8	64.2
134	21.9		17.4	26.0





#71

2-Chlorotoluene

Concen: 1.041 ppbv

RT: 15.62 min Scan# 3945

Delta R.T. -0.00 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 293987

Ion Ratio Lower Upper

91 100

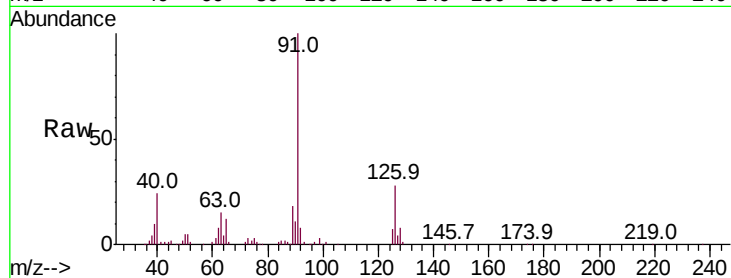
126 28.4 11.6 46.6

Manual Integrations

APPROVED

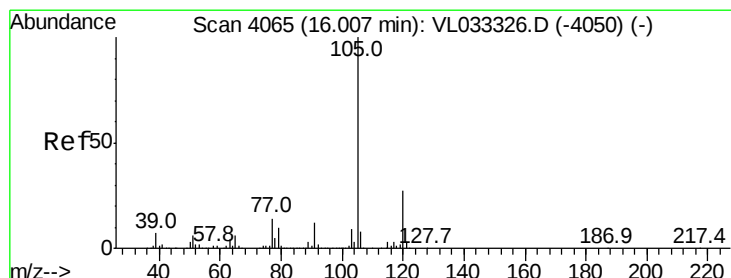
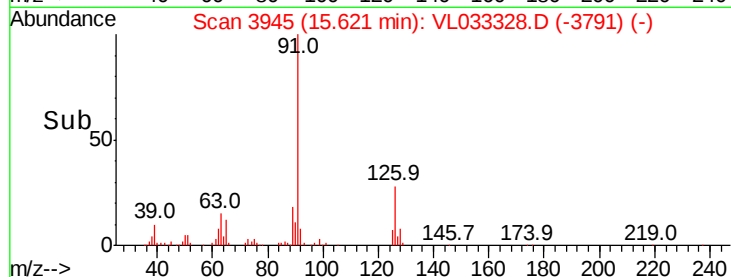
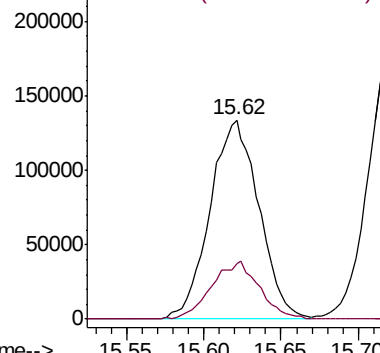
MMDadoda

3/19/2019 10:02:18 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 1.024 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.00 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Tgt Ion: 105 Resp: 299810

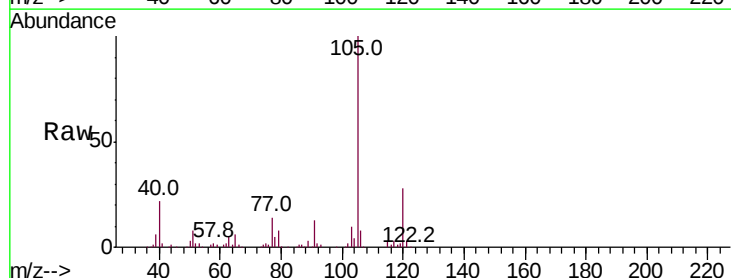
Ion Ratio Lower Upper

105 100

120 28.6 22.9 34.3

91 14.2 10.2 15.2

77 14.7 11.1 16.7

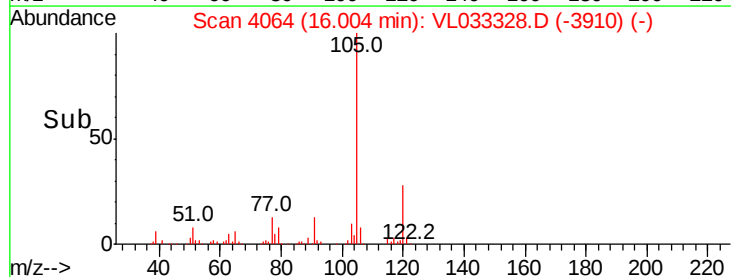
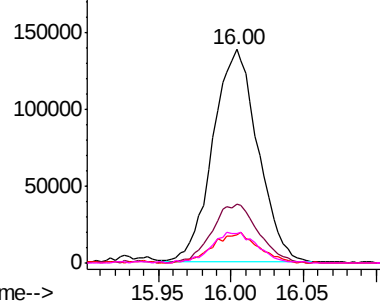


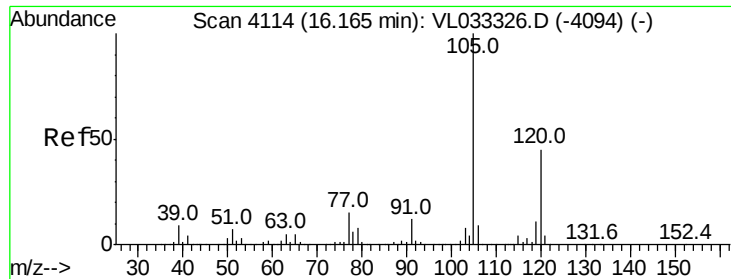
Abundance Ion 105.10 (104.80 to 105.80): V

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





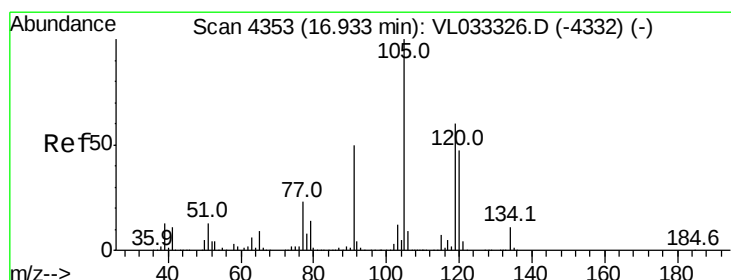
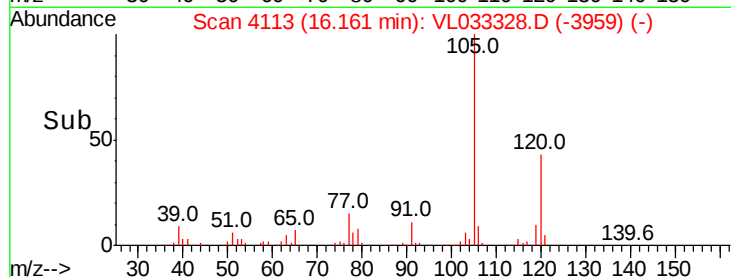
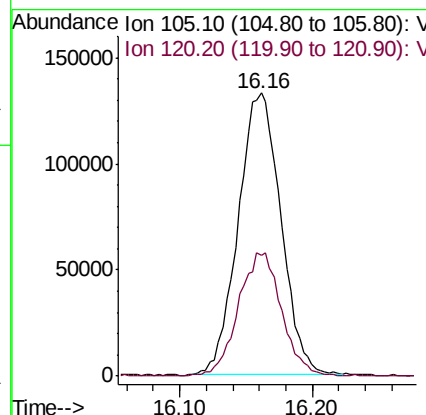
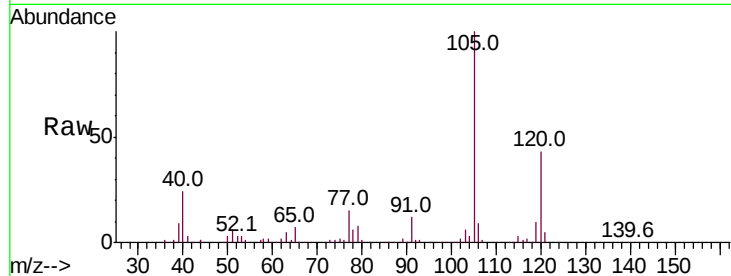
#73
 1,3,5-Trimethylbenzene
 Concen: 1.025 ppbv
 RT: 16.16 min Scan# 4113
 Delta R.T. -0.00 min
 Lab File: VL033328.D
 Acq: 15 Mar 2019 11:44

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC001

Tot Ion:105 Resp: 297270
 Ion Ratio Lower Upper
 105 100
 120 42.5 36.2 54.4

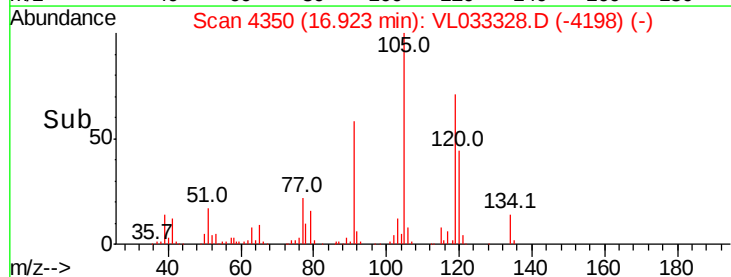
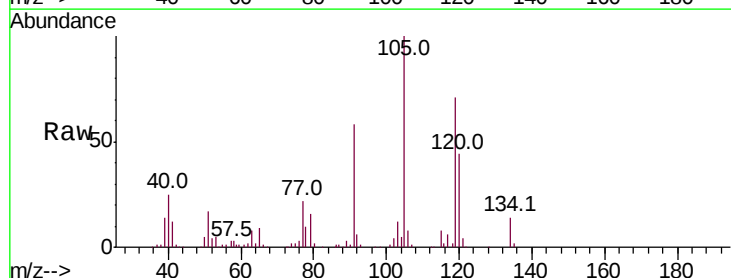
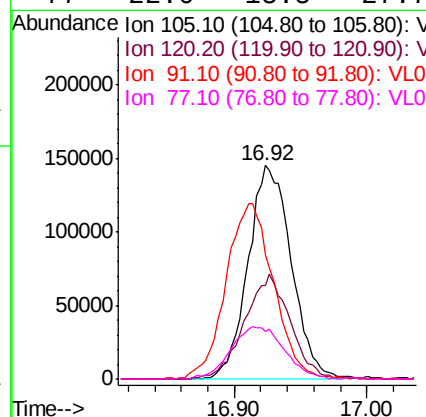
Manual Integrations
 APPROVED

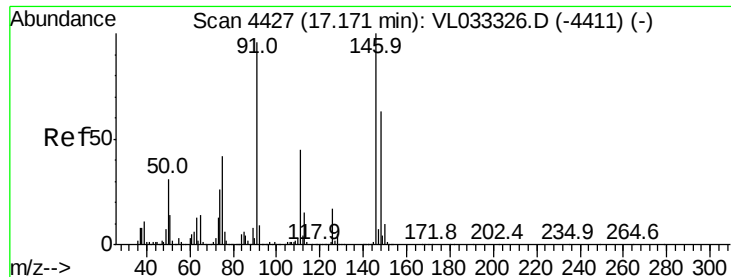
MMDadoda
 3/19/2019 10:02:18 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 1.073 ppbv
 RT: 16.92 min Scan# 4350
 Delta R.T. -0.01 min
 Lab File: VL033328.D
 Acq: 15 Mar 2019 11:44

Tgt Ion:105 Resp: 327571
 Ion Ratio Lower Upper
 105 100
 120 43.2 37.4 56.2
 91 57.8 41.0 61.4
 77 22.0 18.5 27.7





#75

1,3-Dichlorobenzene

Concen: 1.055 ppbv m

RT: 17.16 min Scan# 4425

Delta R.T. -0.01 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Instrument :

MSVOA_L

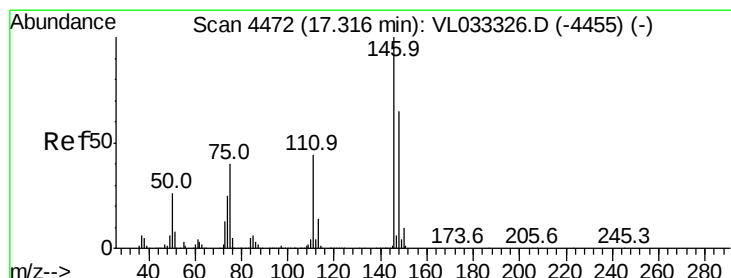
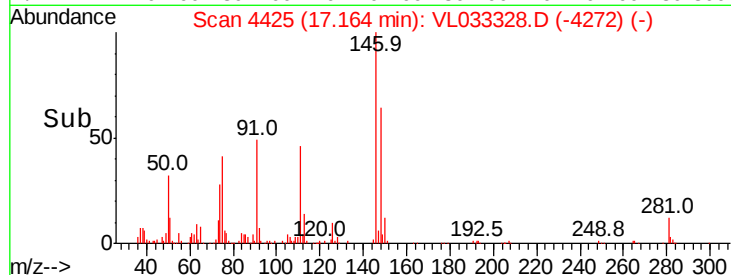
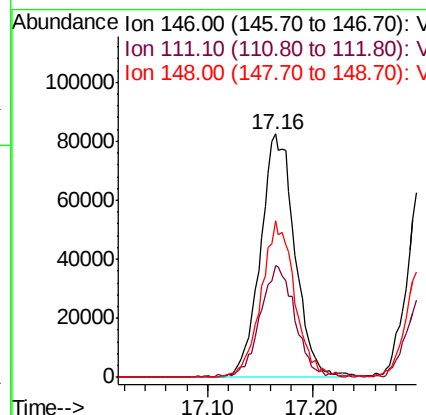
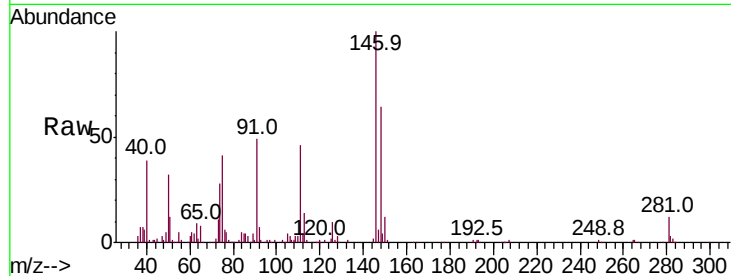
ClientSampleId :

VSTDIC001

Tot Ion:	146	Resp:	187342
Ion Ratio	Lower	Upper	
146	100		
111	47.0	22.8	68.3
148	63.0	31.9	95.7

Manual Integrations
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MMDadoda
3/19/2019 10:02:18 AM



#76

1,4-Dichlorobenzene

Concen: 1.038 ppbv m

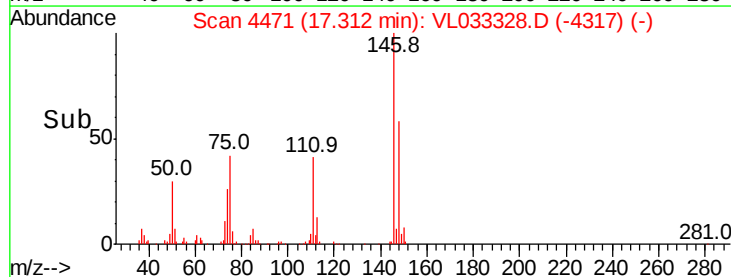
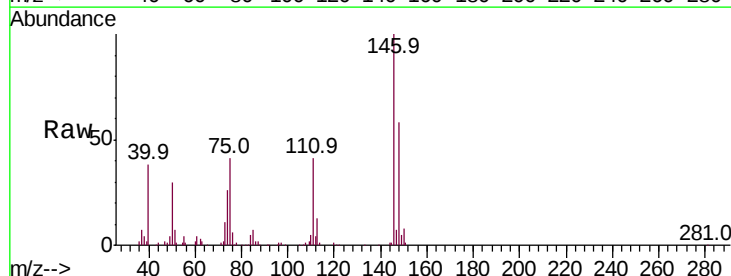
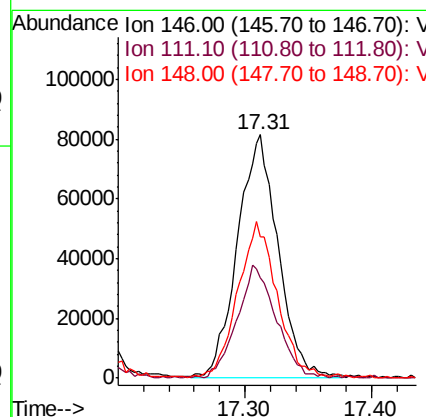
RT: 17.31 min Scan# 4471

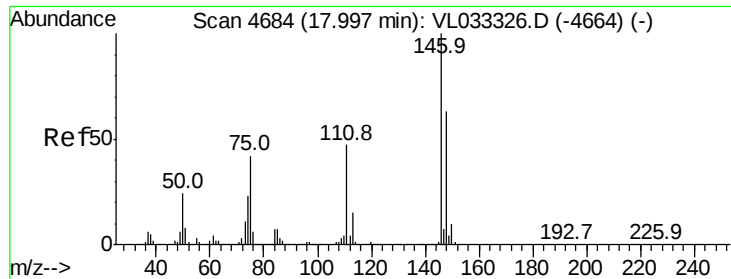
Delta R.T. -0.00 min

Lab File: VL033328.D

Acq: 15 Mar 2019 11:44

Tgt Ion:	146	Resp:	181439
Ion Ratio	Lower	Upper	
146	100		
111	45.0	21.9	65.7
148	63.3	32.1	96.5





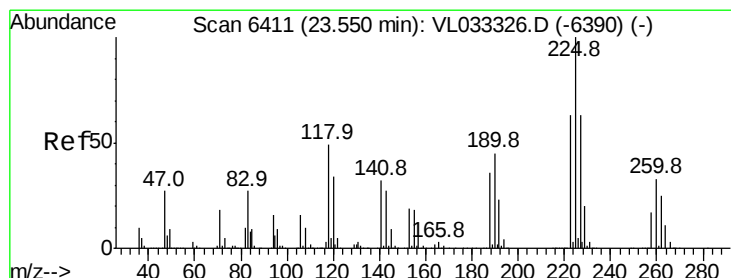
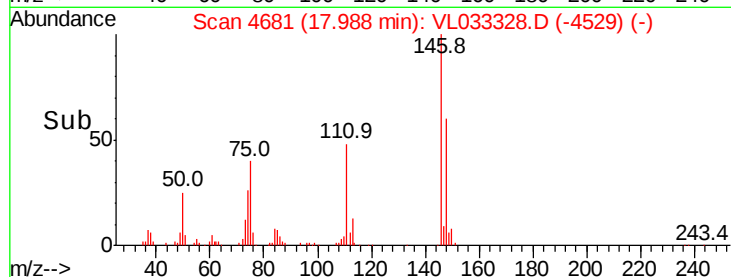
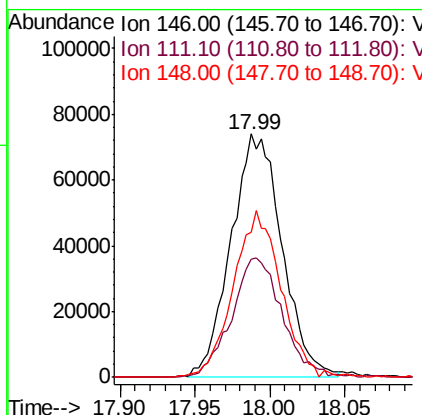
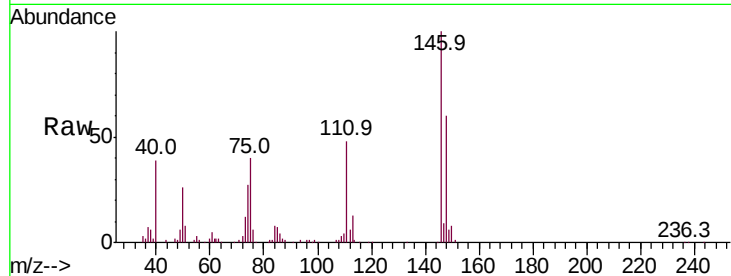
#77
 1,2-Dichlorobenzene
 Concen: 1.023 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. -0.01 min
 Lab File: VL033328.D
 Acq: 15 Mar 2019 11:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.1	23.5	70.6
148	63.8	31.9	95.9

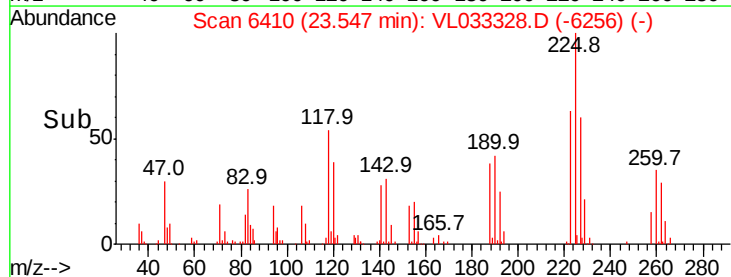
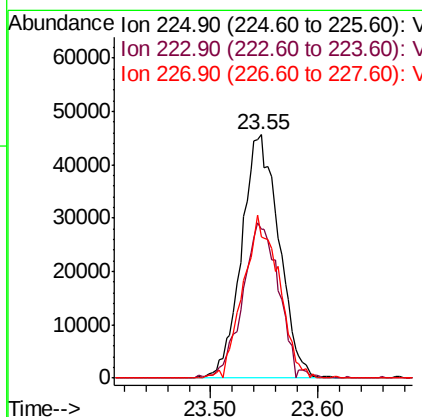
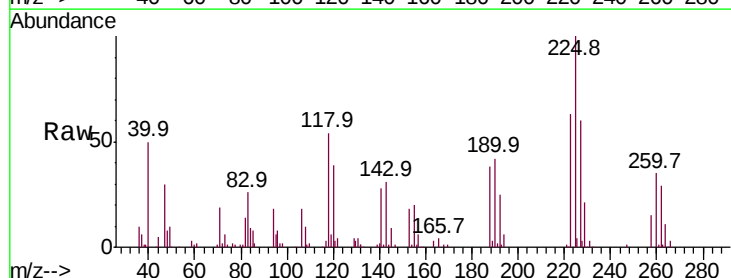
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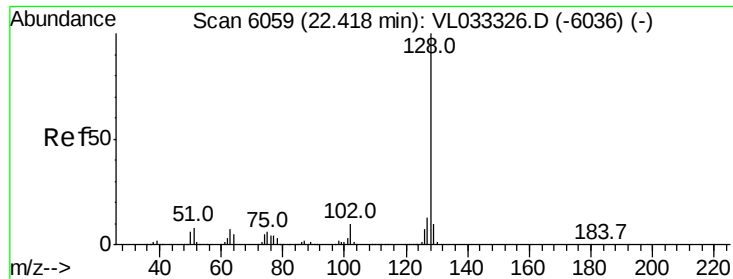
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#78
 Hexachloro-1,3-Butadiene
 Concen: 1.066 ppbv m
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.00 min
 Lab File: VL033328.D
 Acq: 15 Mar 2019 11:44

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.7	50.4	75.6
227	63.5	50.5	75.7





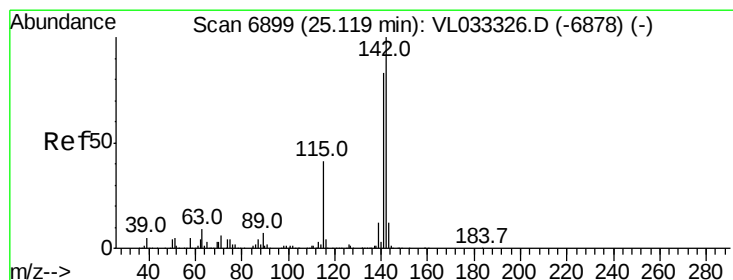
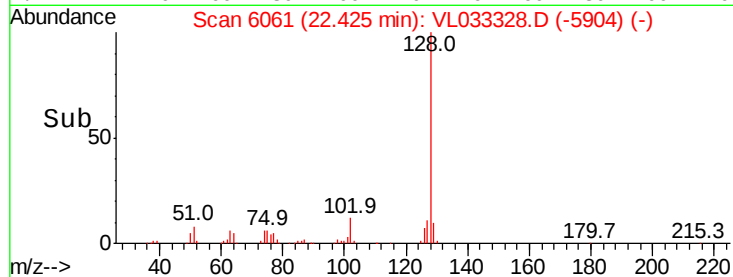
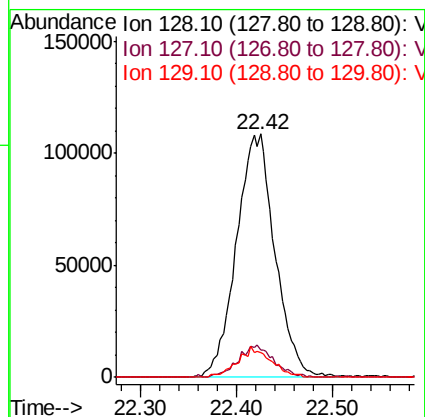
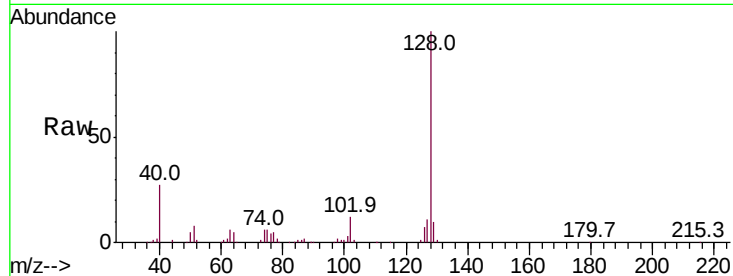
#79
Naphthalene
Concen: 1.015 ppbv m
RT: 22.42 min Scan# 6061
Delta R.T. 0.01 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
128	100	302705		
127	11.2		10.1	15.1
129	10.0		8.2	12.2

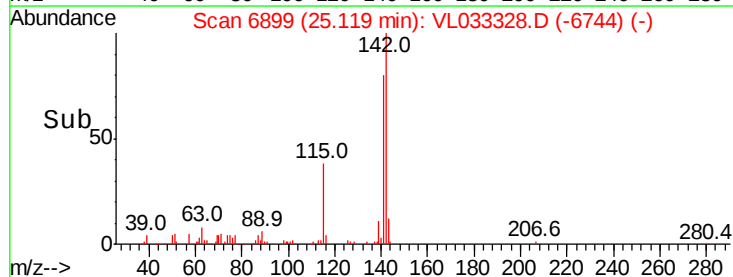
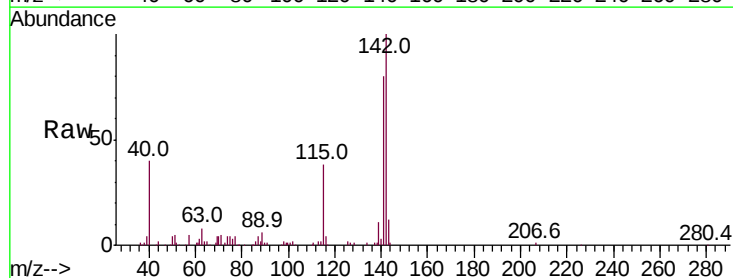
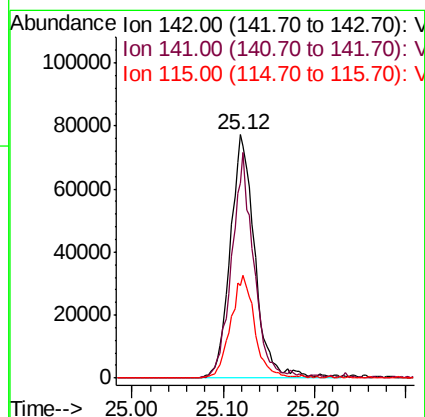
Manual Integrations
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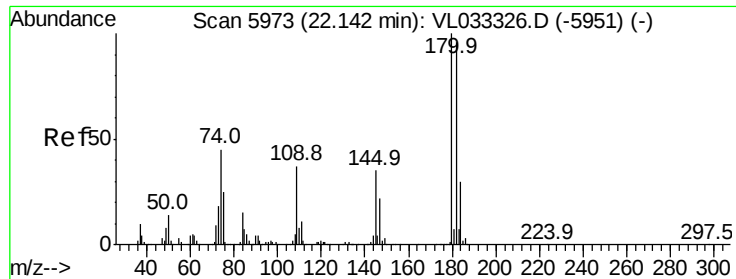
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#80
Naphthalene, 2-methyl-
Concen: 1.011 ppbv
RT: 25.12 min Scan# 6899
Delta R.T. -0.00 min
Lab File: VL033328.D
Acq: 15 Mar 2019 11:44

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	145399		
141	84.5		67.1	100.7
115	41.4		33.8	50.6





#81
 1,2,4-Trichlorobenzene
 Concen: 1.006 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.00 min
 Lab File: VL033328.D
 Acq: 15 Mar 2019 11:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
180	100	155566		
182	96.5		76.1	114.1
184	31.0		24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 10:02:18 AM

