

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033327.D
 Acq On : 15 Mar 2019 11:06
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 10:02:15 AM

Quant Time: Mar 15 13:20:10 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	888185	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2068748	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2277876	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1635456	9.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	252879	1.573	ppbv	95
3) Chlorodifluoromethane	3.02	51	209776	2.064	ppbv	99
4) Chloromethane	3.17	50	115370	2.088	ppbv	98
5) Vinyl Chloride	3.29	62	108284	1.932	ppbv	95
6) Bromomethane	3.52	94	68202	2.006	ppbv	100
7) Chloroethane	3.60	64	40894	2.034	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	273992	1.999	ppbv	100
9) Propene	3.04	41	95650	2.099	ppbv	99
10) Heptane	8.25	43	237130	2.061	ppbv	100
11) Trichlorofluoromethane	4.01	101	311242	2.038	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	211089	2.110	ppbv	98
13) Ethanol	3.65	45	49703	3.136	ppbv	99
14) Bromoethene	3.79	108	86663	2.048	ppbv	98
15) Acetone	3.90	43	331522	2.438	ppbv	98
16) 1,3-Butadiene	3.36	39	94617	1.982	ppbv	94
17) tert-Butyl alcohol	4.36	59	33298m	1.717	ppbv	
18) 1,1-Dichloroethene	4.35	96	95105	2.147	ppbv	93
19) Isopropyl Alcohol	4.03	45	109898	1.611	ppbv #	1
20) Methylene Chloride	4.41	84	96127	2.207	ppbv	95
21) Allyl Chloride	4.48	41	136879	2.035	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	93673	2.128	ppbv	97
23) Vinyl Acetate	5.16	43	333197	2.098	ppbv	98
24) 1,1-Dichloroethane	5.09	63	239196	2.114	ppbv	98
25) Ethyl Acetate	5.77	43	419169	2.130	ppbv	99
26) Hexane	5.79	57	193744	2.151	ppbv	96
27) Carbon Disulfide	4.62	76	210121	2.068	ppbv	98
28) Methyl tert-Butyl Ether	5.12	73	278717	2.149	ppbv	99
29) Chloroform	5.85	83	302547	2.061	ppbv	98
30) Cyclohexane	7.25	84	145157	2.036	ppbv #	85
31) cis-1,2-Dichloroethene	5.64	61	183299	2.054	ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	297864	2.044	ppbv	99
34) 2-Butanone	5.33	43	293687	2.238	ppbv	97
35) Carbon Tetrachloride	7.14	117	301459	2.019	ppbv	99
36) Benzene	7.01	78	380058	2.055	ppbv	98
37) 1,2-Dichloroethane	6.42	62	239254	2.075	ppbv	100
38) Trichloroethene	7.97	130	140181	1.926	ppbv	97
39) 1,2-Dichloropropane	7.74	63	138822	1.973	ppbv	89
40) 1,4-Dioxane	7.98	88	45266	1.756	ppbv	77
41) Tetrahydrofuran	6.16	42	147206	2.023	ppbv	99
42) Bromodichloromethane	7.92	83	318595	2.028	ppbv	95
43) Methyl Methacrylate	8.14	69	147300	2.043	ppbv	99

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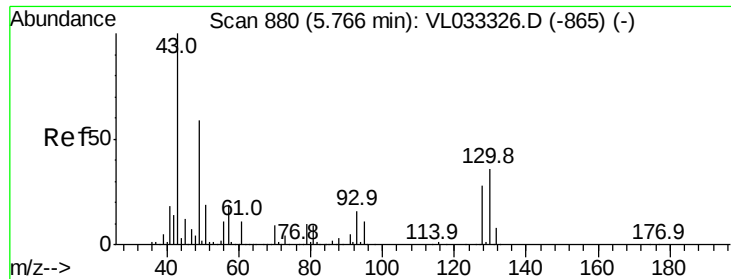
Manual Integrations
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Quant Time: Mar 15 13:20:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 2019
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	648542	2.091	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	178027	2.016	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	210339	2.027	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	154947	2.047	ppbv	97
48) Dibromochloromethane	10.45	129	258466	1.998	ppbv	100
49) Bromoform	13.20	173	241930	2.066	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	403688	2.103	ppbv	98
51) 2-Hexanone	10.28	43	315831	2.066	ppbv #	100
52) Tetrachloroethene	11.38	164	155399	2.080	ppbv	95
53) Toluene	9.95	91	431810	2.047	ppbv	99
54) 1,2-Dibromoethane	10.76	107	261656	2.121	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	212918	2.083	ppbv #	1
57) Chlorobenzene	12.30	112	368182	2.035	ppbv	95
58) Ethyl Benzene	12.87	91	671012	2.082	ppbv	97
59) m/p-Xylene	13.15	91	1170130m	4.262	ppbv	
60) o-Xylene	13.85	91	567510	2.110	ppbv	100
61) Styrene	13.69	104	398903	2.124	ppbv	99
62) Isopropylbenzene	14.83	105	779148	2.096	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	396828	1.952	ppbv	100
64) n-propylbenzene	15.72	120	199821	2.130	ppbv	98
65) tert-Butylbenzene	16.91	119	724028	2.114	ppbv	99
66) Benzyl Chloride	17.16	91	273386	1.956	ppbv	99
67) sec-Butylbenzene	17.46	105	1004563	2.052	ppbv	100
69) p-Isopropyltoluene	17.82	119	835823	2.098	ppbv	99
70) n-Butylbenzene	18.72	91	888630	2.088	ppbv	99
71) 2-Chlorotoluene	15.62	91	611525	2.066	ppbv	99
72) 4-Ethyltoluene	16.00	105	647889	2.111	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	635126	2.090	ppbv	94
74) 1,2,4-Trimethylbenzene	16.93	105	669687	2.094	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	385207	2.071	ppbv	98
76) 1,4-Dichlorobenzene	17.31	146	378361	2.065	ppbv	98
77) 1,2-Dichlorobenzene	17.99	146	368017	2.044	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	220765	2.038	ppbv	99
79) Naphthalene	22.42	128	668569	2.140	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	353057	2.344	ppbv	97
81) 1,2,4-Trichlorobenzene	22.14	180	343421	2.120	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

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MSVOA_L

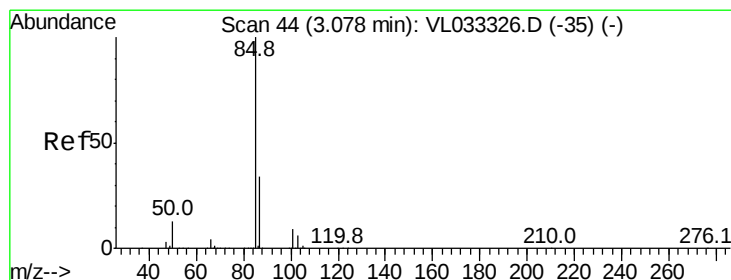
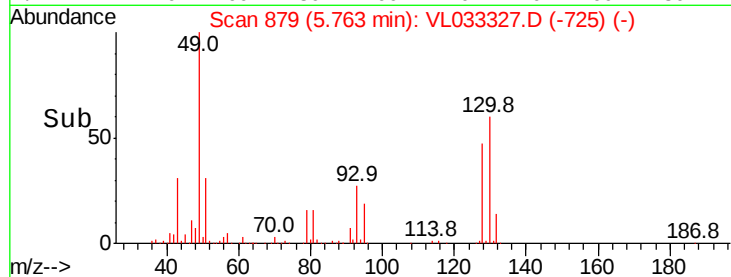
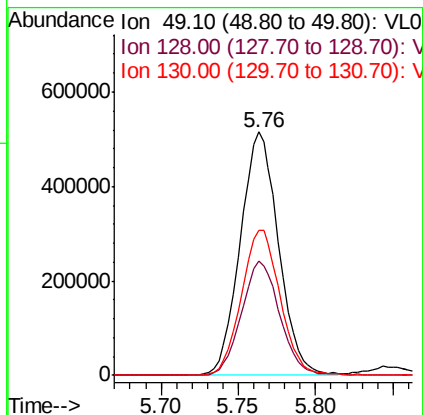
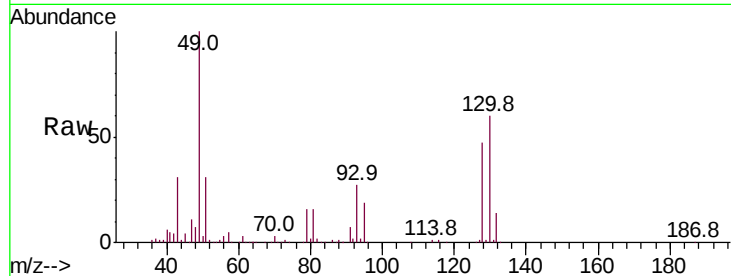
ClientSampleId :

VSTDIC002

Tot Ion:	49	Resp:	888185
Ion Ratio	Lower	Upper	
49	100		
128	46.8	23.5	70.6
130	60.7	30.1	90.3

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#2

Dichlorodifluoromethane

Concen: 1.573 ppbv

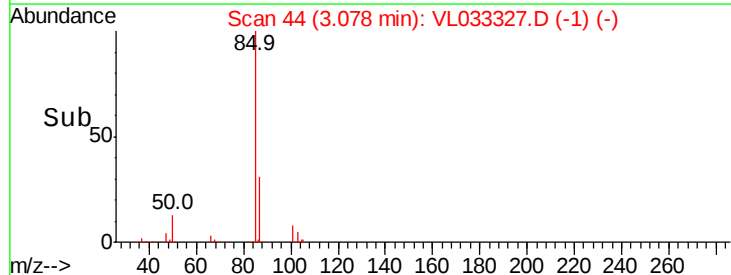
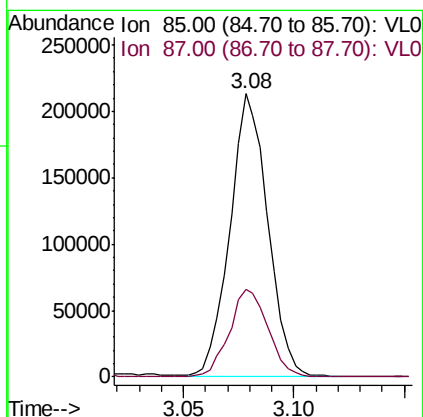
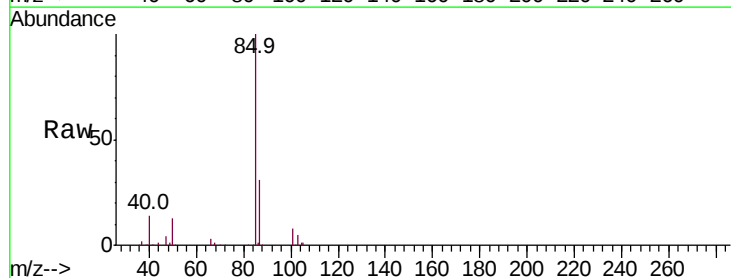
RT: 3.08 min Scan# 44

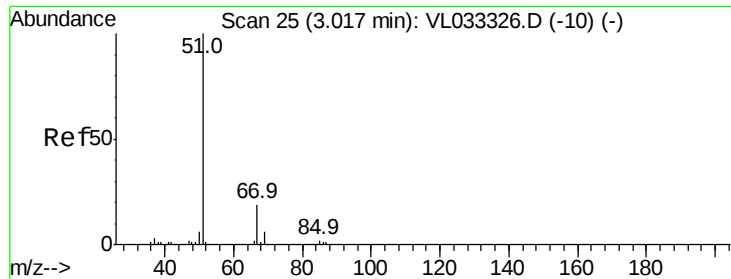
Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Tgt Ion:	85	Resp:	252879
Ion Ratio	Lower	Upper	
85	100		
87	30.9	26.9	40.3





#3

Chlorodifluoromethane

Concen: 2.064 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 51 Resp: 209776

Ion Ratio Lower Upper

51 100

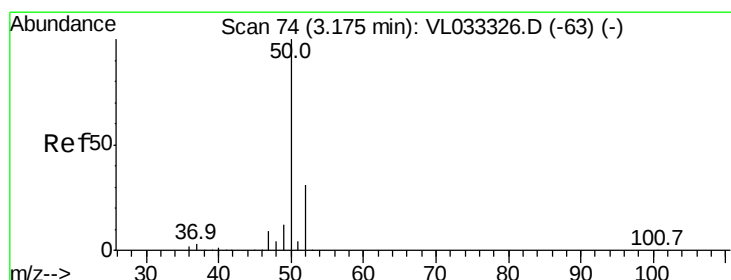
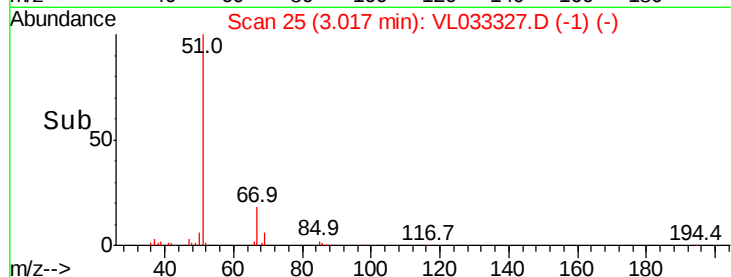
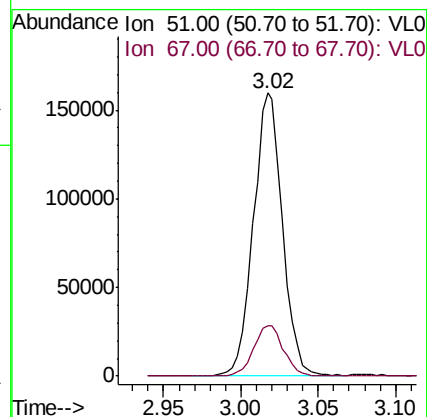
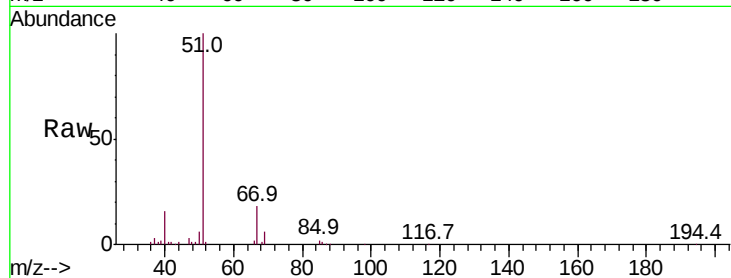
67 18.3 14.9 22.3

Manual Integrations

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#4

Chloromethane

Concen: 2.088 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL033327.D

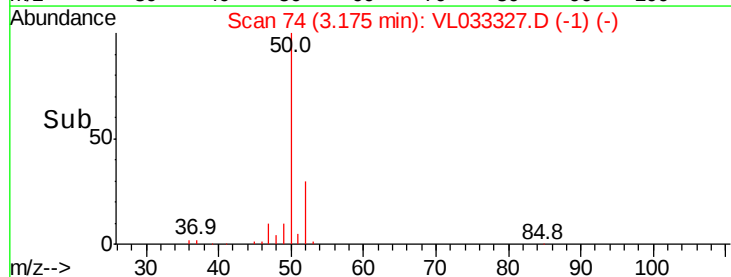
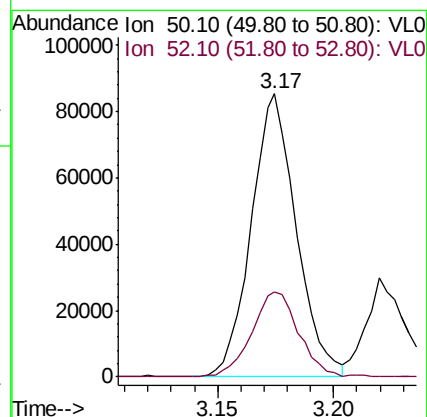
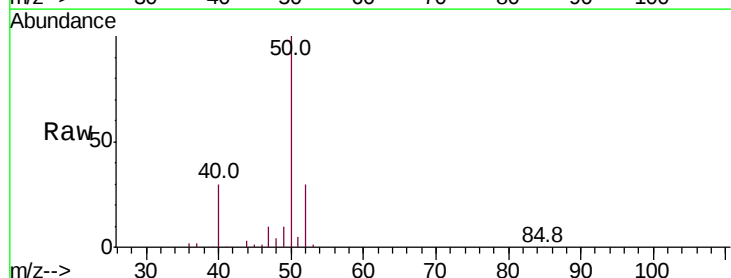
Acq: 15 Mar 2019 11:06

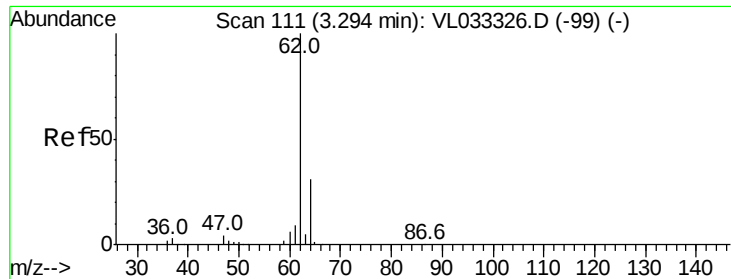
Tgt Ion: 50 Resp: 115370

Ion Ratio Lower Upper

50 100

52 30.1 25.0 37.6





#5

Vinyl Chloride

Concen: 1.932 ppbv

RT: 3.29 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 108284

Ion Ratio Lower Upper

62 100

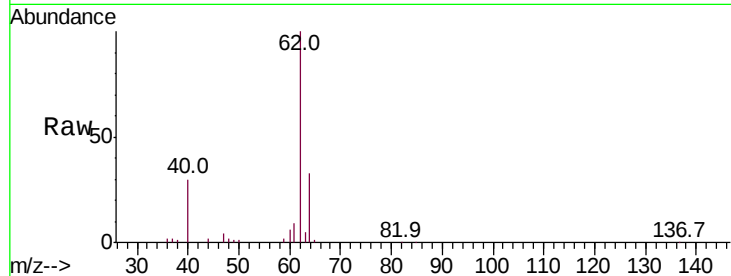
64 33.9 25.0 37.6

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

80000

60000

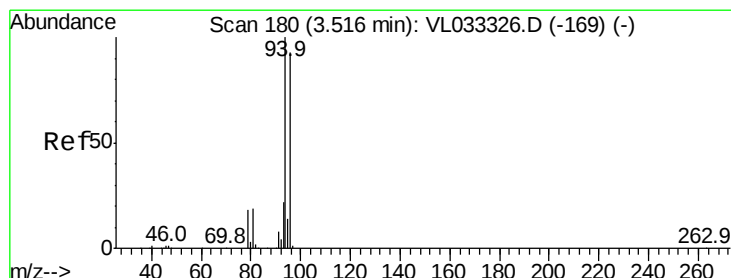
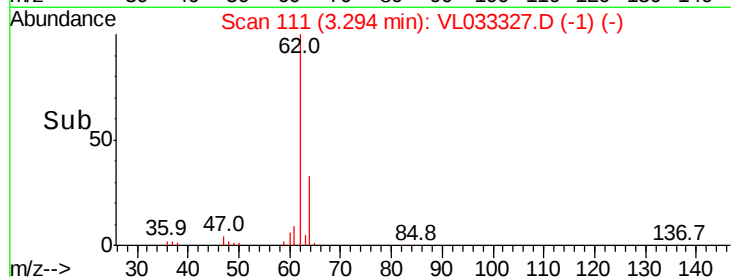
40000

20000

0

Time-->

3.25 3.30 3.35



#6

Bromomethane

Concen: 2.006 ppbv

RT: 3.52 min Scan# 180

Delta R.T. -0.00 min

Lab File: VL033327.D

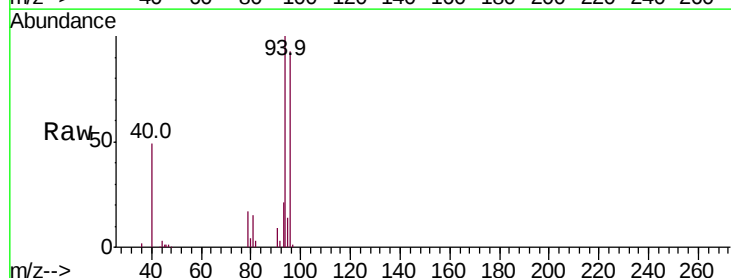
Acq: 15 Mar 2019 11:06

Tgt Ion: 94 Resp: 68202

Ion Ratio Lower Upper

94 100

96 92.9 74.6 111.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

50000

40000

30000

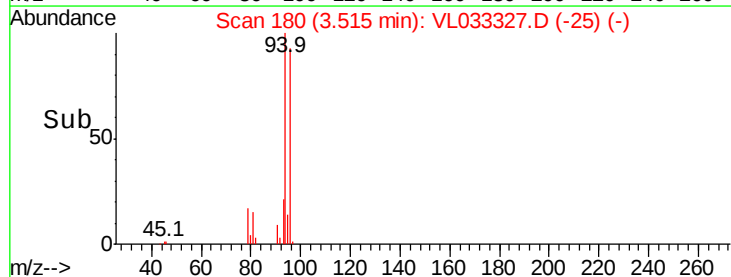
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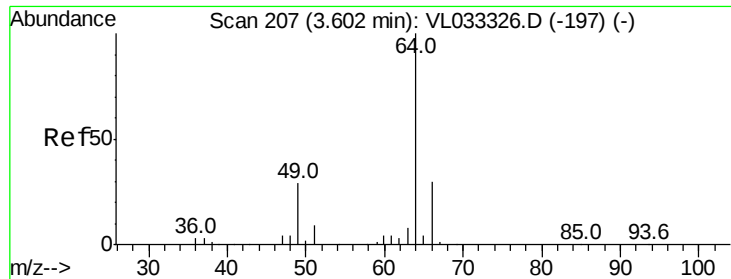
10000

0

Time-->

3.45 3.50 3.55





#7

Chloroethane

Concen: 2.034 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 40894

Ion Ratio Lower Upper

64 100

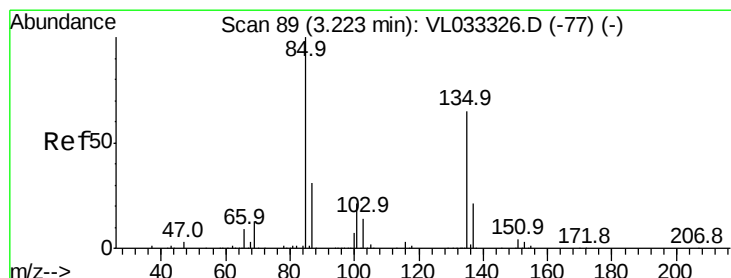
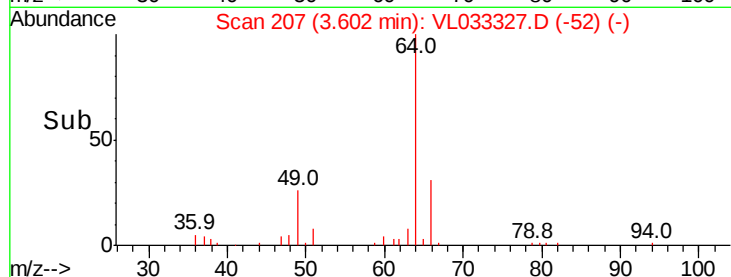
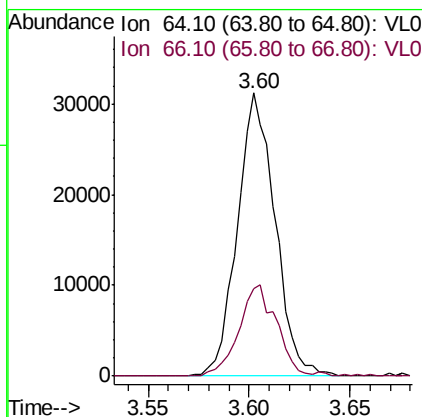
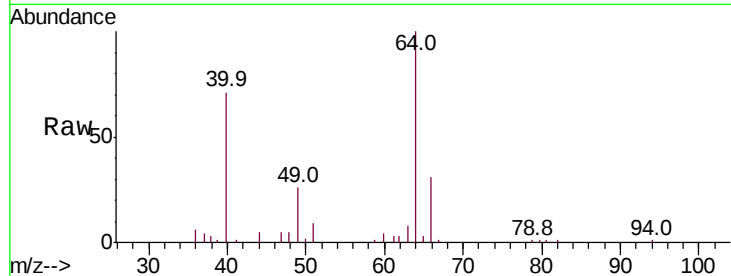
66 30.7 24.0 36.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 1.999 ppbv

RT: 3.22 min Scan# 89

Delta R.T. -0.00 min

Lab File: VL033327.D

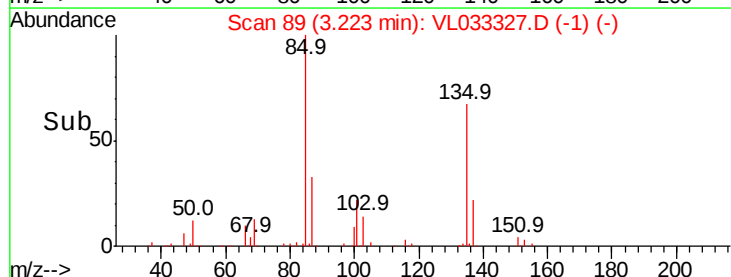
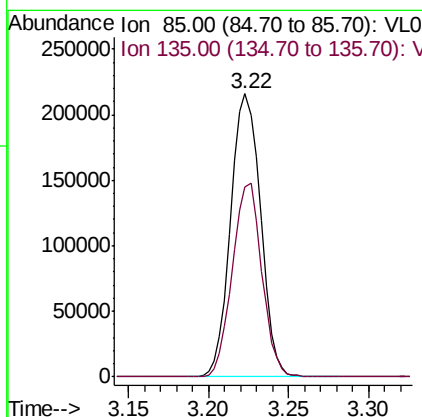
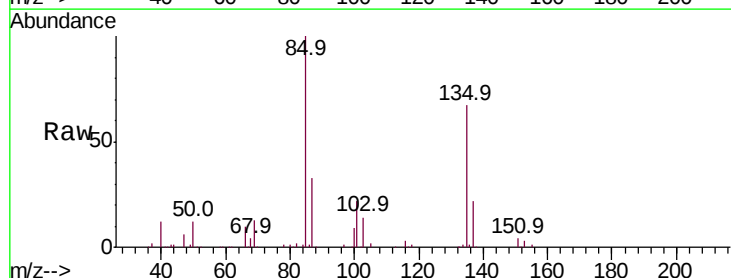
Acq: 15 Mar 2019 11:06

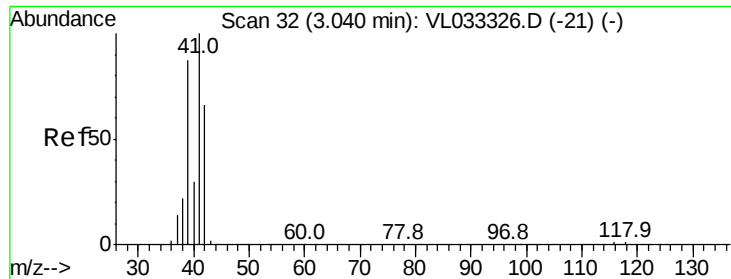
Tgt Ion: 85 Resp: 273992

Ion Ratio Lower Upper

85 100

135 66.9 53.4 80.2





#9

Propene

Concen: 2.099 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 41 Resp: 95650

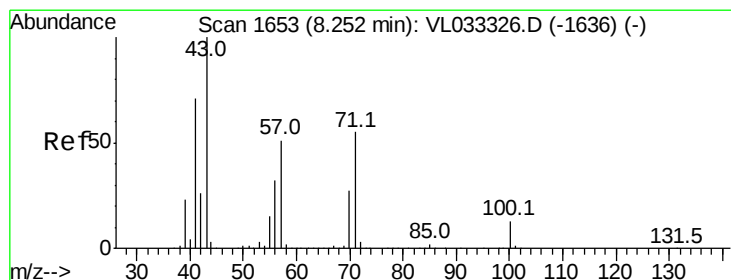
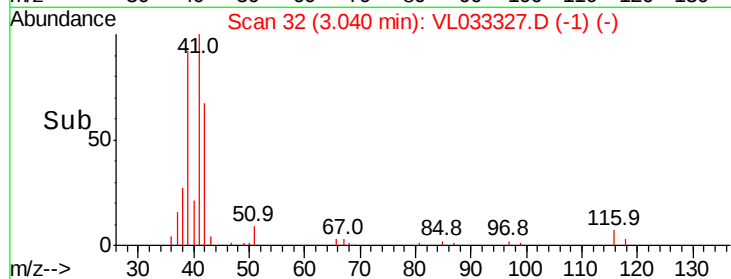
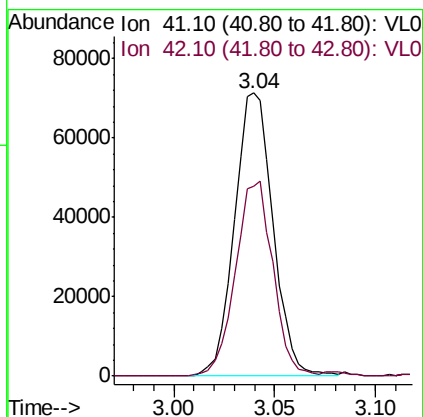
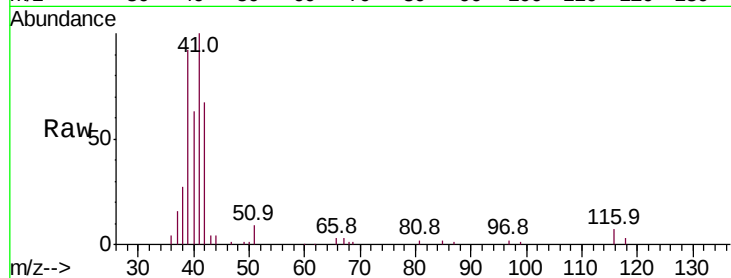
Ion Ratio Lower Upper

41 100

42 67.9 55.2 82.8

Manual Integrations
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3/19/2019 10:02:15 AM



#10

Heptane

Concen: 2.061 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL033327.D

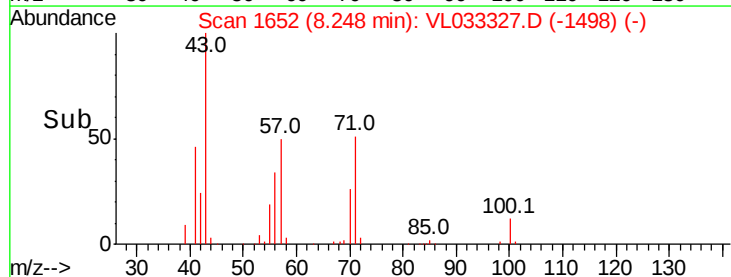
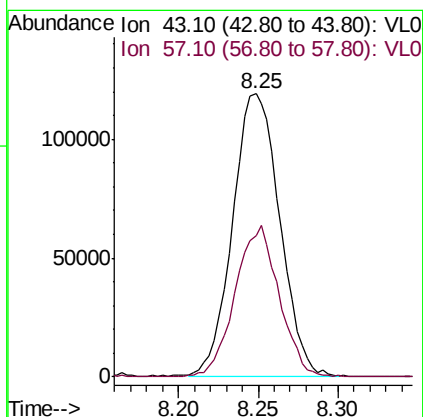
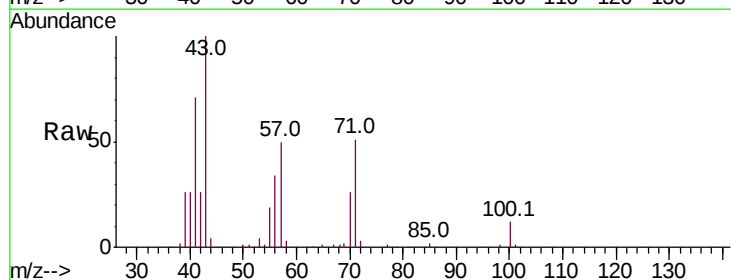
Acq: 15 Mar 2019 11:06

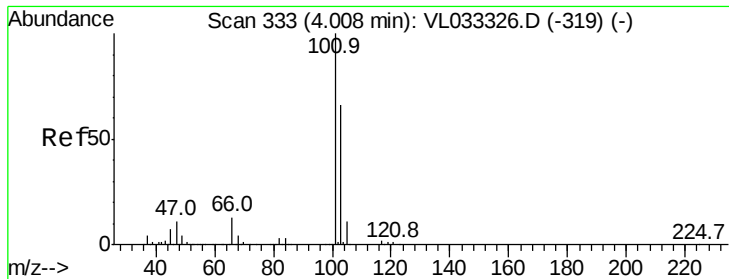
Tgt Ion: 43 Resp: 237130

Ion Ratio Lower Upper

43 100

57 50.4 40.4 60.6





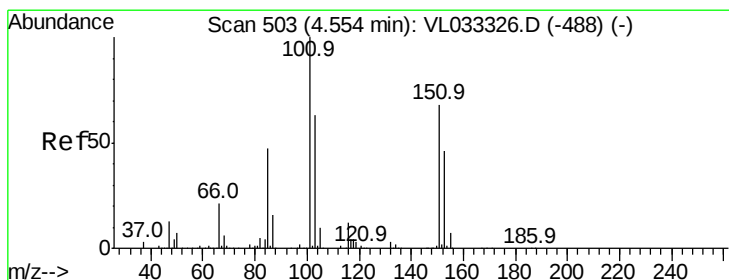
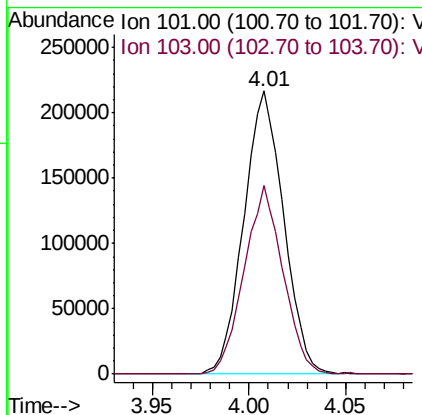
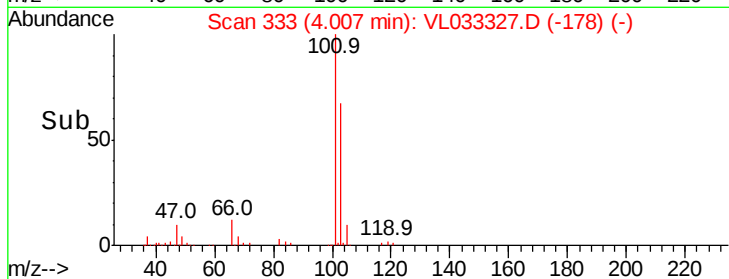
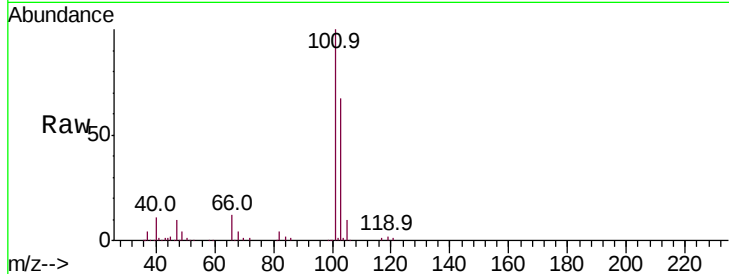
#11
 Trichlorofluoromethane
 Concen: 2.038 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. -0.00 min
 Lab File: VL033327.D
 Acq: 15 Mar 2019 11:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.9	52.9	79.3

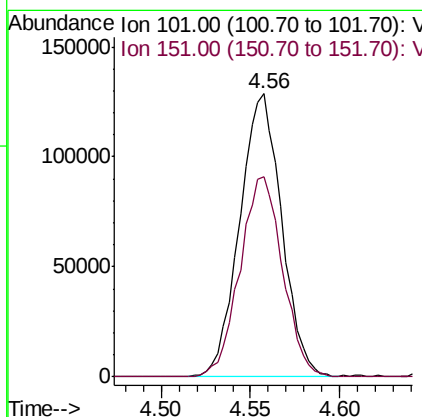
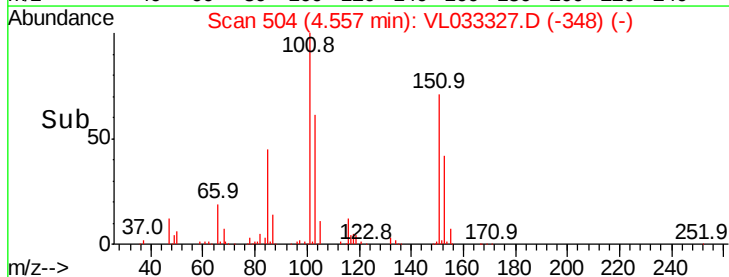
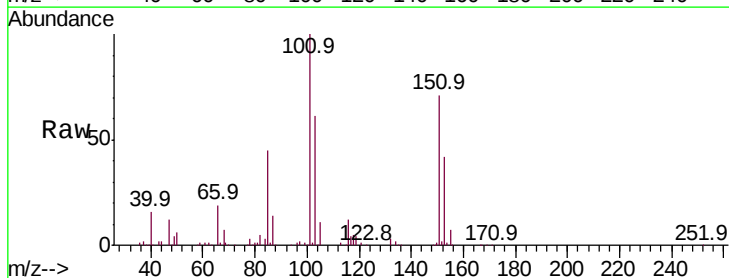
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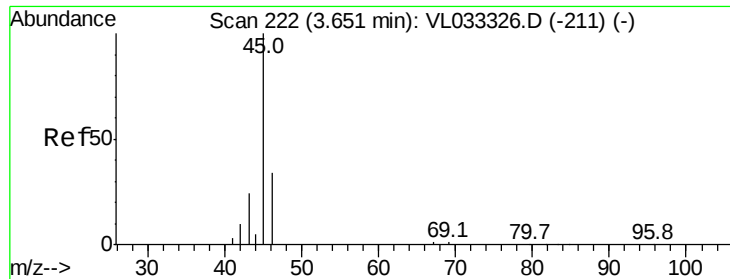
MMDadoda
 3/19/2019 10:02:15 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.110 ppbv
 RT: 4.56 min Scan# 504
 Delta R.T. 0.00 min
 Lab File: VL033327.D
 Acq: 15 Mar 2019 11:06

Tgt Ion	Ratio	Lower	Upper
101	100		
151	71.8	56.3	84.5





#13

Ethanol

Concen: 3.136 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 45 Resp: 49703

Ion Ratio Lower Upper

45 100

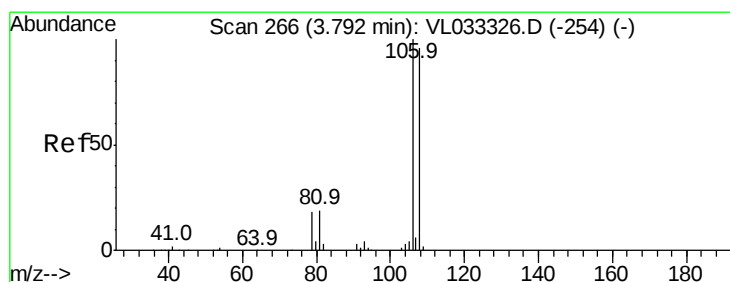
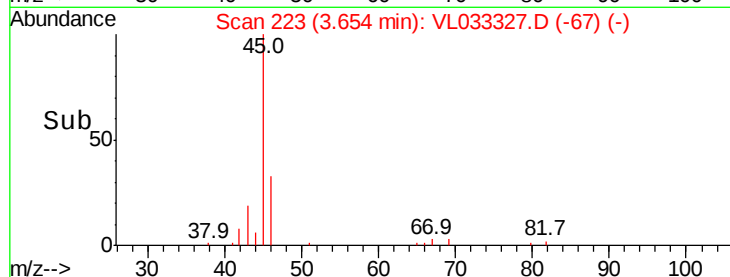
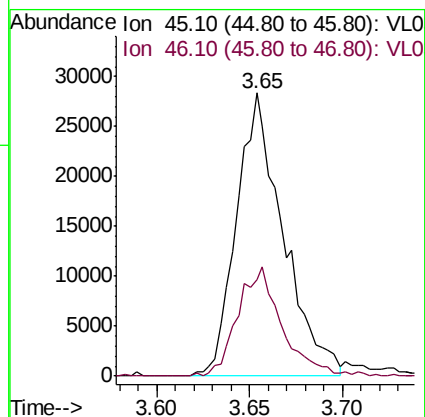
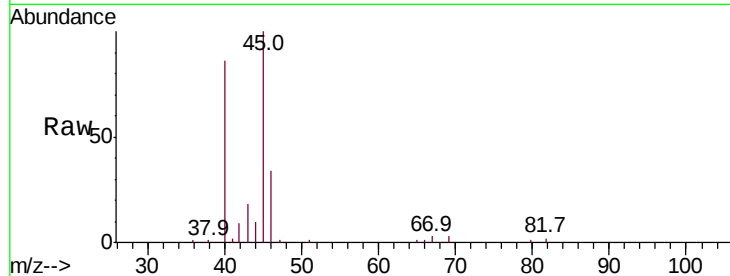
46 36.9 14.9 59.7

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#14

Bromoethene

Concen: 2.048 ppbv

RT: 3.79 min Scan# 266

Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

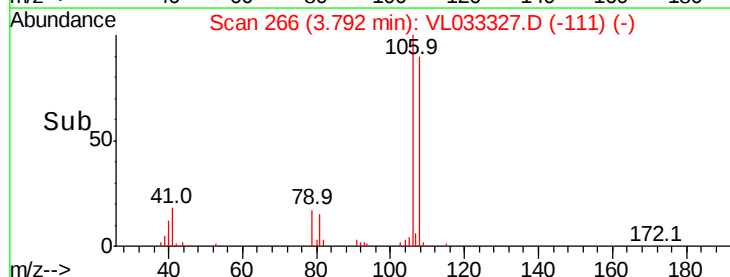
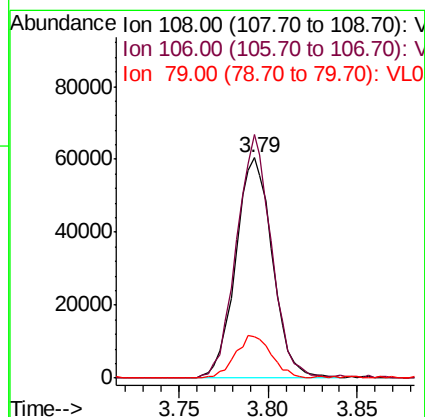
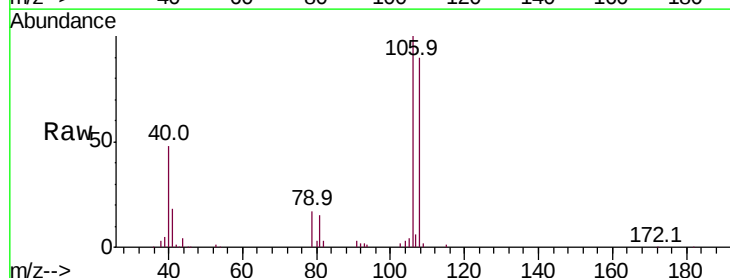
Tgt Ion: 108 Resp: 86663

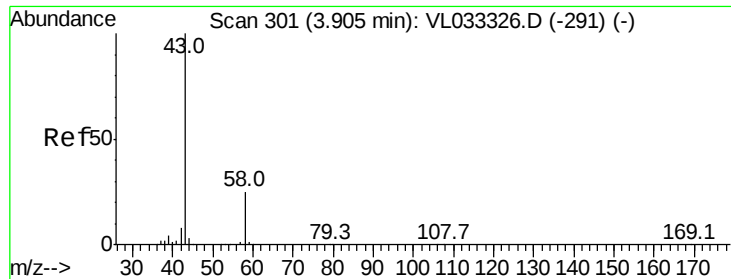
Ion Ratio Lower Upper

108 100

106 105.7 86.2 129.2

79 19.8 15.4 23.2





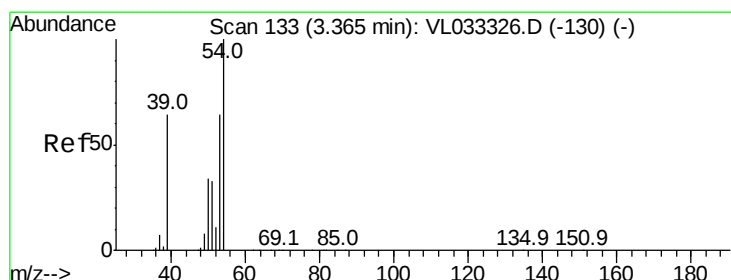
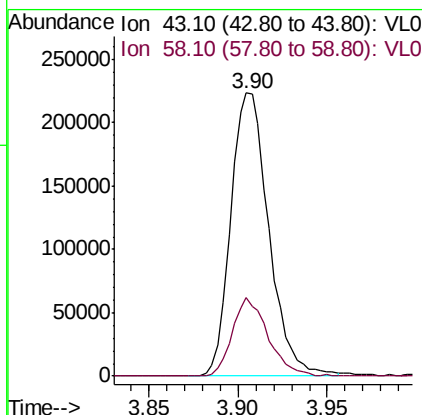
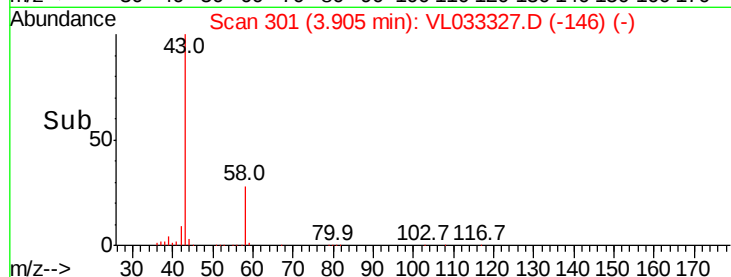
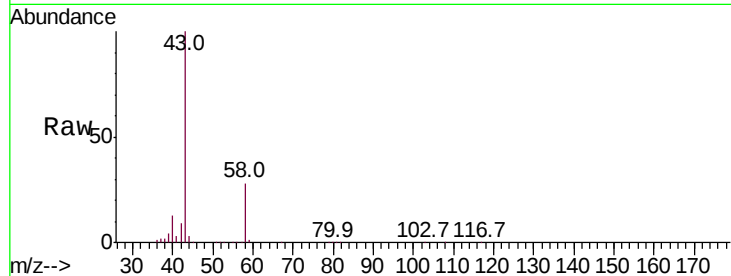
#15
Acetone
Concen: 2.438 ppbv
RT: 3.90 min Scan# 301
Delta R.T. -0.00 min
Lab File: VL033327.D
Acq: 15 Mar 2019 11:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 43 Resp: 331522
Ion Ratio Lower Upper
43 100
58 26.5 20.4 30.6

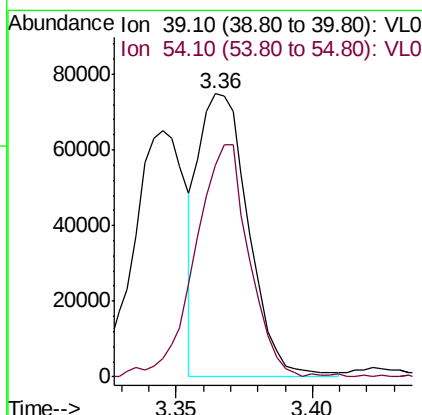
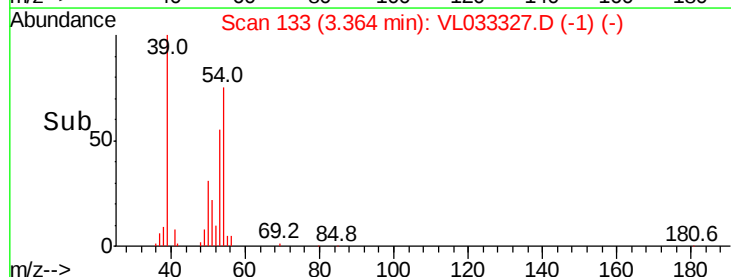
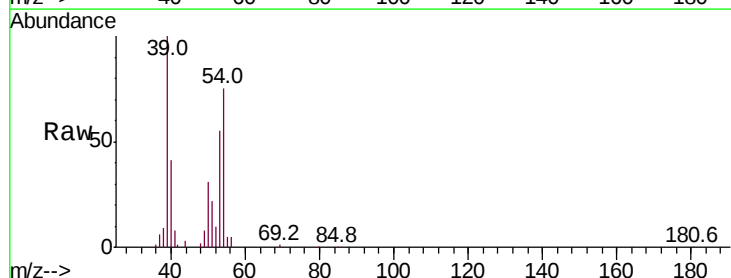
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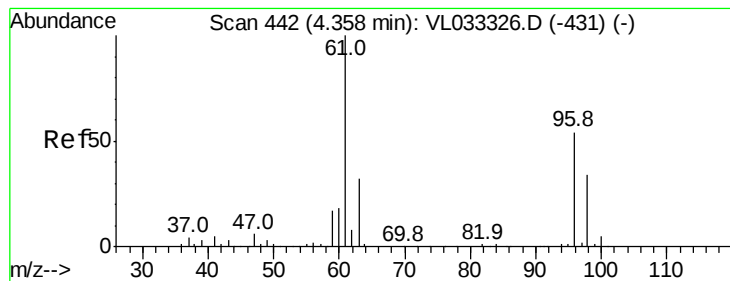
MMDadoda
3/19/2019 10:02:15 AM



#16
1,3-Butadiene
Concen: 1.982 ppbv
RT: 3.36 min Scan# 133
Delta R.T. -0.00 min
Lab File: VL033327.D
Acq: 15 Mar 2019 11:06

Tgt Ion: 39 Resp: 94617
Ion Ratio Lower Upper
39 100
54 89.7 76.8 115.2





#17

tert-Butyl alcohol

Concen: 1.717 ppbv

RT: 4.36 min Scan# 444

Delta R.T. 0.01 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 59 Resp: 33298

Ion Ratio Lower Upper

59 100

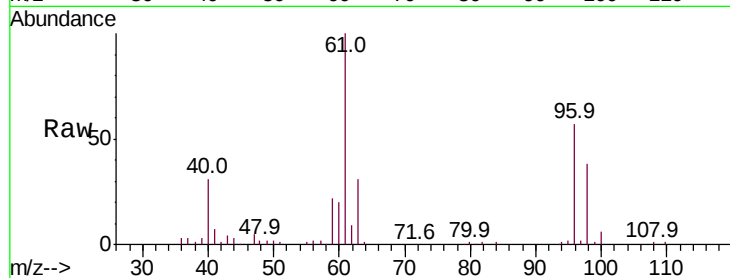
57 0.0 7.7 11.5#

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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.36

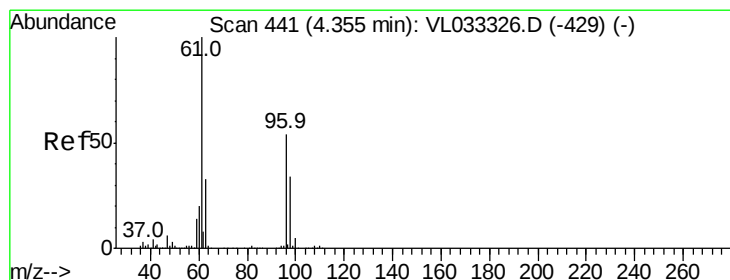
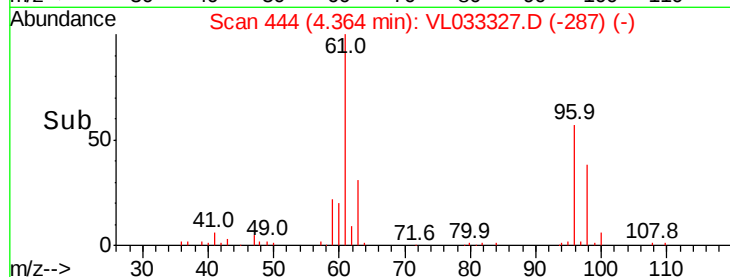
15000

10000

5000

0

Time-->



#18

1,1-Dichloroethene

Concen: 2.147 ppbv

RT: 4.35 min Scan# 441

Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

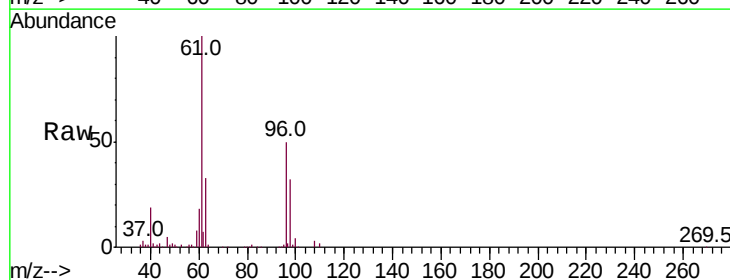
Tgt Ion: 96 Resp: 95105

Ion Ratio Lower Upper

96 100

61 199.0 148.6 222.8

98 63.2 50.3 75.5



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

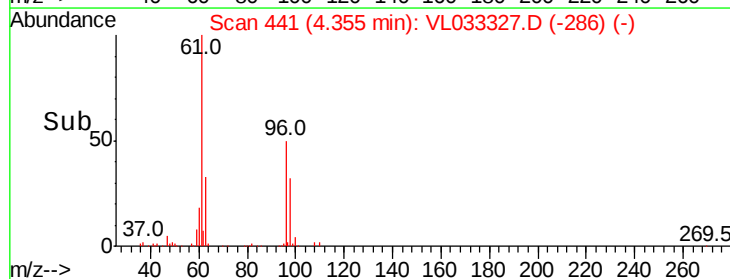
150000

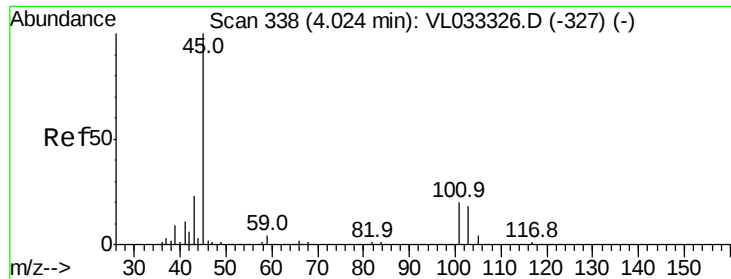
100000

50000

0

Time-->





#19

Isopropyl Alcohol

Concen: 1.611 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.01 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 45 Resp: 109898

Ion Ratio Lower Upper

45 100

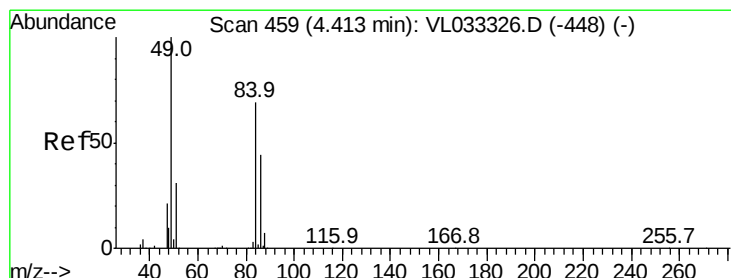
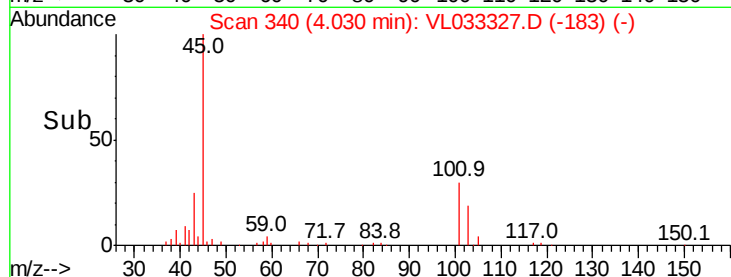
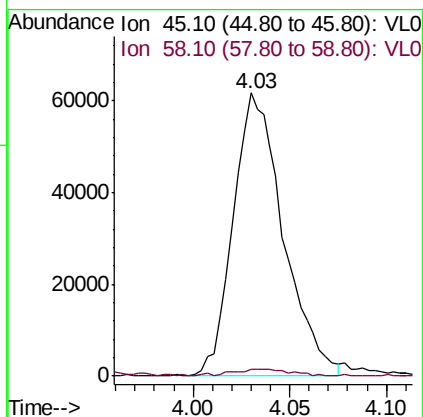
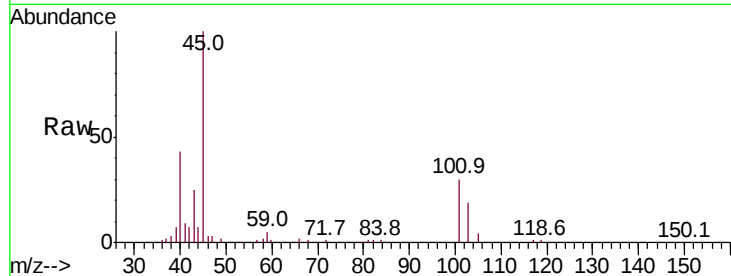
58 79.3 1.5 2.3#

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#20

Methylene Chloride

Concen: 2.207 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Tgt Ion: 84 Resp: 96127

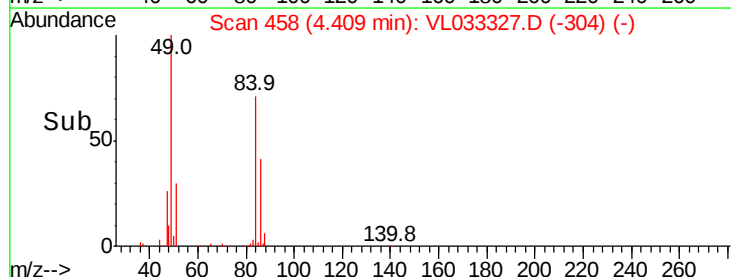
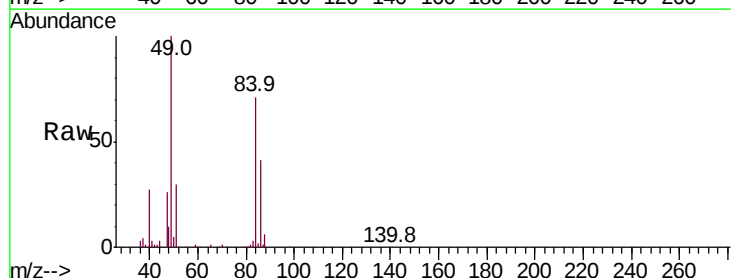
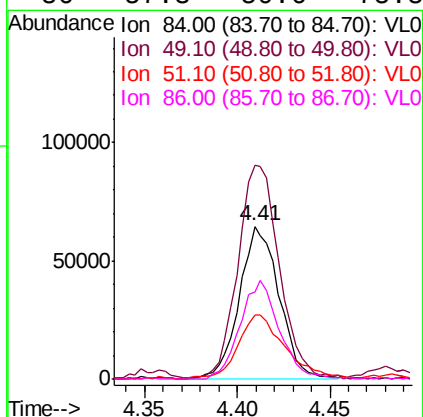
Ion Ratio Lower Upper

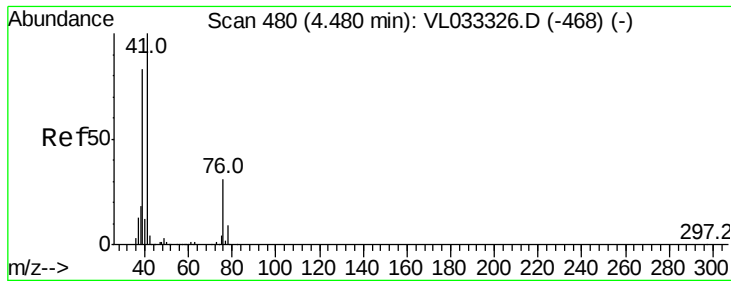
84 100

49 139.0 115.4 173.0

51 41.7 35.8 53.6

86 57.3 50.6 75.8





#21

Allvl Chloride

Concen: 2.035 ppbv

RT: 4.48 min Scan# 480

Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

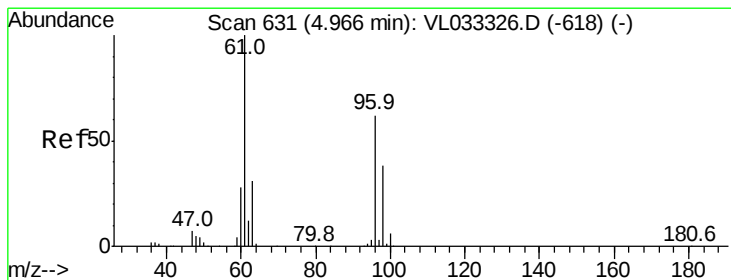
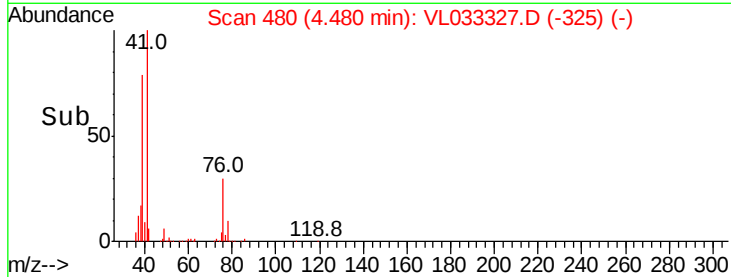
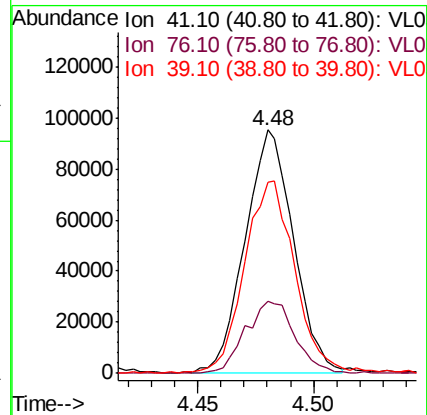
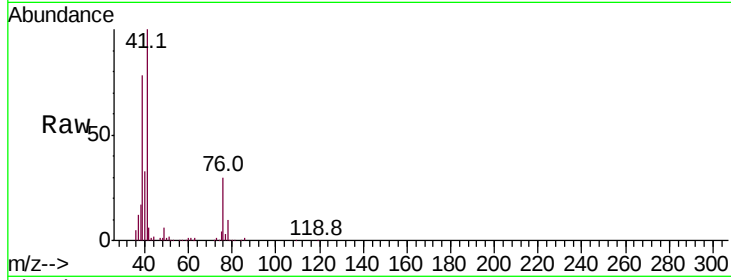
ClientSampleId :

VSTDIC002

Tot Ion:	41	Resp:	136879
Ion Ratio	Lower	Upper	
41	100		
76	30.5	25.0	37.4
39	83.4	65.9	98.9

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#22

trans-1,2-Dichloroethene

Concen: 2.128 ppbv

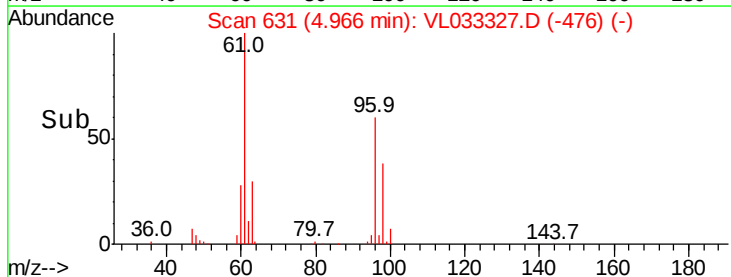
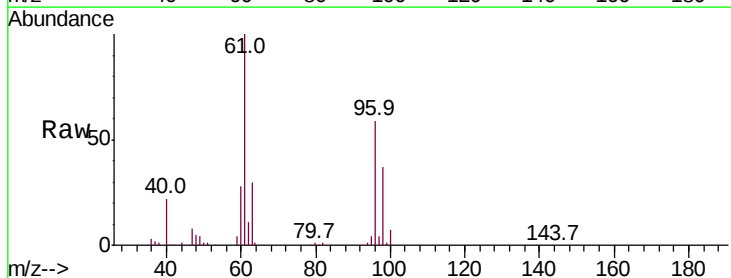
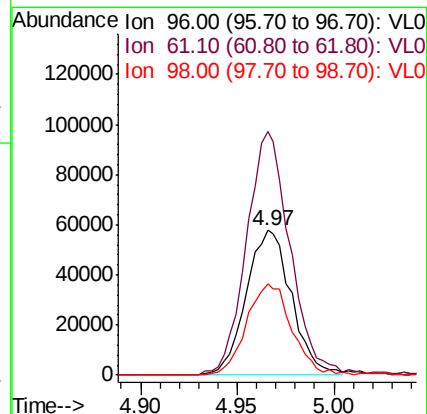
RT: 4.97 min Scan# 631

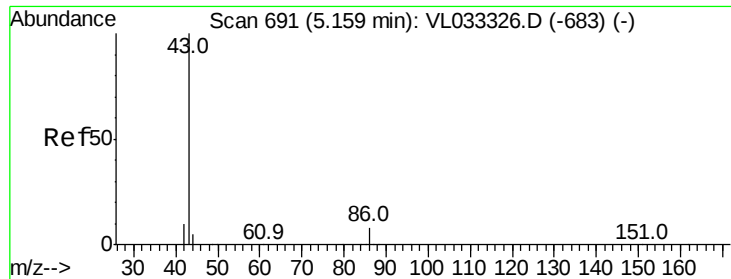
Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Tgt Ion:	96	Resp:	93673
Ion Ratio	Lower	Upper	
96	100		
61	167.8	130.0	195.0
98	63.1	50.0	75.0





#23

Vinyl Acetate

Concen: 2.098 ppbv

RT: 5.16 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

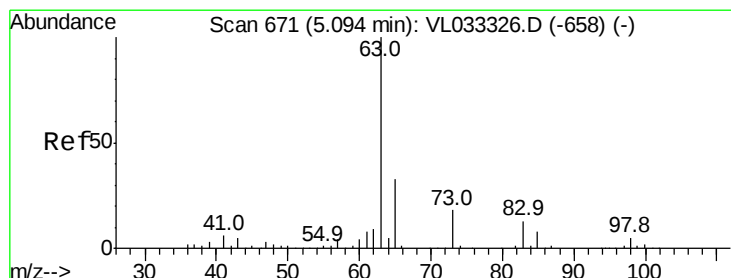
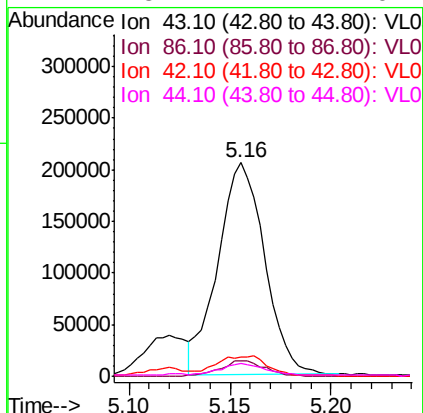
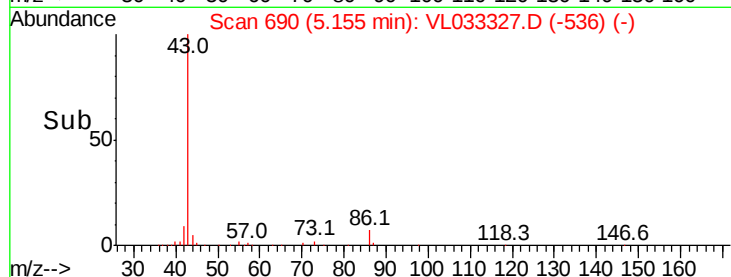
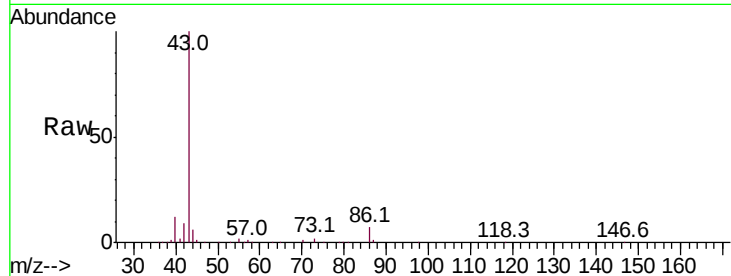
ClientSampleId :

VSTDIC002

Tot Ion	43	Resp	333197
Ion Ratio	Lower	Upper	
43	100		
86	7.0	6.2	9.2
42	9.2	8.1	12.1
44	5.1	4.1	6.1

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#24

1,1-Dichloroethane

Concen: 2.114 ppbv

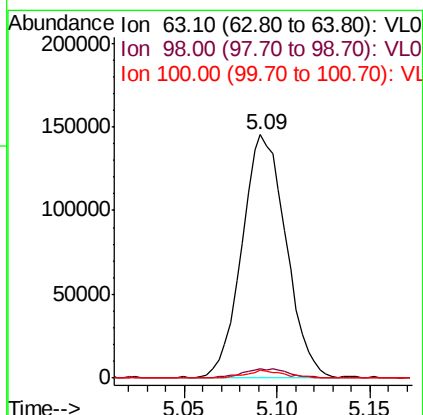
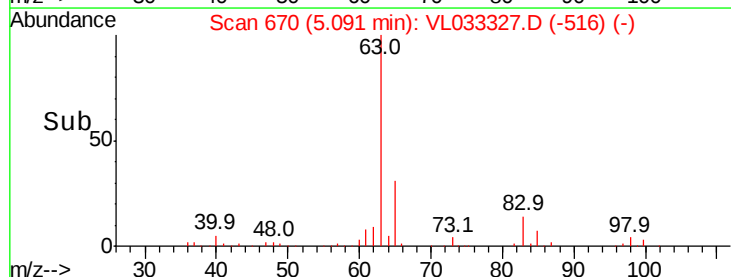
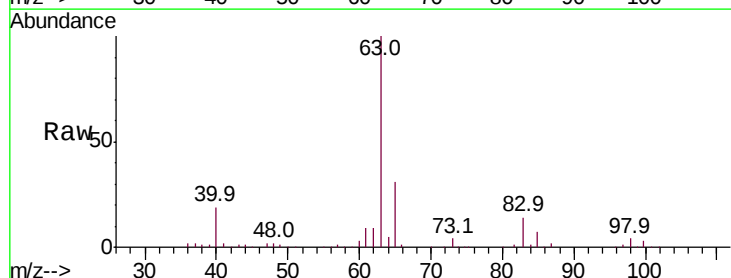
RT: 5.09 min Scan# 670

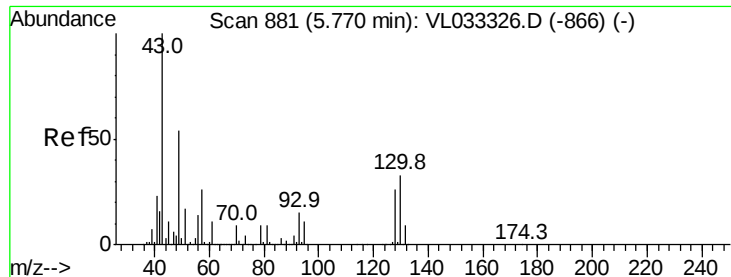
Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Tgt Ion	63	Resp	239196
Ion Ratio	Lower	Upper	
63	100		
98	4.1	2.4	7.1
100	3.3	1.3	3.8





#25

Ethyl Acetate

Concen: 2.130 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 419169

Ion Ratio Lower Upper

43 100

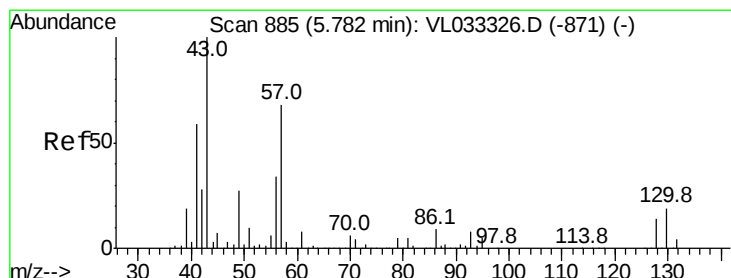
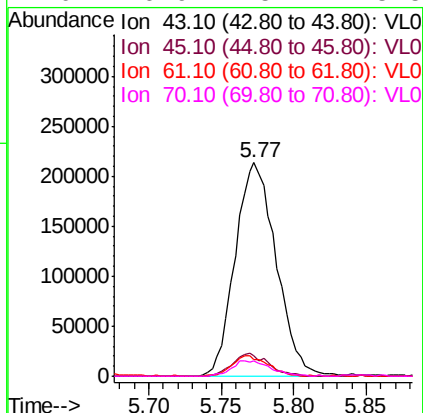
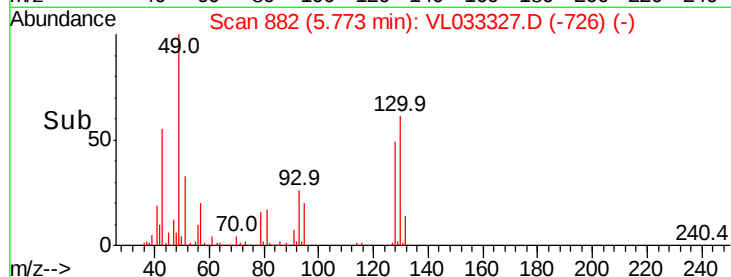
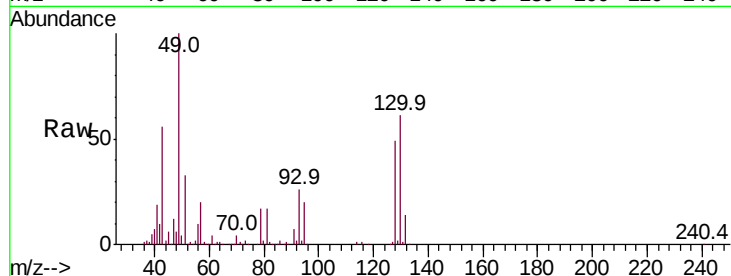
45 9.5 7.9 11.9

61 8.9 7.4 11.2

70 6.9 5.7 8.5

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#26

Hexane

Concen: 2.151 ppbv

RT: 5.79 min Scan# 886

Delta R.T. 0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Tgt Ion: 57 Resp: 193744

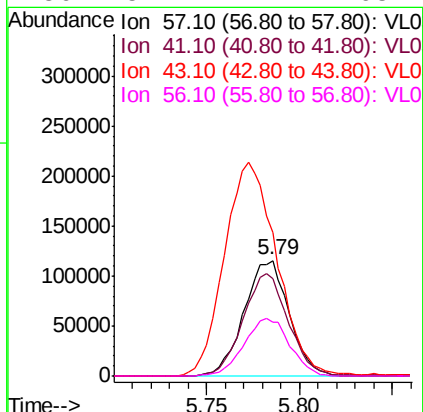
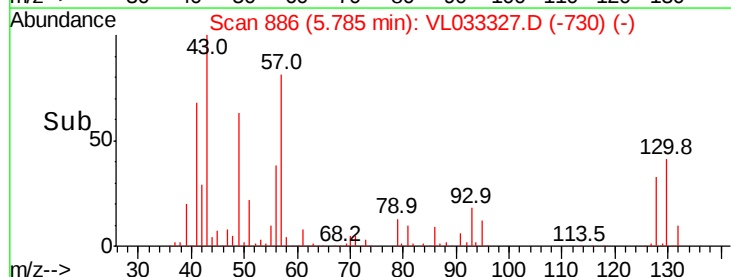
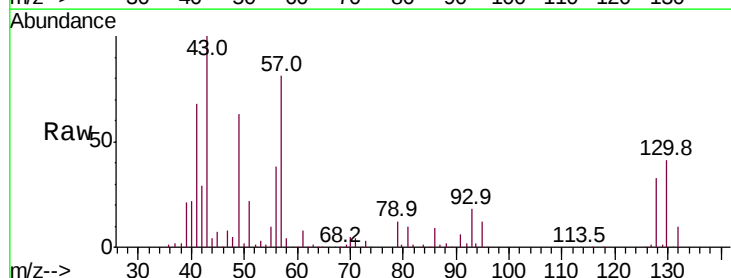
Ion Ratio Lower Upper

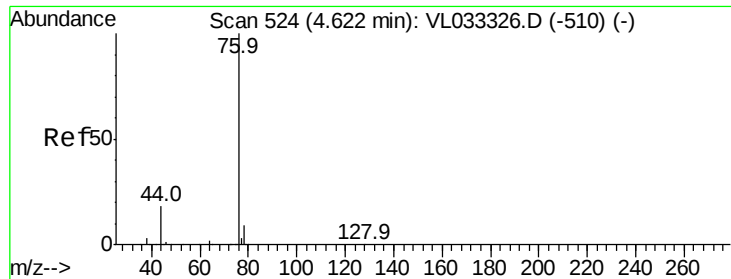
57 100

41 91.4 70.5 105.7

43 219.2 181.8 272.8

56 51.2 42.2 63.2





#27

Carbon Disulfide

Concen: 2.068 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

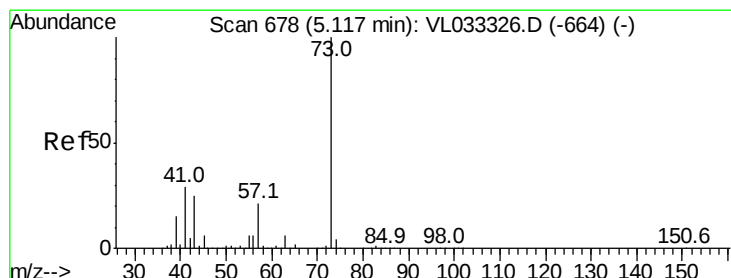
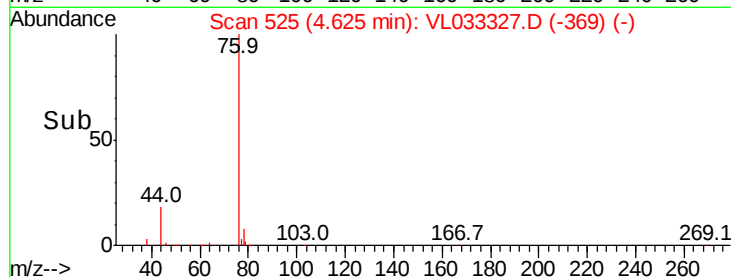
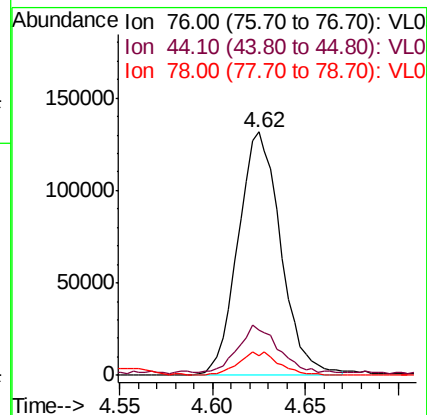
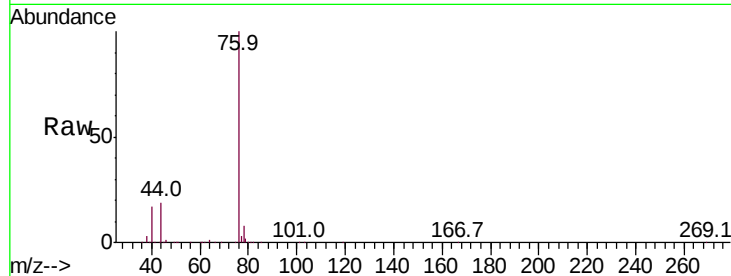
ClientSampleId :

VSTDIC002

Tot Ion:	76	Resp:	210121
Ion Ratio	Lower	Upper	
76	100		
44	20.0	15.2	22.8
78	9.3	7.2	10.8

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 2.149 ppbv

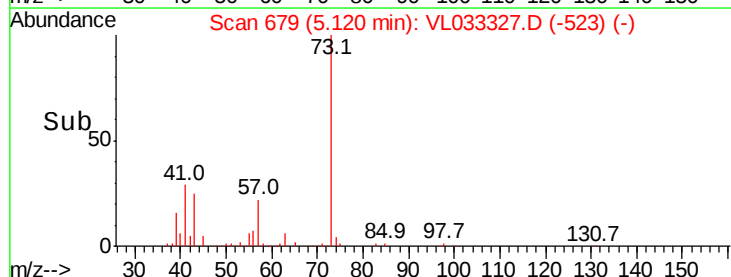
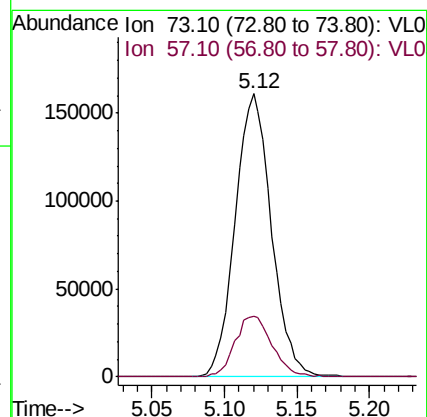
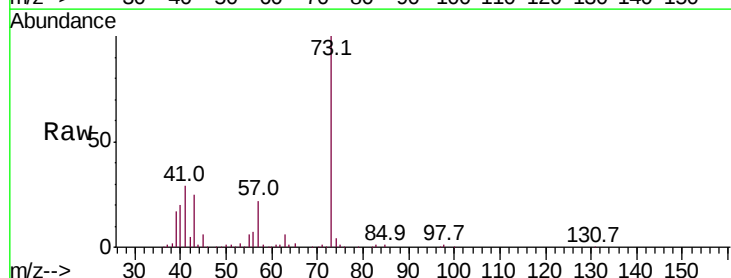
RT: 5.12 min Scan# 679

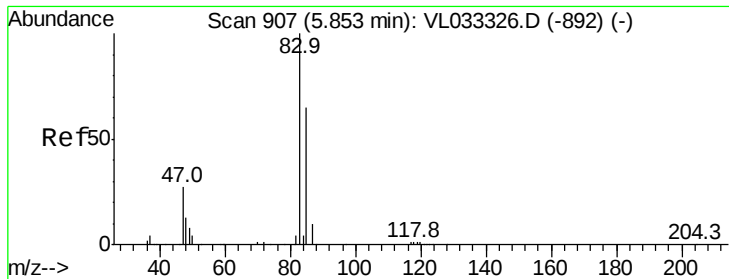
Delta R.T. 0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Tgt Ion:	73	Resp:	278717
Ion Ratio	Lower	Upper	
73	100		
57	22.2	17.4	26.0





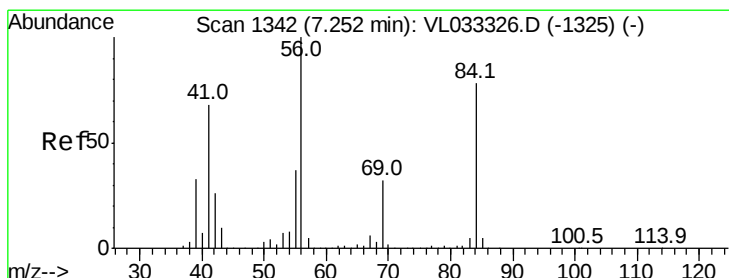
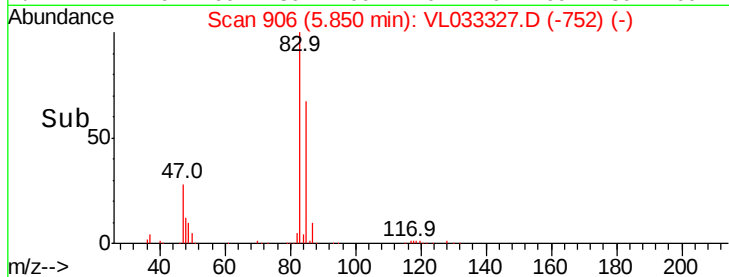
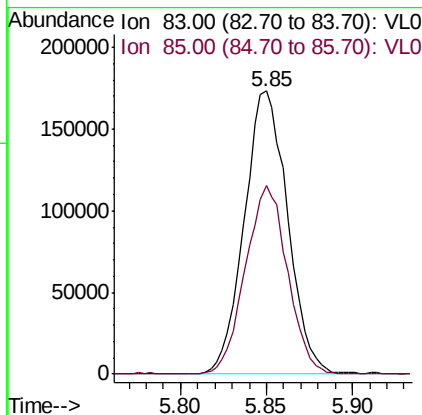
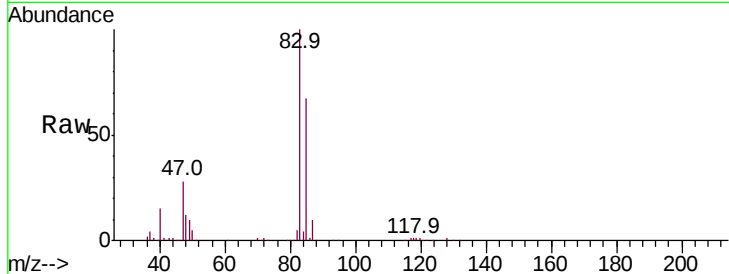
#29
Chloroform
Concen: 2.061 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033327.D
Acq: 15 Mar 2019 11:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 83 Resp: 302547
Ion Ratio Lower Upper
83 100
85 66.5 52.0 78.0

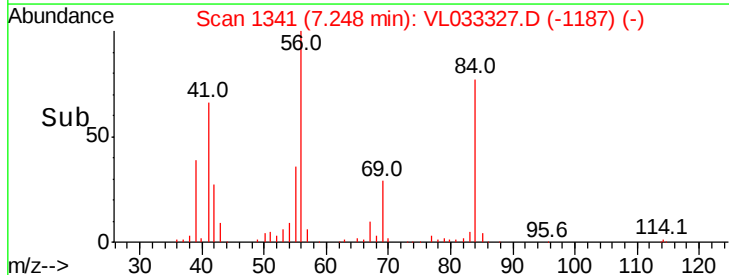
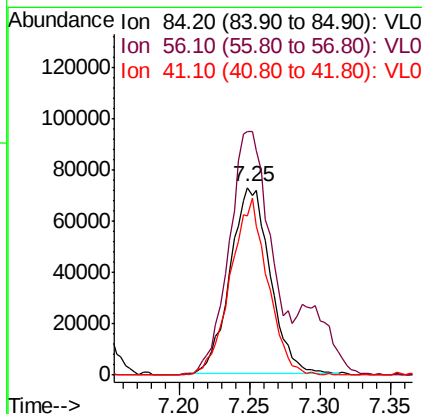
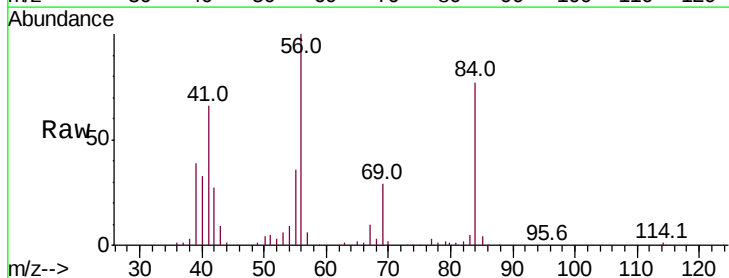
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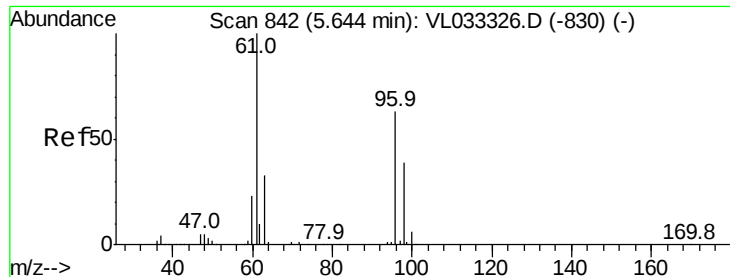
MMDadoda
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#30
Cyclohexane
Concen: 2.036 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033327.D
Acq: 15 Mar 2019 11:06

Tgt Ion: 84 Resp: 145157
Ion Ratio Lower Upper
84 100
56 167.4 111.3 166.9#
41 88.4 69.6 104.4





#31

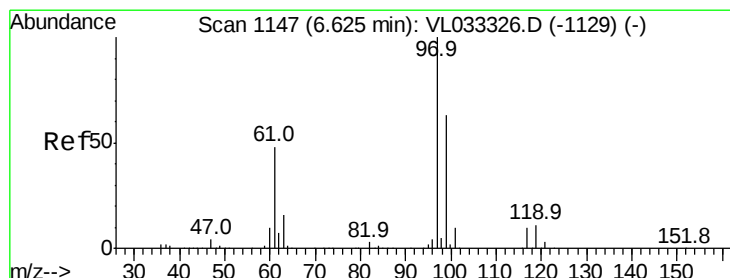
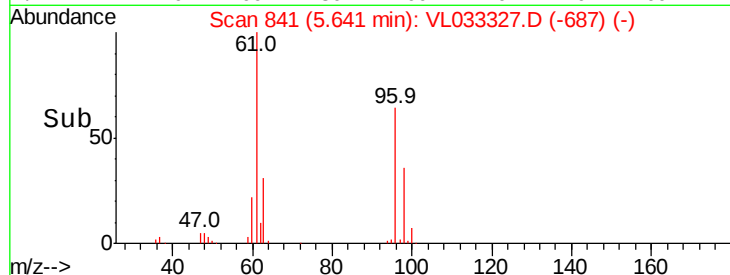
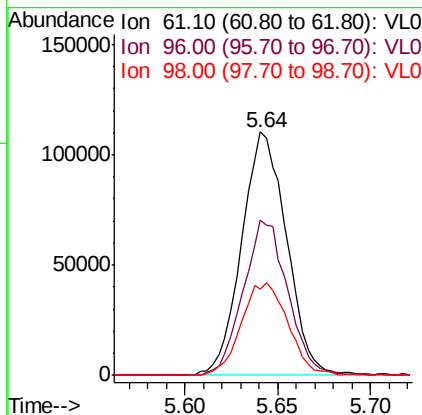
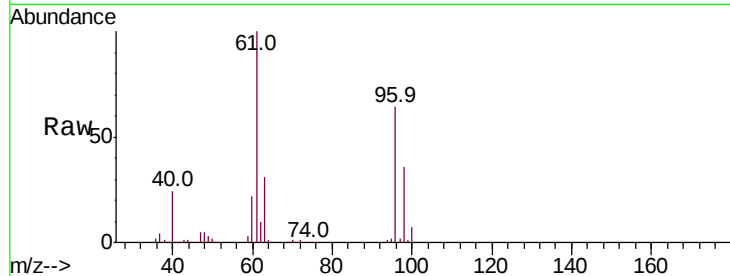
cis-1,2-Dichloroethene
Concen: 2.054 ppbv
RT: 5.64 min Scan# 841
Delta R.T. -0.00 min
Lab File: VL033327.D
Acq: 15 Mar 2019 11:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion:	61	Resp:	183299
Ion	Ratio	Lower	Upper
61	100		
96	64.0	50.3	75.5
98	35.6	31.5	47.3

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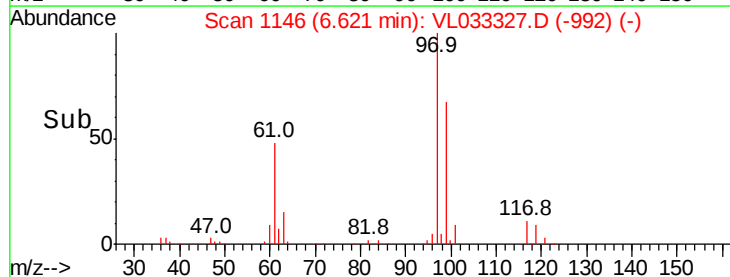
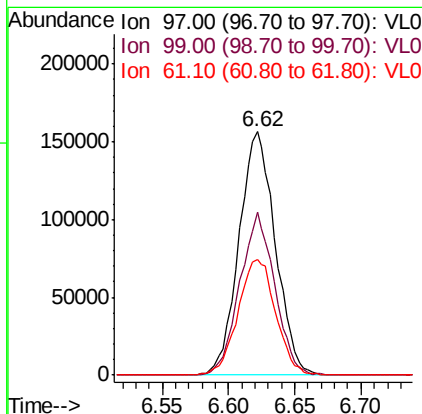
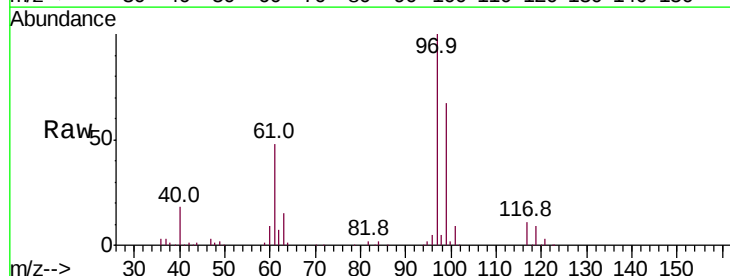
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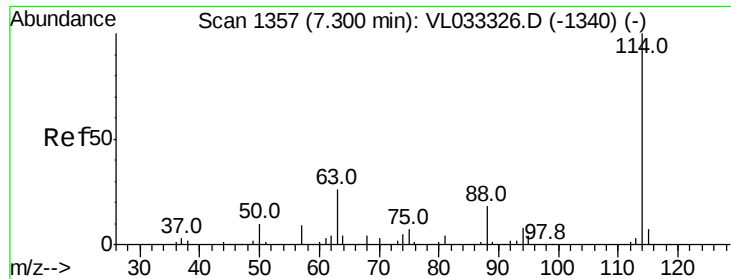


#32

1,1,1-Trichloroethane
Concen: 2.044 ppbv
RT: 6.62 min Scan# 1146
Delta R.T. -0.00 min
Lab File: VL033327.D
Acq: 15 Mar 2019 11:06

Tgt Ion:	97	Resp:	297864
Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.0	76.6
61	49.5	39.3	58.9





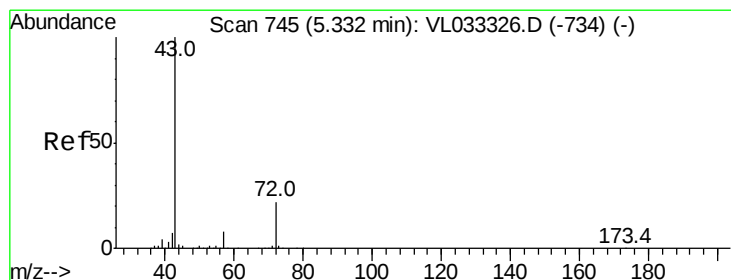
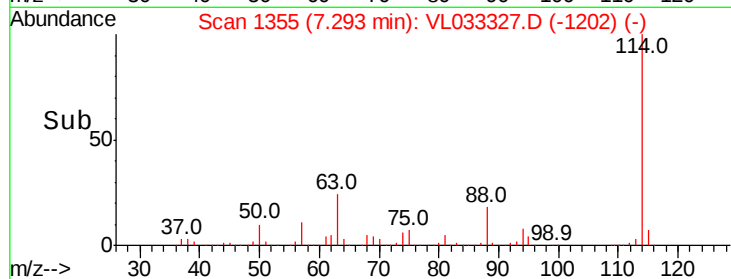
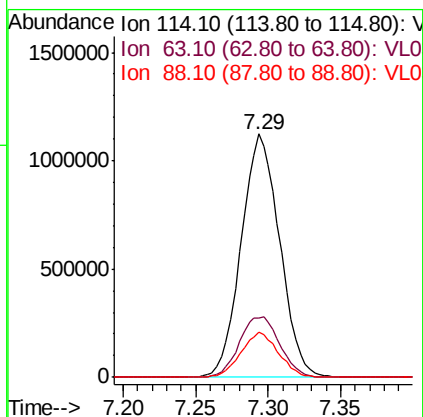
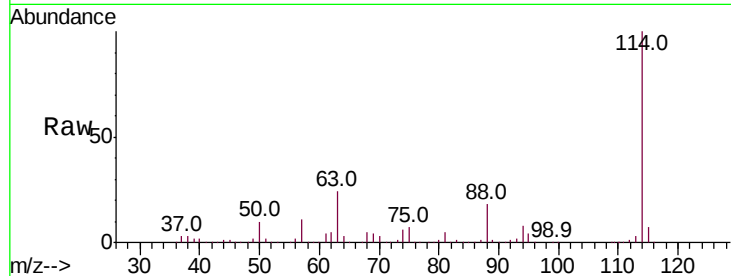
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL033327.D
 Acq: 15 Mar 2019 11:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.3	21.4	32.2
88	18.1	14.5	21.7

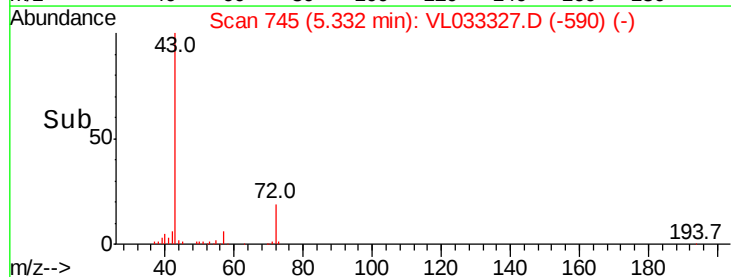
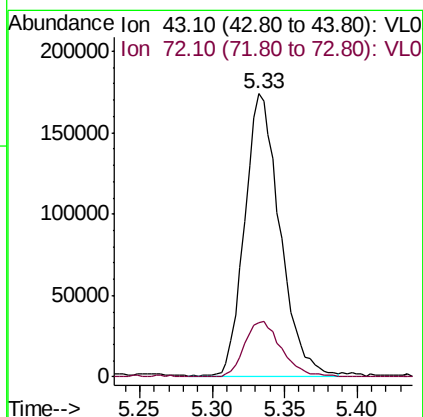
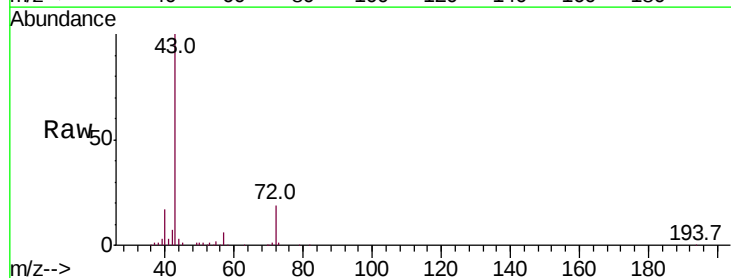
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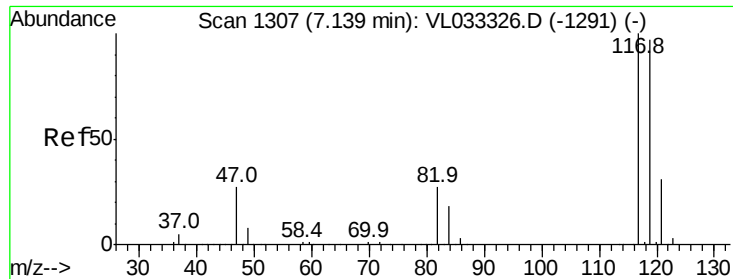
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#34
 2-Butanone
 Concen: 2.238 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. -0.00 min
 Lab File: VL033327.D
 Acq: 15 Mar 2019 11:06

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.9	17.7	26.5





#35

Carbon Tetrachloride

Concen: 2.019 ppbv

RT: 7.14 min Scan# 1307

Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

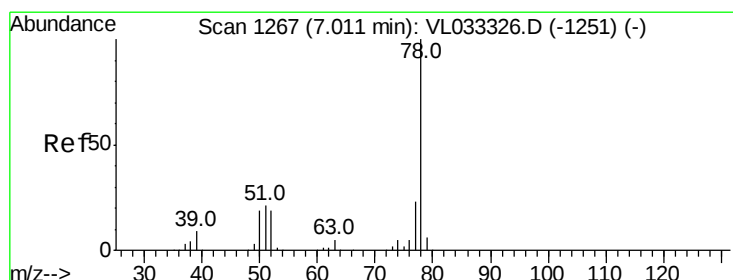
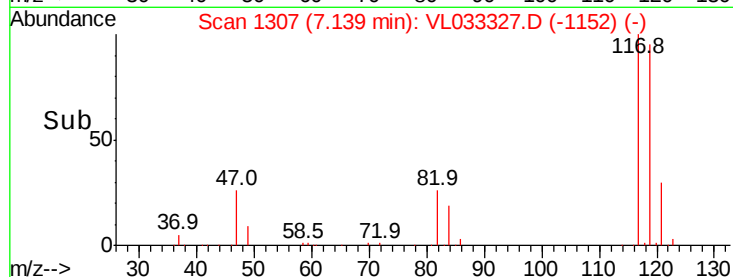
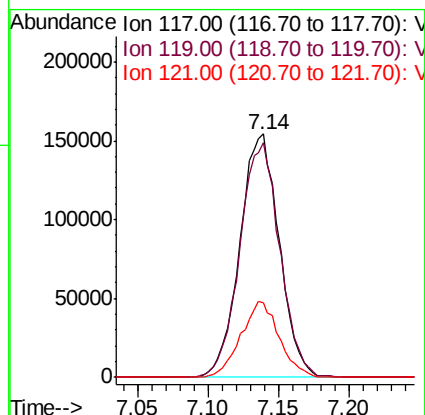
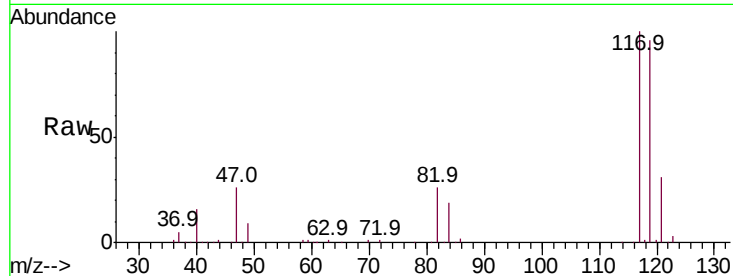
ClientSampleId :

VSTDIC002

Tot Ion:	117	Resp:	301459
Ion Ratio	Lower	Upper	
117	100		
119	96.1	77.4	116.0
121	30.7	24.9	37.3

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#36

Benzene

Concen: 2.055 ppbv

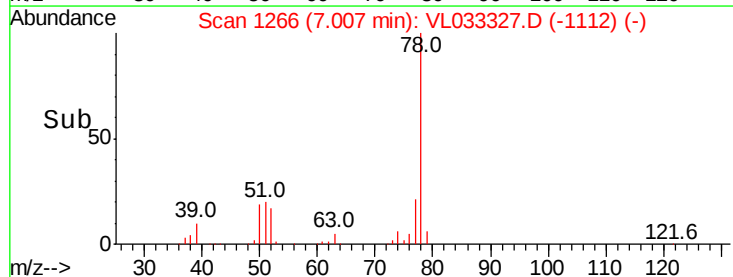
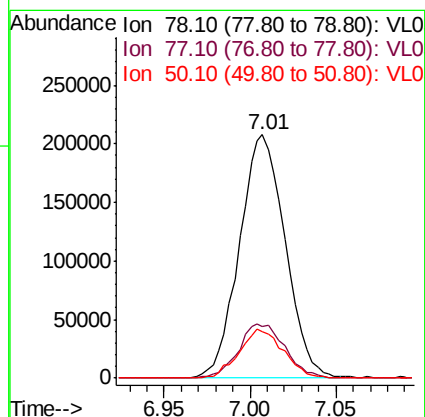
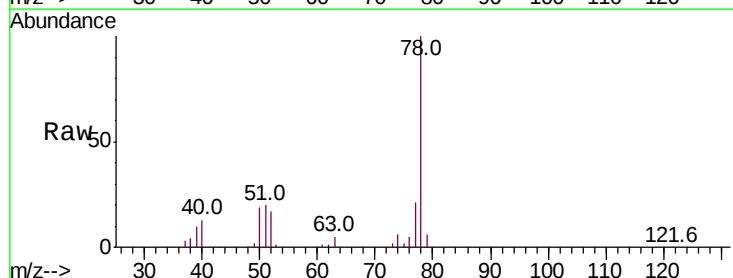
RT: 7.01 min Scan# 1266

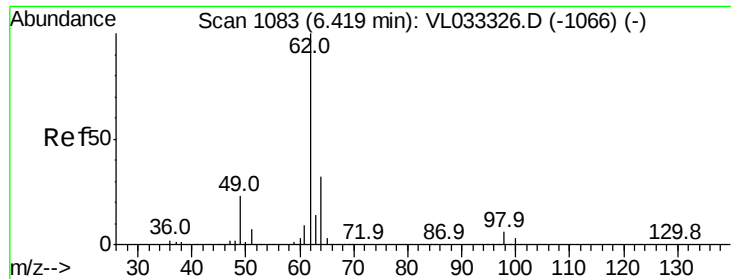
Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Tgt Ion:	78	Resp:	380058
Ion Ratio	Lower	Upper	
78	100		
77	21.0	18.1	27.1
50	18.8	15.2	22.8





#37

1,2-Dichloroethane

Concen: 2.075 ppbv

RT: 6.42 min Scan# 1082

Delta R.T. -0.00 min

Lab File: VL033327.D

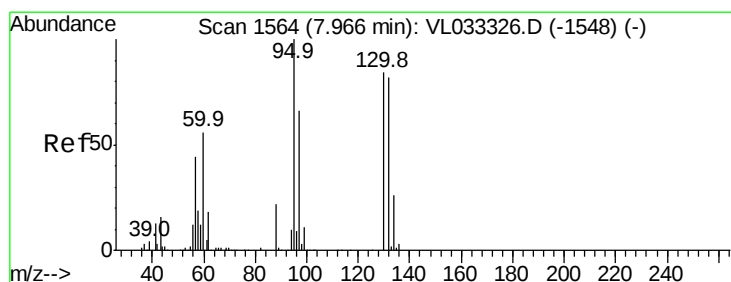
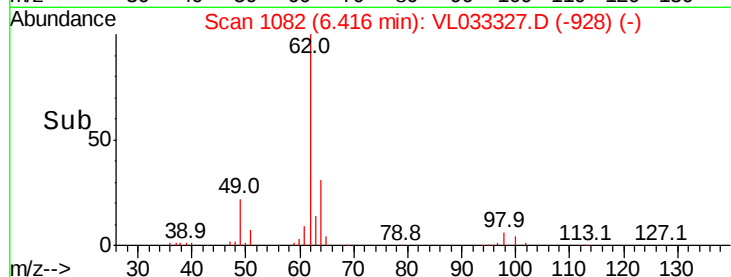
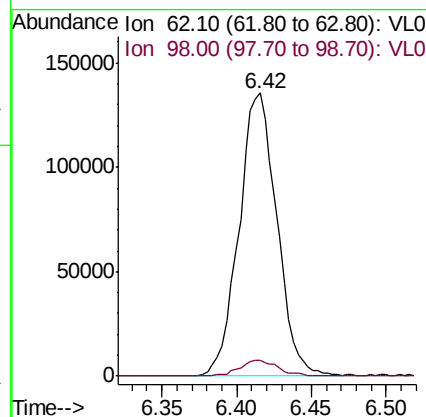
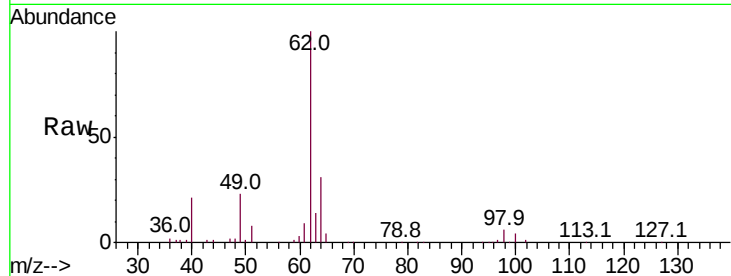
Acq: 15 Mar 2019 11:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
62	100	239254		
98	5.7		4.5	6.7

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#38

Trichloroethene

Concen: 1.926 ppbv

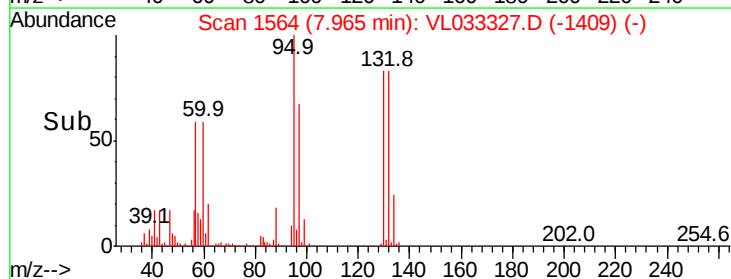
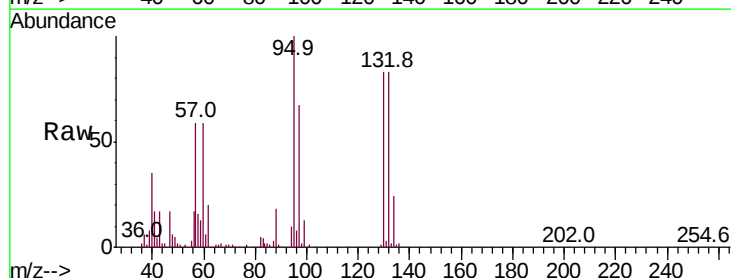
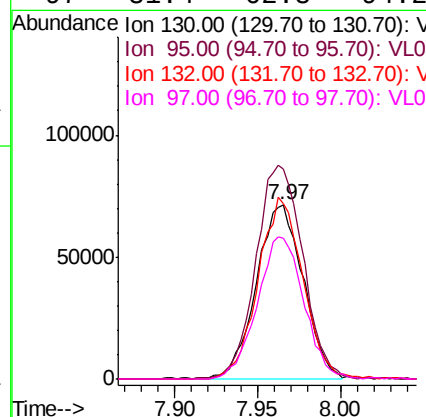
RT: 7.97 min Scan# 1564

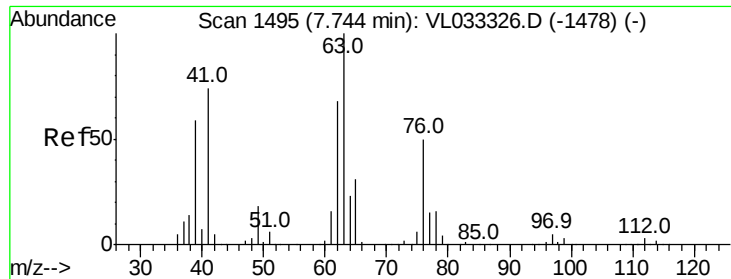
Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	140181		
95	121.9		95.2	142.8
132	101.5		77.7	116.5
97	81.4		62.8	94.2





#39

1,2-Dichloropropane

Concen: 1.973 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. -0.01 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

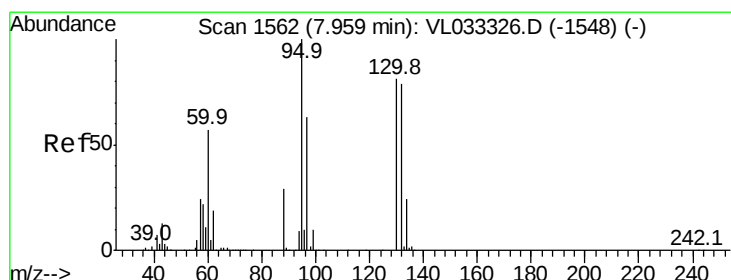
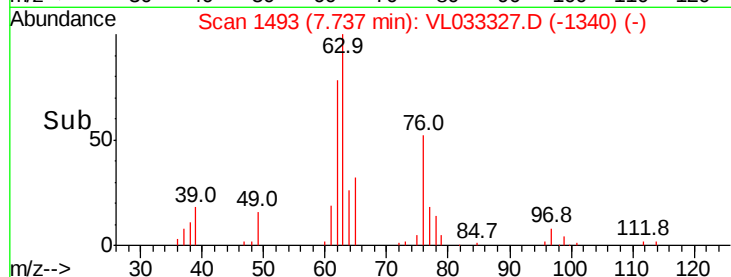
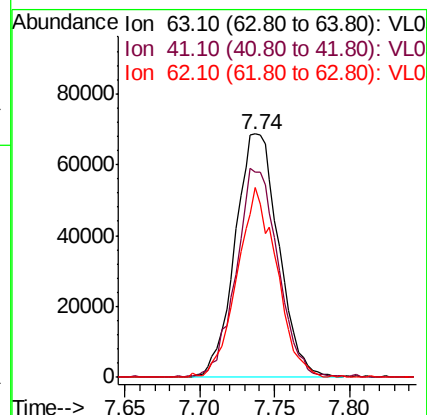
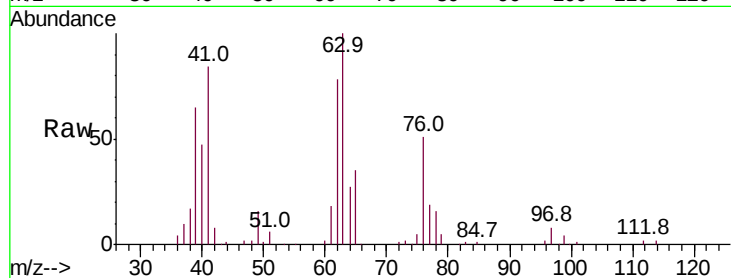
ClientSampleId :

VSTDIC002

Tot Ion:	63	Resp:	138822
Ion Ratio	Lower	Upper	
63	100		
41	83.5	59.5	89.3
62	77.3	54.7	82.1

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#40

1,4-Dioxane

Concen: 1.756 ppbv

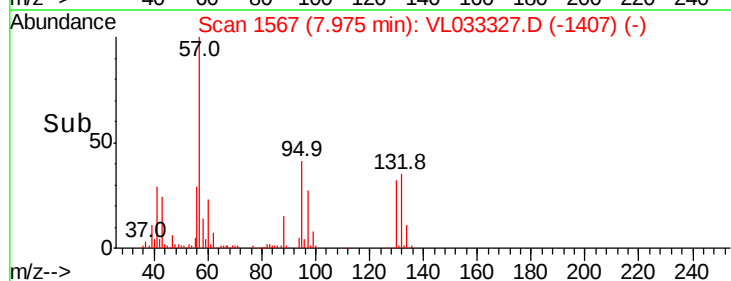
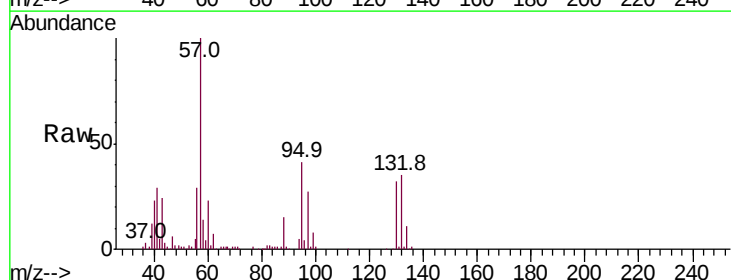
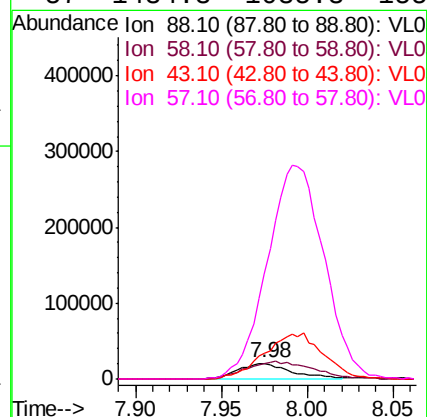
RT: 7.98 min Scan# 1567

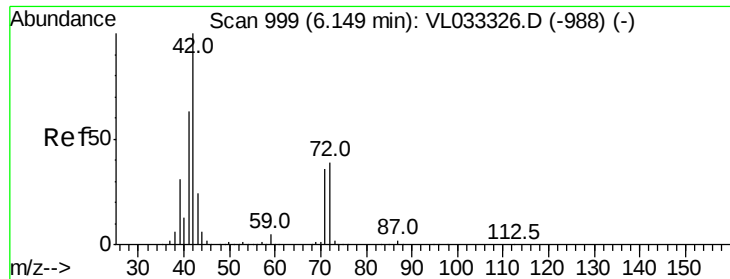
Delta R.T. 0.02 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Tgt Ion:	88	Resp:	45266
Ion Ratio	Lower	Upper	
88	100		
58	143.7	107.9	161.9
43	318.3	230.8	346.2
57	1434.3	1035.3	1552.9





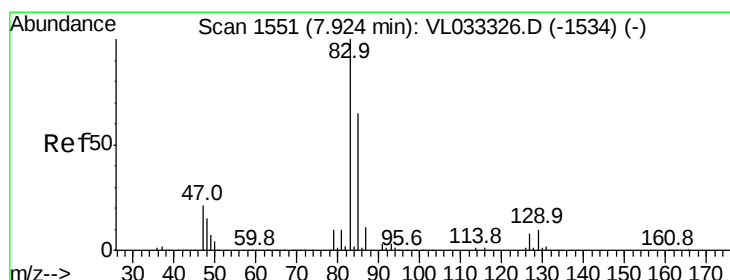
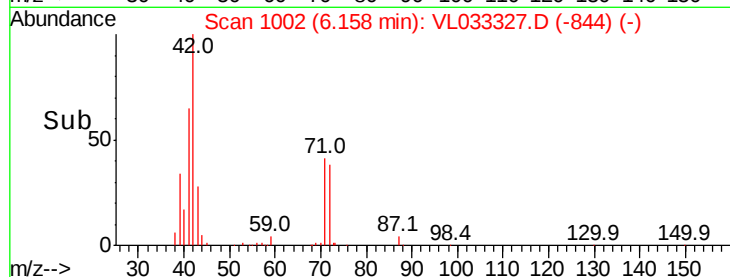
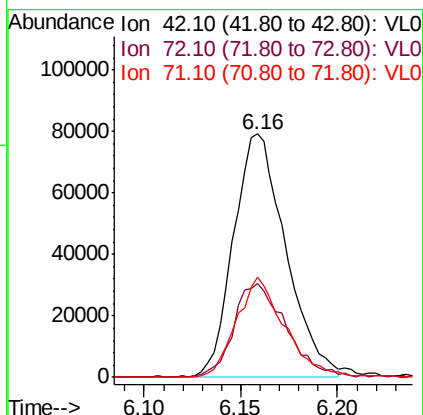
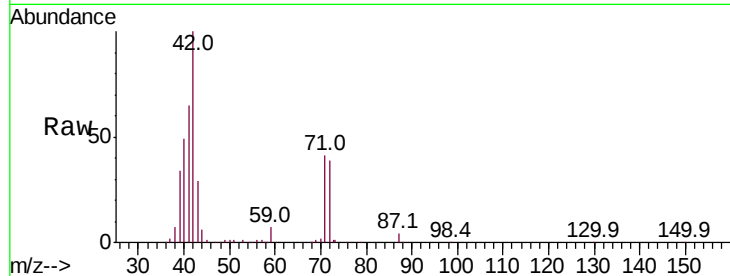
#41
Tetrahydrofuran
Concen: 2.023 ppbv
RT: 6.16 min Scan# 1002
Delta R.T. 0.01 min
Lab File: VL033327.D
Acq: 15 Mar 2019 11:06

Instrument :
MSVOA_L
ClientSampleID :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.4	31.6	47.4
71	38.8	29.9	44.9

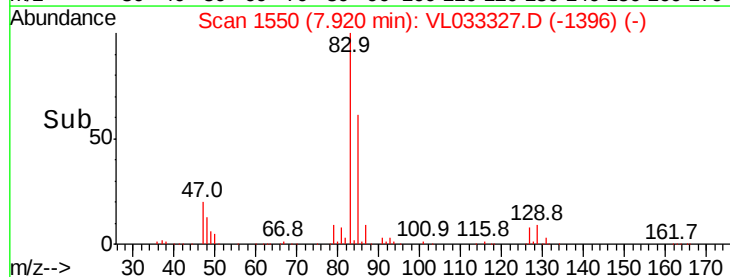
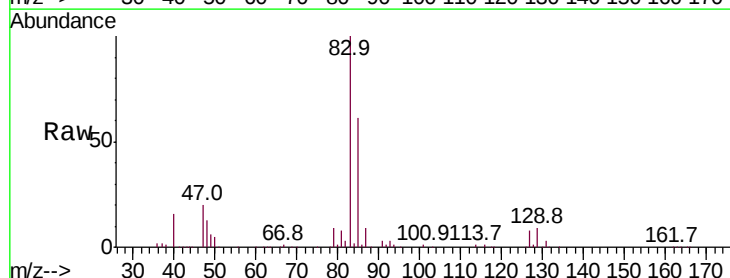
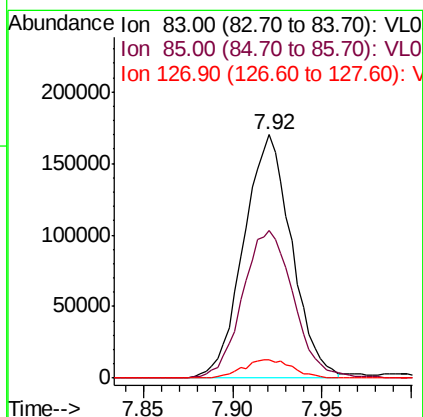
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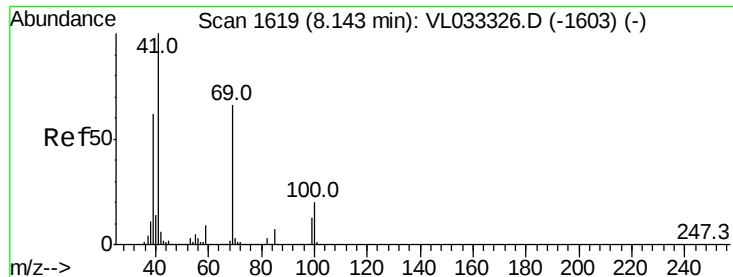
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#42
Bromodichloromethane
Concen: 2.028 ppbv
RT: 7.92 min Scan# 1550
Delta R.T. -0.00 min
Lab File: VL033327.D
Acq: 15 Mar 2019 11:06

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.5	51.8	77.6
127	7.6	6.2	9.2





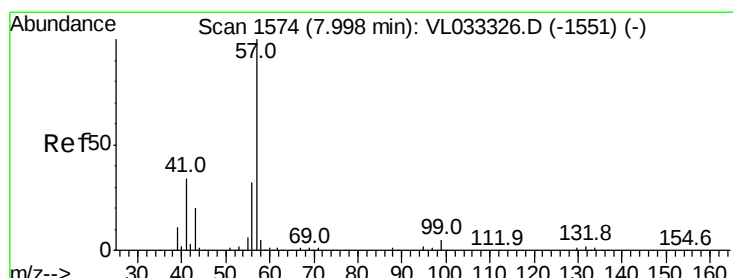
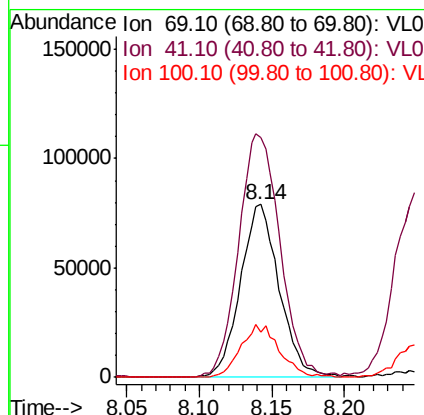
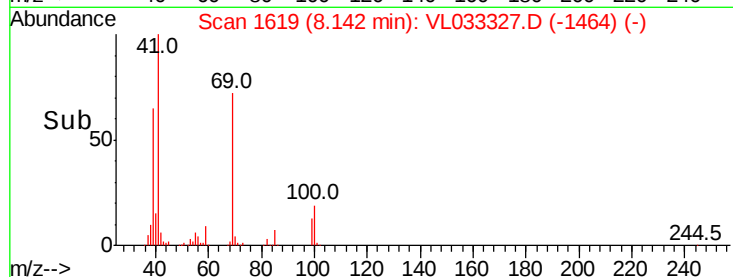
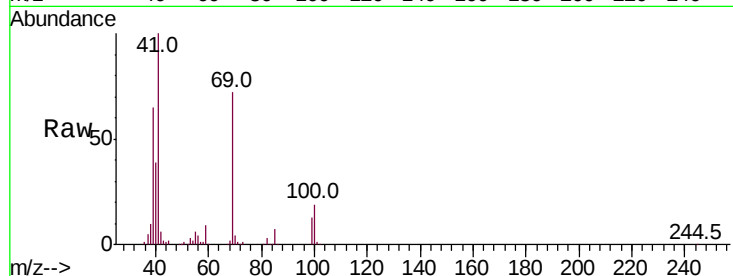
#43
Methyl Methacrylate
Concen: 2.043 ppbv
RT: 8.14 min Scan# 1619
Delta R.T. -0.00 min
Lab File: VL033327.D
Acq: 15 Mar 2019 11:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
69	100		
41	151.1	119.5	179.3
100	30.5	24.4	36.6

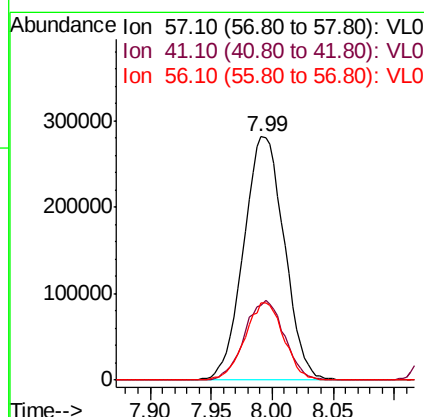
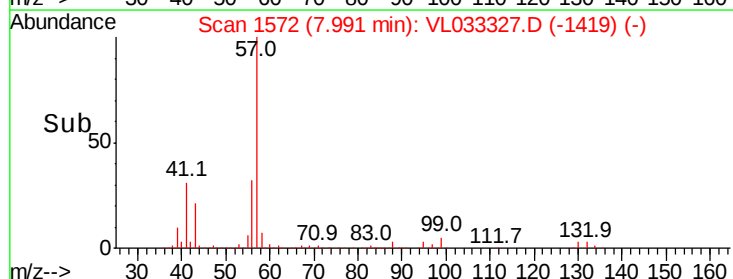
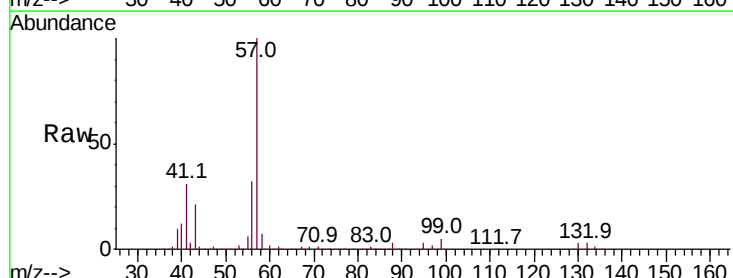
Manual Integrations
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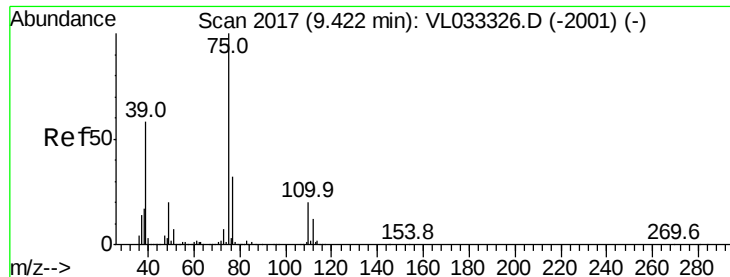
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#44
2,2,4-Trimethylpentane
Concen: 2.091 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.01 min
Lab File: VL033327.D
Acq: 15 Mar 2019 11:06

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.3	26.0	39.0
56	30.6	24.6	36.8





#45

t-1,3-Dichloropropene

Concen: 2.016 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.01 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 75 Resp: 178027

Ion Ratio Lower Upper

75 100

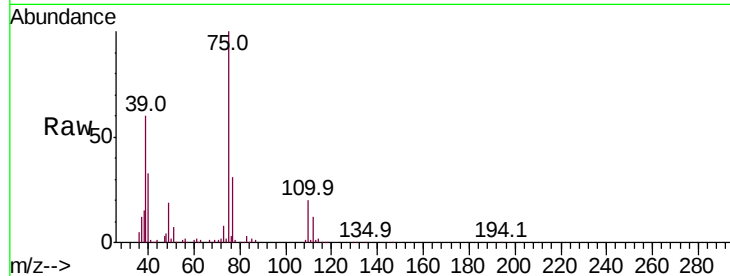
77 31.4 25.5 38.3

Manual Integrations

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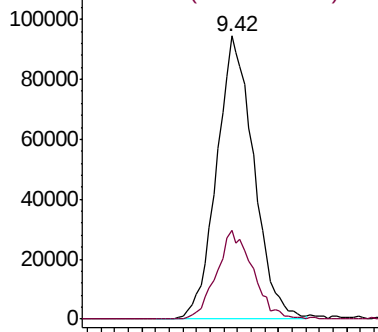
MMDadoda

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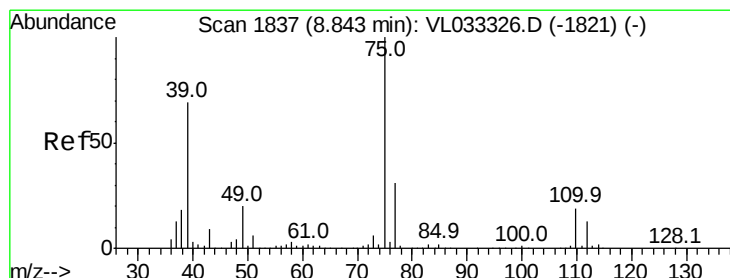
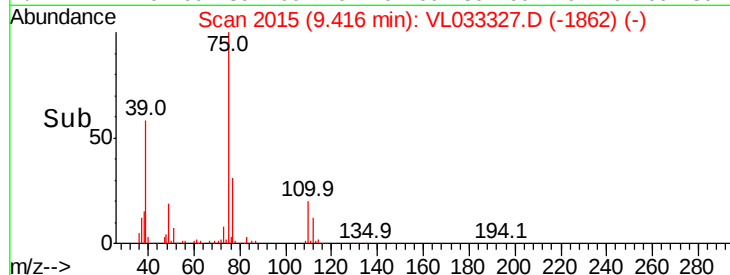


Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



Time-->



#46

cis-1,3-Dichloropropene

Concen: 2.027 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. -0.01 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

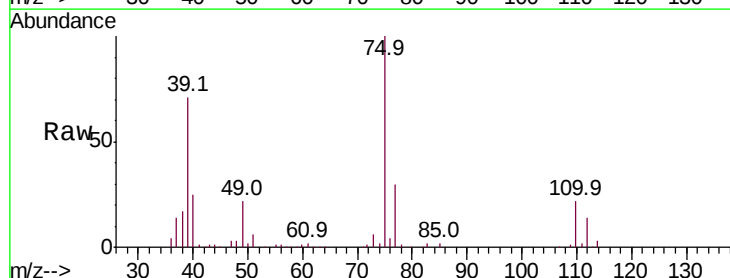
Tgt Ion: 75 Resp: 210339

Ion Ratio Lower Upper

75 100

39 70.7 55.0 82.6

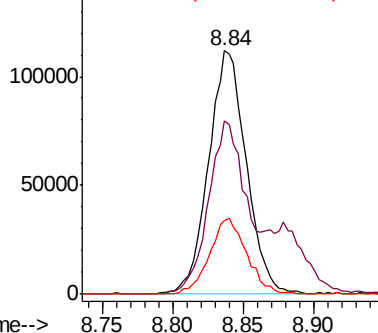
77 29.9 24.5 36.7



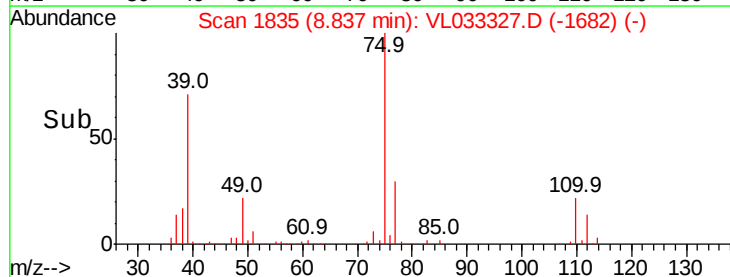
Abundance Ion 75.00 (74.70 to 75.70): VL0

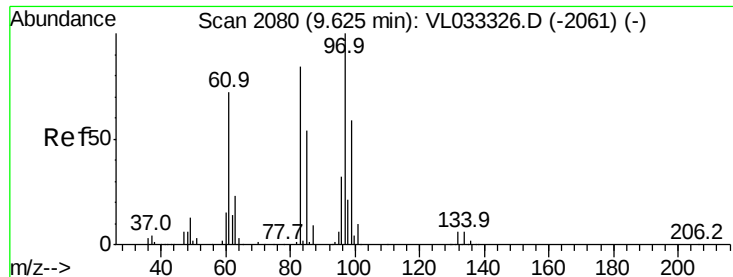
Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0



Time-->





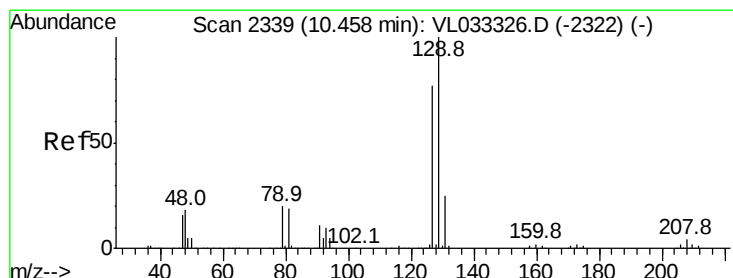
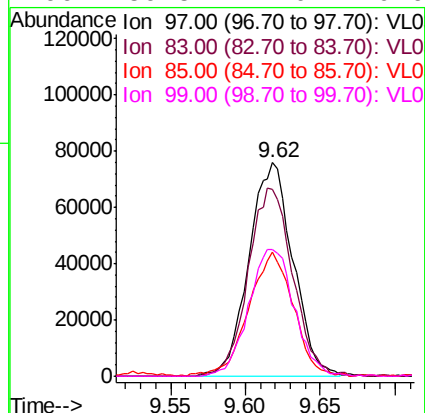
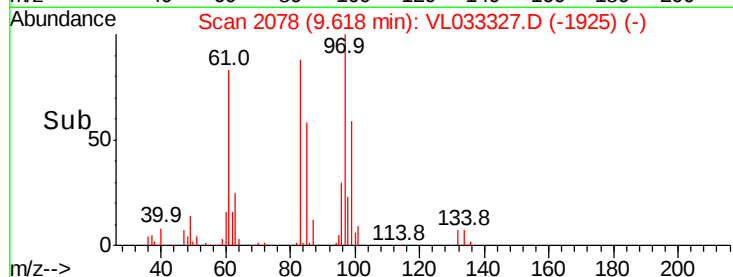
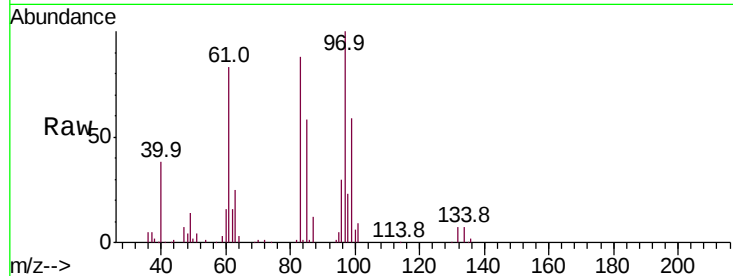
#47
 1,1,2-Trichloroethane
 Concen: 2.047 ppbv
 RT: 9.62 min Scan# 2078
 Delta R.T. -0.01 min
 Lab File: VL033327.D
 Acq: 15 Mar 2019 11:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	97	Resp	154947
Ion Ratio	Lower	Upper	
97	100		
83	87.5	67.4	101.0
85	57.3	43.0	64.4
99	59.5	47.0	70.6

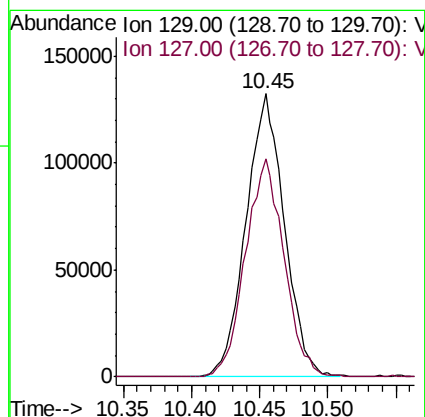
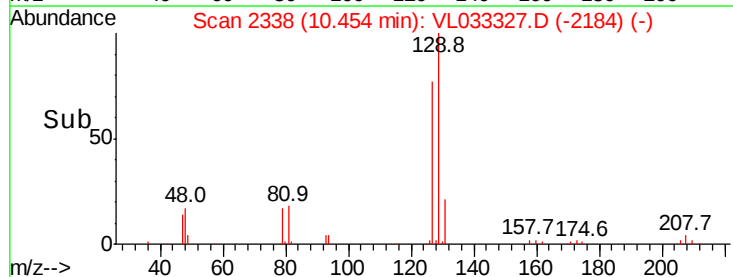
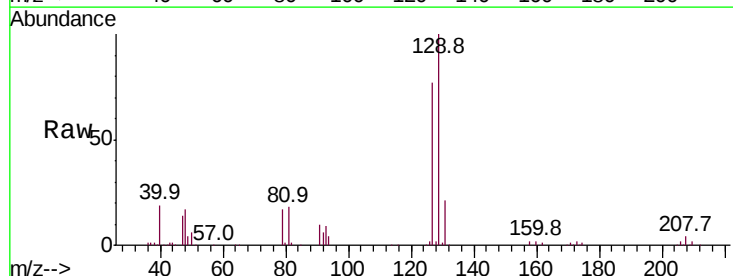
Manual Integrations
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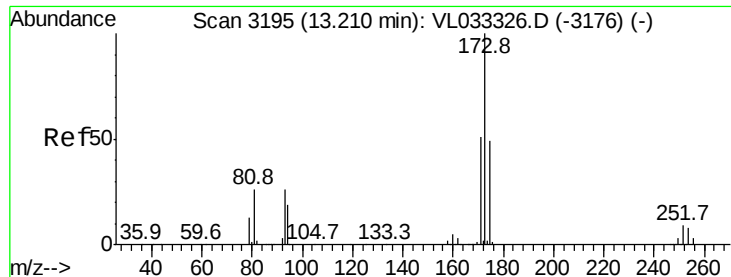
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 3/19/2019 10:02:15 AM



#48
 Dibromochloromethane
 Concen: 1.998 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. -0.00 min
 Lab File: VL033327.D
 Acq: 15 Mar 2019 11:06

Tgt Ion	129	Resp	258466
Ion Ratio	Lower	Upper	
129	100		
127	77.5	38.9	116.6





#49

Bromoform

Concen: 2.066 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. -0.01 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:173 Resp: 241930

Ion Ratio Lower Upper

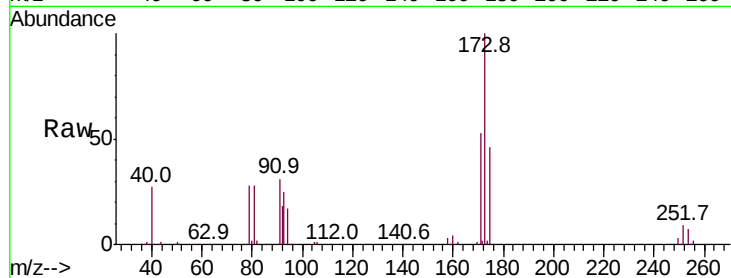
173 100

175 47.6 39.0 58.6

171 51.8 41.7 62.5

Manual Integrations
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MMDadoda
3/19/2019 10:02:15 AM

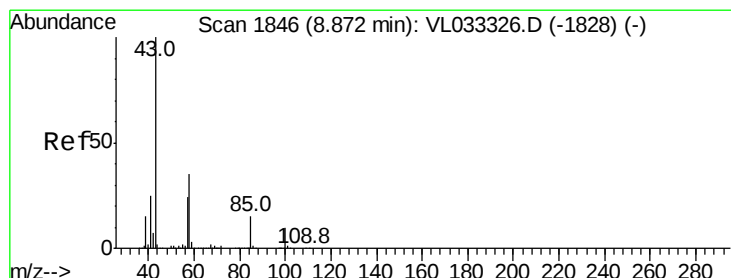
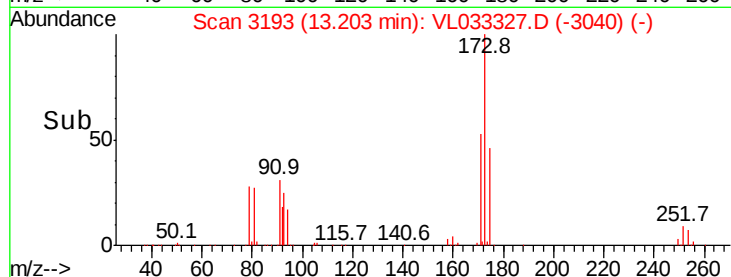
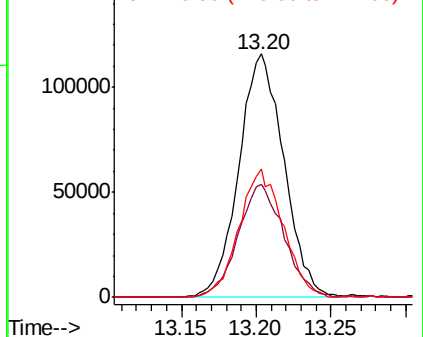


Abundance

Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 2.103 ppbv

RT: 8.88 min Scan# 1847

Delta R.T. 0.00 min

Lab File: VL033327.D

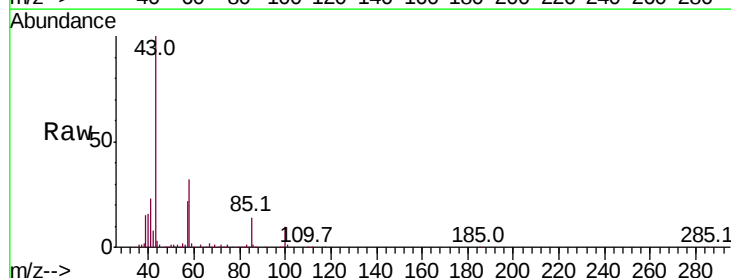
Acq: 15 Mar 2019 11:06

Tgt Ion: 43 Resp: 403688

Ion Ratio Lower Upper

43 100

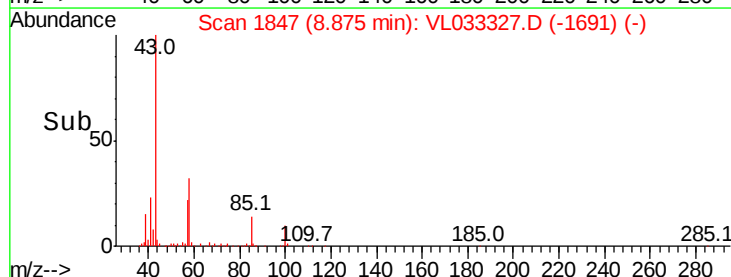
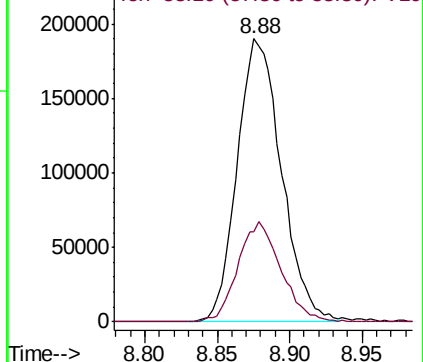
58 34.5 28.4 42.6

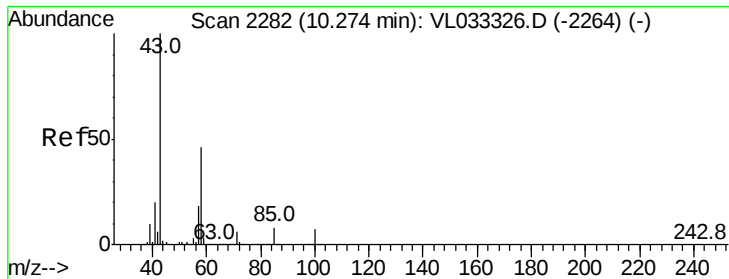


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





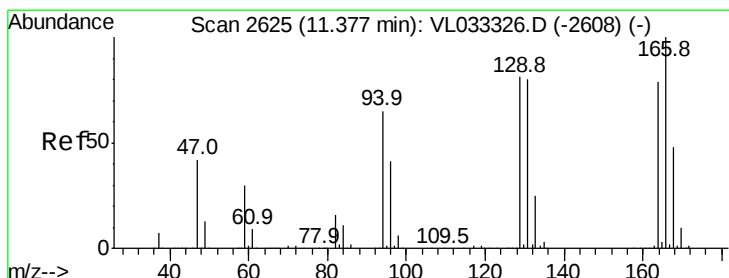
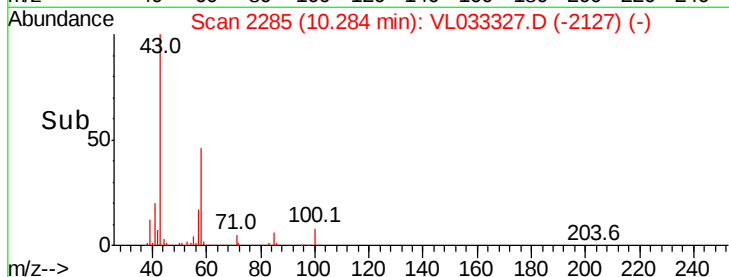
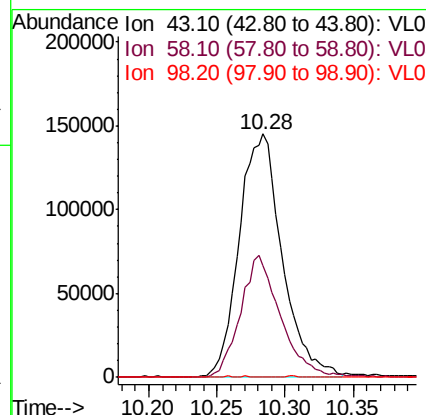
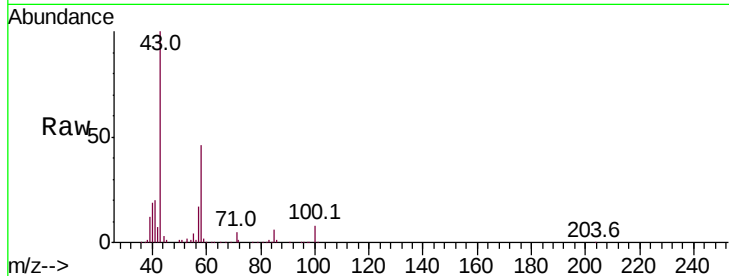
#51
2-Hexanone
Concen: 2.066 ppbv
RT: 10.28 min Scan# 2285
Delta R.T. 0.01 min
Lab File: VL033327.D
Acq: 15 Mar 2019 11:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
58	47.3	38.0	57.0
98	0.2	0.1	0.1#

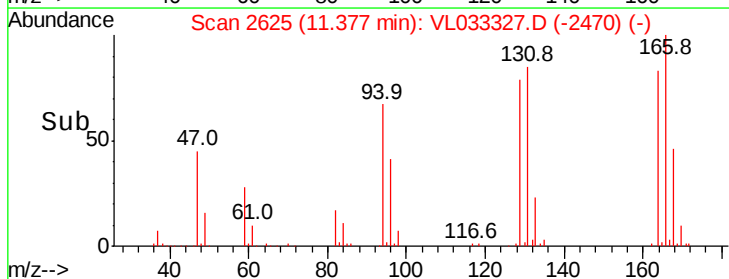
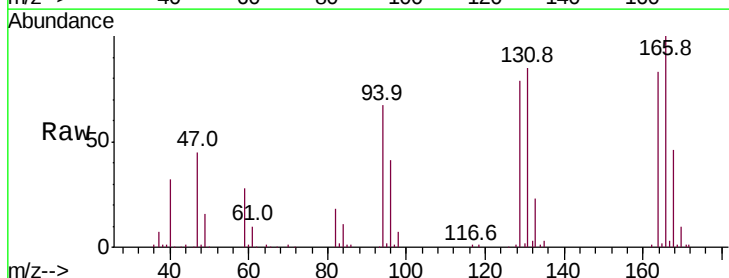
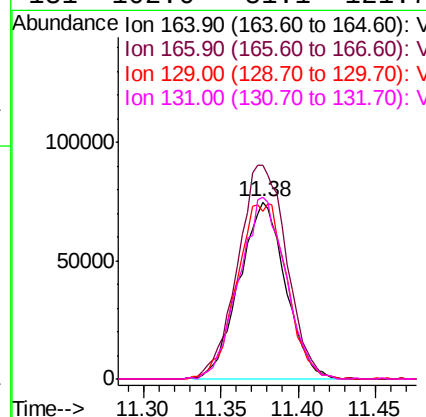
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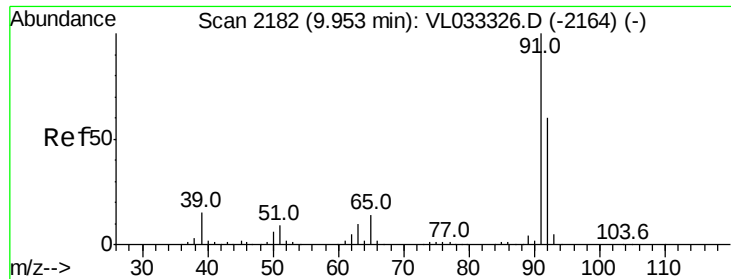
MMDadoda
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#52
Tetrachloroethene
Concen: 2.080 ppbv
RT: 11.38 min Scan# 2625
Delta R.T. -0.00 min
Lab File: VL033327.D
Acq: 15 Mar 2019 11:06

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.2	101.5	152.3
129	95.1	82.2	123.2
131	102.6	81.1	121.7





#53

Toluene

Concen: 2.047 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 431810

Ion Ratio Lower Upper

91 100

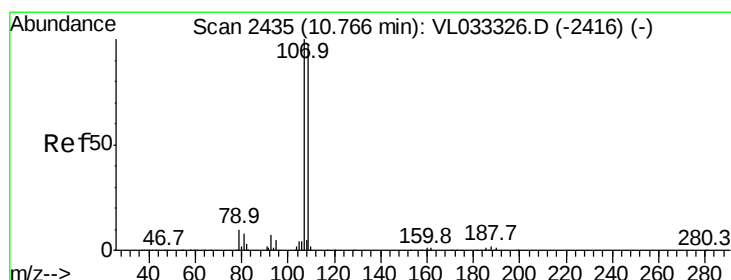
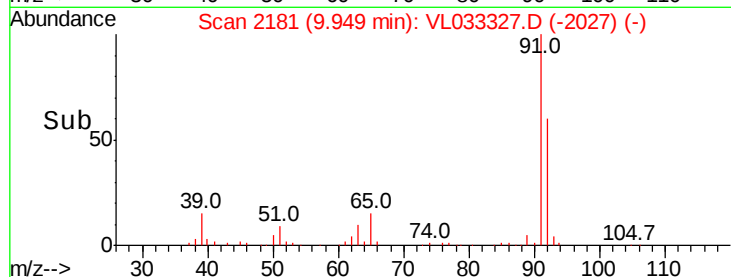
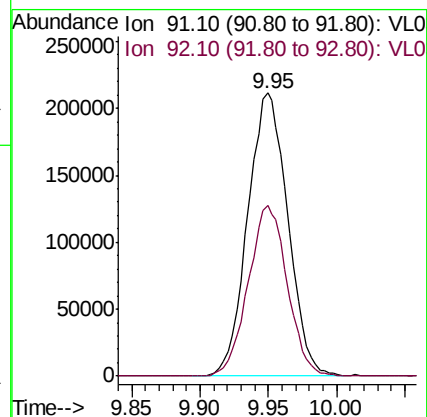
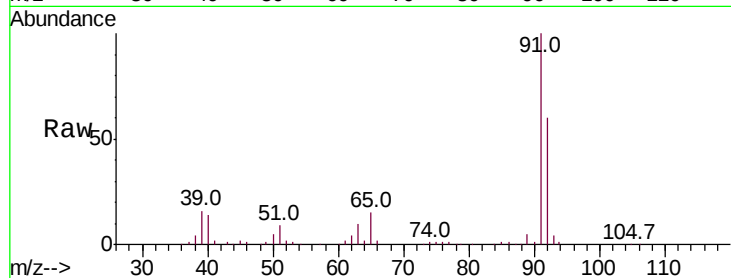
92 58.7 47.4 71.0

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#54

1,2-Dibromoethane

Concen: 2.121 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. -0.00 min

Lab File: VL033327.D

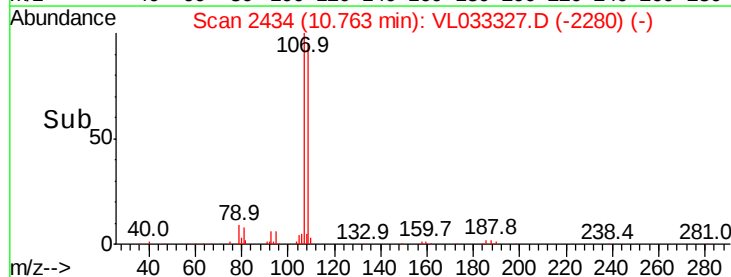
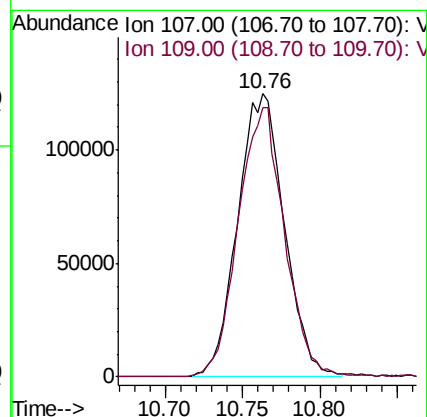
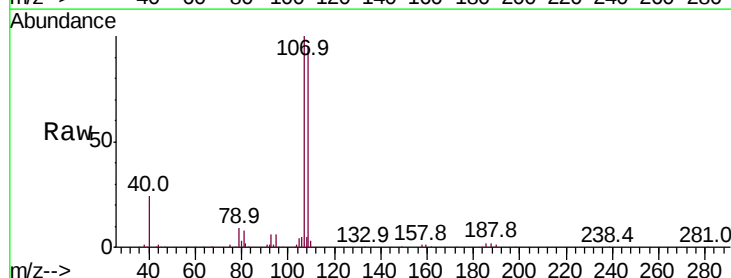
Acq: 15 Mar 2019 11:06

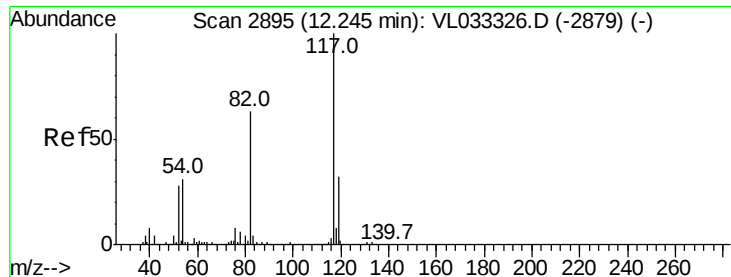
Tgt Ion: 107 Resp: 261656

Ion Ratio Lower Upper

107 100

109 94.4 77.2 115.8





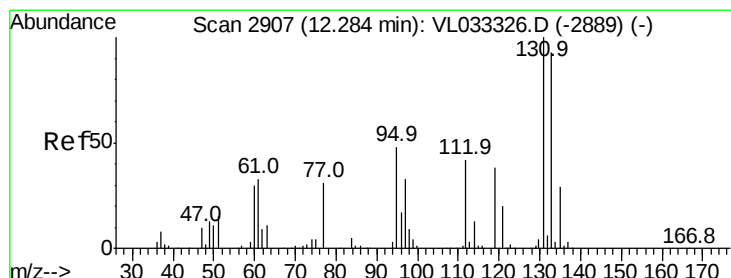
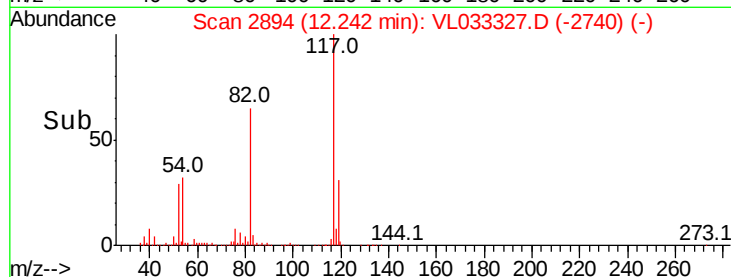
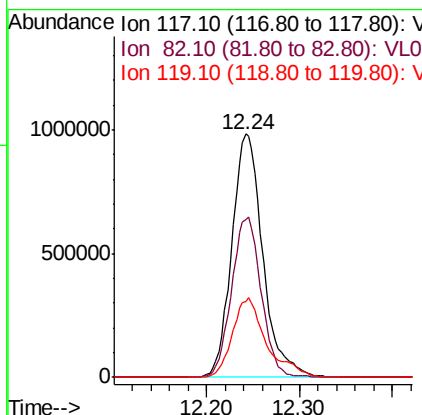
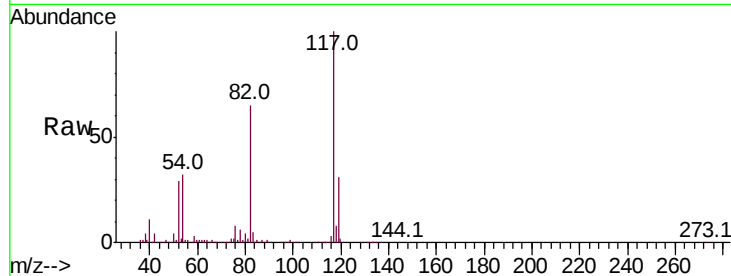
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033327.D
Acq: 15 Mar 2019 11:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion:117 Resp: 2277876
Ion Ratio Lower Upper
117 100
82 63.1 53.4 80.2
119 36.0 27.3 40.9

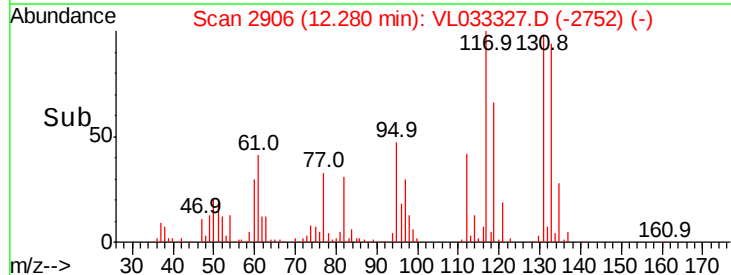
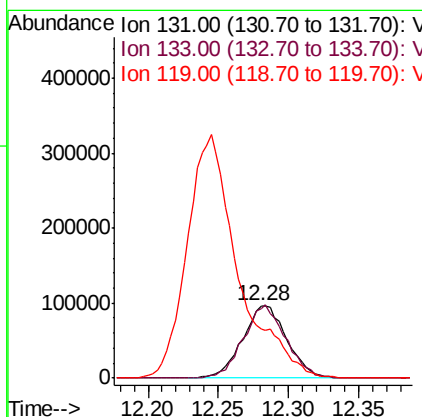
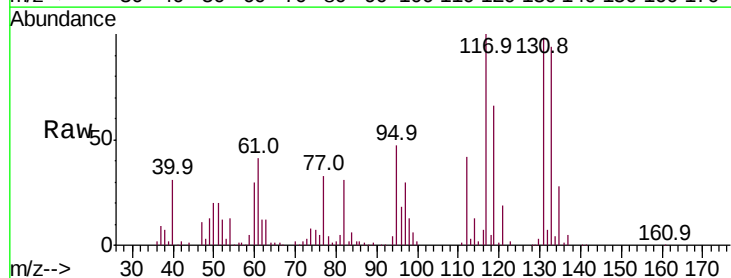
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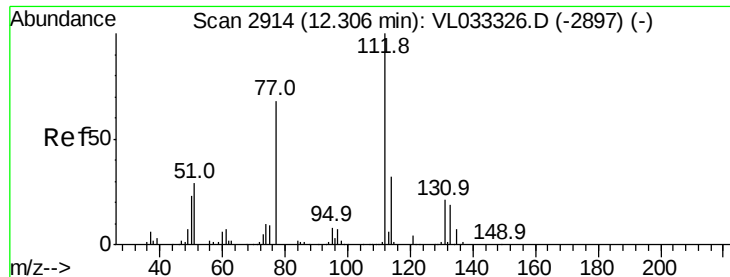
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#56
1,1,1,2-Tetrachloroethane
Concen: 2.083 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL033327.D
Acq: 15 Mar 2019 11:06

Tgt Ion:131 Resp: 212918
Ion Ratio Lower Upper
131 100
133 95.8 76.7 115.1
119 385.0 40.3 60.5#





#57

Chlorobenzene

Concen: 2.035 ppbv

RT: 12.30 min Scan# 2912

Delta R.T. -0.01 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

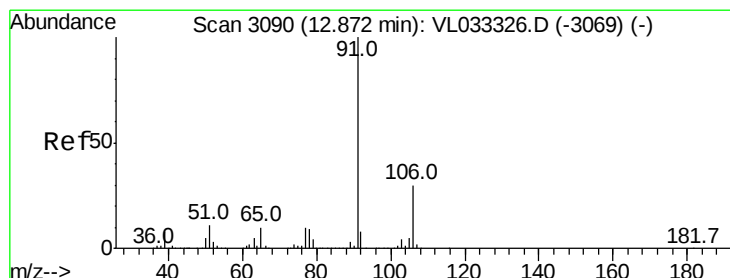
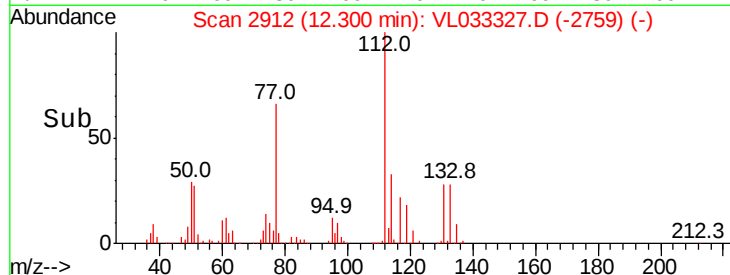
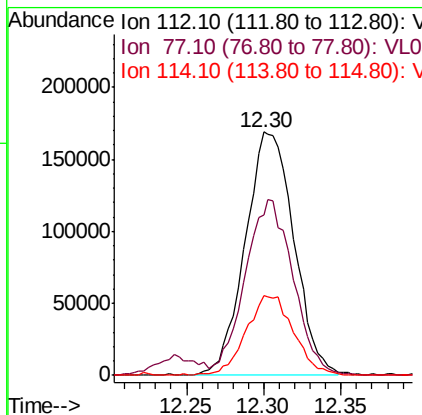
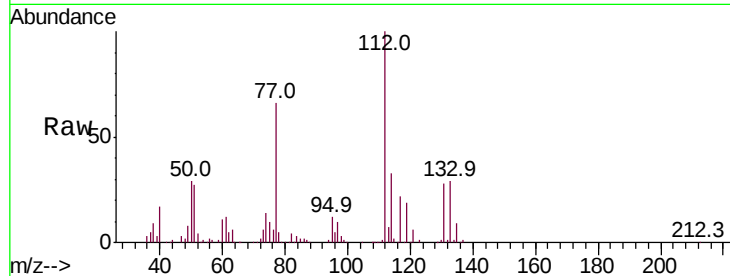
ClientSampleId :

VSTDIC002

Tot Ion:	112	Resp:	368182
Ion Ratio	Lower	Upper	
112	100		
77	65.0	55.8	83.6
114	33.0	28.6	35.0

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#58

Ethyl Benzene

Concen: 2.082 ppbv

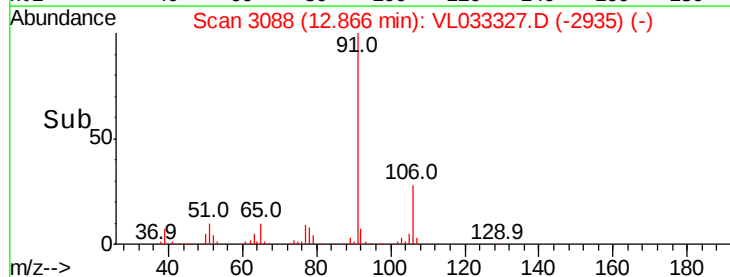
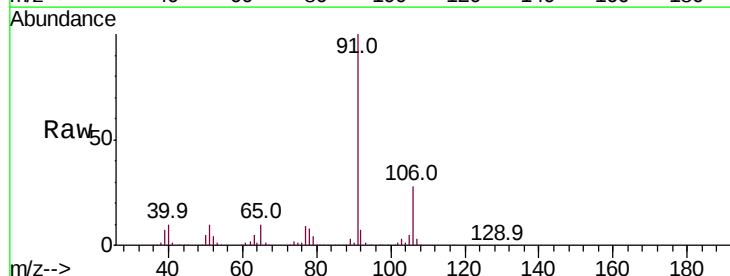
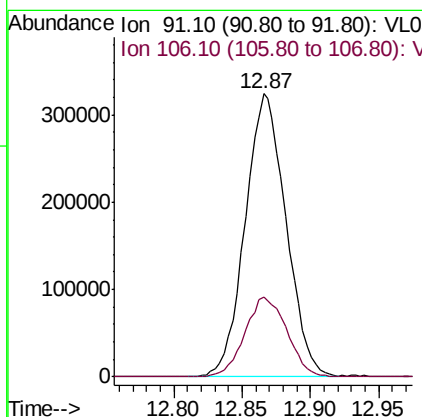
RT: 12.87 min Scan# 3088

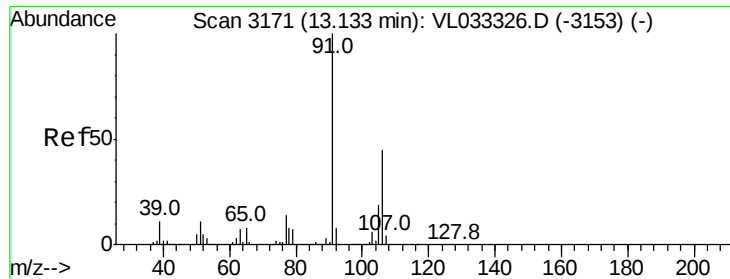
Delta R.T. -0.01 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Tgt Ion:	91	Resp:	671012
Ion Ratio	Lower	Upper	
91	100		
106	28.4	24.2	36.2





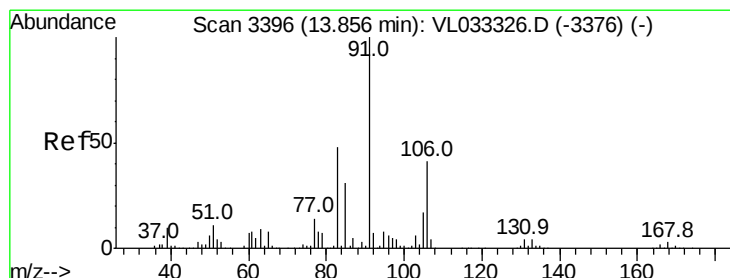
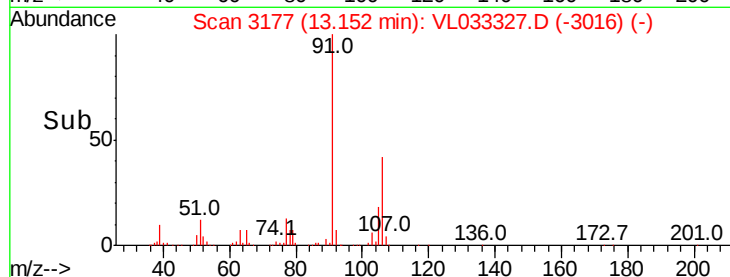
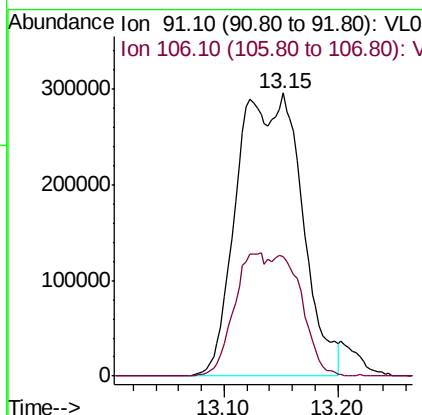
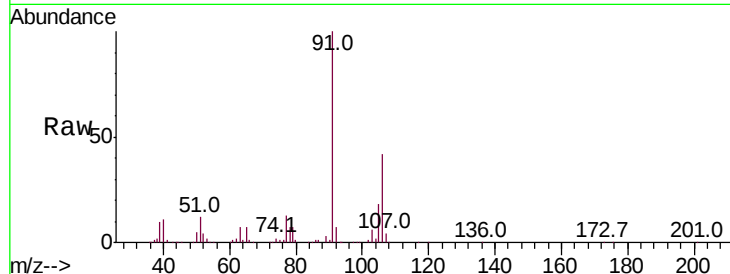
#59
m/p-Xylene
Concen: 4.262 ppbv m
RT: 13.15 min Scan# 3177
Delta R.T. 0.02 min
Lab File: VL033327.D
Acq: 15 Mar 2019 11:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 1170130
Ion Ratio Lower Upper
91 100
106 43.3 0.0 0.0#

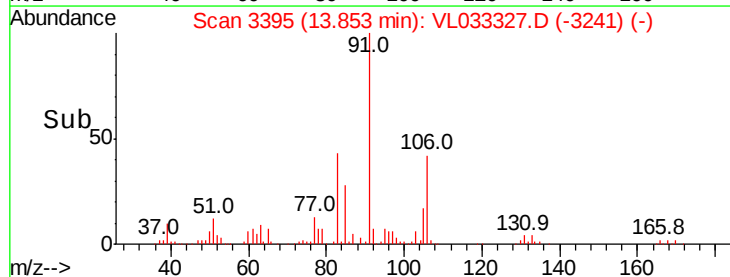
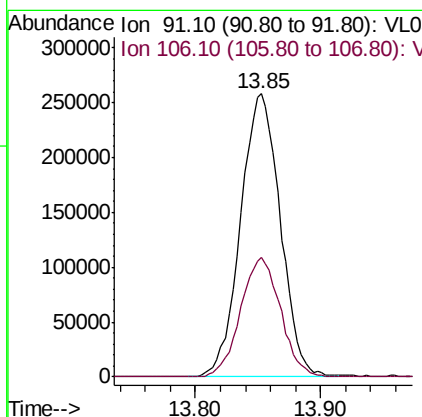
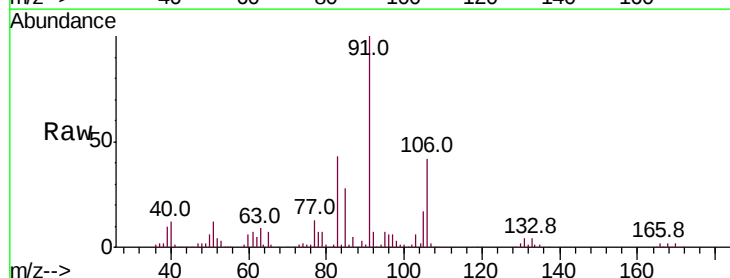
Manual Integrations
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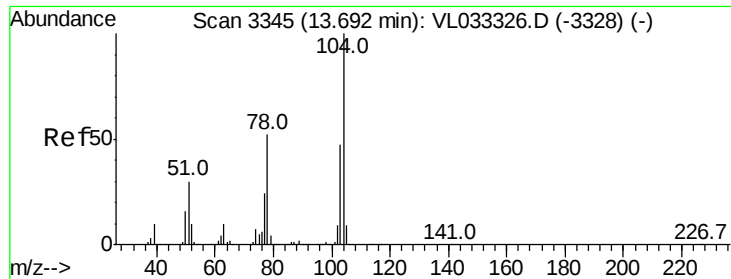
MMDadoda
3/19/2019 10:02:15 AM



#60
o-Xylene
Concen: 2.110 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL033327.D
Acq: 15 Mar 2019 11:06

Tgt Ion: 91 Resp: 567510
Ion Ratio Lower Upper
91 100
106 42.4 21.3 63.9





#61

Stvrene

Concen: 2.124 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

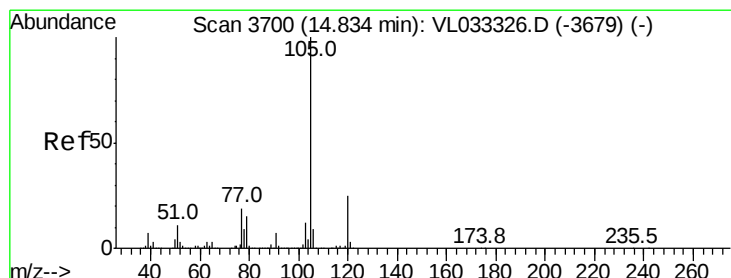
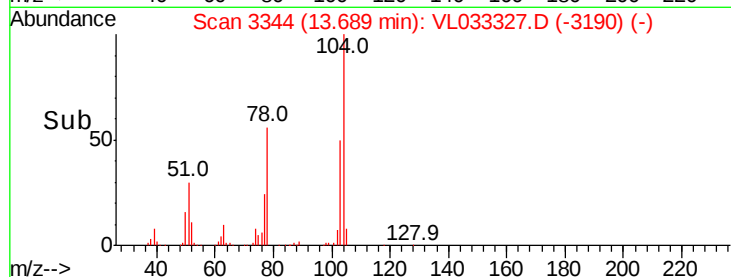
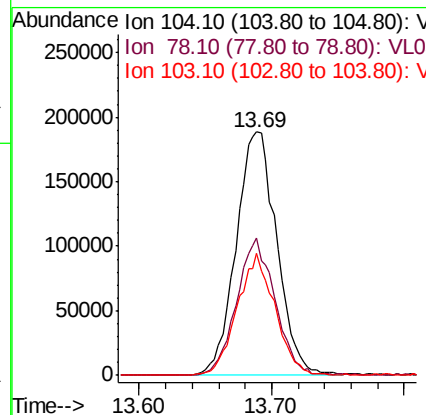
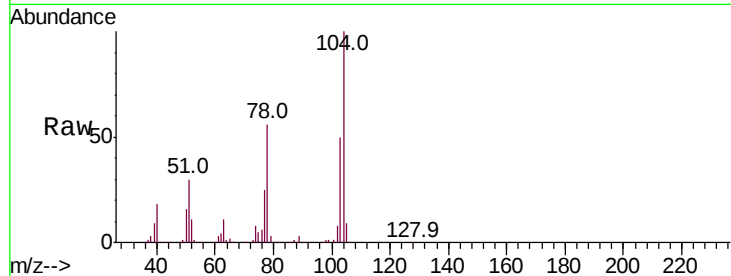
ClientSampleId :

VSTDIC002

Tot Ion:	104	Resp:	398903
Ion Ratio	Lower	Upper	
104	100		
78	53.9	42.7	64.1
103	46.8	38.0	57.0

Manual Integrations
APPROVED

MMDadoda
3/19/2019 10:02:15 AM



#62

Isopropylbenzene

Concen: 2.096 ppbv

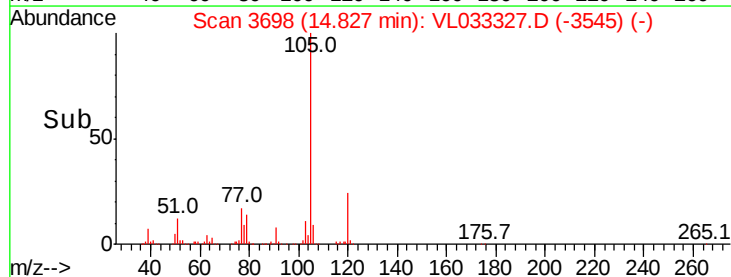
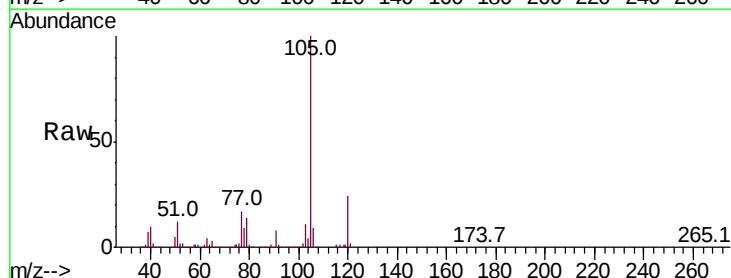
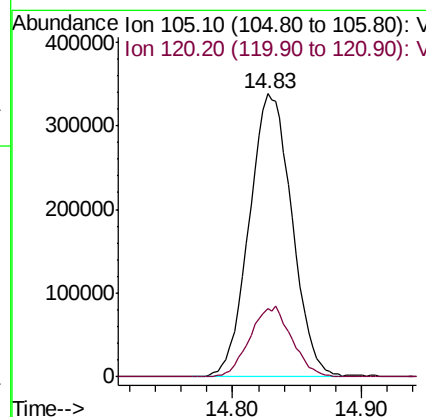
RT: 14.83 min Scan# 3698

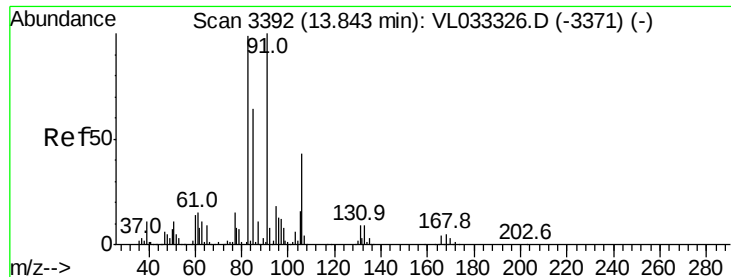
Delta R.T. -0.01 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Tgt Ion:	105	Resp:	779148
Ion Ratio	Lower	Upper	
105	100		
120	24.5	19.9	29.9





#63

1,1,2,2-Tetrachloroethane

Concen: 1.952 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 83 Resp: 396828

Ion Ratio Lower Upper

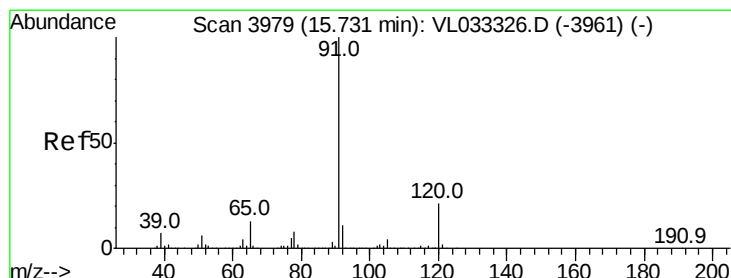
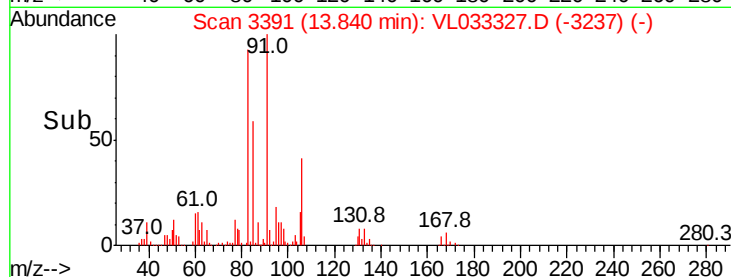
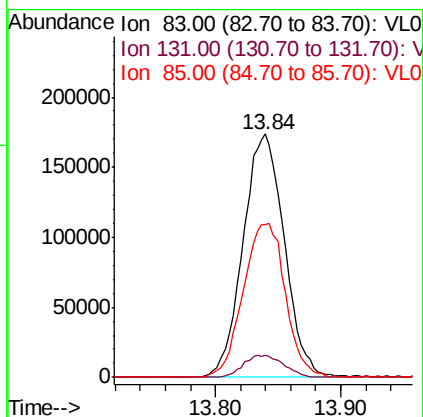
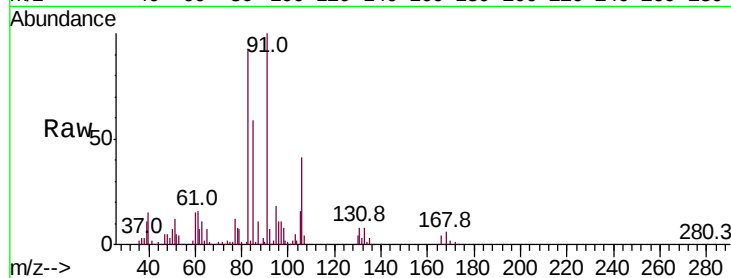
83 100

131 9.0 4.7 14.0

85 64.7 32.5 97.4

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#64

n-propylbenzene

Concen: 2.130 ppbv

RT: 15.72 min Scan# 3977

Delta R.T. -0.01 min

Lab File: VL033327.D

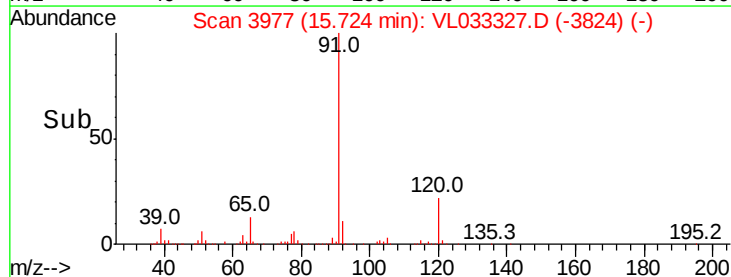
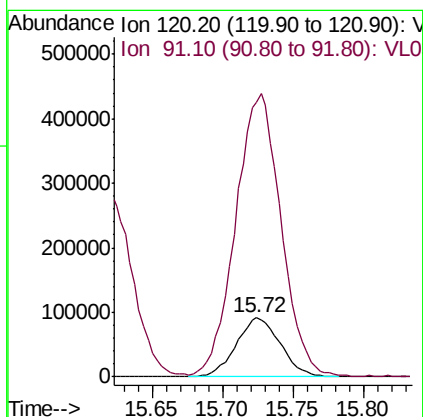
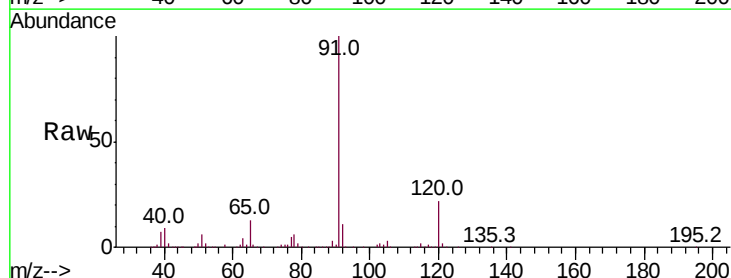
Acq: 15 Mar 2019 11:06

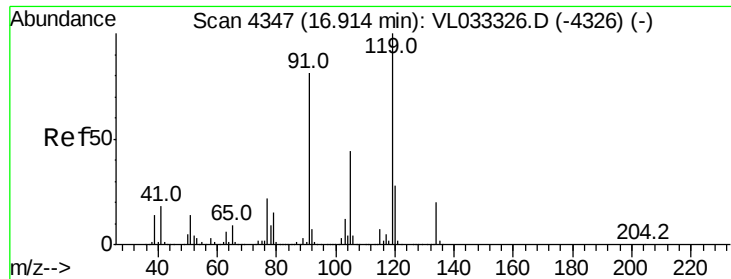
Tgt Ion: 120 Resp: 199821

Ion Ratio Lower Upper

120 100

91 493.7 389.8 584.6





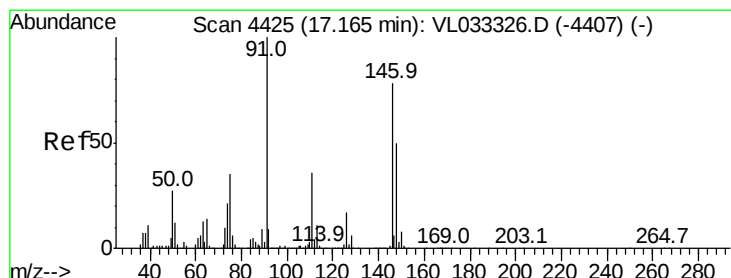
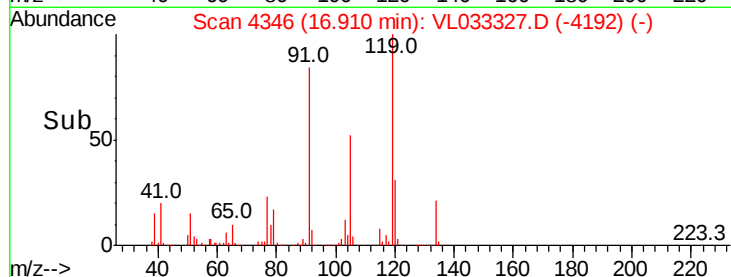
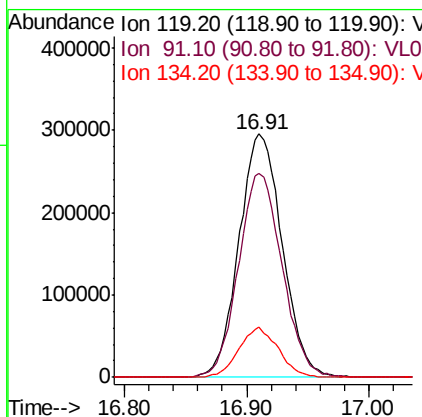
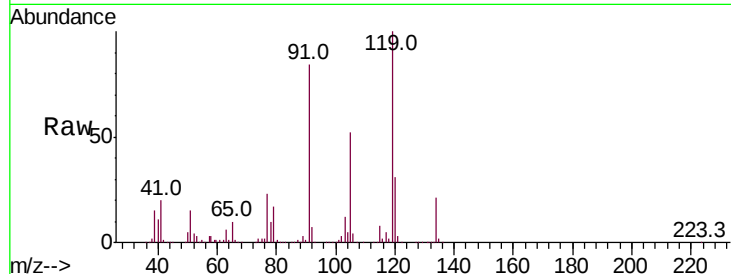
#65
tert-Butylbenzene
Concen: 2.114 ppbv
RT: 16.91 min Scan# 4346
Delta R.T. -0.00 min
Lab File: VL033327.D
Acq: 15 Mar 2019 11:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
119	100	724028		
91	84.4	67.2	100.8	
134	18.8	15.4	23.2	

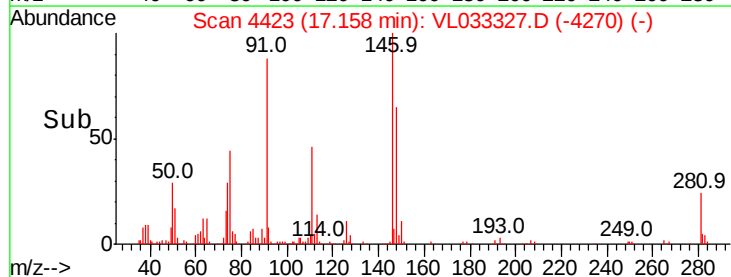
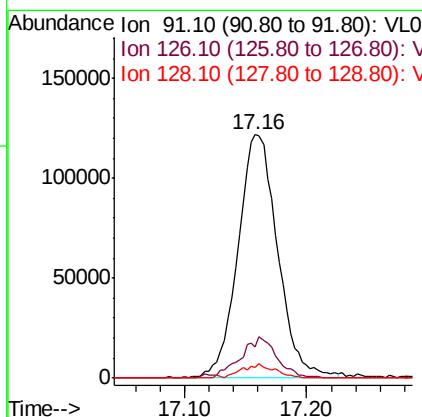
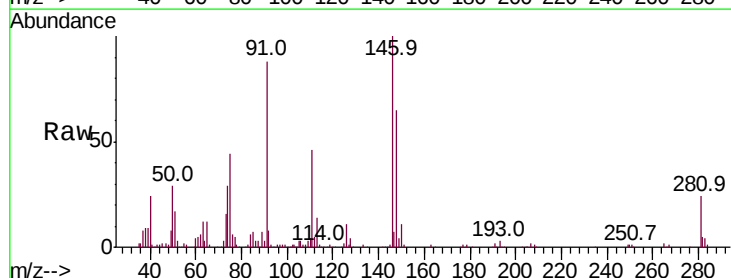
Manual Integrations
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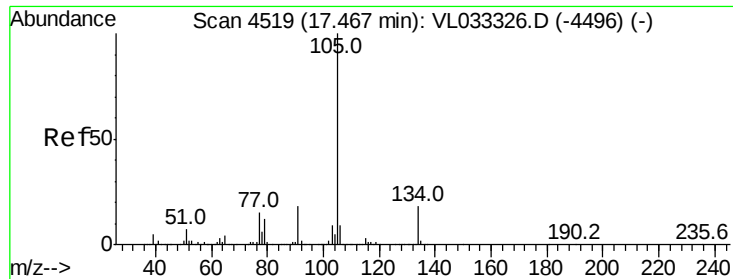
MMDadoda
3/19/2019 10:02:15 AM



#66
Benzyl Chloride
Concen: 1.956 ppbv
RT: 17.16 min Scan# 4423
Delta R.T. -0.01 min
Lab File: VL033327.D
Acq: 15 Mar 2019 11:06

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	273386		
126	15.8	13.2	19.8	
128	5.1	4.2	6.4	





#67

sec-Butylbenzene

Concen: 2.052 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.01 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 105 Resp: 1004563

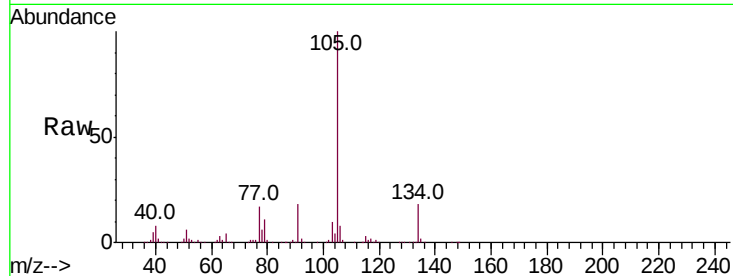
Ion Ratio Lower Upper

105 100

134 17.9 14.2 21.4

Manual Integrations
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MMDadoda
3/19/2019 10:02:15 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.46

400000

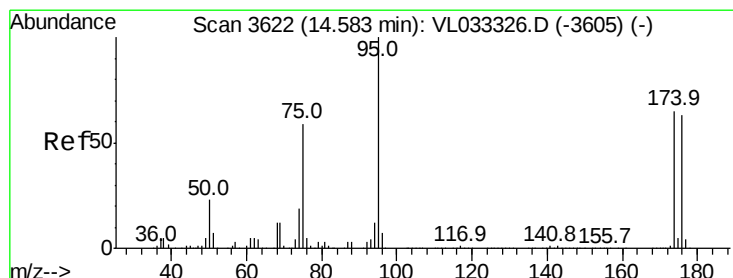
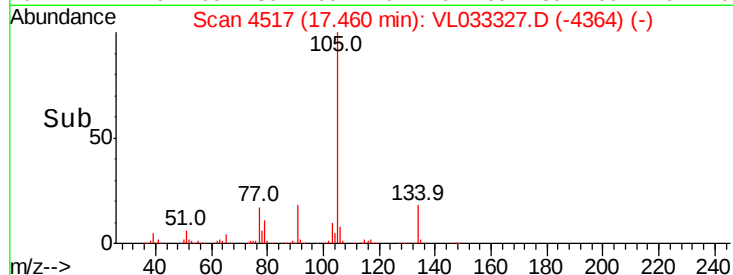
300000

200000

100000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.446 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

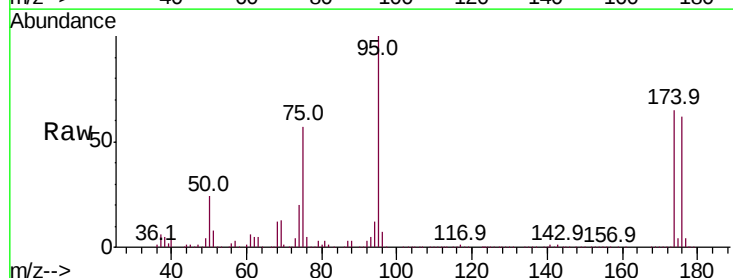
Tgt Ion: 95 Resp: 1635456

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

1000000

800000

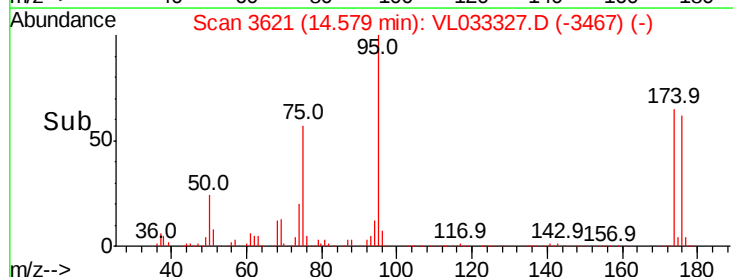
600000

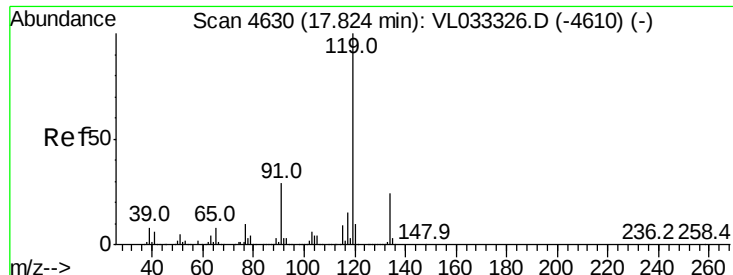
400000

200000

0

Time-->





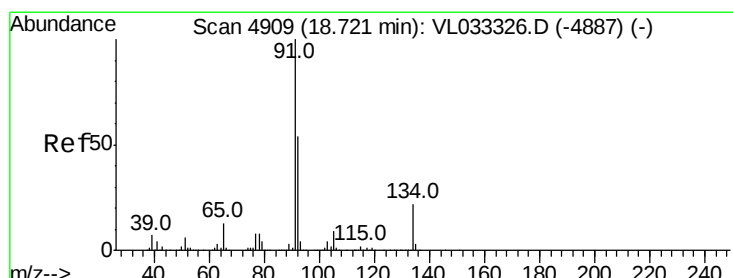
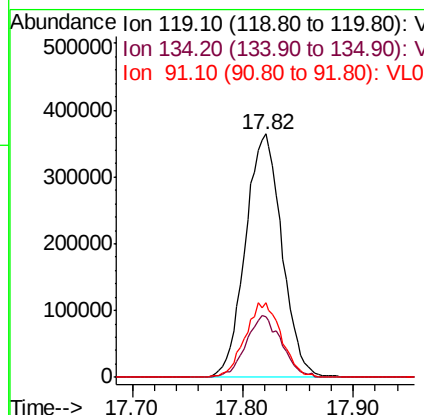
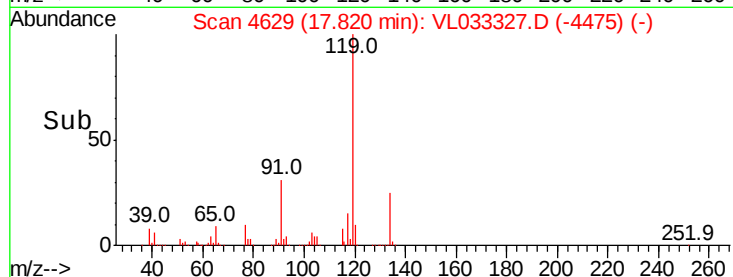
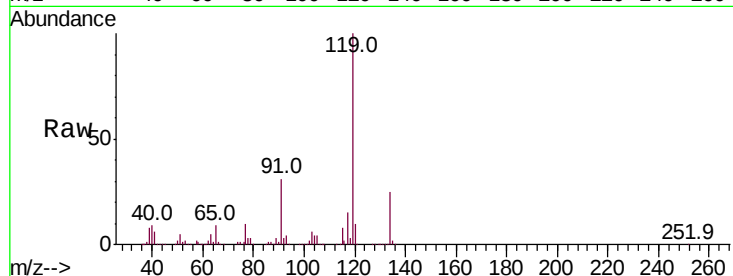
#69
 p-Isopropyltoluene
 Concen: 2.098 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. -0.00 min
 Lab File: VL033327.D
 Acq: 15 Mar 2019 11:06

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC002

Tot Ion:	119	Resp:	835823
Ion Ratio	Lower	Upper	
119	100		
134	24.7	19.8	29.6
91	30.6	23.4	35.2

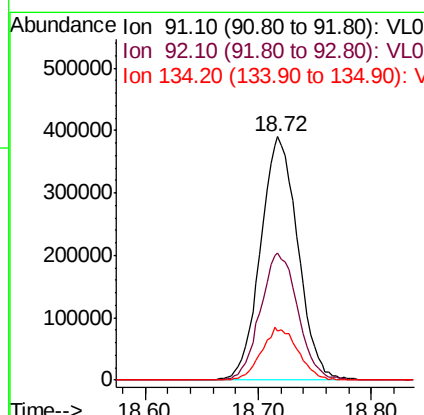
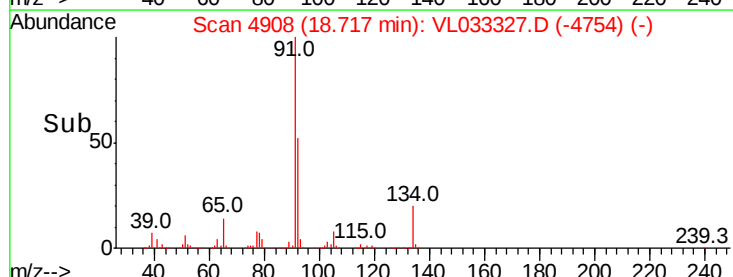
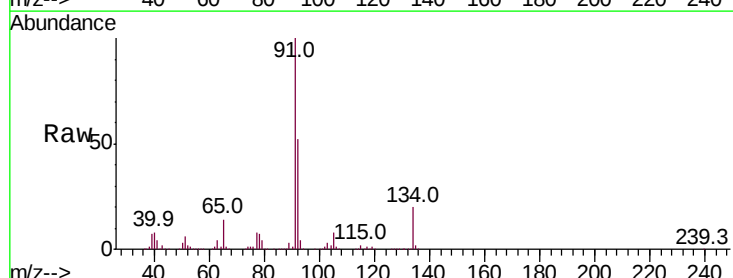
Manual Integrations
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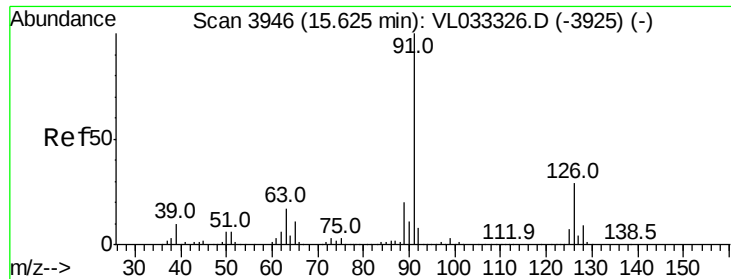
MMDadoda
 3/19/2019 10:02:15 AM



#70
 n-Butylbenzene
 Concen: 2.088 ppbv
 RT: 18.72 min Scan# 4908
 Delta R.T. -0.00 min
 Lab File: VL033327.D
 Acq: 15 Mar 2019 11:06

Tgt Ion:	91	Resp:	888630
Ion Ratio	Lower	Upper	
91	100		
92	52.7	42.8	64.2
134	21.0	17.4	26.0





#71

2-Chlorotoluene

Concen: 2.066 ppbv

RT: 15.62 min Scan# 3945

Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 611525

Ion Ratio Lower Upper

91 100

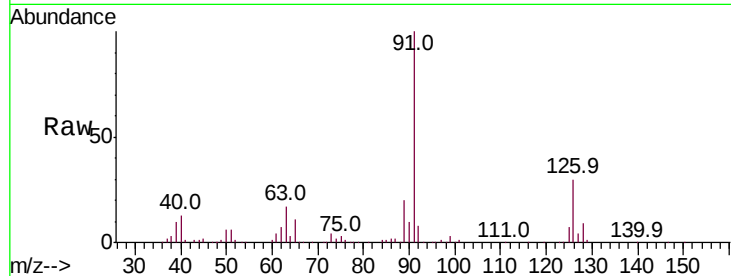
126 28.6 11.6 46.6

Manual Integrations

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MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

500000

400000

300000

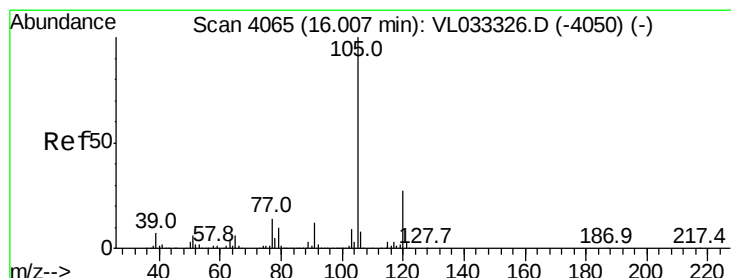
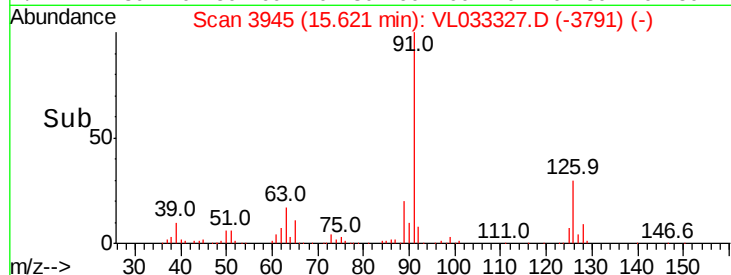
200000

100000

0

15.55 15.60 15.65 15.70

Time-->



#72

4-Ethyltoluene

Concen: 2.111 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Tgt Ion:105 Resp: 647889

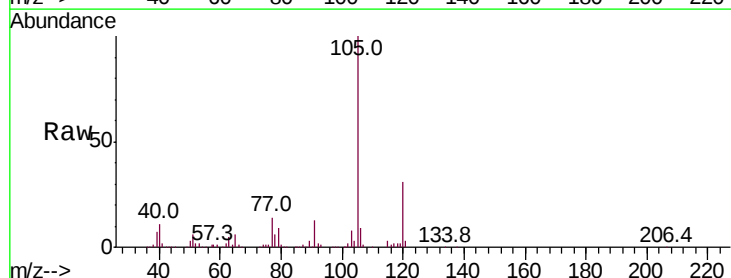
Ion Ratio Lower Upper

105 100

120 28.6 22.9 34.3

91 13.0 10.2 15.2

77 14.2 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

400000

300000

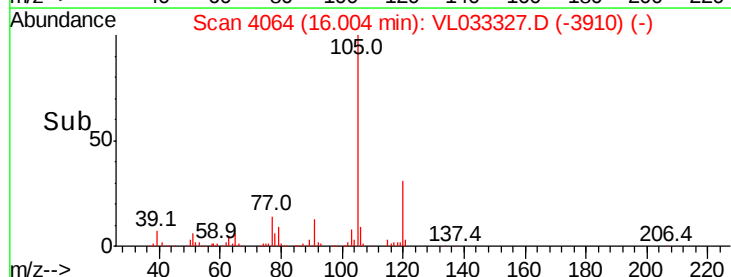
200000

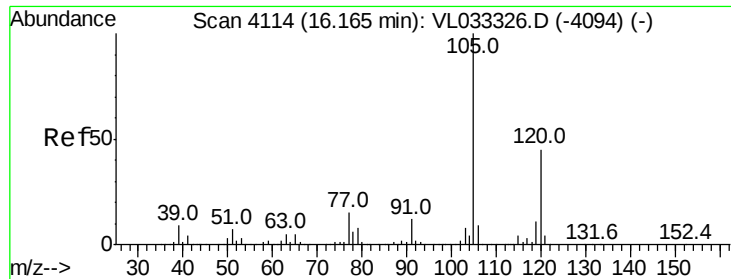
100000

0

15.90 16.00 16.10

Time-->





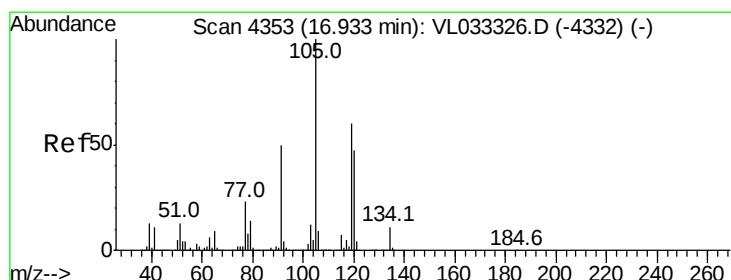
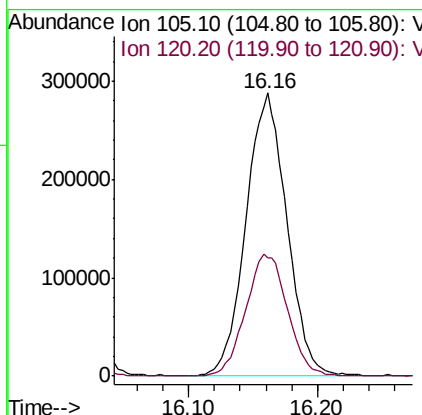
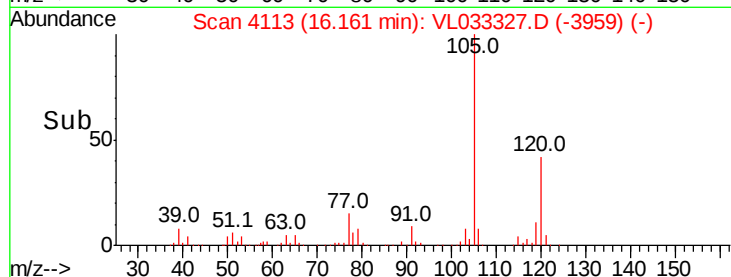
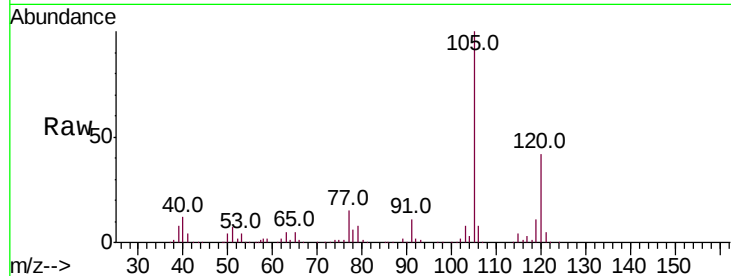
#73
 1,3,5-Trimethylbenzene
 Concen: 2.090 ppbv
 RT: 16.16 min Scan# 4113
 Delta R.T. -0.00 min
 Lab File: VL033327.D
 Acq: 15 Mar 2019 11:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:105 Resp: 635126
 Ion Ratio Lower Upper
 105 100
 120 41.7 36.2 54.4

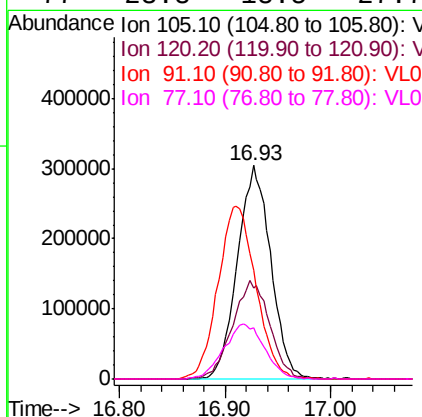
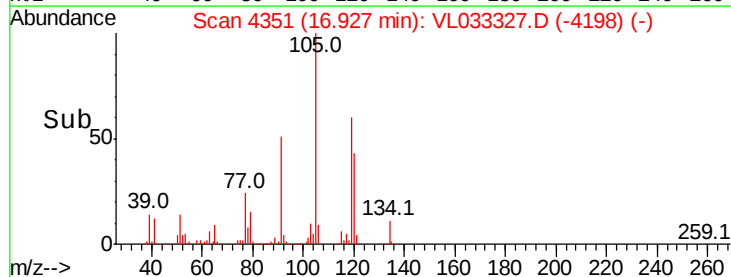
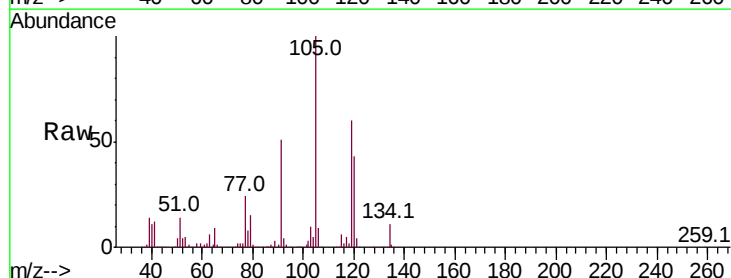
Manual Integrations
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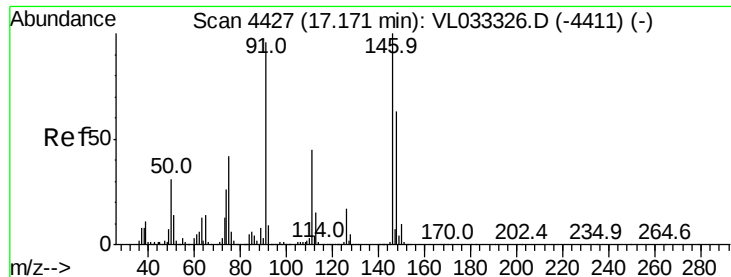
MMDadoda
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#74
 1,2,4-Trimethylbenzene
 Concen: 2.094 ppbv
 RT: 16.93 min Scan# 4351
 Delta R.T. -0.01 min
 Lab File: VL033327.D
 Acq: 15 Mar 2019 11:06

Tgt Ion:105 Resp: 669687
 Ion Ratio Lower Upper
 105 100
 120 42.8 37.4 56.2
 91 50.7 41.0 61.4
 77 23.8 18.5 27.7





#75

1,3-Dichlorobenzene

Concen: 2.071 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Instrument :

MSVOA_L

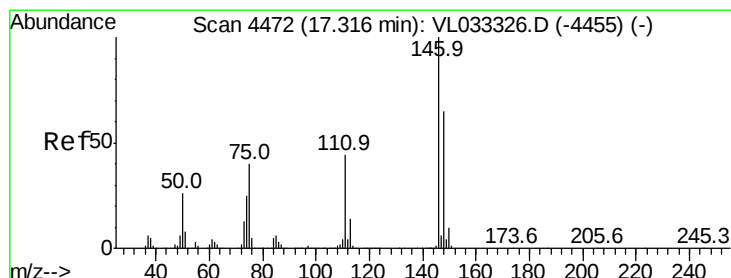
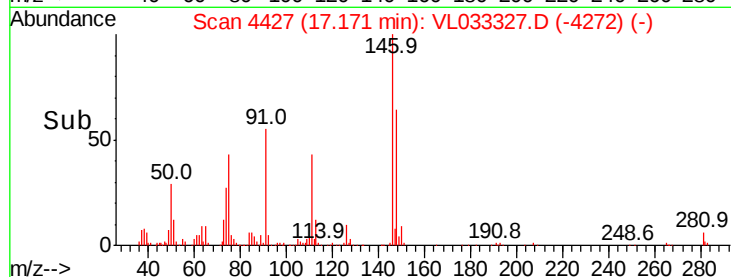
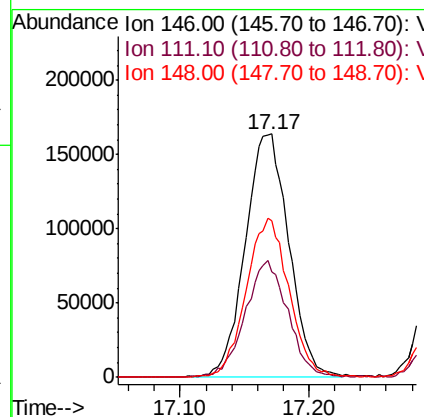
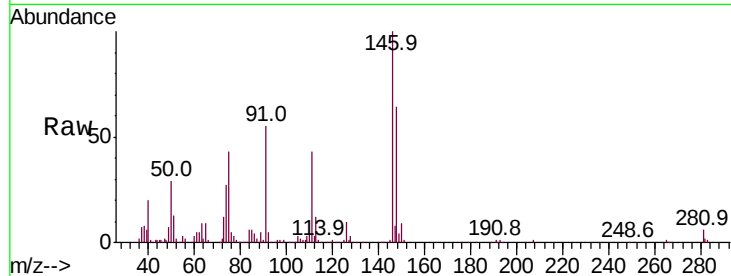
ClientSampleId :

VSTDIC002

Tot Ion:	146	Resp:	385207
Ion Ratio	Lower	Upper	
146	100		
111	47.2	22.8	68.3
148	64.6	31.9	95.7

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 2.065 ppbv

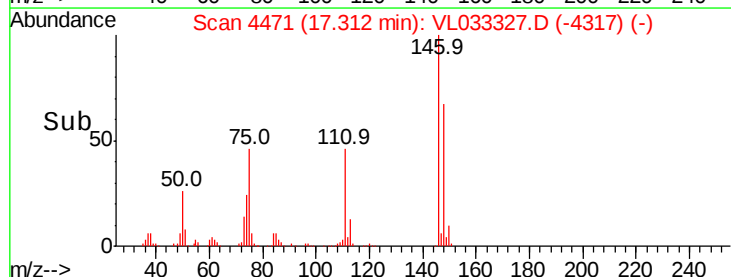
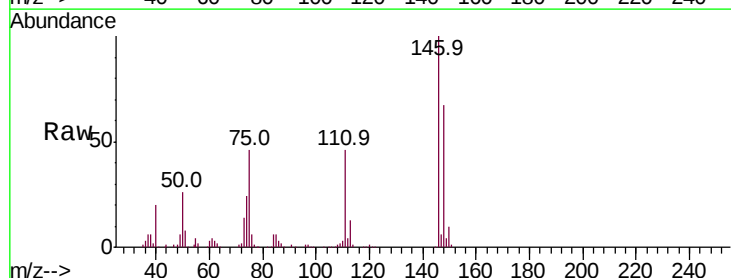
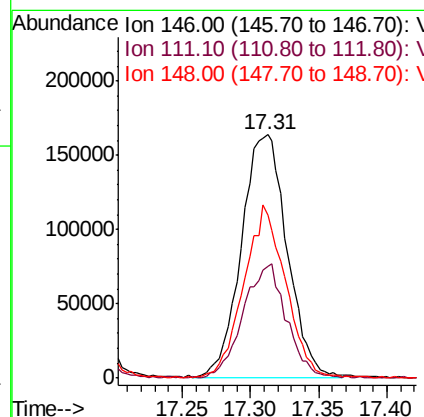
RT: 17.31 min Scan# 4471

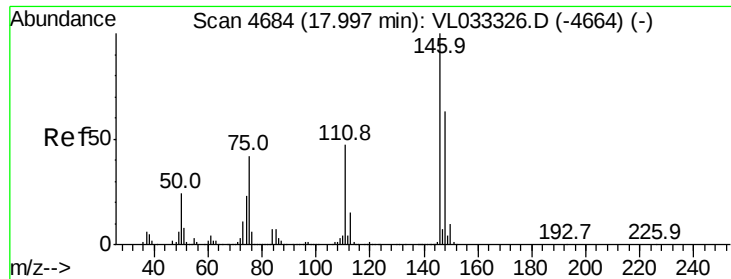
Delta R.T. -0.00 min

Lab File: VL033327.D

Acq: 15 Mar 2019 11:06

Tgt Ion:	146	Resp:	378361
Ion Ratio	Lower	Upper	
146	100		
111	45.3	21.9	65.7
148	66.2	32.1	96.5





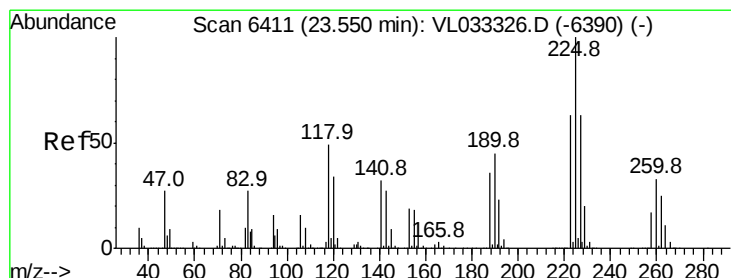
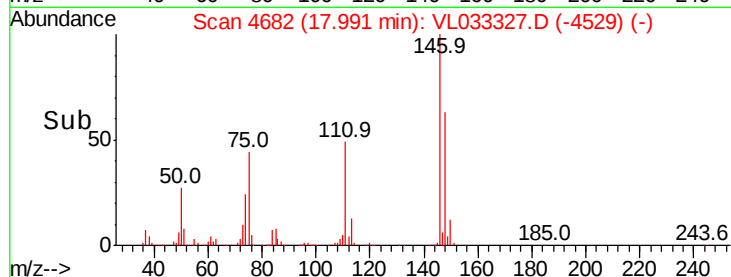
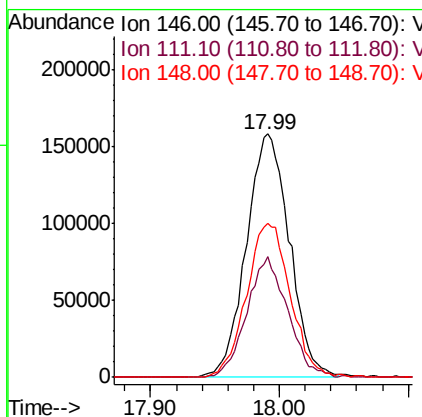
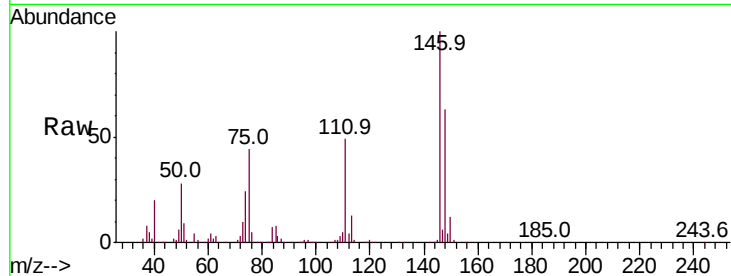
#77
 1,2-Dichlorobenzene
 Concen: 2.044 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. -0.01 min
 Lab File: VL033327.D
 Acq: 15 Mar 2019 11:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.3	23.5	70.6
148	64.5	31.9	95.9

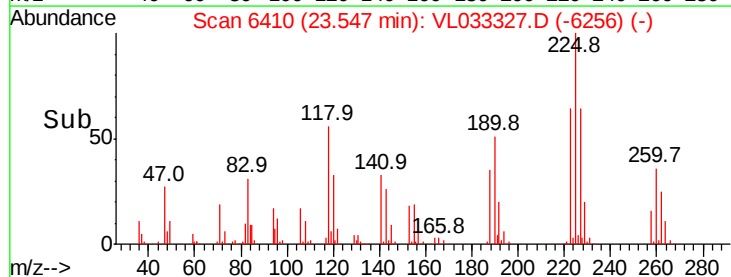
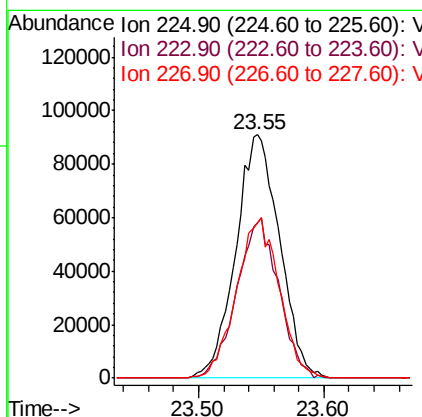
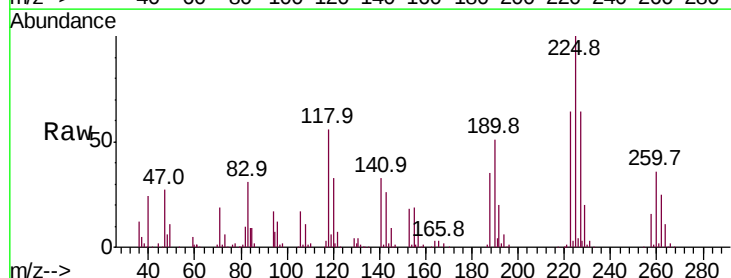
Manual Integrations
 APPROVED

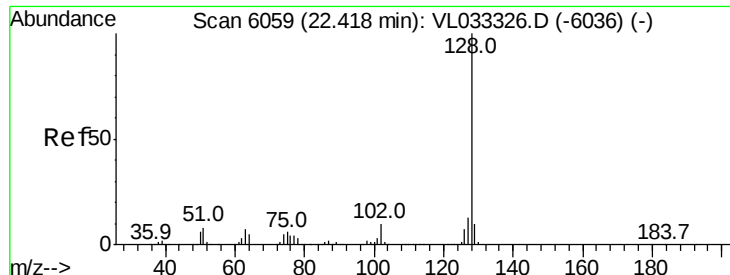
MMDadoda
 3/19/2019 10:02:15 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 2.038 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.00 min
 Lab File: VL033327.D
 Acq: 15 Mar 2019 11:06

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.4	75.6
227	64.0	50.5	75.7





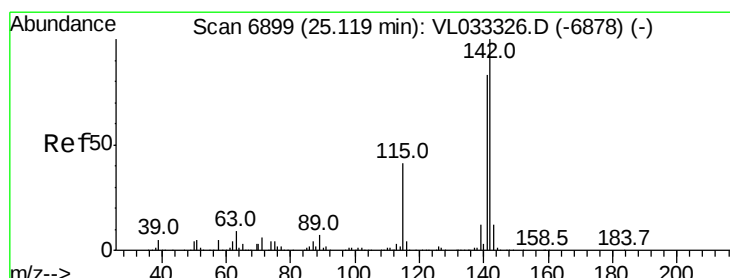
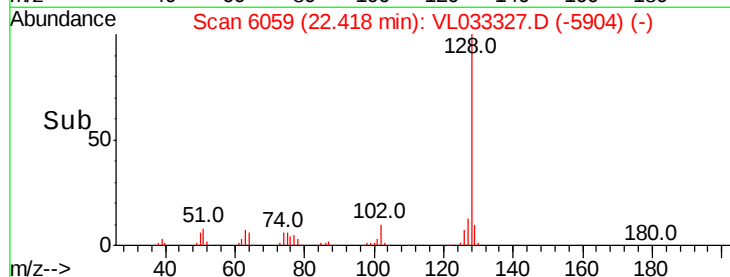
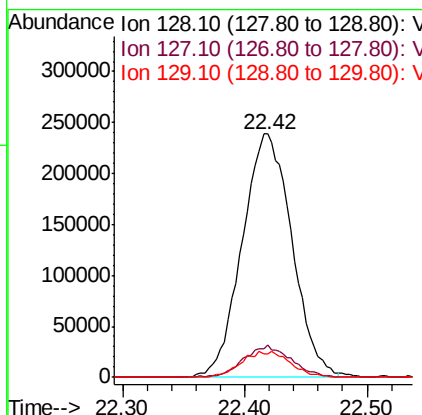
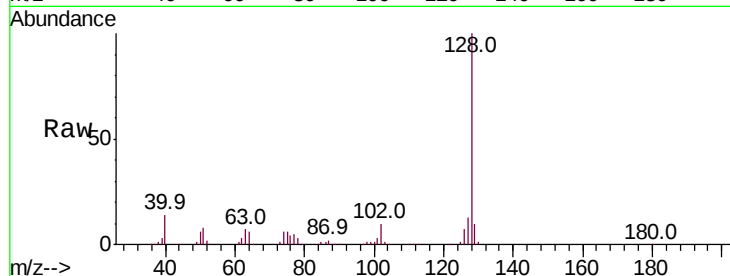
#79
Naphthalene
Concen: 2.140 ppbv
RT: 22.42 min Scan# 6059
Delta R.T. -0.00 min
Lab File: VL033327.D
Acq: 15 Mar 2019 11:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.1	15.1
129	9.6	8.2	12.2

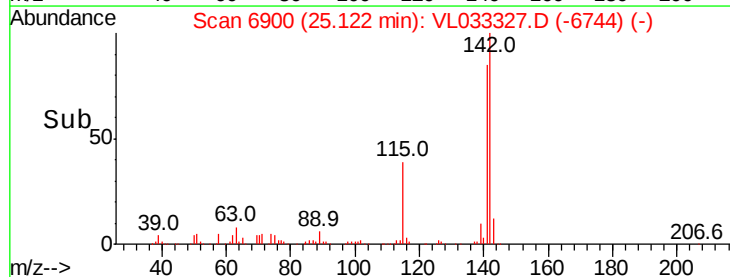
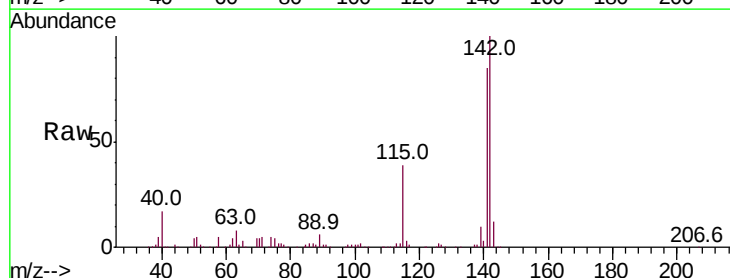
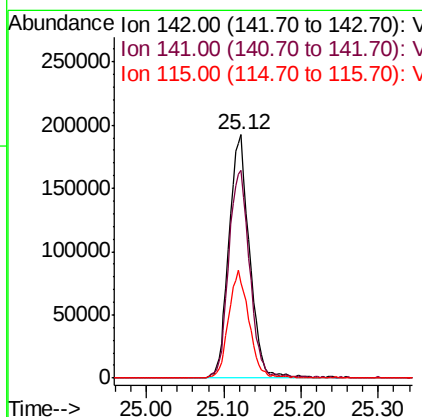
Manual Integrations
APPROVED

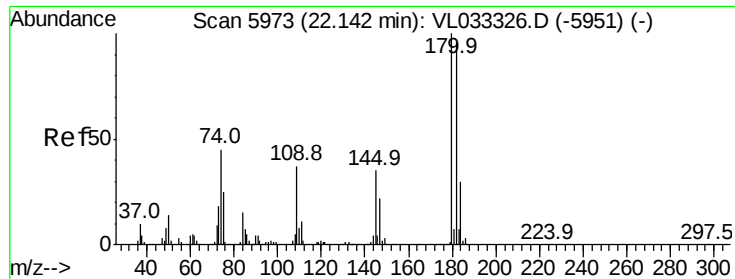
MMDadoda
3/19/2019 10:02:15 AM



#80
Naphthalene, 2-methyl-
Concen: 2.344 ppbv
RT: 25.12 min Scan# 6900
Delta R.T. 0.00 min
Lab File: VL033327.D
Acq: 15 Mar 2019 11:06

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.9	67.1	100.7
115	43.6	33.8	50.6





#81
 1,2,4-Trichlorobenzene
 Concen: 2.120 ppbv
 RT: 22.14 min Scan# 5974
 Delta R.T. 0.00 min
 Lab File: VL033327.D
 Acq: 15 Mar 2019 11:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	94.9	76.1	114.1	
184	30.0	24.6	37.0	

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 10:02:15 AM

