

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\
 Data File : VL033437.D
 Acq On : 25 Mar 2019 12:25
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:22:45 AM

Quant Time: Mar 26 16:02:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	756960	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1861900	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	1775316	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1416133	10.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	69153	0.519 ppbv	100
3) Chlorodifluoromethane	3.01	51	46352	0.534 ppbv	99
4) Chloromethane	3.17	50	24649	0.524 ppbv	97
5) Vinyl Chloride	3.29	62	23942	0.493 ppbv	91
6) Bromomethane	3.51	94	14756	0.511 ppbv	89
7) Chloroethane	3.60	64	9027	0.532 ppbv	89
8) Dichlorotetrafluoroethane	3.22	85	63119	0.557 ppbv	97
9) Propene	3.04	41	19136	0.493 ppbv	97
10) Heptane	8.25	43	46508m	0.483 ppbv	
11) Trichlorofluoromethane	4.00	101	71614	0.540 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	47536	0.541 ppbv	99
13) Ethanol	3.65	45	5178	0.280 ppbv #	38
14) Bromoethene	3.79	108	18190	0.496 ppbv	98
15) Acetone	3.91	43	49820	0.423 ppbv	99
16) 1,3-Butadiene	3.36	39	15266	0.399 ppbv #	79
17) tert-Butyl alcohol	4.38	59	10277m	0.621 ppbv	
18) 1,1-Dichloroethene	4.35	96	20234	0.503 ppbv	85
19) Isopropyl Alcohol	4.04	45	35476	0.634 ppbv #	93
20) Methylene Chloride	4.41	84	22305	0.581 ppbv	95
21) Allyl Chloride	4.48	41	27788m	0.487 ppbv	
22) trans-1,2-Dichloroethene	4.96	96	20189	0.518 ppbv	99
23) Vinyl Acetate	5.15	43	58560m	0.430 ppbv	
24) 1,1-Dichloroethane	5.09	63	51040	0.519 ppbv	96
25) Ethyl Acetate	5.77	43	83741	0.490 ppbv	98
26) Hexane	5.78	57	36849	0.482 ppbv	95
27) Carbon Disulfide	4.62	76	38765	0.440 ppbv #	93
28) Methyl tert-Butyl Ether	5.12	73	50616	0.446 ppbv	96
29) Chloroform	5.84	83	65114	0.520 ppbv	96
30) Cyclohexane	7.25	84	27442	0.448 ppbv	90
31) cis-1,2-Dichloroethene	5.64	61	34960	0.457 ppbv	92
32) 1,1,1-Trichloroethane	6.62	97	65017	0.529 ppbv	98
34) 2-Butanone	5.34	43	49745	0.407 ppbv	99
35) Carbon Tetrachloride	7.13	117	66634	0.508 ppbv	96
36) Benzene	7.00	78	72841	0.437 ppbv	97
37) 1,2-Dichloroethane	6.41	62	51800	0.492 ppbv	99
38) Trichloroethene	7.96	130	30245m	0.480 ppbv	
39) 1,2-Dichloropropane	7.73	63	29749m	0.477 ppbv	
40) 1,4-Dioxane	7.99	88	12577m	0.572 ppbv	
41) Tetrahydrofuran	6.17	42	27419m	0.420 ppbv	
42) Bromodichloromethane	7.91	83	65733	0.465 ppbv	93
43) Methyl Methacrylate	8.14	69	26289	0.405 ppbv	95

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Manual Integrations
 APPROVED

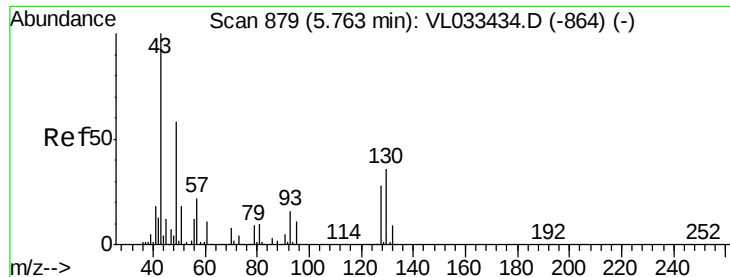
MMDadoda
 4/1/2019 1:22:45 AM

Quant Time: Mar 26 16:02:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
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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	126517	0.458	ppbv	94
45) t-1,3-Dichloropropene	9.41	75	26481	0.331	ppbv	92
46) cis-1,3-Dichloropropene	8.84	75	33931m	0.360	ppbv	
47) 1,1,2-Trichloroethane	9.61	97	32599	0.473	ppbv	93
48) Dibromochloromethane	10.45	129	47147	0.408	ppbv	97
49) Bromoform	13.20	173	40154	0.366	ppbv	98
50) 4-Methyl-2-Pentanone	8.88	43	68305	0.395	ppbv	100
51) 2-Hexanone	10.29	43	48691m	0.365	ppbv	
52) Tetrachloroethene	11.37	164	26979	0.389	ppbv #	87
53) Toluene	9.95	91	70871	0.374	ppbv	98
54) 1,2-Dibromoethane	10.76	107	49241m	0.422	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.28	131	41954m	0.528	ppbv	
57) Chlorobenzene	12.29	112	71328m	0.507	ppbv	
58) Ethyl Benzene	12.86	91	105578	0.420	ppbv	98
59) m/p-Xylene	13.14	91	196358m	0.910	ppbv	
60) o-Xylene	13.85	91	95277	0.452	ppbv	98
61) Styrene	13.69	104	56564	0.384	ppbv	98
62) Isopropylbenzene	14.83	105	138468	0.473	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.83	83	77734	0.511	ppbv	99
64) n-propylbenzene	15.72	120	34852m	0.471	ppbv	
65) tert-Butylbenzene	16.91	119	117032	0.444	ppbv	95
66) Benzyl Chloride	17.16	91	39366	0.361	ppbv #	96
67) sec-Butylbenzene	17.46	105	164098	0.439	ppbv	98
69) p-Isopropyltoluene	17.81	119	132173m	0.433	ppbv	
70) n-Butylbenzene	18.71	91	137176m	0.422	ppbv	
71) 2-Chlorotoluene	15.61	91	101257m	0.444	ppbv	
72) 4-Ethyltoluene	16.00	105	100837	0.422	ppbv	98
73) 1,3,5-Trimethylbenzene	16.16	105	97266	0.418	ppbv	96
74) 1,2,4-Trimethylbenzene	16.93	105	110273	0.447	ppbv #	83
75) 1,3-Dichlorobenzene	17.16	146	73091m	0.503	ppbv	
76) 1,4-Dichlorobenzene	17.31	146	67690	0.481	ppbv	97
77) 1,2-Dichlorobenzene	17.99	146	67600m	0.491	ppbv	
78) Hexachloro-1,3-Butadiene	23.55	225	46599	0.564	ppbv	97
79) Naphthalene	22.42	128	71163m	0.299	ppbv	
80) Naphthalene, 2-methyl-	25.12	142	14397	0.128	ppbv	91
81) 1,2,4-Trichlorobenzene	22.14	180	46660	0.385	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

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Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

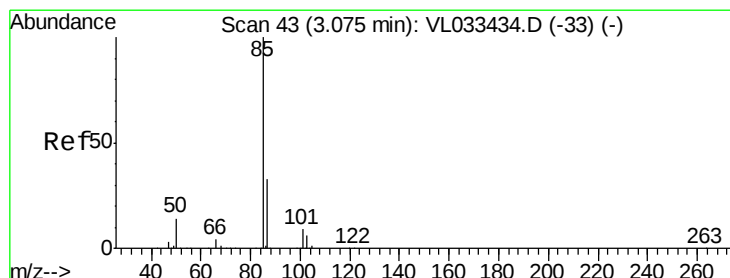
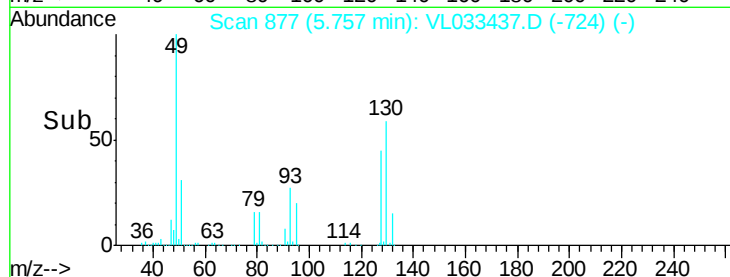
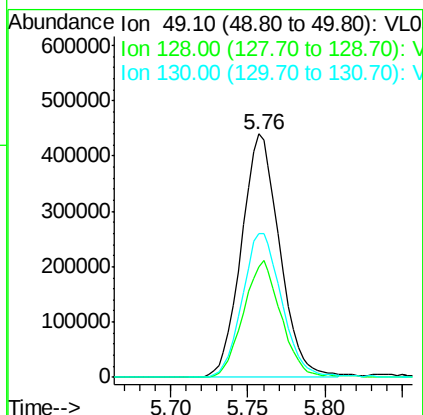
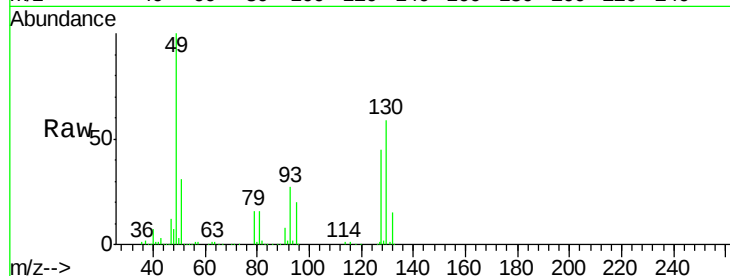
ClientSampled :

VSTDIC0.5

Tot Ion:	49	Resp:	756960
Ion	Ratio	Lower	Upper
49	100		
128	47.9	23.5	70.6
130	61.4	30.1	90.3

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.519 ppbv

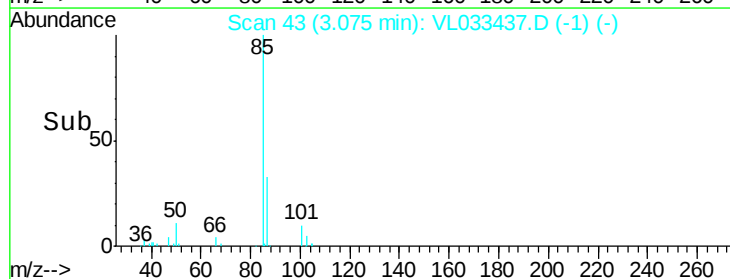
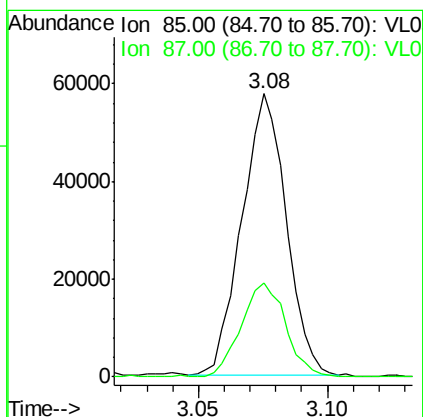
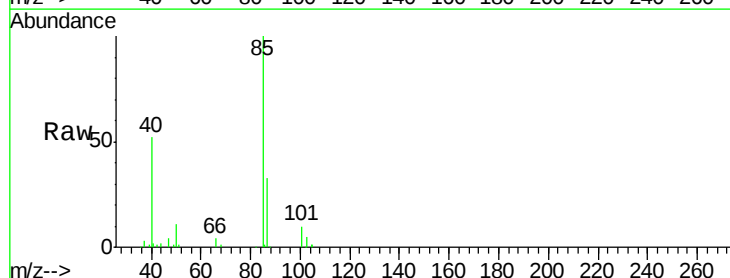
RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Tgt Ion:	85	Resp:	69153
Ion	Ratio	Lower	Upper
85	100		
87	33.4	26.9	40.3





#3

Chlorodifluoromethane

Concen: 0.534 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 46352

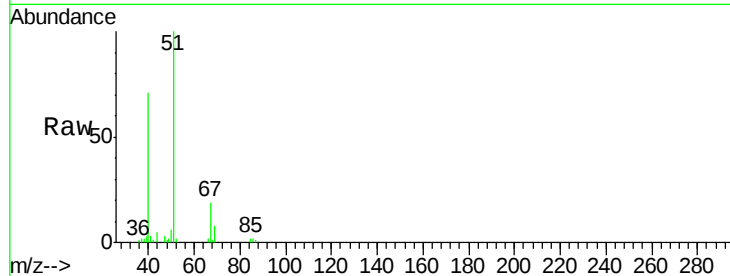
Ion Ratio Lower Upper

51 100

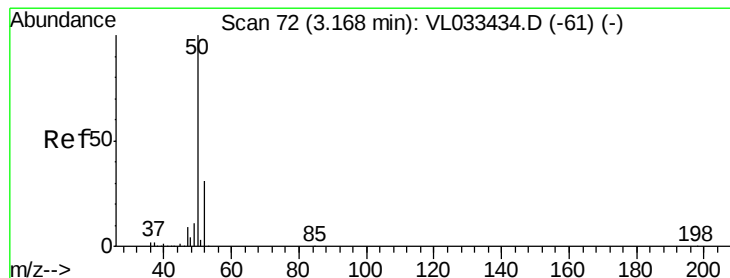
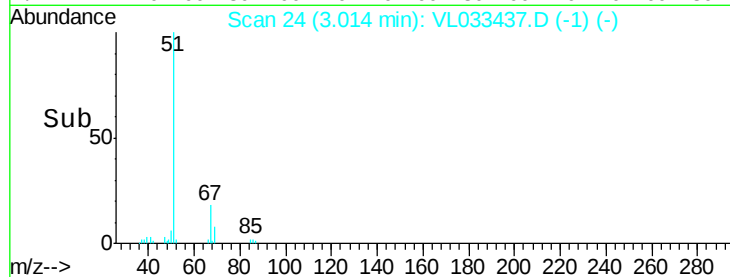
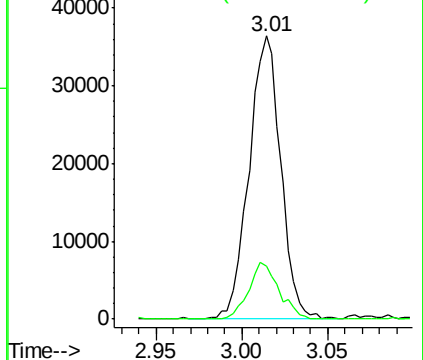
67 19.2 14.9 22.3

Manual Integrations
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Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.524 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033437.D

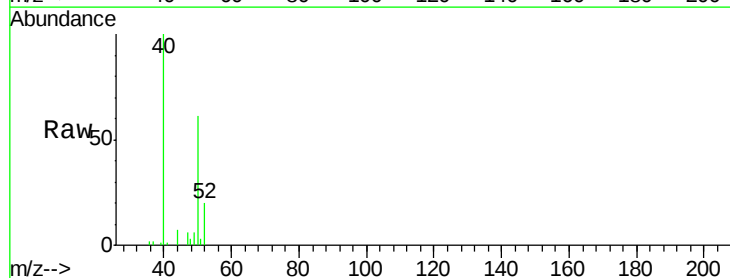
Acq: 25 Mar 2019 12:25

Tgt Ion: 50 Resp: 24649

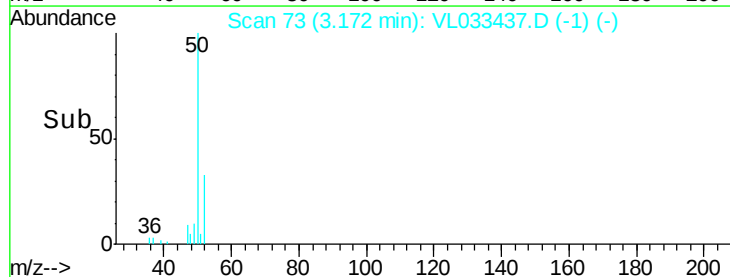
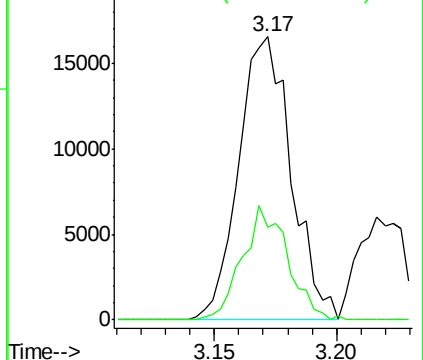
Ion Ratio Lower Upper

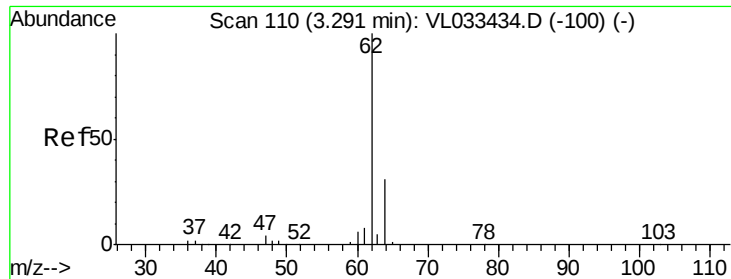
50 100

52 32.7 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.493 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 23942

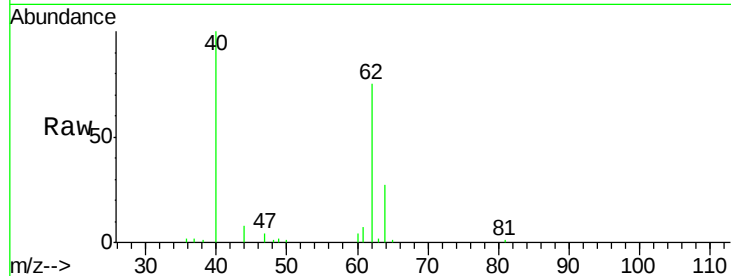
Ion Ratio Lower Upper

62 100

64 36.0 25.0 37.6

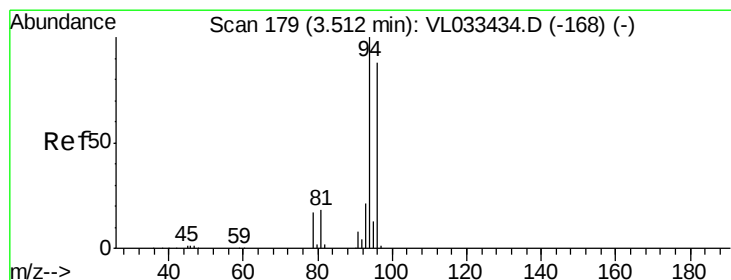
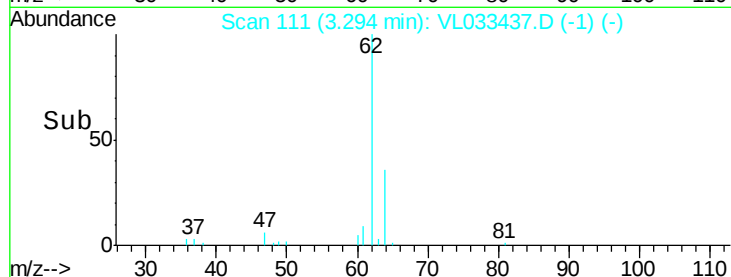
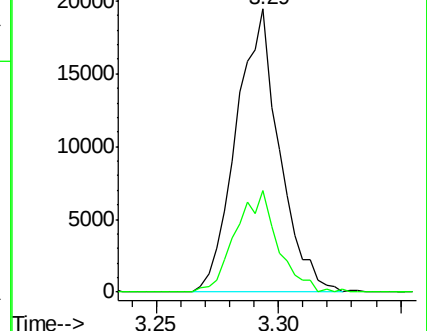
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.511 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033437.D

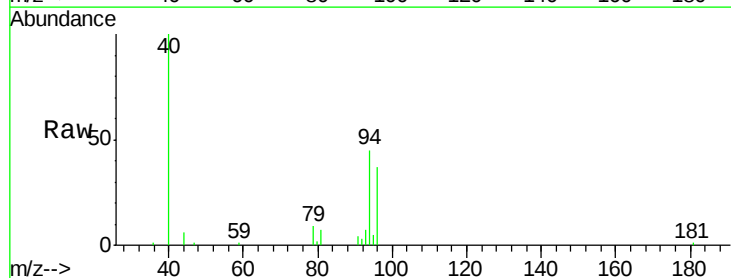
Acq: 25 Mar 2019 12:25

Tgt Ion: 94 Resp: 14756

Ion Ratio Lower Upper

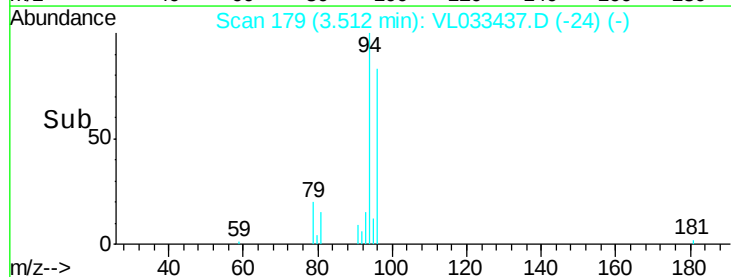
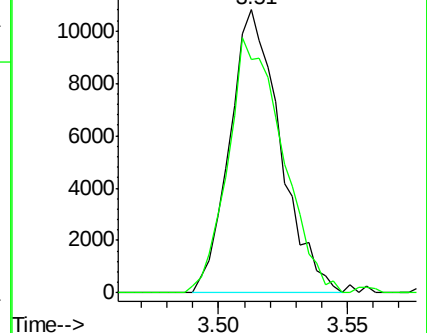
94 100

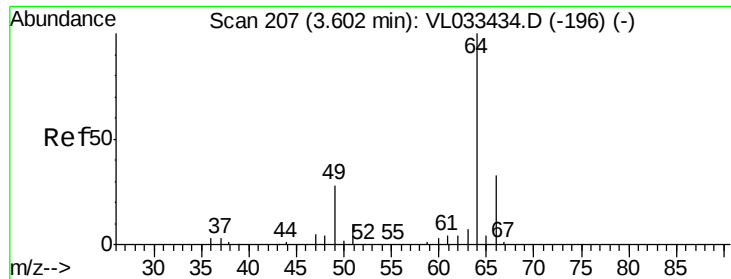
96 82.5 74.6 111.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.532 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 9027

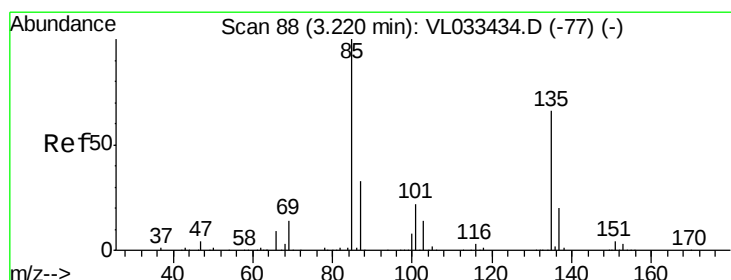
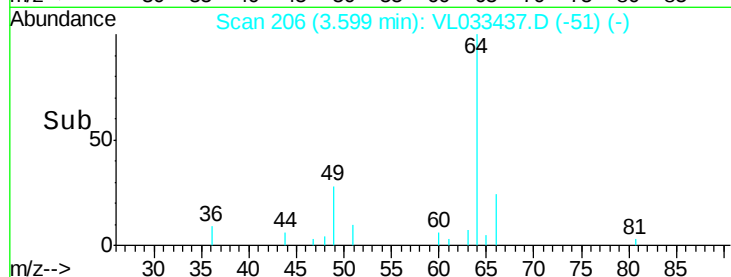
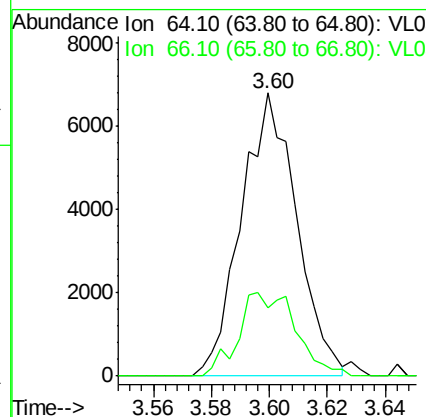
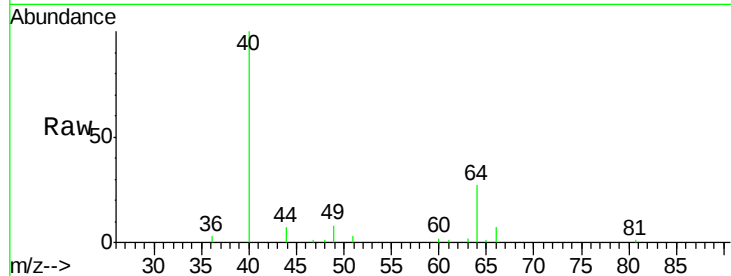
Ion Ratio Lower Upper

64 100

66 24.2 24.0 36.0

Manual Integrations
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#8

Dichlorotetrafluoroethane

Concen: 0.557 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033437.D

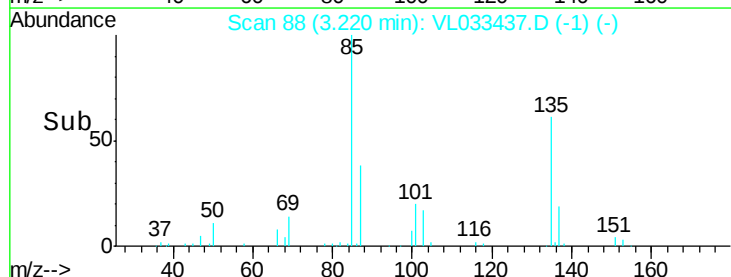
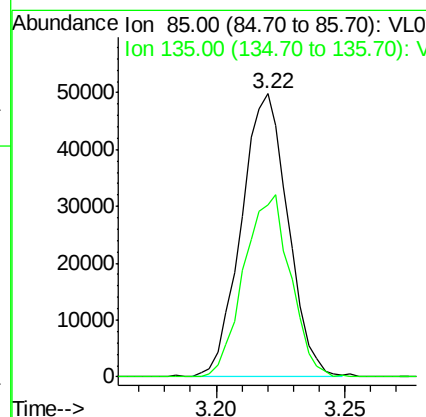
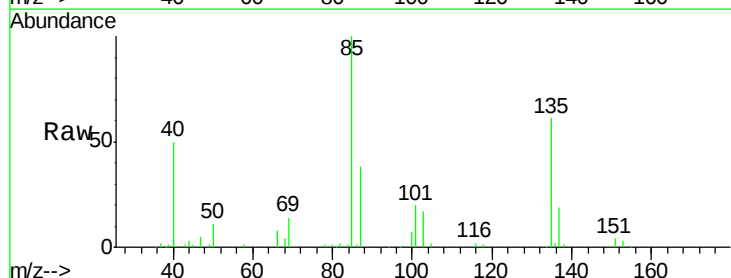
Acq: 25 Mar 2019 12:25

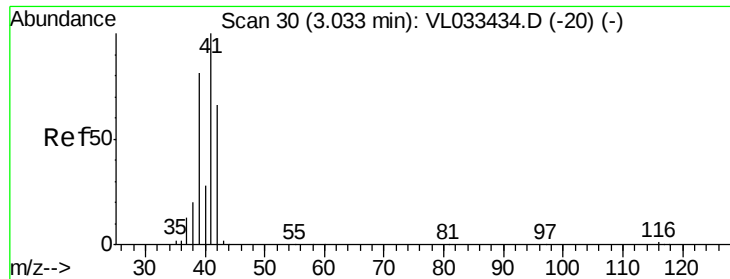
Tgt Ion: 85 Resp: 63119

Ion Ratio Lower Upper

85 100

135 64.1 53.4 80.2





#9

Propene

Concen: 0.493 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 19136

Ion Ratio Lower Upper

41 100

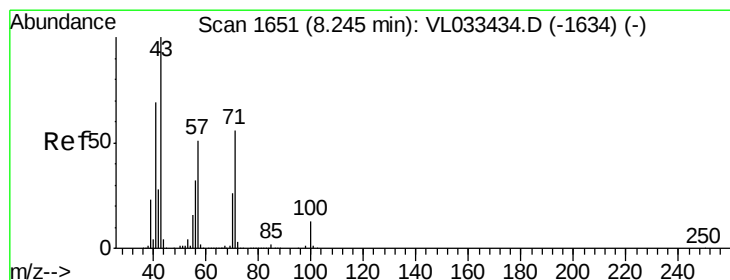
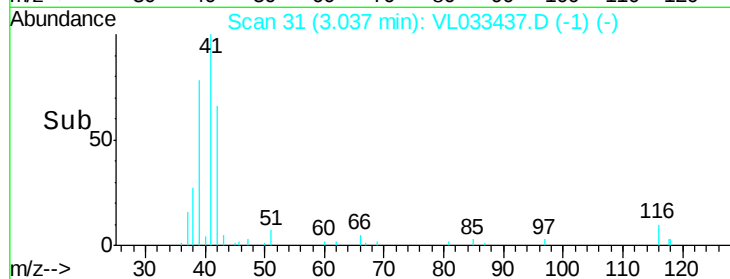
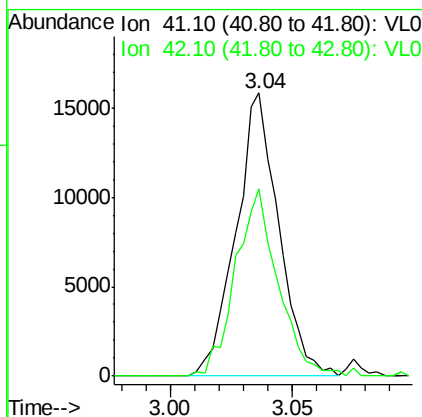
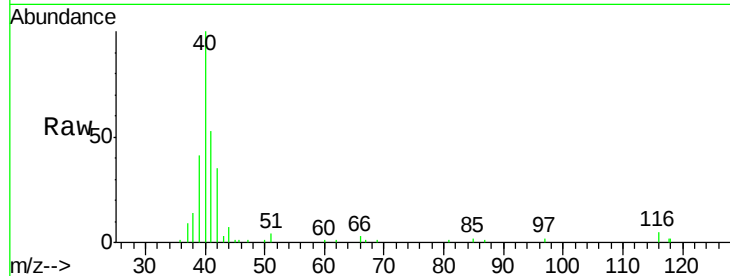
42 66.7 55.2 82.8

Manual Integrations

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#10

Heptane

Concen: 0.483 ppbv m

RT: 8.25 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VL033437.D

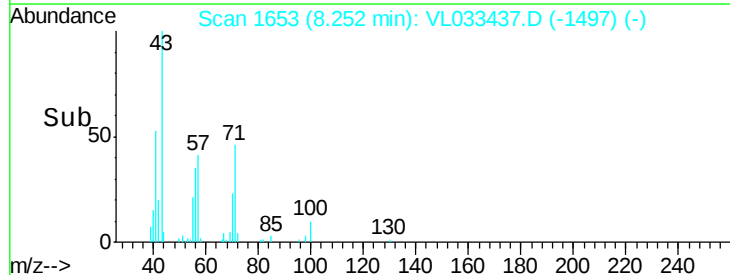
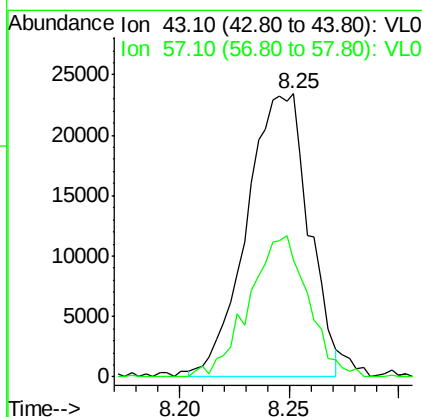
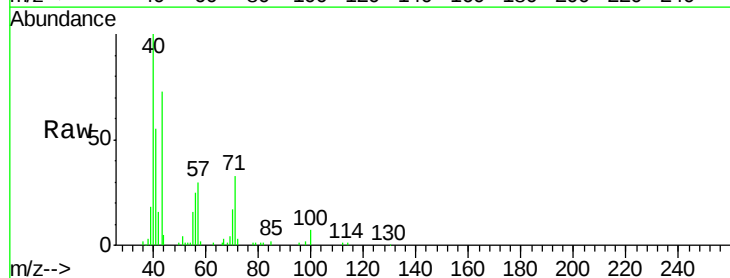
Acq: 25 Mar 2019 12:25

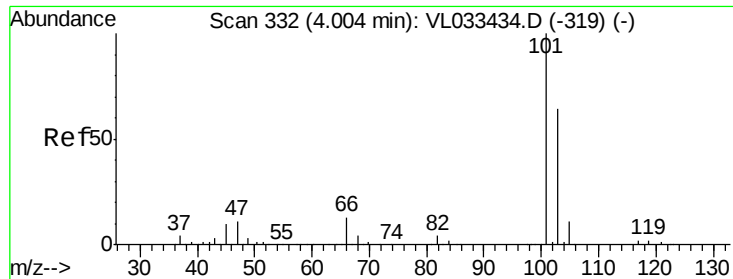
Tgt Ion: 43 Resp: 46508

Ion Ratio Lower Upper

43 100

57 0.0 40.4 60.6#





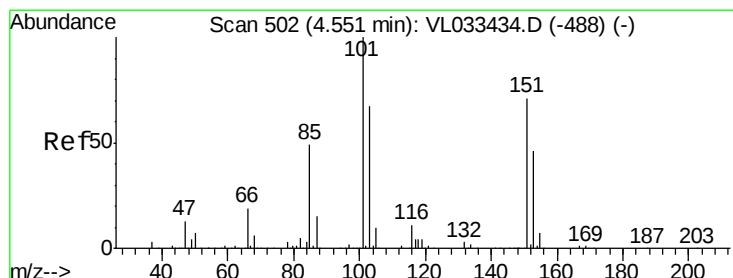
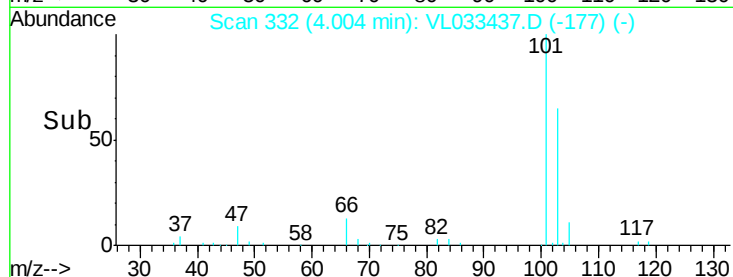
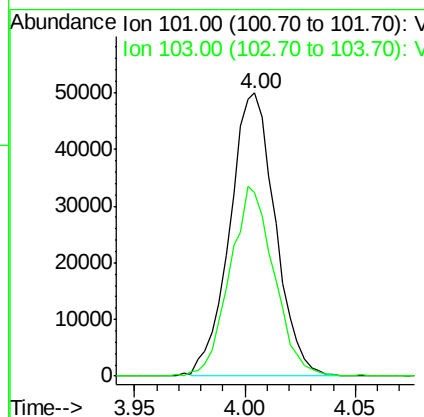
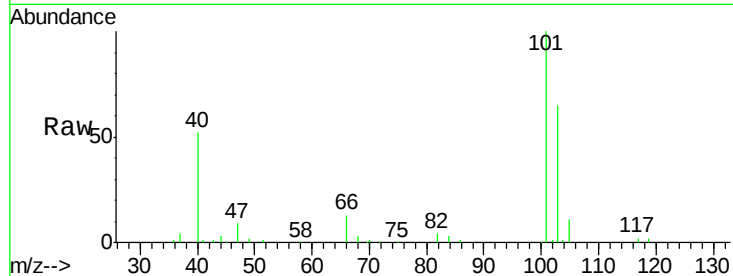
#11
 Trichlorofluoromethane
 Concen: 0.540 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033437.D
 Acq: 25 Mar 2019 12:25

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC0.5

Tot Ion:101 Resp: 71614
 Ion Ratio Lower Upper
 101 100
 103 64.4 52.9 79.3

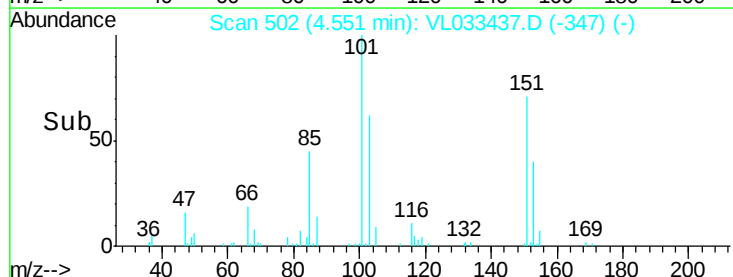
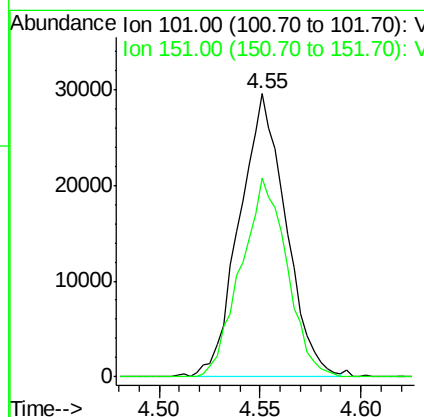
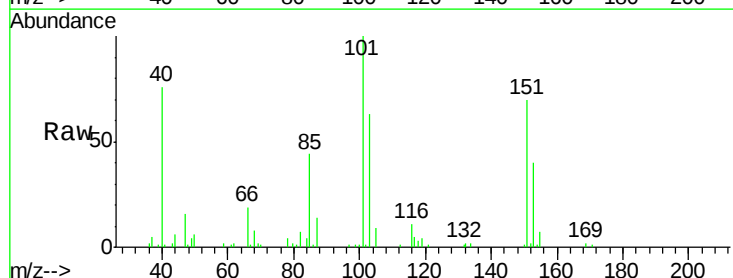
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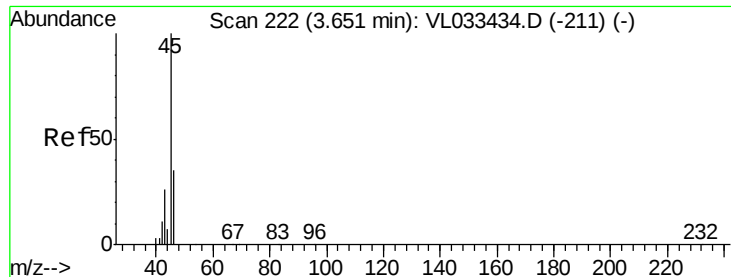
MMDadoda
 4/1/2019 1:22:45 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.541 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033437.D
 Acq: 25 Mar 2019 12:25

Tgt Ion:101 Resp: 47536
 Ion Ratio Lower Upper
 101 100
 151 69.7 56.3 84.5





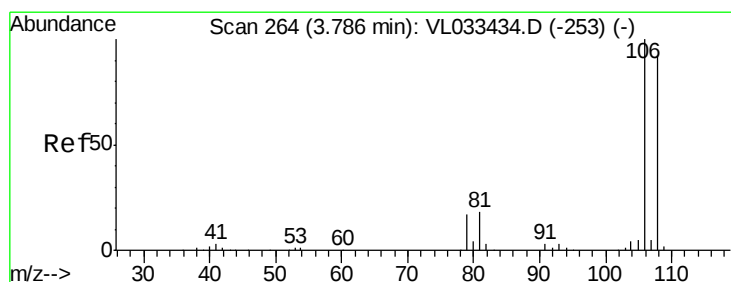
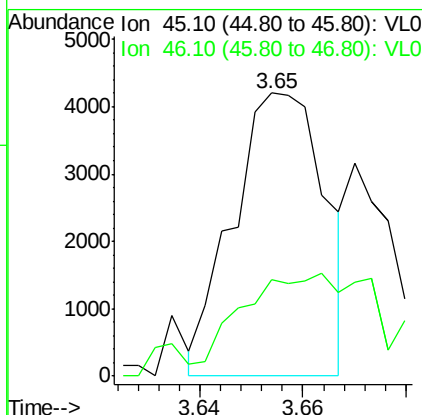
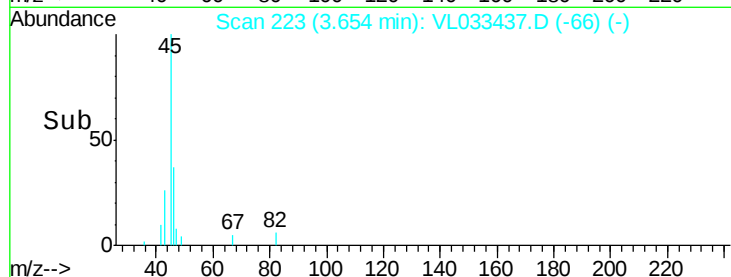
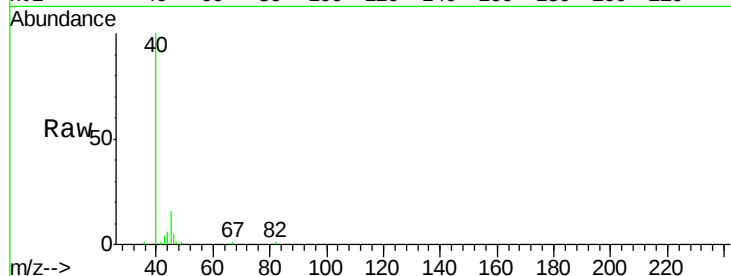
#13
Ethanol
Concen: 0.280 ppbv
RT: 3.65 min Scan# 223
Delta R.T. 0.00 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 45 Resp: 5178
Ion Ratio Lower Upper
45 100
46 0.0 14.9 59.7#

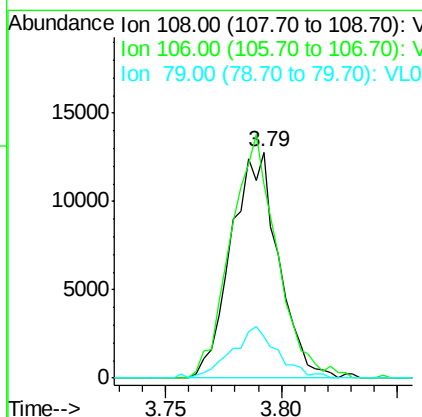
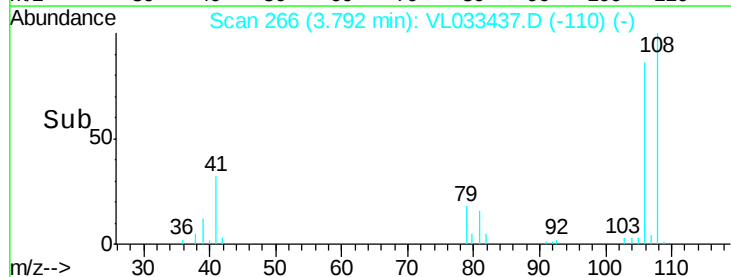
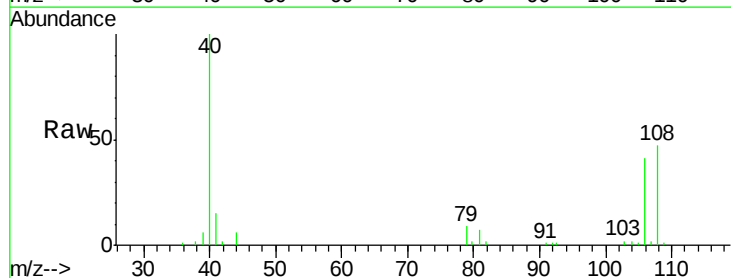
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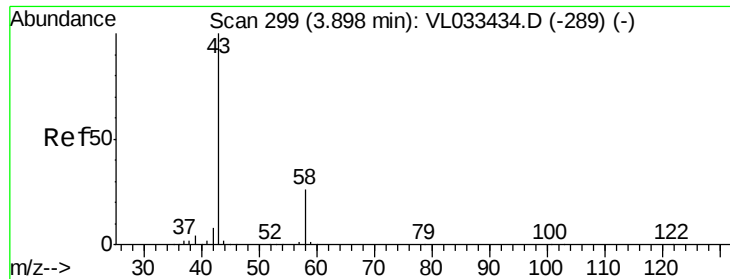
MMDadoda
4/1/2019 1:22:45 AM



#14
Bromoethene
Concen: 0.496 ppbv
RT: 3.79 min Scan# 266
Delta R.T. 0.00 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Tgt Ion: 108 Resp: 18190
Ion Ratio Lower Upper
108 100
106 106.0 86.2 129.2
79 22.2 15.4 23.2





#15

Acetone

Concen: 0.423 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 49820

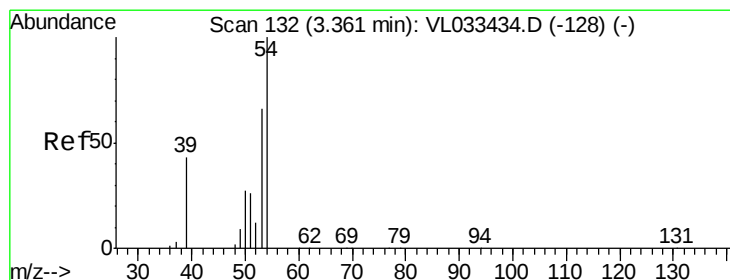
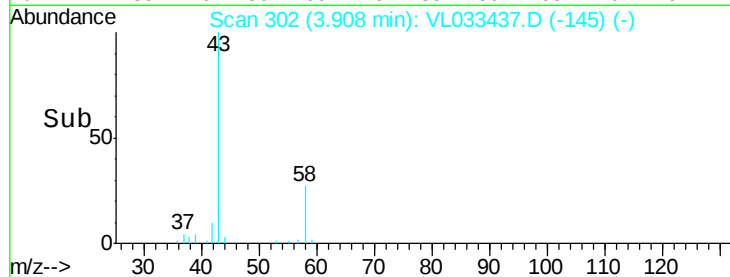
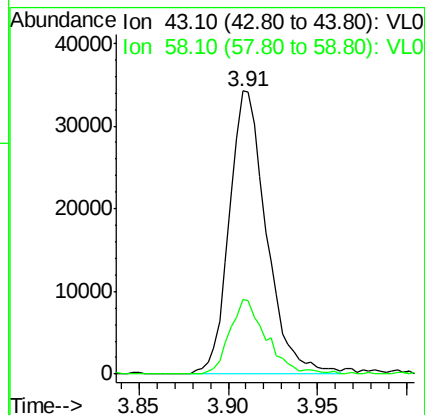
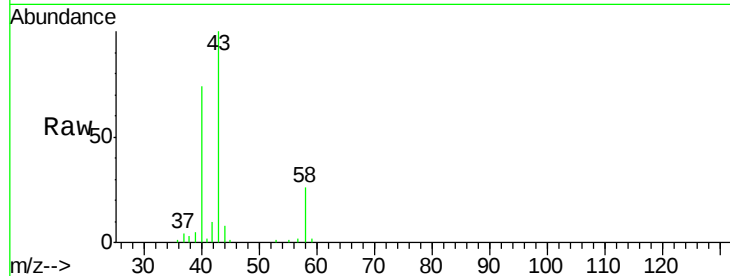
Ion Ratio Lower Upper

43 100

58 26.2 20.4 30.6

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#16

1,3-Butadiene

Concen: 0.399 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033437.D

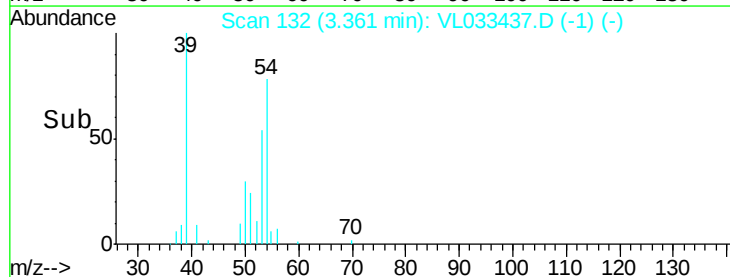
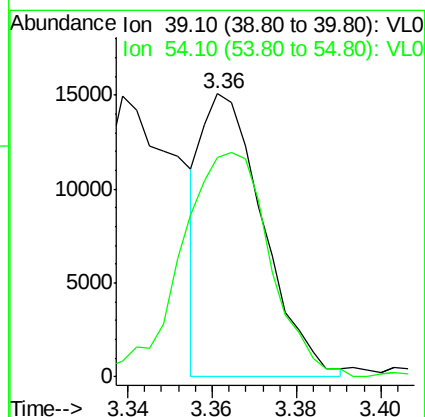
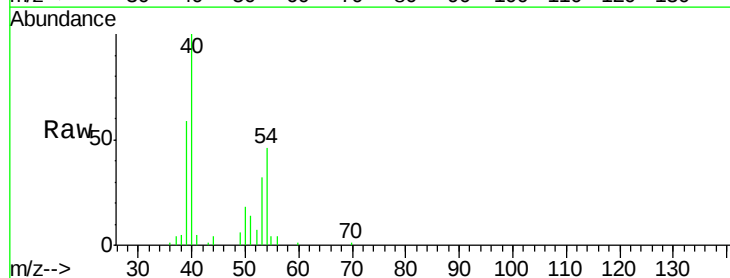
Acq: 25 Mar 2019 12:25

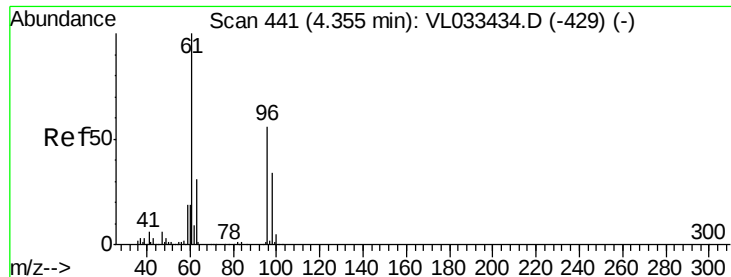
Tgt Ion: 39 Resp: 15266

Ion Ratio Lower Upper

39 100

54 116.7 76.8 115.2#





#17

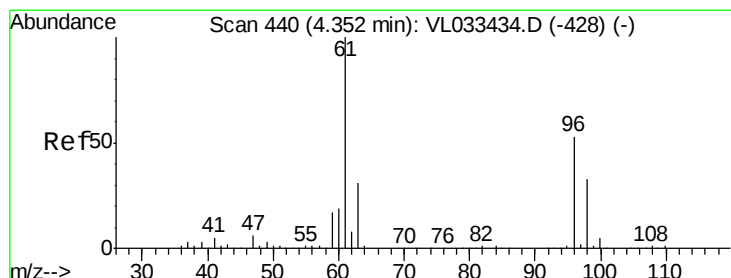
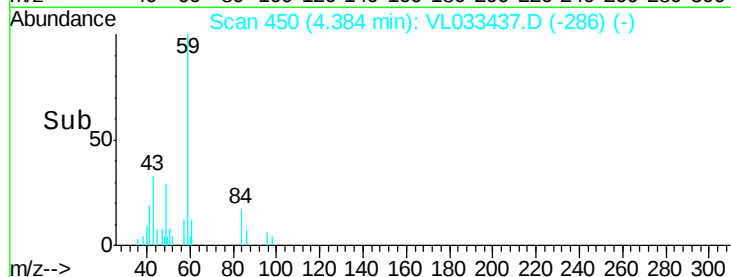
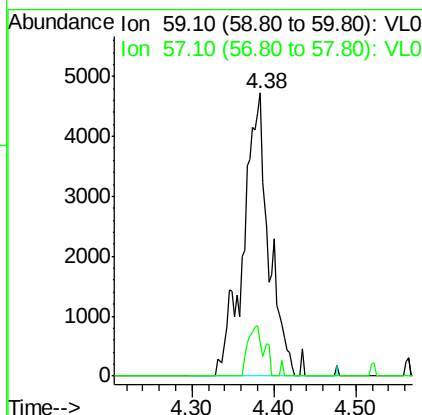
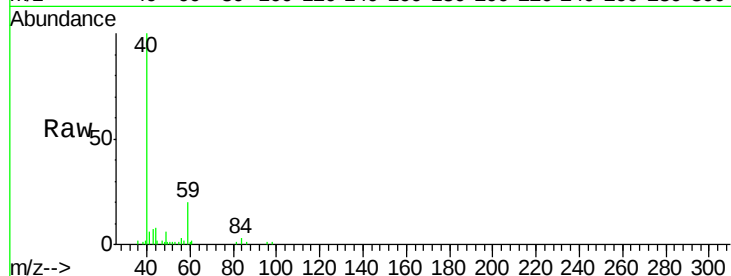
tert-Butyl alcohol
Concen: 0.621 ppbv
RT: 4.38 min Scan# 450
Delta R.T. 0.03 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Instrument :
MSVOA_L
ClientSampled :
VSTDIC0.5

Tot Ion: 59 Resp: 10277
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#

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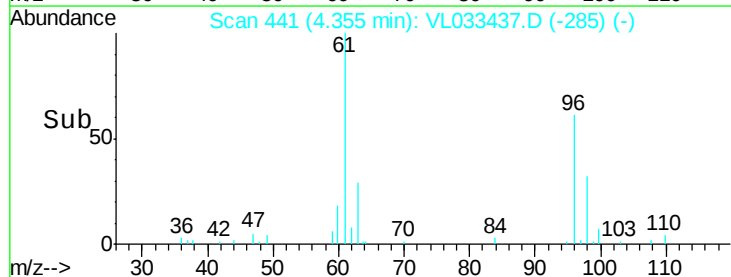
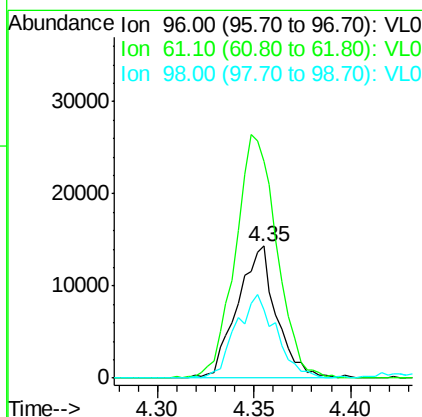
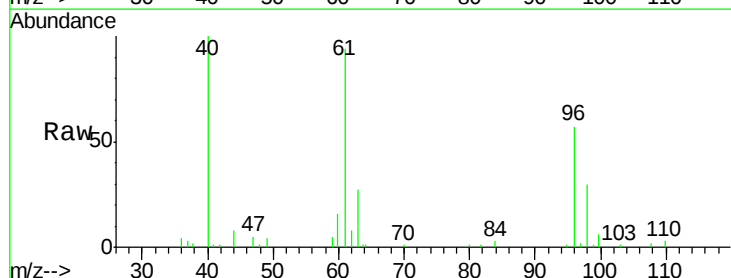
MMDadoda
4/1/2019 1:22:45 AM

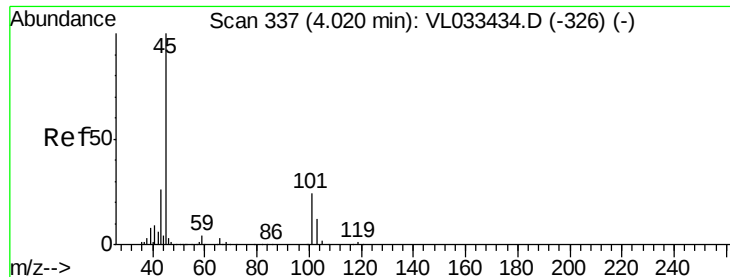


#18

1,1-Dichloroethene
Concen: 0.503 ppbv
RT: 4.35 min Scan# 441
Delta R.T. 0.00 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Tgt Ion: 96 Resp: 20234
Ion Ratio Lower Upper
96 100
61 164.3 148.6 222.8
98 52.2 50.3 75.5





#19

Isopropyl Alcohol

Concen: 0.634 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 35476

Ion Ratio Lower Upper

45 100

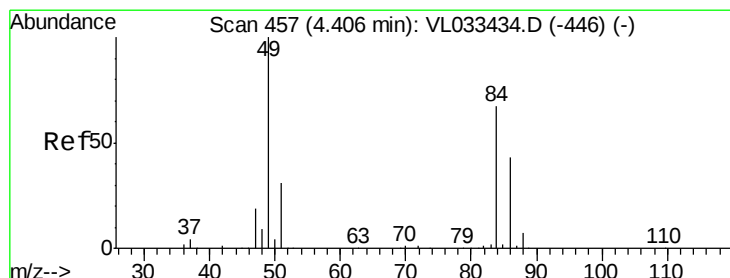
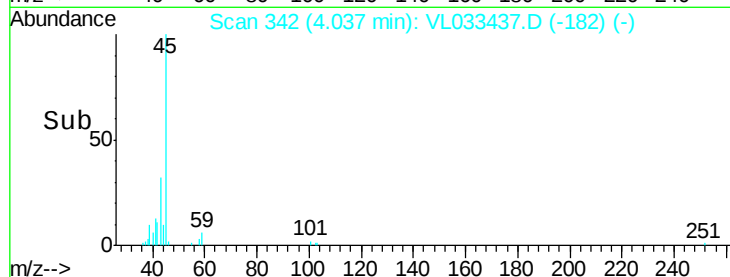
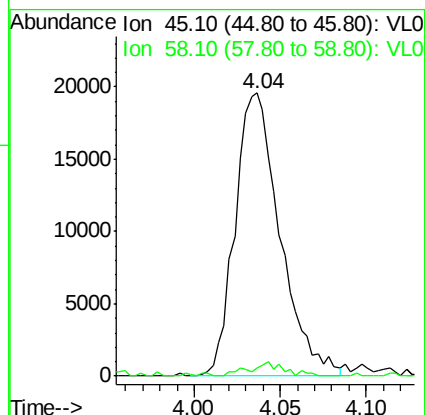
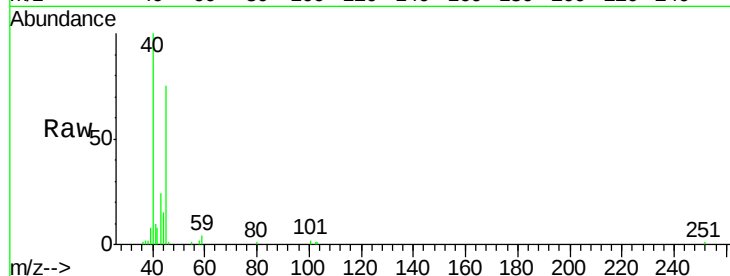
58 4.2 1.5 2.3#

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#20

Methylene Chloride

Concen: 0.581 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Tgt Ion: 84 Resp: 22305

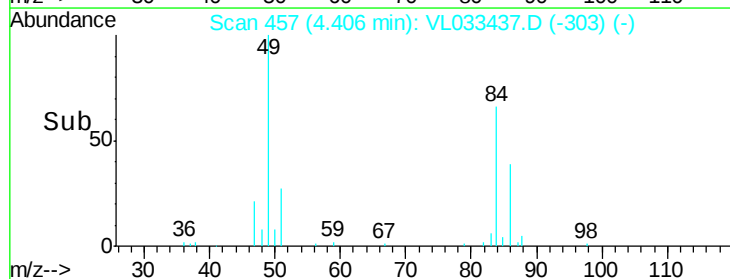
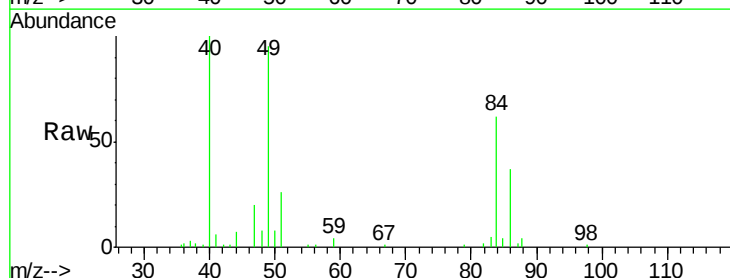
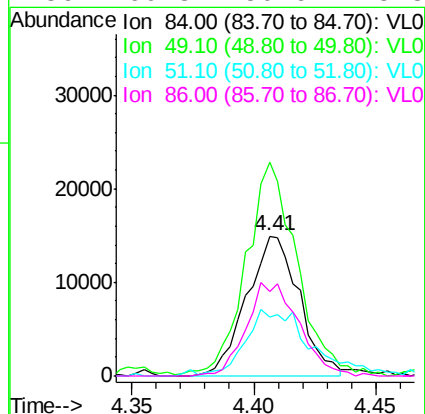
Ion Ratio Lower Upper

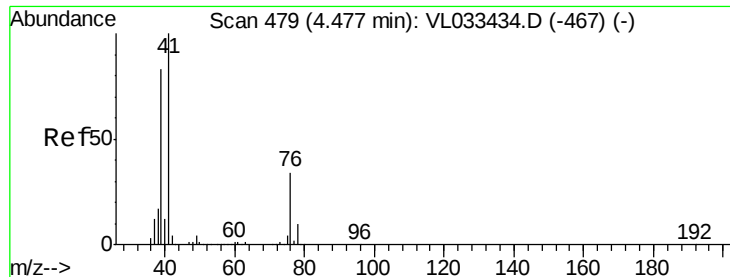
84 100

49 149.3 115.4 173.0

51 37.6 35.8 53.6

86 60.3 50.6 75.8





#21

Allvl Chloride

Concen: 0.487 ppbv m

RT: 4.48 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

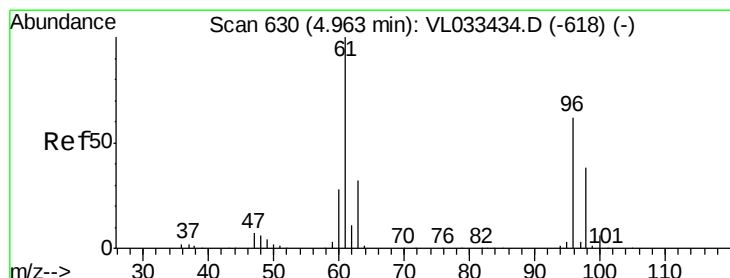
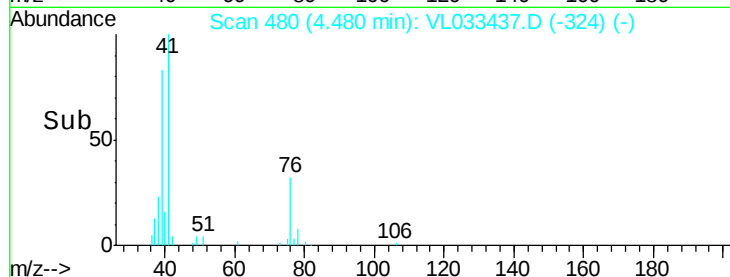
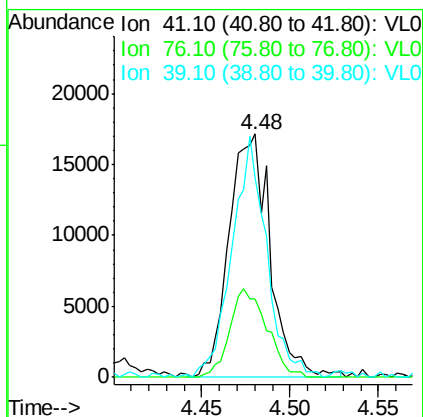
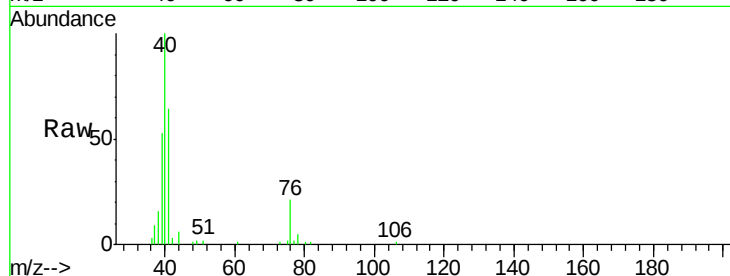
ClientSampleId :

VSTDIC0.5

Tot Ion:	41	Resp:	27788
Ion	Ratio	Lower	Upper
41	100		
76	32.5	25.0	37.4
39	83.0	65.9	98.9

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#22

trans-1,2-Dichloroethene

Concen: 0.518 ppbv

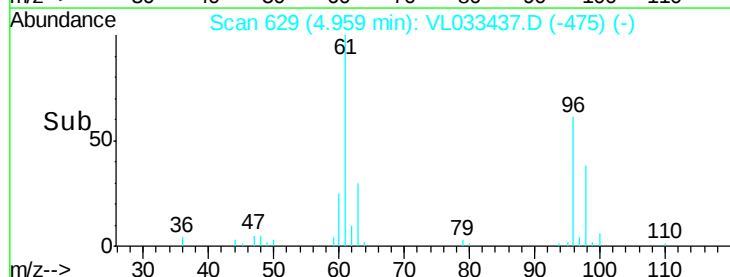
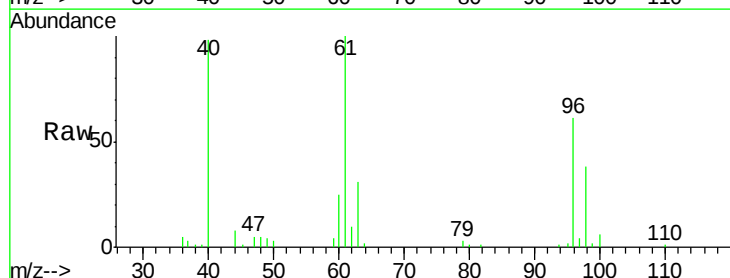
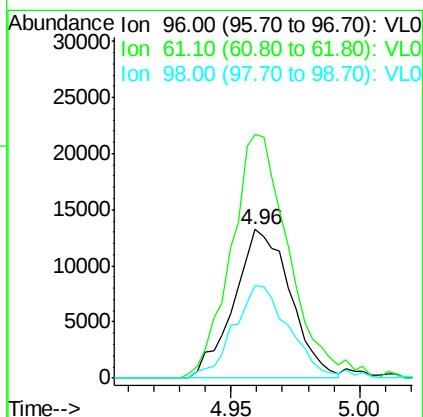
RT: 4.96 min Scan# 629

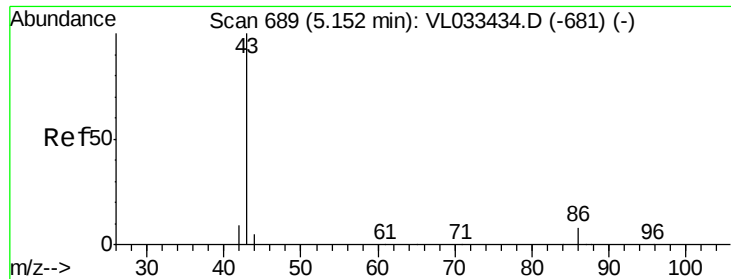
Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Tgt Ion:	96	Resp:	20189
Ion	Ratio	Lower	Upper
96	100		
61	160.3	130.0	195.0
98	61.9	50.0	75.0





#23

Vinyl Acetate

Concen: 0.430 ppbv

RT: 5.15 min Scan# 688

Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

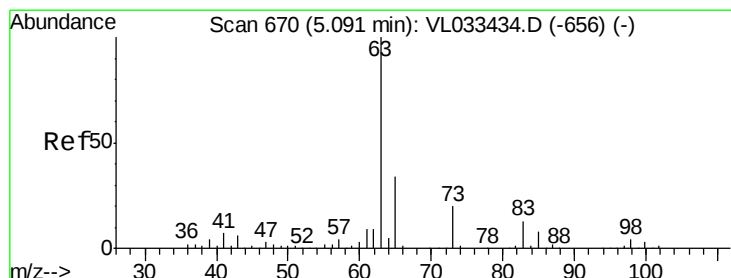
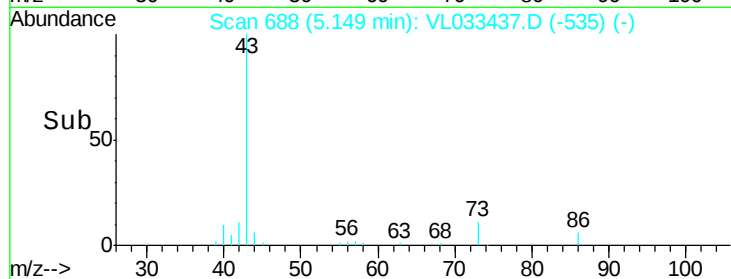
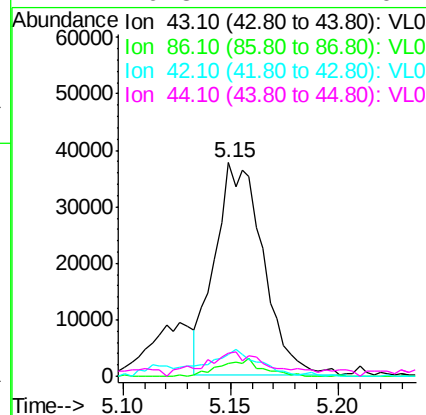
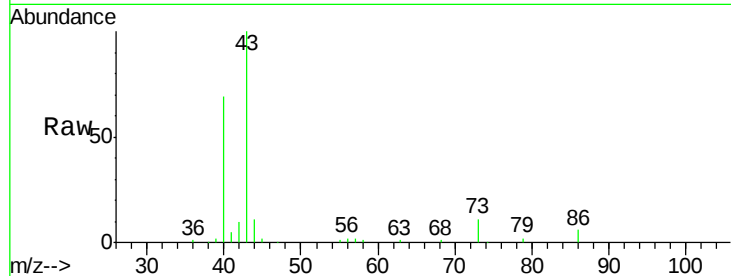
ClientSampleId :

VSTDIC0.5

Tot Ion:	43	Resp:	58560
Ion	Ratio	Lower	Upper
43	100		
86	6.0	6.2	9.2#
42	10.5	8.1	12.1
44	10.8	4.1	6.1#

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#24

1,1-Dichloroethane

Concen: 0.519 ppbv

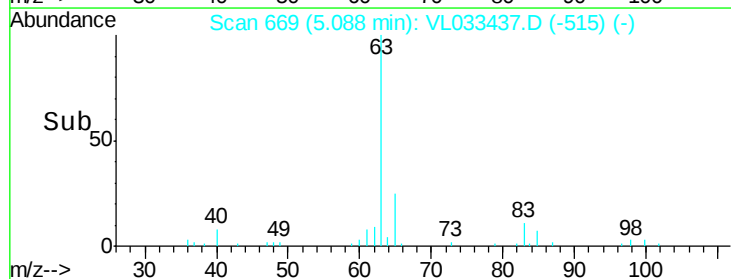
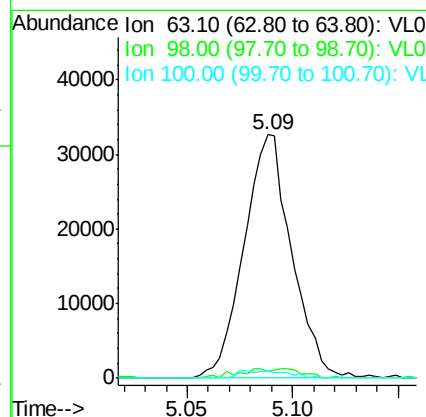
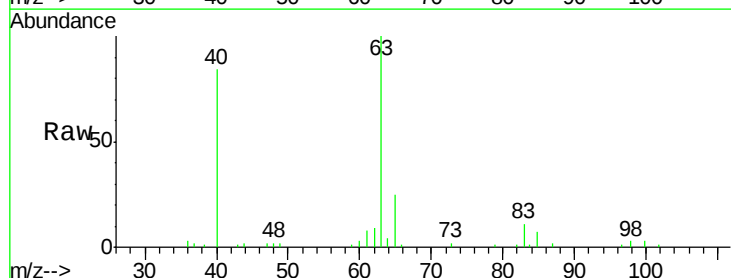
RT: 5.09 min Scan# 669

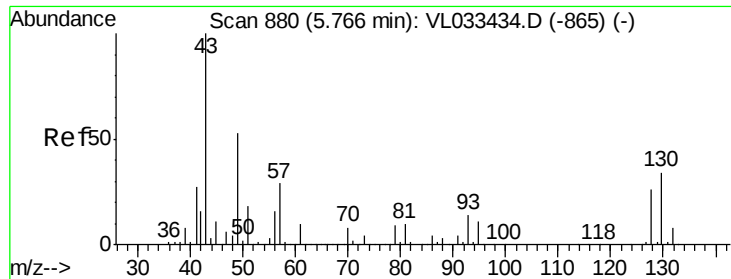
Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Tgt Ion:	63	Resp:	51040
Ion	Ratio	Lower	Upper
63	100		
98	3.0	2.4	7.1
100	2.9	1.3	3.8





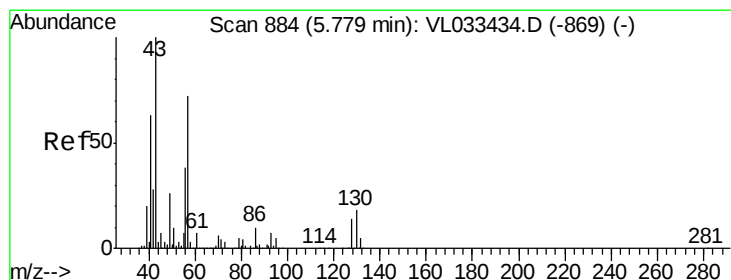
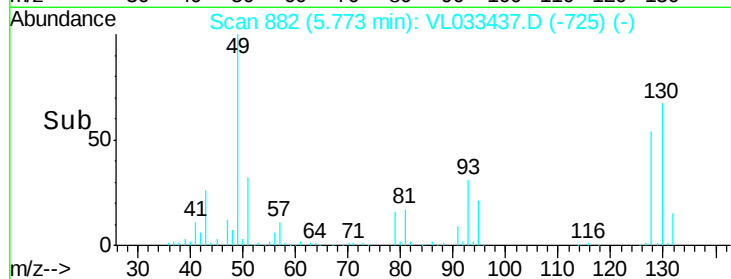
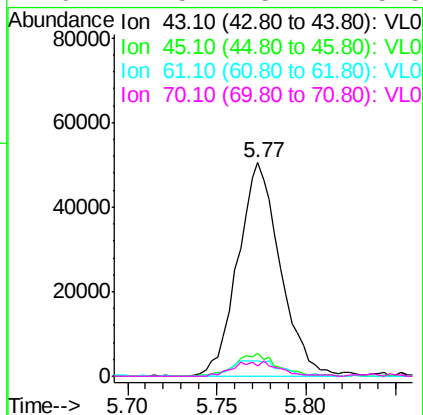
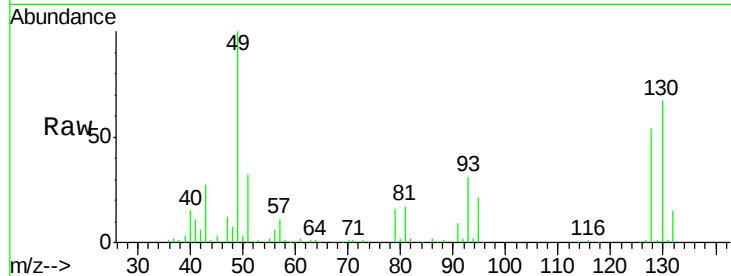
#25
Ethyl Acetate
Concen: 0.490 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.4	7.9	11.9
61	8.5	7.4	11.2
70	7.5	5.7	8.5

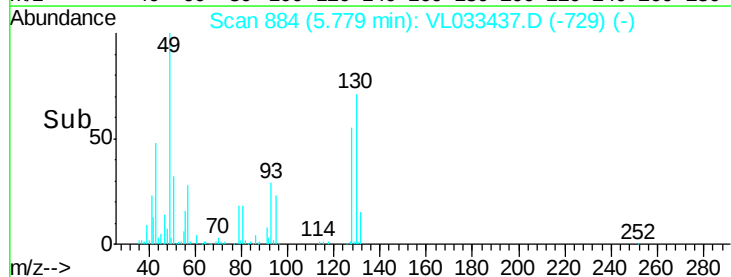
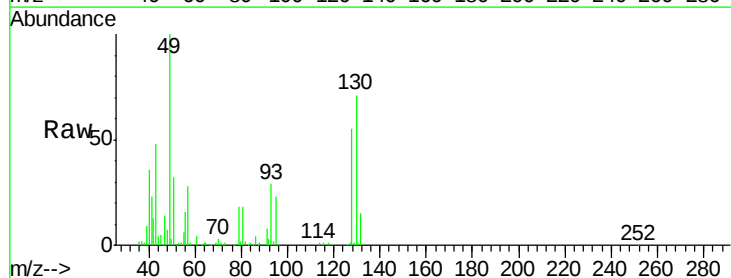
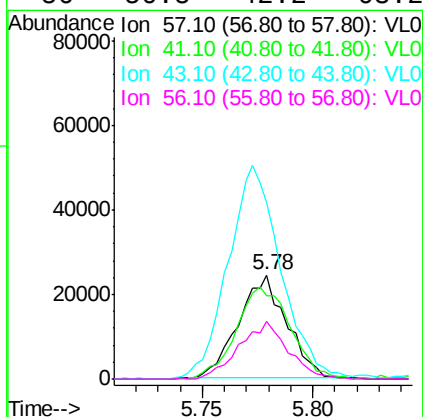
Manual Integrations
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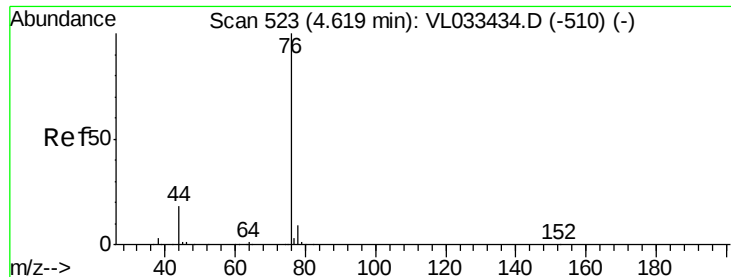
MMDadoda
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#26
Hexane
Concen: 0.482 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Tgt Ion	Ratio	Lower	Upper
57	100		
41	101.6	70.5	105.7
43	229.1	181.8	272.8
56	56.5	42.2	63.2





#27

Carbon Disulfide

Concen: 0.440 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

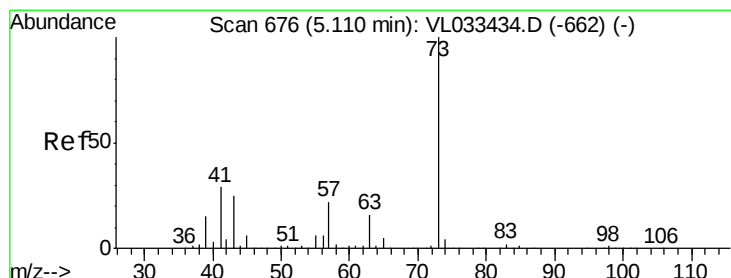
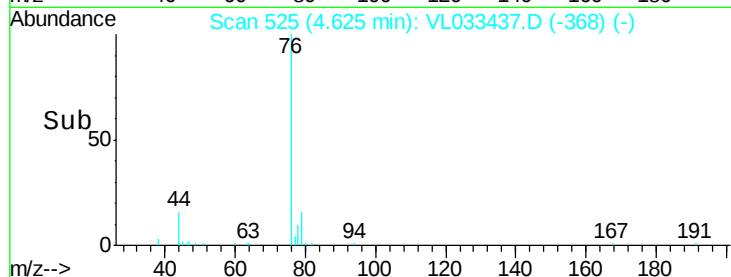
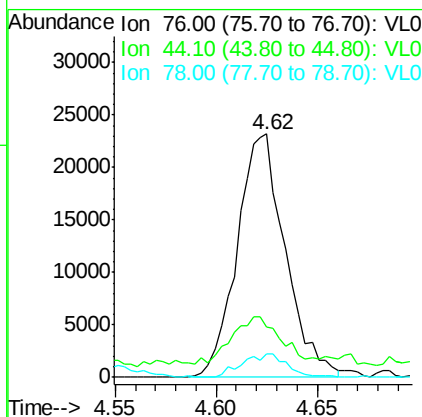
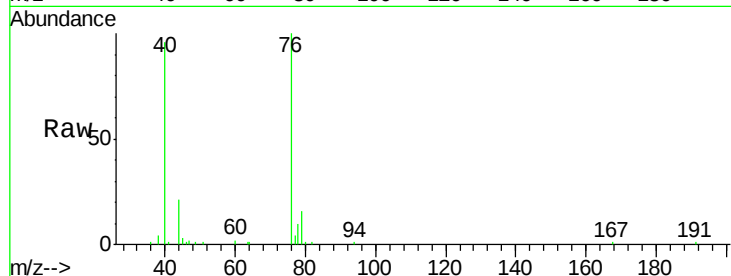
ClientSampleId :

VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
76	100		
44	23.7	15.2	22.8#
78	9.1	7.2	10.8

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 0.446 ppbv

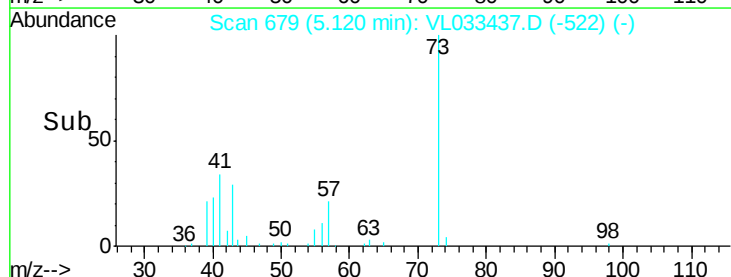
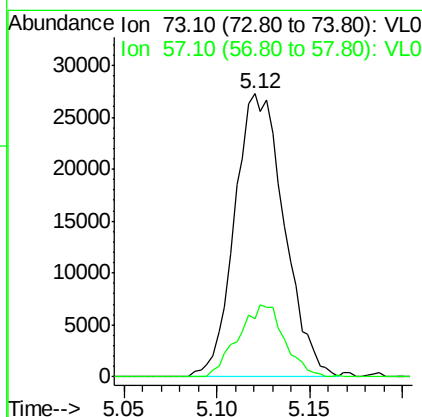
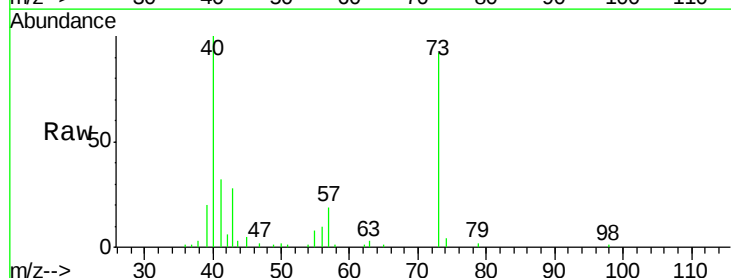
RT: 5.12 min Scan# 679

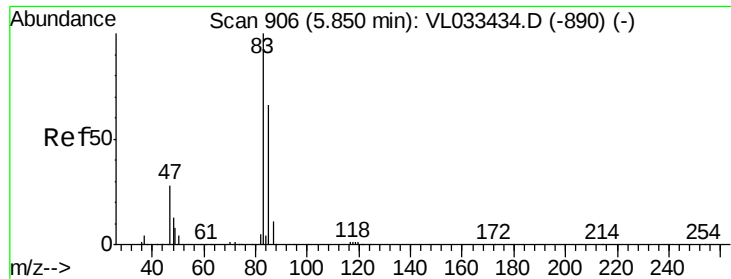
Delta R.T. 0.00 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Tgt Ion	Ratio	Lower	Upper
73	100		
57	23.7	17.4	26.0





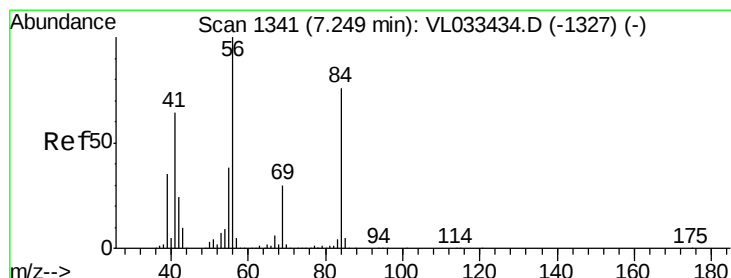
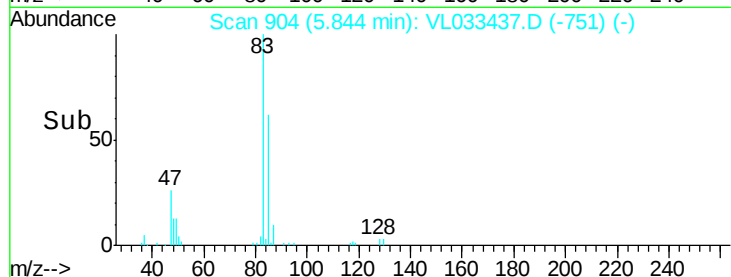
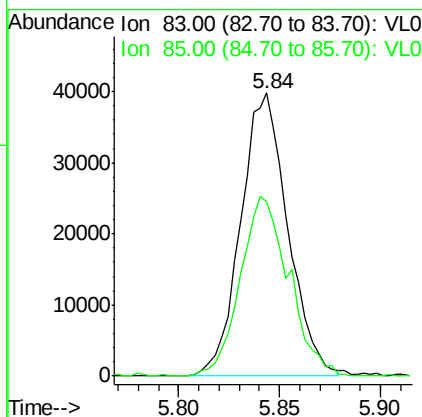
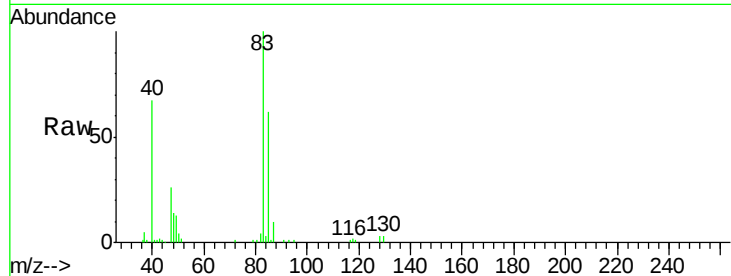
#29
Chloroform
Concen: 0.520 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	83	Resp	65114
Ion Ratio	Lower	Upper	
83	100		
85	61.8	52.0	78.0

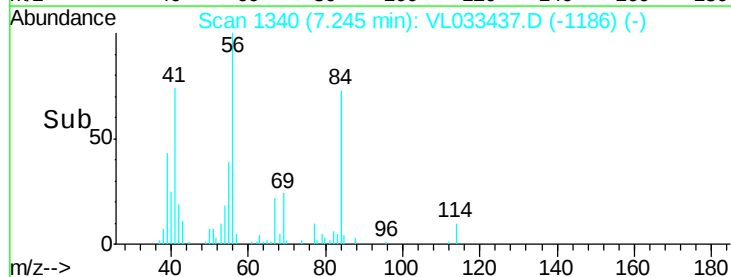
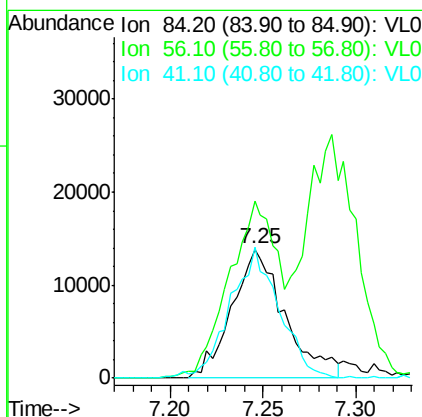
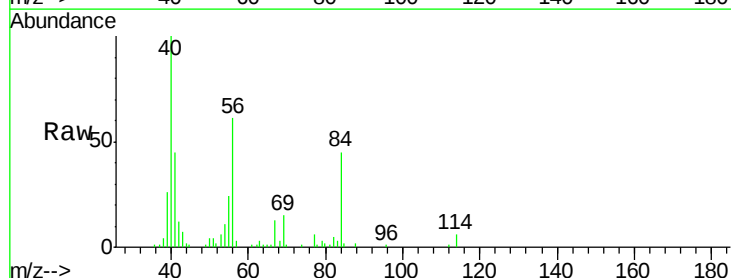
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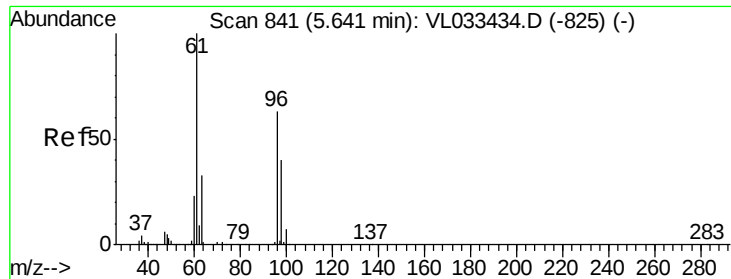
MMDadoda
4/1/2019 1:22:45 AM



#30
Cyclohexane
Concen: 0.448 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.01 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Tgt Ion	84	Resp	27442
Ion Ratio	Lower	Upper	
84	100		
56	124.4	111.3	166.9
41	93.8	69.6	104.4





#31

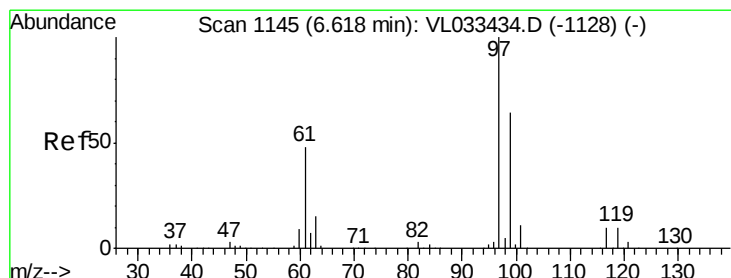
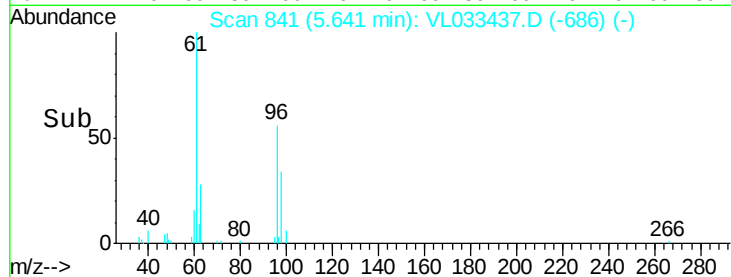
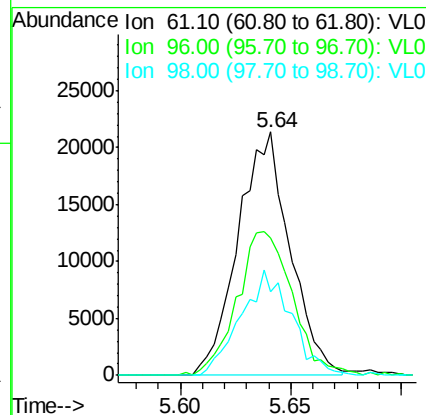
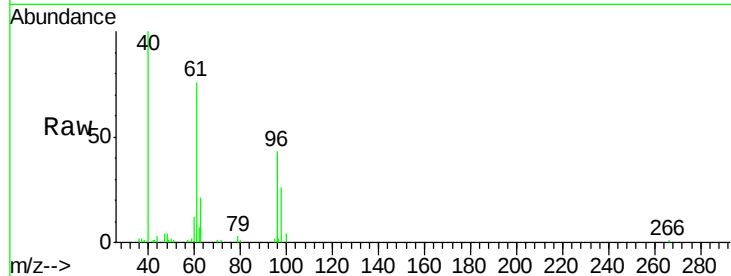
cis-1,2-Dichloroethene
Concen: 0.457 ppbv
RT: 5.64 min Scan# 841
Delta R.T. -0.00 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
61	100		
96	56.4	50.3	75.5
98	34.4	31.5	47.3

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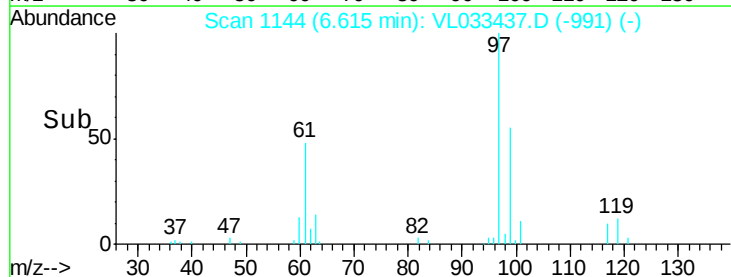
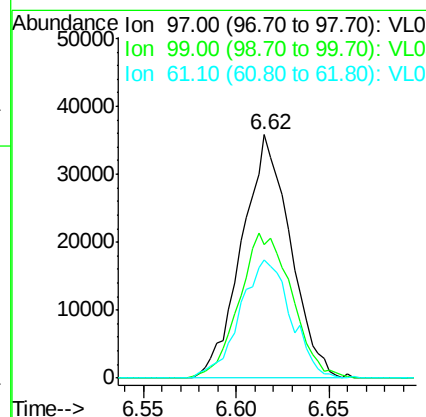
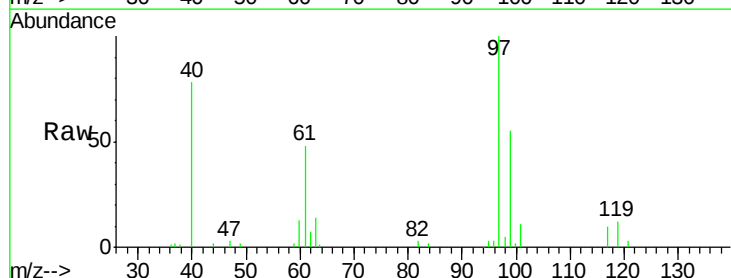
MMDadoda
4/1/2019 1:22:45 AM

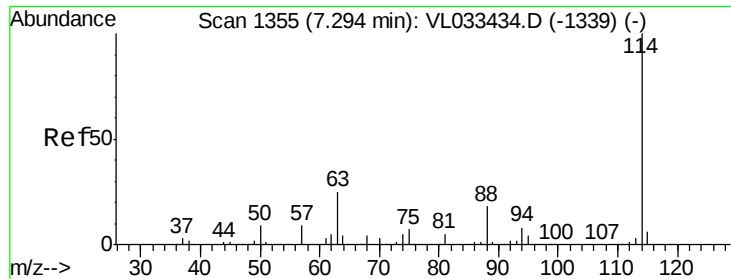


#32

1,1,1-Trichloroethane
Concen: 0.529 ppbv
RT: 6.62 min Scan# 1144
Delta R.T. -0.01 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.0	76.6
61	51.1	39.3	58.9





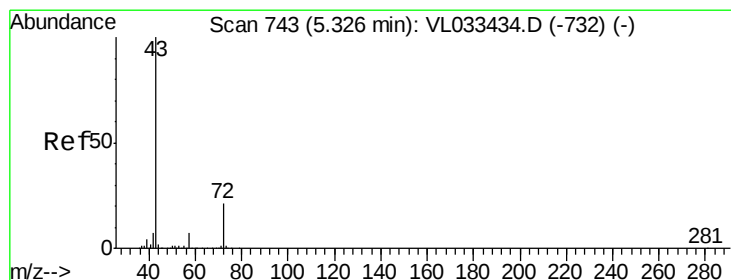
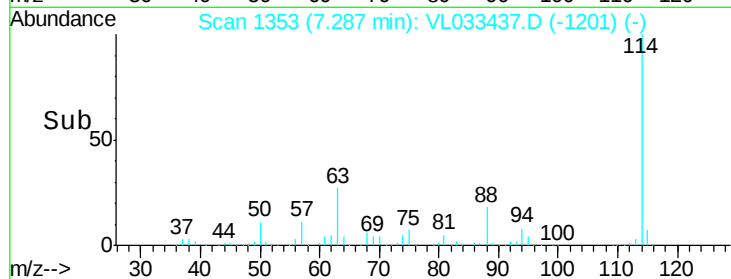
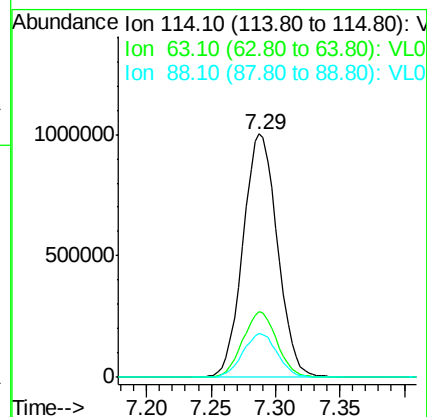
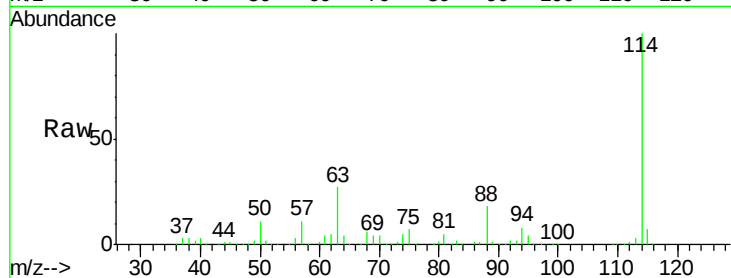
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033437.D
 Acq: 25 Mar 2019 12:25

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.8	21.4	32.2
88	18.2	14.5	21.7

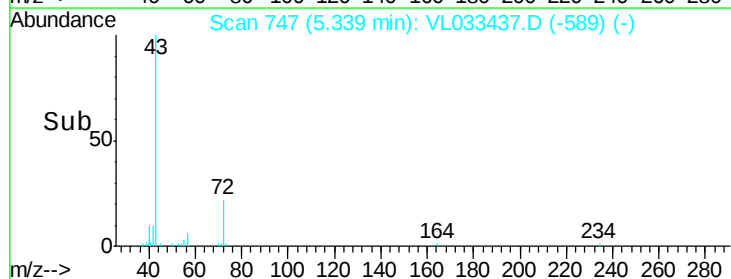
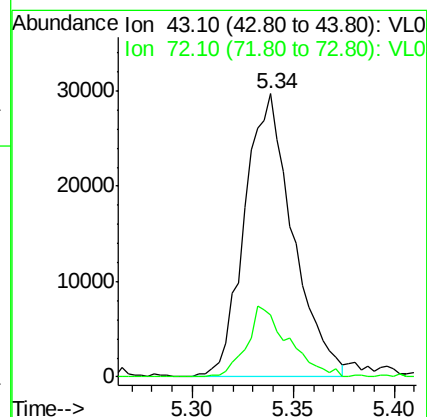
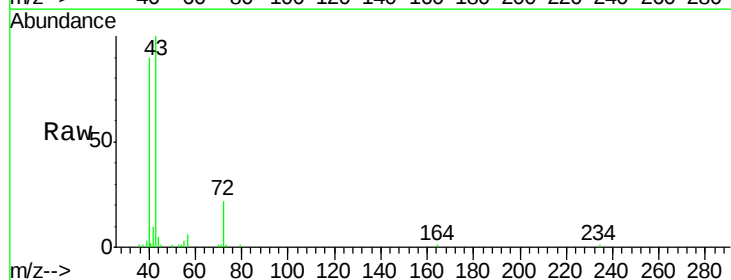
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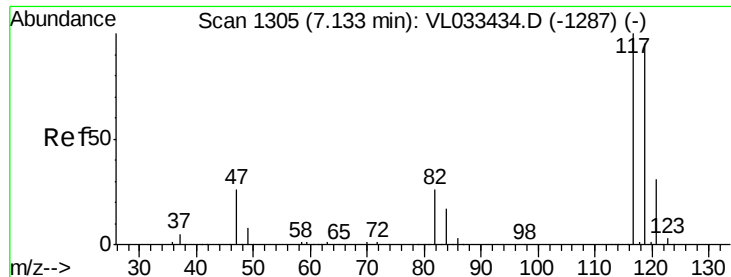
MMDadoda
 4/1/2019 1:22:45 AM



#34
 2-Butanone
 Concen: 0.407 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. 0.01 min
 Lab File: VL033437.D
 Acq: 25 Mar 2019 12:25

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.7	17.7	26.5





#35

Carbon Tetrachloride

Concen: 0.508 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

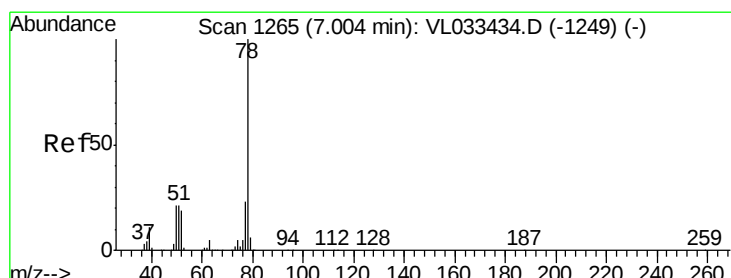
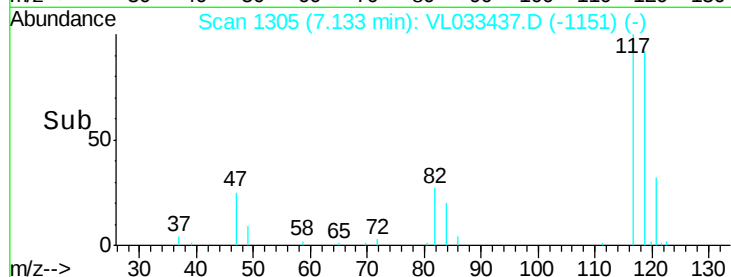
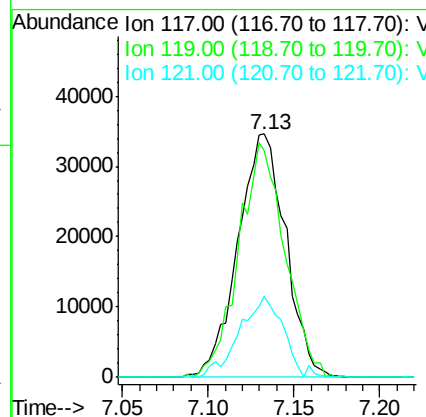
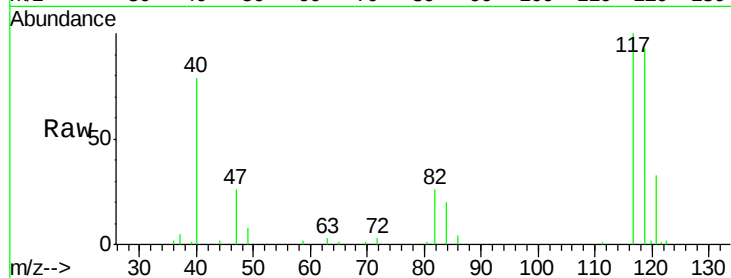
ClientSampleId :

VSTDIC0.5

Tot Ion:	117	Resp:	66634
Ion Ratio	Lower	Upper	
117	100		
119	93.1	77.4	116.0
121	34.1	24.9	37.3

Manual Integrations
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4/1/2019 1:22:45 AM



#36

Benzene

Concen: 0.437 ppbv

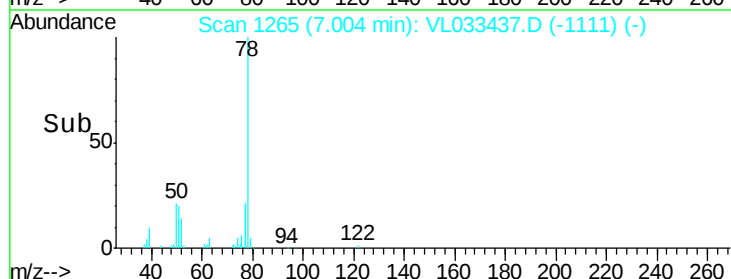
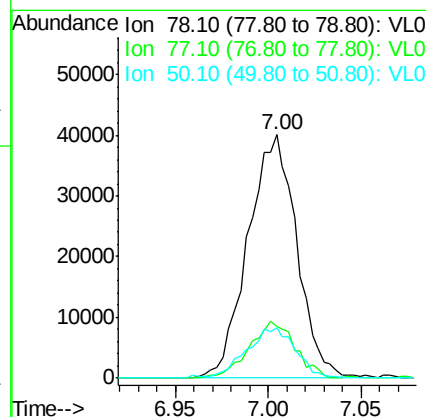
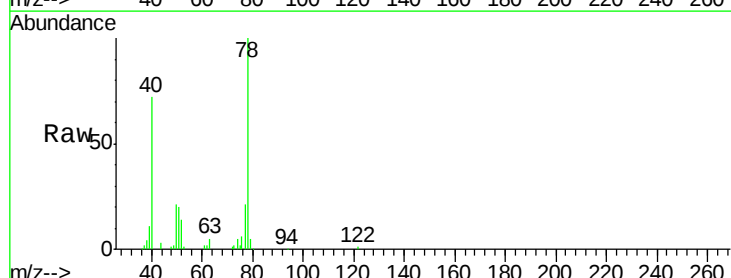
RT: 7.00 min Scan# 1265

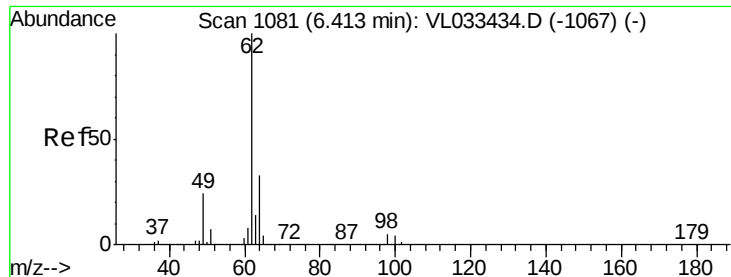
Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Tgt Ion:	78	Resp:	72841
Ion Ratio	Lower	Upper	
78	100		
77	20.9	18.1	27.1
50	20.6	15.2	22.8





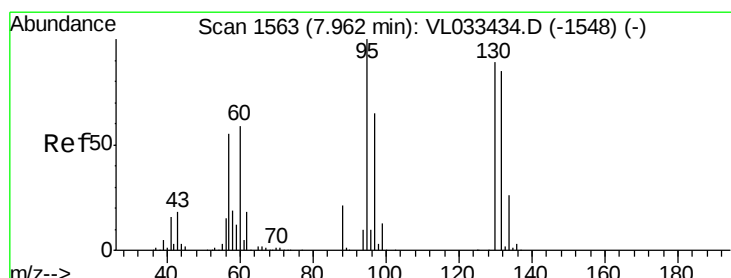
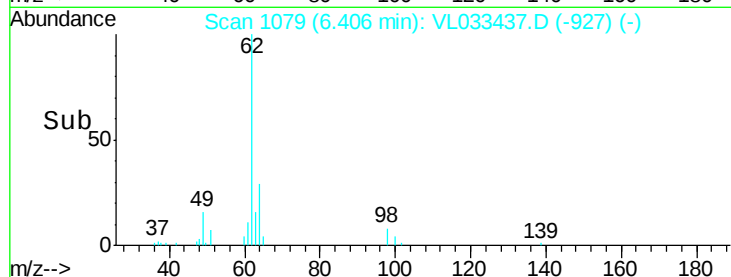
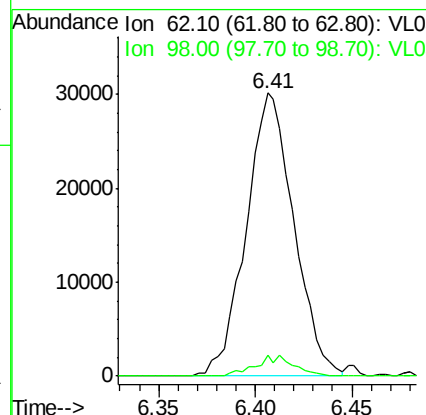
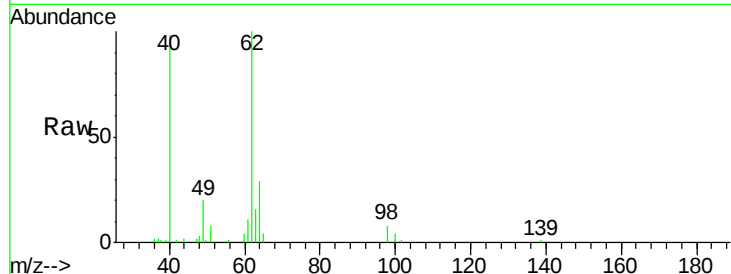
#37
1,2-Dichloroethane
Concen: 0.492 ppbv
RT: 6.41 min Scan# 1079
Delta R.T. -0.01 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.9	4.5	6.7

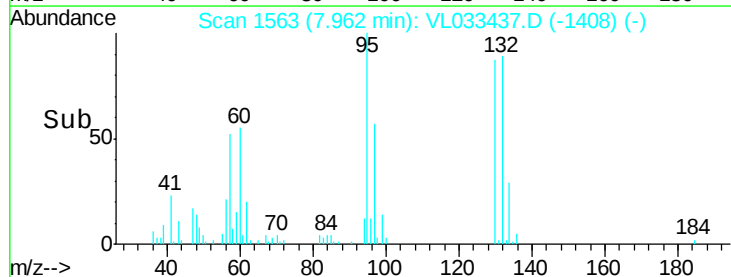
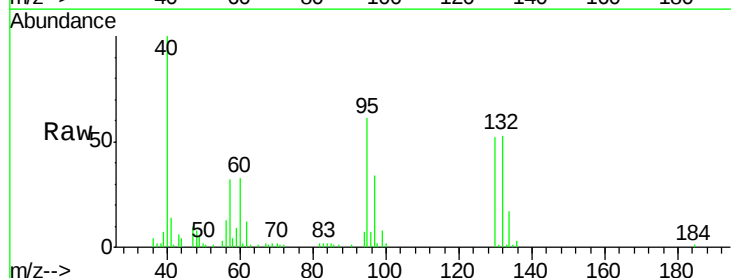
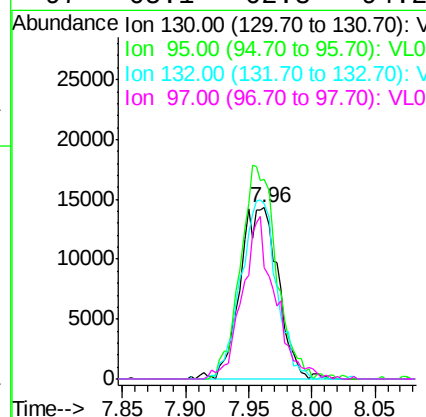
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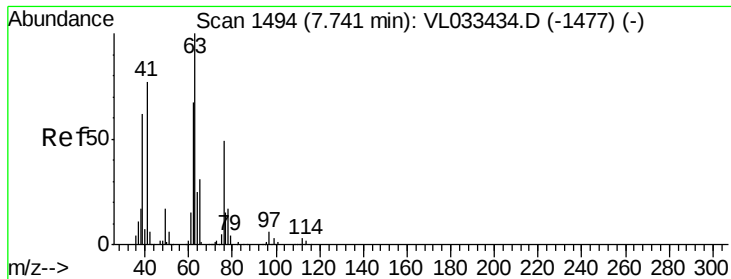
MMDadoda
4/1/2019 1:22:45 AM



#38
Trichloroethene
Concen: 0.480 ppbv m
RT: 7.96 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Tgt Ion	Ratio	Lower	Upper
130	100		
95	116.8	95.2	142.8
132	102.5	77.7	116.5
97	65.1	62.8	94.2





#39

1,2-Dichloropropane

Concen: 0.477 ppbv m

RT: 7.73 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

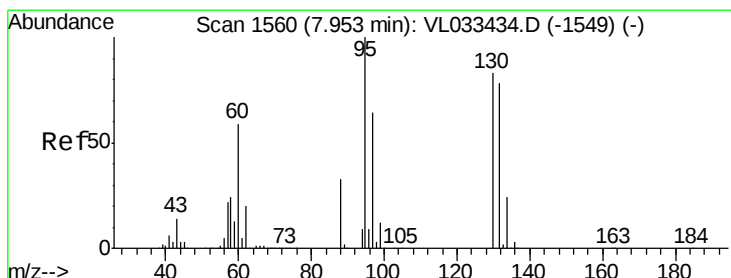
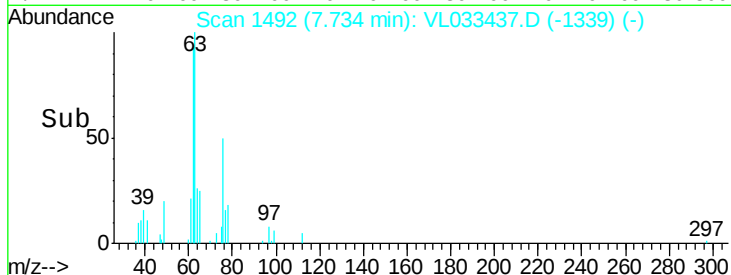
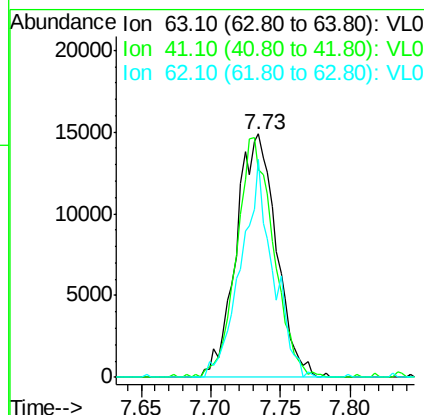
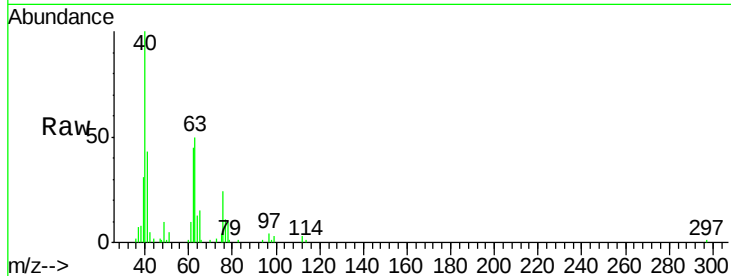
ClientSampleId :

VSTDIC0.5

Tot Ion:	63	Resp:	29749
Ion Ratio	Lower	Upper	
63	100		
41	85.4	59.5	89.3
62	89.8	54.7	82.1#

Manual Integrations
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#40

1,4-Dioxane

Concen: 0.572 ppbv m

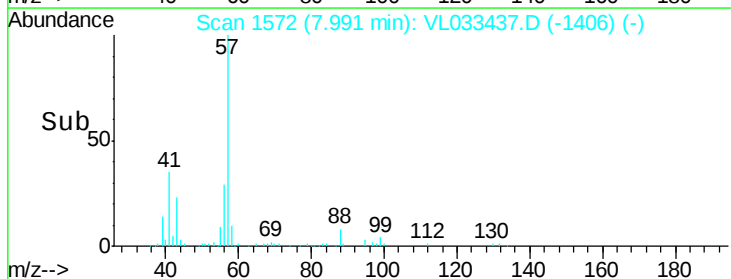
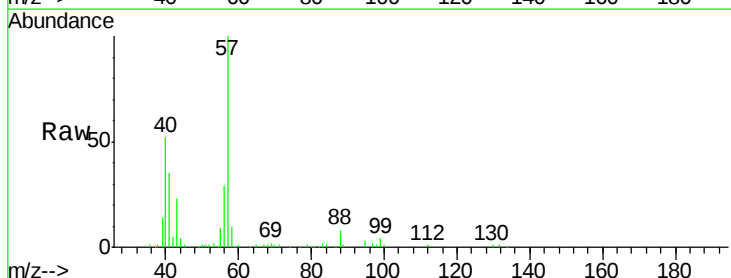
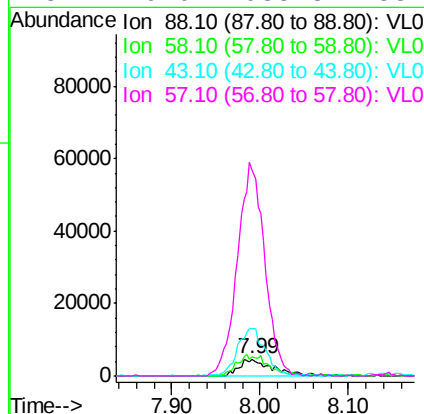
RT: 7.99 min Scan# 1572

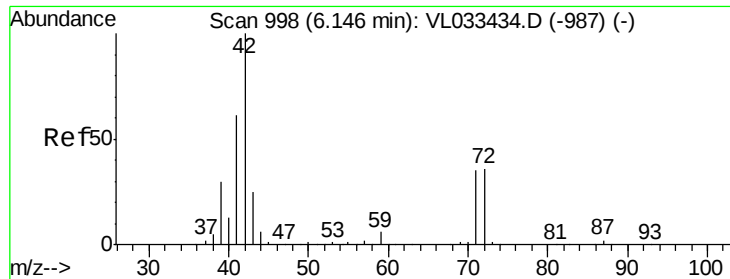
Delta R.T. 0.03 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Tgt Ion:	88	Resp:	12577
Ion Ratio	Lower	Upper	
88	100		
58	116.7	107.9	161.9
43	0.0	230.8	346.2#
57	0.0	1035.3	1552.9#





#41

Tetrahydrofuran

Concen: 0.420 ppbv m

RT: 6.17 min Scan# 1006

Delta R.T. 0.02 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

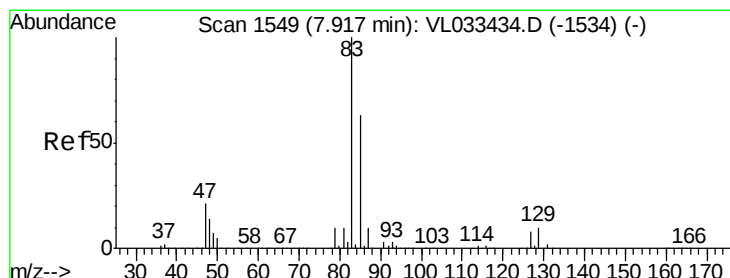
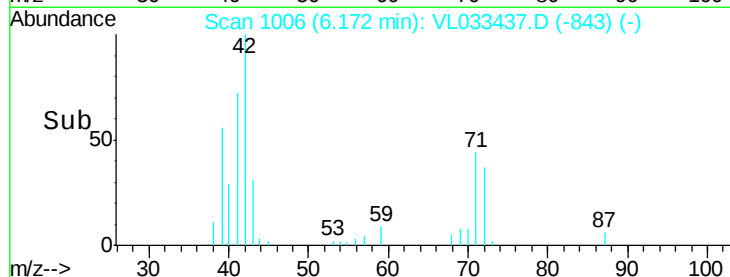
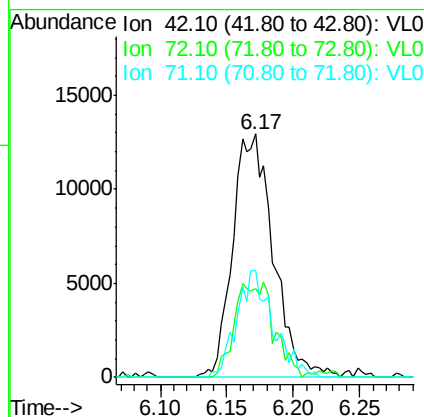
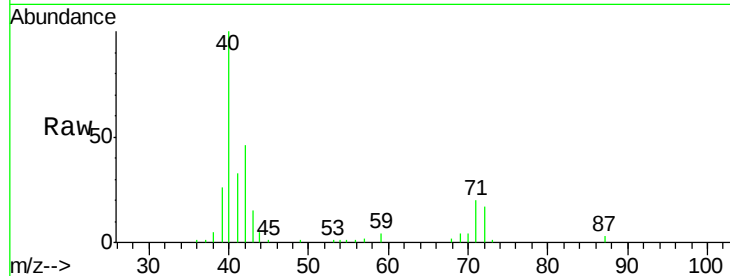
ClientSampleId :

VSTDIC0.5

Tot Ion:	42	Resp:	27419
Ion Ratio	Lower	Upper	
42	100		
72	0.0	31.6	47.4#
71	0.0	29.9	44.9#

Manual Integrations
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4/1/2019 1:22:45 AM



#42

Bromodichloromethane

Concen: 0.465 ppbv

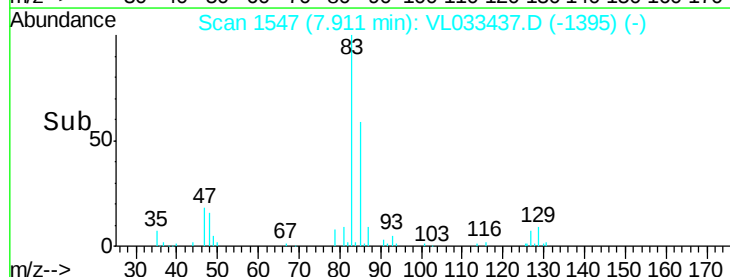
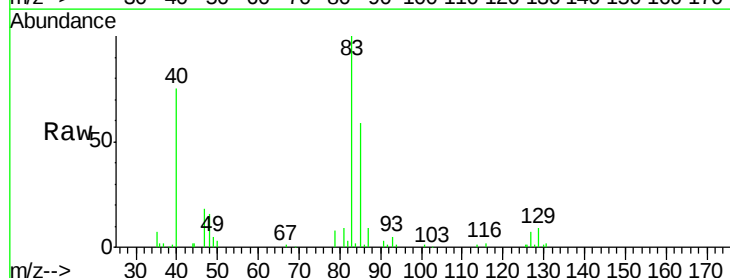
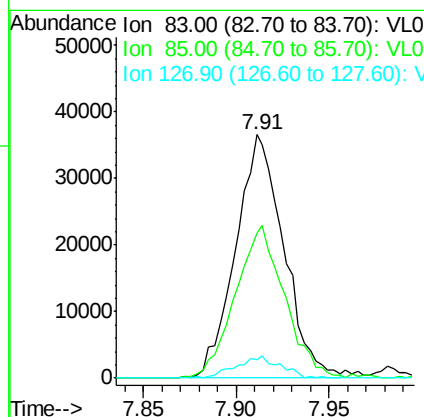
RT: 7.91 min Scan# 1547

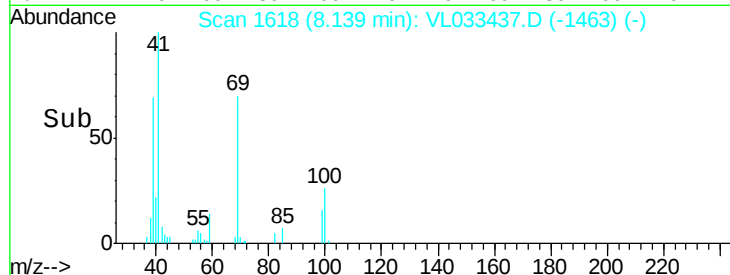
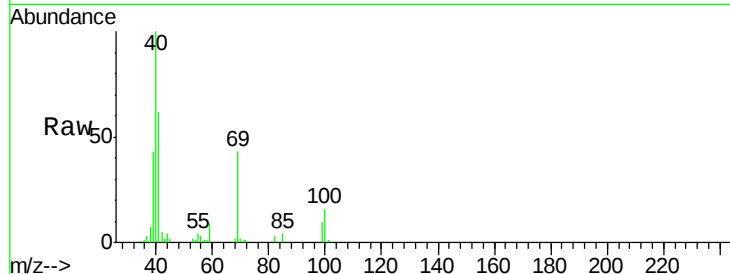
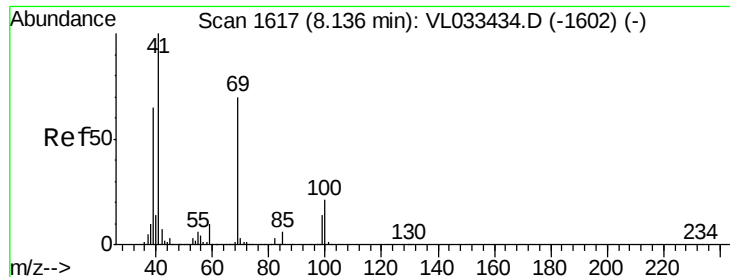
Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Tgt Ion:	83	Resp:	65733
Ion Ratio	Lower	Upper	
83	100		
85	58.6	51.8	77.6
127	7.3	6.2	9.2





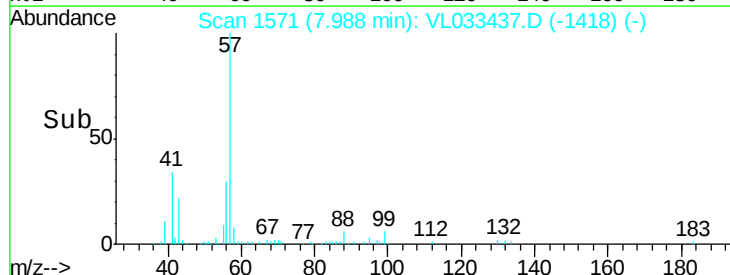
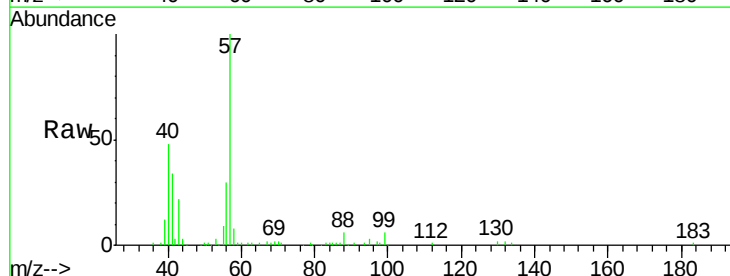
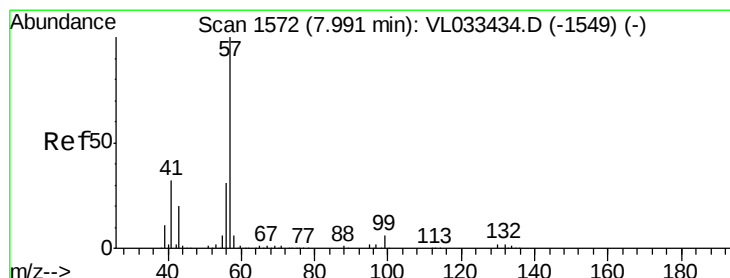
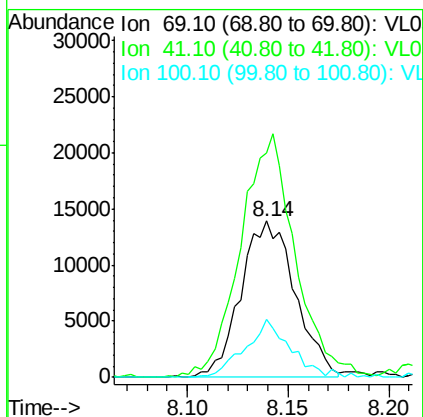
#43
Methvl Methacrvlate
Concen: 0.405 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. -0.00 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Tot Ion	Ratio	Lower	Upper
69	100		
41	156.0	119.5	179.3
100	31.2	24.4	36.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

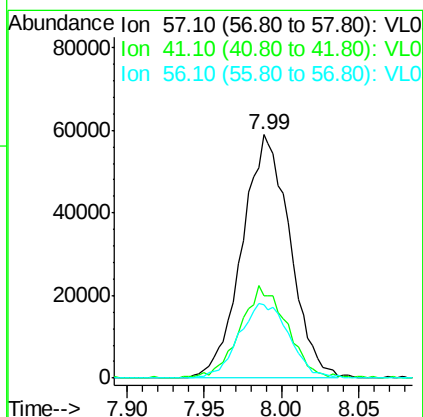
Manual Integrations
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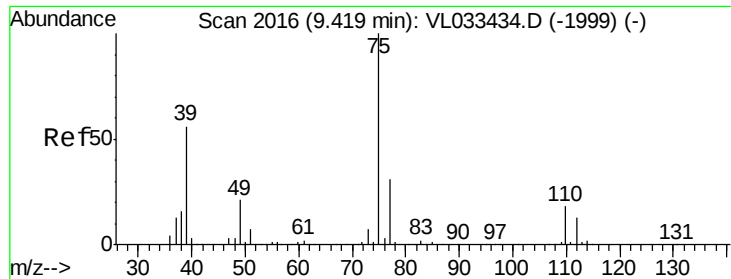
MMDadoda
4/1/2019 1:22:45 AM



#44
2,2,4-Trimethylpentane
Concen: 0.458 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Tgt Ion	Ratio	Lower	Upper
57	100		
41	37.7	26.0	39.0
56	32.3	24.6	36.8





#45

t-1,3-Dichloropropene

Concen: 0.331 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Tot Ion: 75 Resp: 26481

Ion Ratio Lower Upper

75 100

77 27.6 25.5 38.3

Instrument :

MSVOA_L

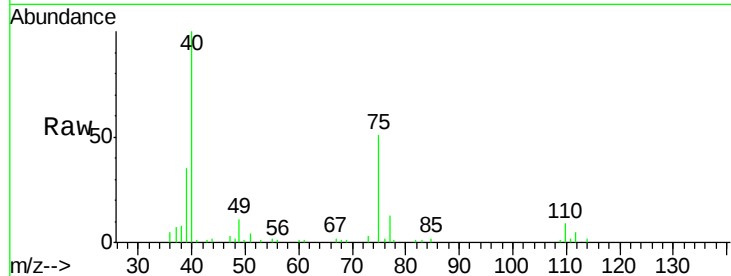
ClientSampleId :

VSTDIC0.5

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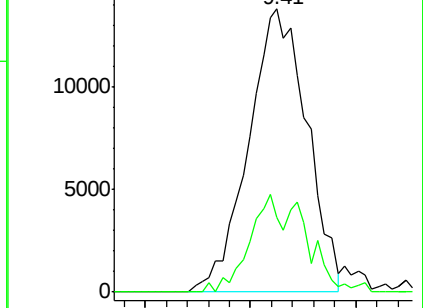
MMDadoda

4/1/2019 1:22:45 AM

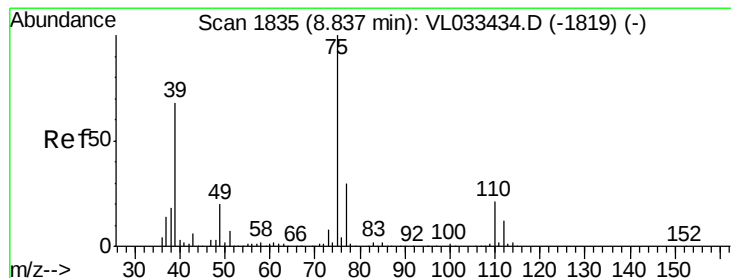
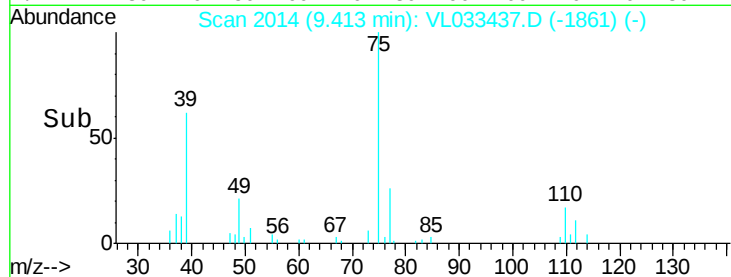


Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



Time-->



#46

cis-1,3-Dichloropropene

Concen: 0.360 ppbv m

RT: 8.84 min Scan# 1835

Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

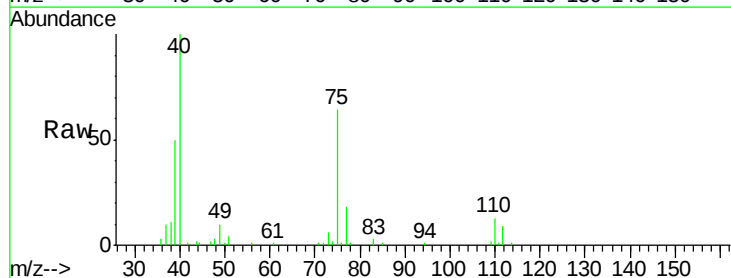
Tgt Ion: 75 Resp: 33931

Ion Ratio Lower Upper

75 100

39 77.5 55.0 82.6

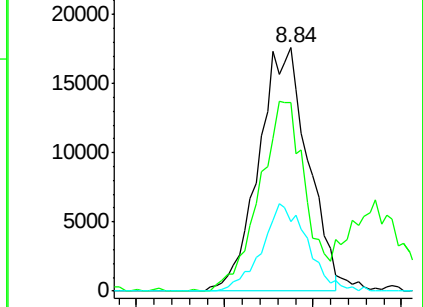
77 28.4 24.5 36.7



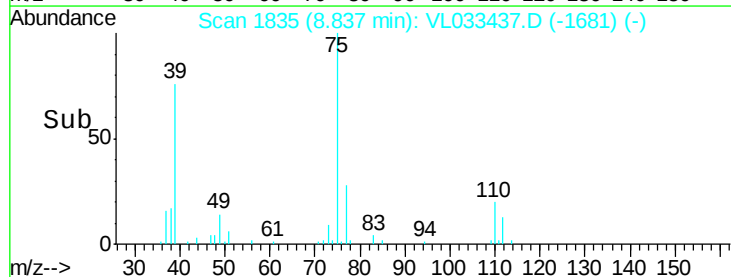
Abundance Ion 75.00 (74.70 to 75.70): VL0

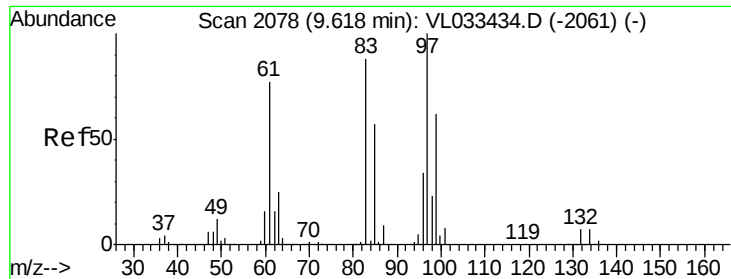
Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0



Time-->





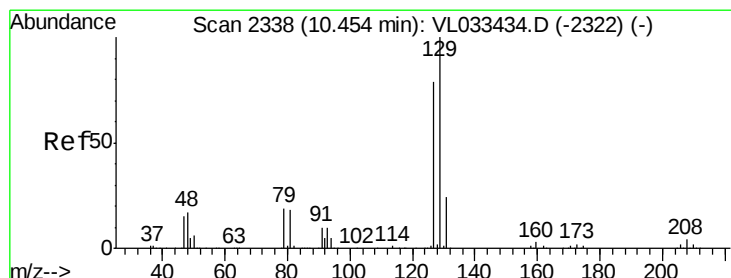
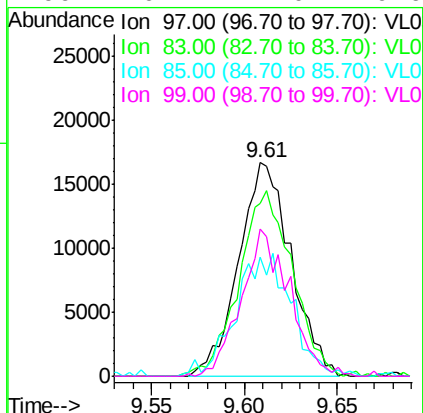
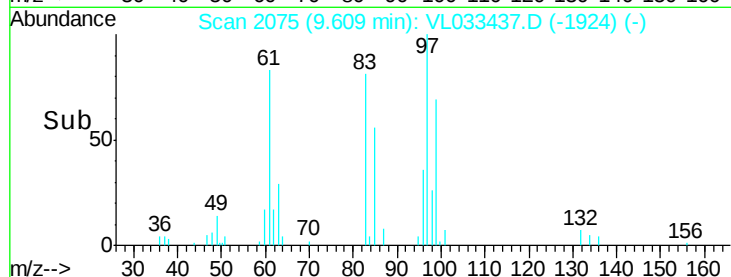
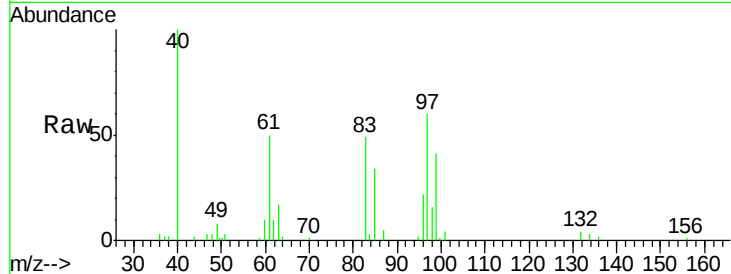
#47
 1,1,2-Trichloroethane
 Concen: 0.473 ppbv
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.02 min
 Lab File: VL033437.D
 Acq: 25 Mar 2019 12:25

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC0.5

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	79.8	67.4	101.0	
85	54.1	43.0	64.4	
99	70.2	47.0	70.6	

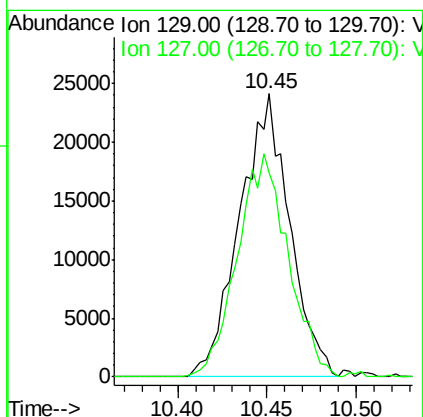
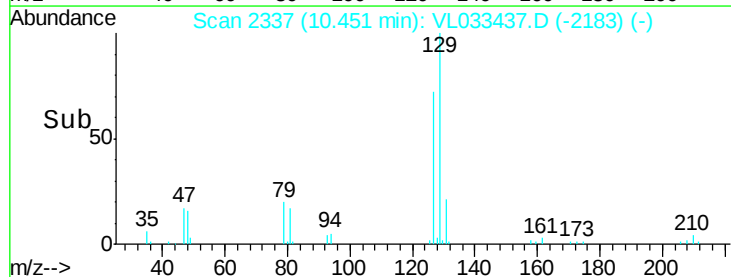
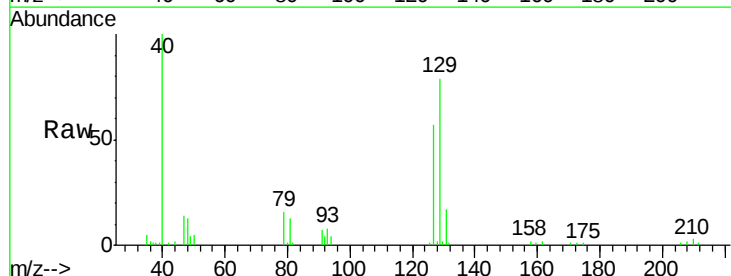
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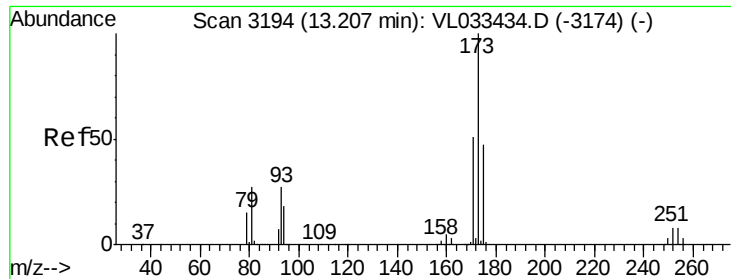
MMDadoda
 4/1/2019 1:22:45 AM



#48
 Dibromochloromethane
 Concen: 0.408 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. -0.01 min
 Lab File: VL033437.D
 Acq: 25 Mar 2019 12:25

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	80.6	38.9	116.6	





#49

Bromoform

Concen: 0.366 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

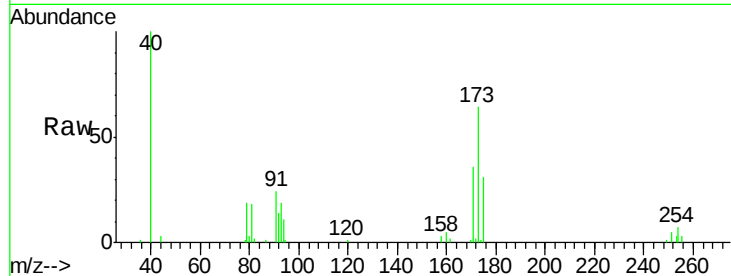
ClientSampleId :

VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.5	39.0	58.6
171	53.1	41.7	62.5

Manual Integrations
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MMDadoda
4/1/2019 1:22:45 AM

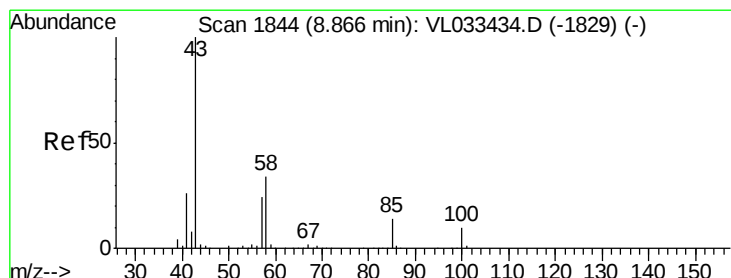
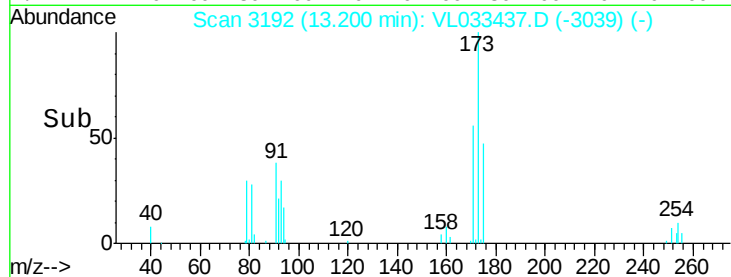
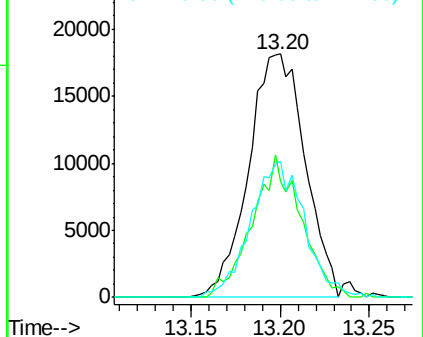


Abundance

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: 0.395 ppbv

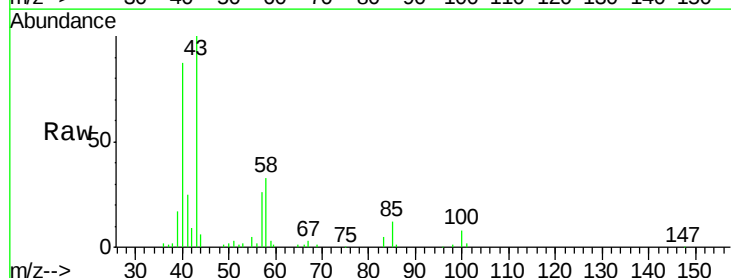
RT: 8.88 min Scan# 1849

Delta R.T. 0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

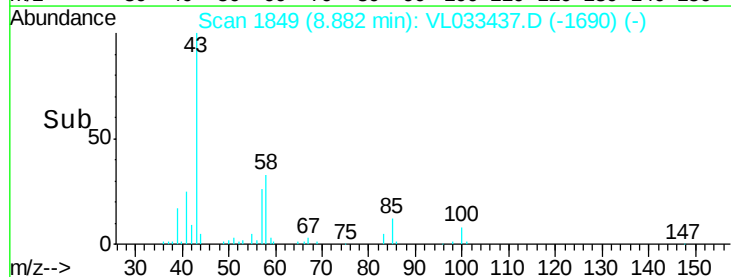
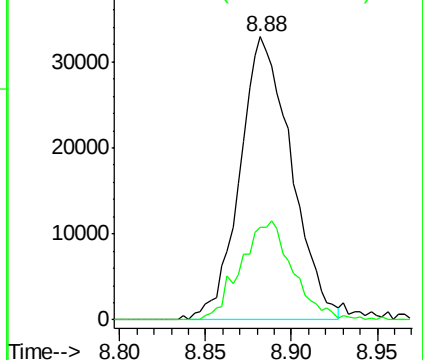
Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.4	28.4	42.6

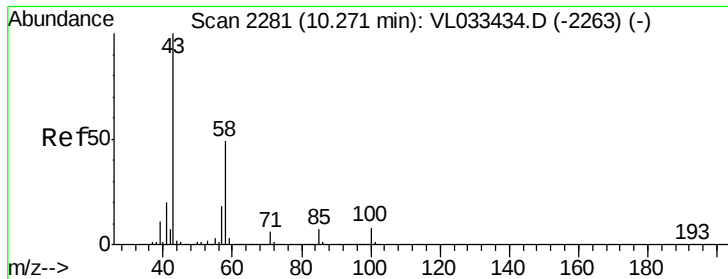


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.365 ppbv m

RT: 10.29 min Scan# 2286

Delta R.T. 0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

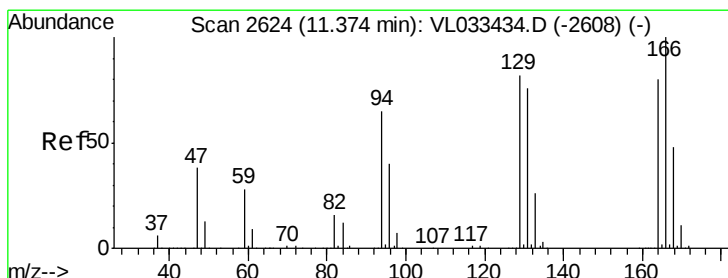
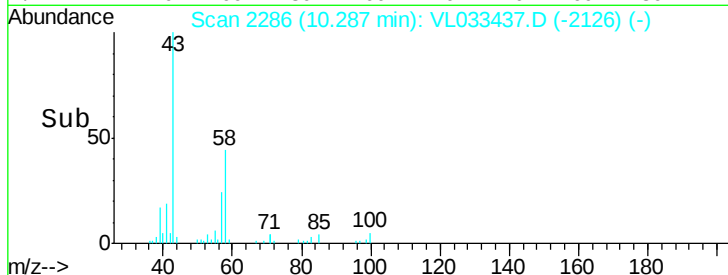
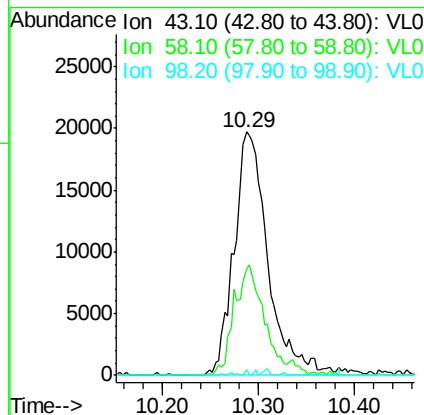
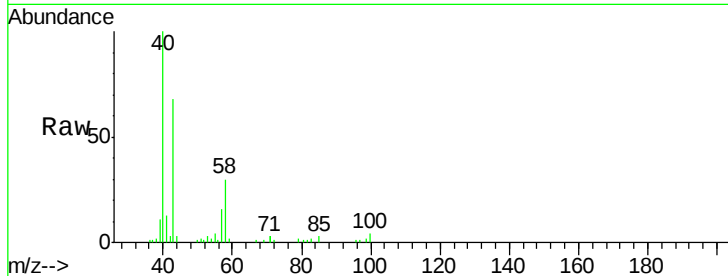
ClientSampleId :

VSTDIC0.5

Tot Ion:	43	Resp:	48691
Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.0	57.0#
98	0.0	0.1	0.1#

Manual Integrations
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#52

Tetrachloroethene

Concen: 0.389 ppbv

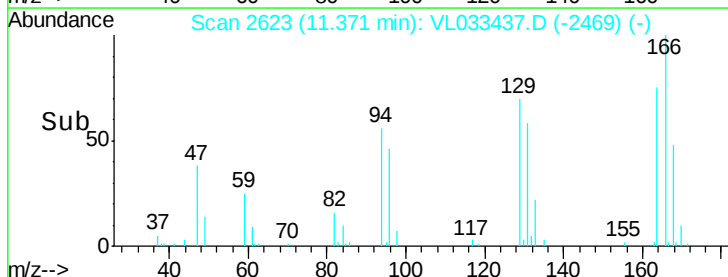
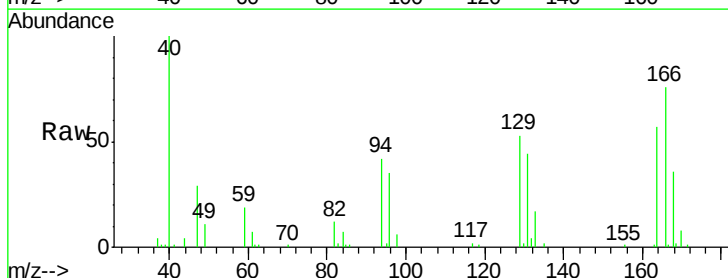
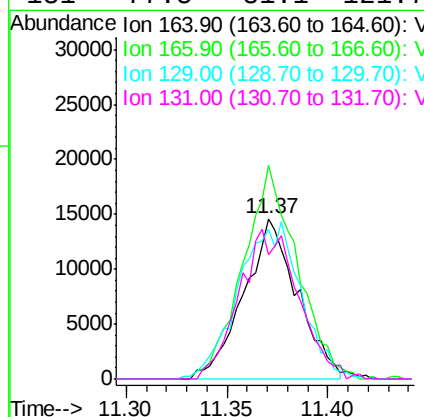
RT: 11.37 min Scan# 2623

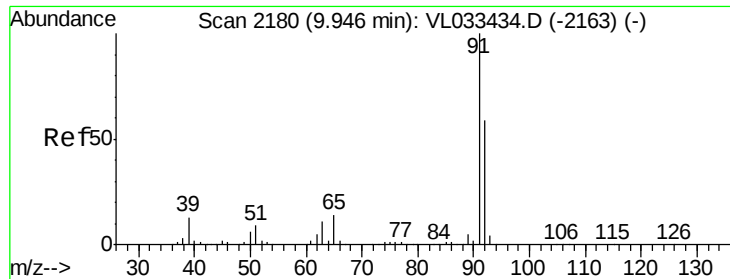
Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Tgt Ion:	164	Resp:	26979
Ion	Ratio	Lower	Upper
164	100		
166	133.6	101.5	152.3
129	91.7	82.2	123.2
131	77.5	81.1	121.7#





#53

Toluene

Concen: 0.374 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 70871

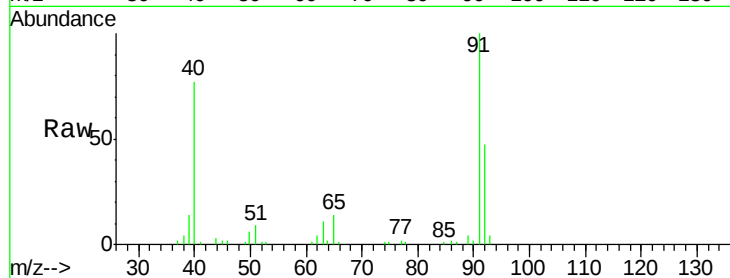
Ion Ratio Lower Upper

91 100

92 57.9 47.4 71.0

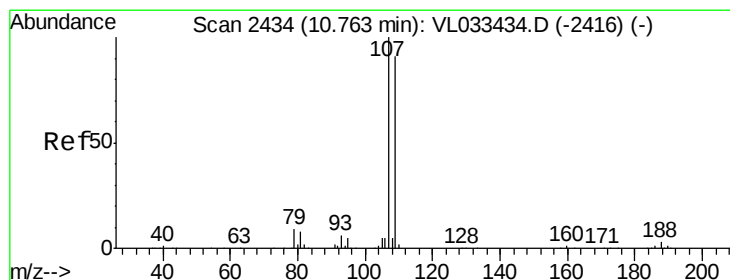
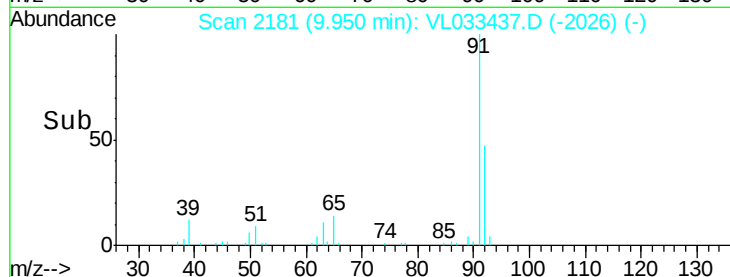
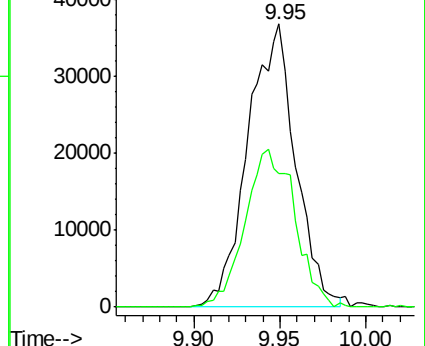
Manual Integrations
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4/1/2019 1:22:45 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 0.422 ppbv m

RT: 10.76 min Scan# 2432

Delta R.T. -0.01 min

Lab File: VL033437.D

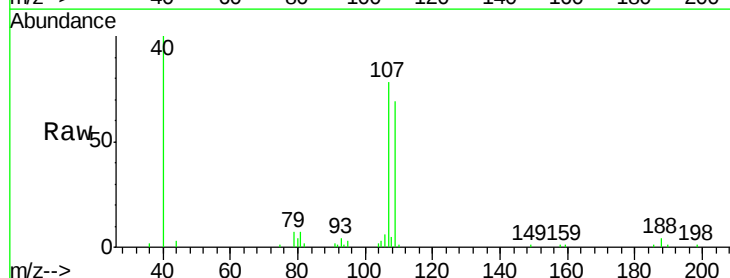
Acq: 25 Mar 2019 12:25

Tgt Ion: 107 Resp: 49241

Ion Ratio Lower Upper

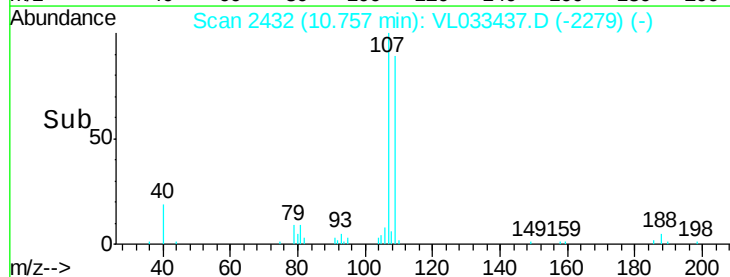
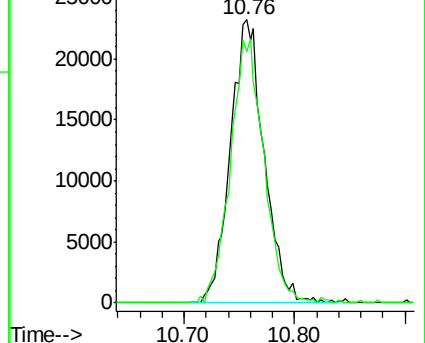
107 100

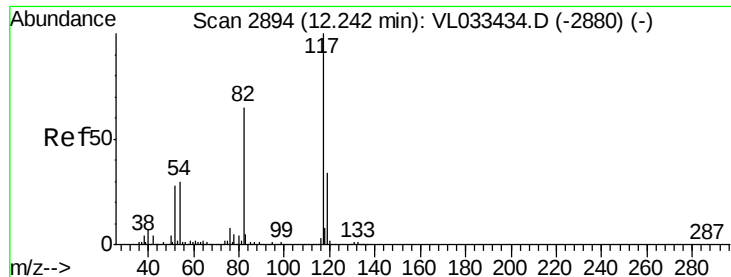
109 88.8 77.2 115.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





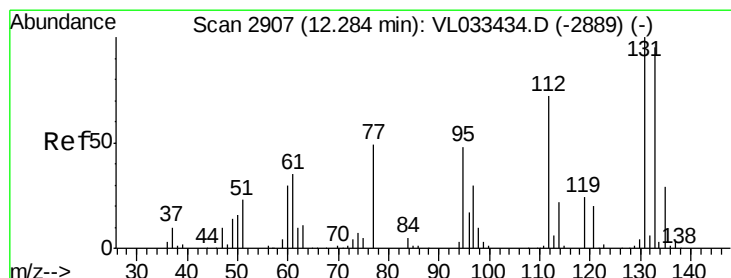
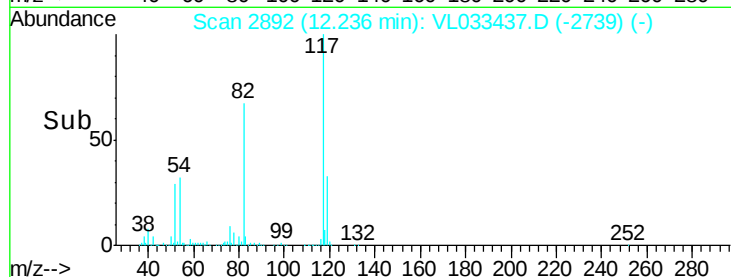
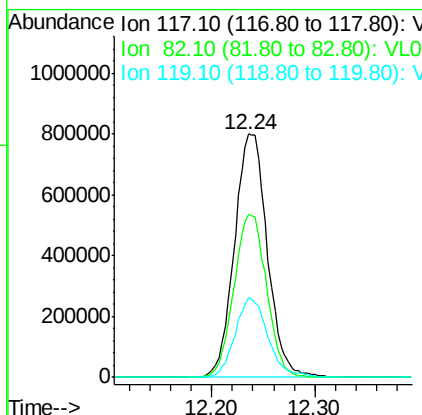
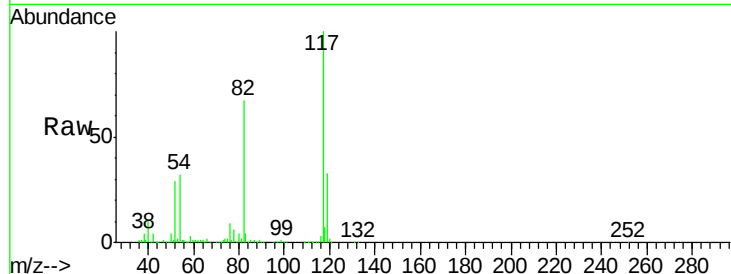
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion:117 Resp: 1775316
Ion Ratio Lower Upper
117 100
82 66.5 53.4 80.2
119 32.7 27.3 40.9

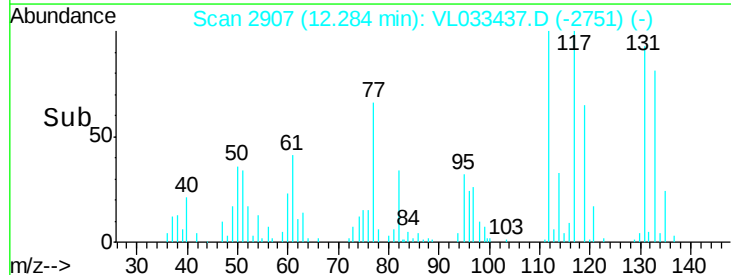
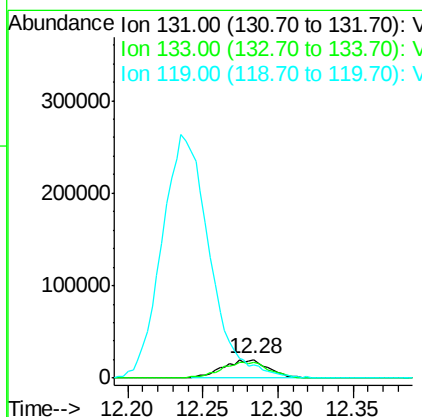
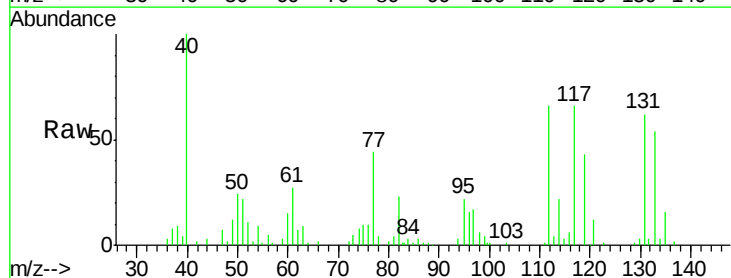
Manual Integrations
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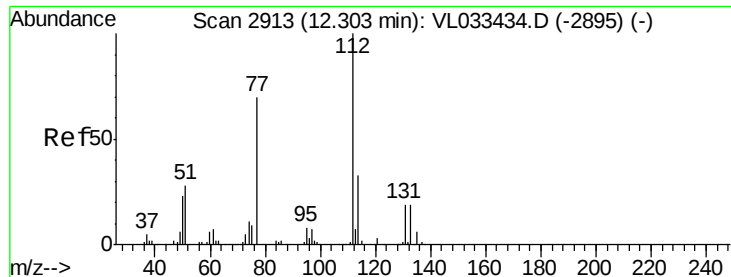
MMDadoda
4/1/2019 1:22:45 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.528 ppbv m
RT: 12.28 min Scan# 2907
Delta R.T. 0.00 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Tgt Ion:131 Resp: 41954
Ion Ratio Lower Upper
131 100
133 93.0 76.7 115.1
119 0.0 40.3 60.5#





#57

Chlorobenzene

Concen: 0.507 ppbv m

RT: 12.29 min Scan# 2910

Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 112 Resp: 71328

Ion Ratio Lower Upper

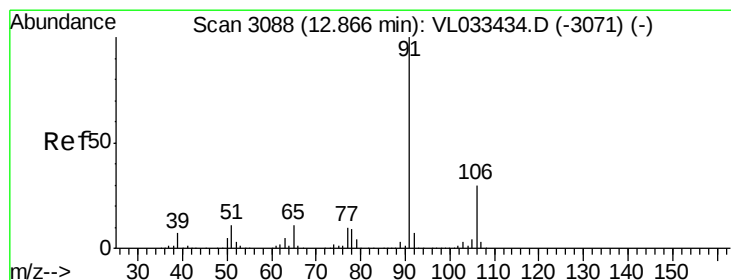
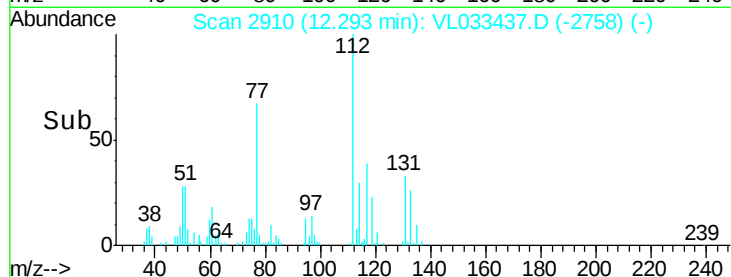
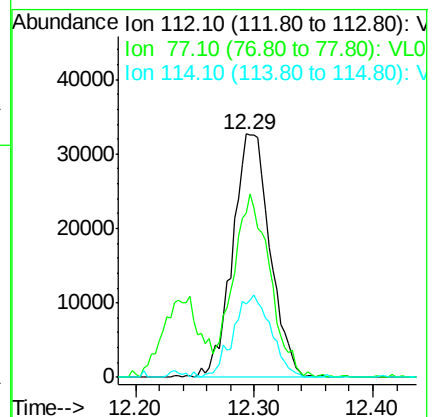
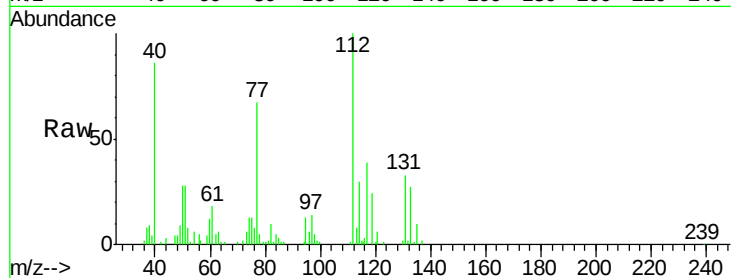
112 100

77 67.4 55.8 83.6

114 30.1 28.6 35.0

Manual Integrations
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4/1/2019 1:22:45 AM



#58

Ethyl Benzene

Concen: 0.420 ppbv

RT: 12.86 min Scan# 3087

Delta R.T. -0.01 min

Lab File: VL033437.D

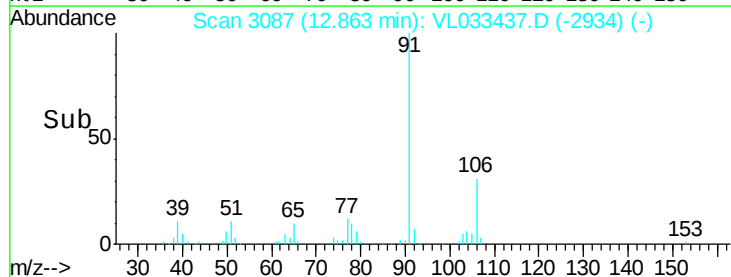
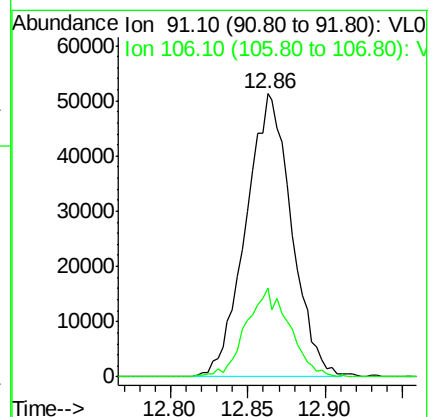
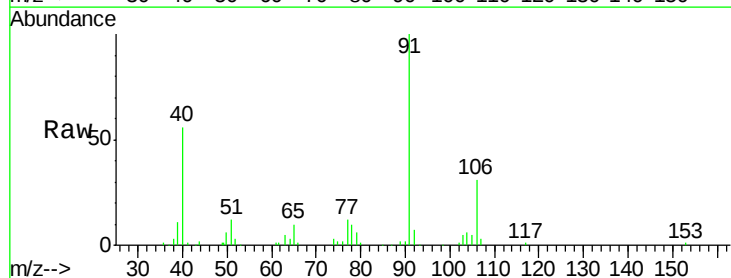
Acq: 25 Mar 2019 12:25

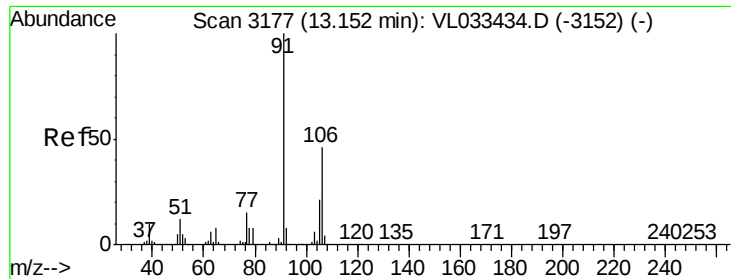
Tgt Ion: 91 Resp: 105578

Ion Ratio Lower Upper

91 100

106 31.4 24.2 36.2





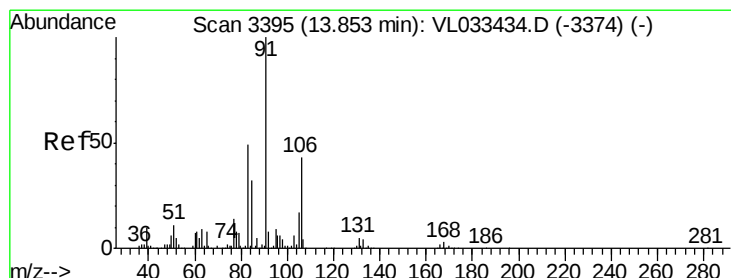
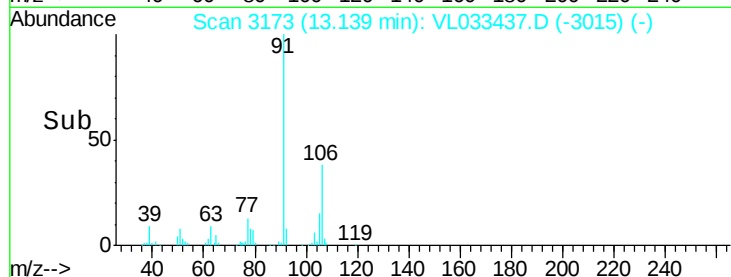
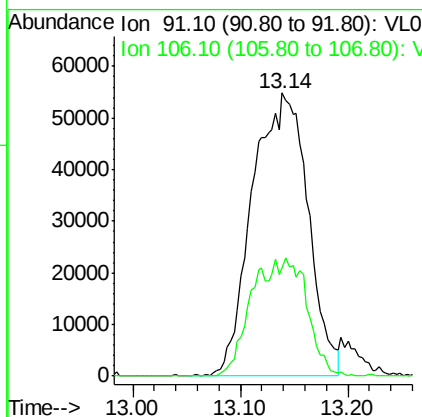
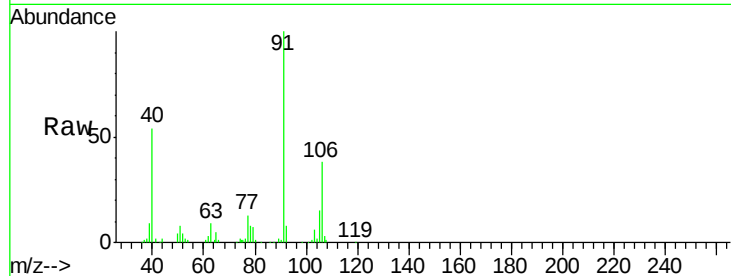
#59
m/p-Xylene
Concen: 0.910 ppbv m
RT: 13.14 min Scan# 3173
Delta R.T. 0.01 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

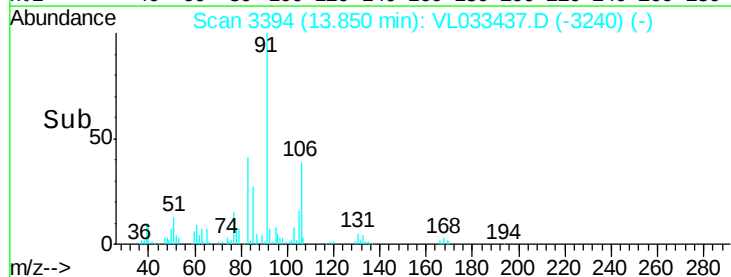
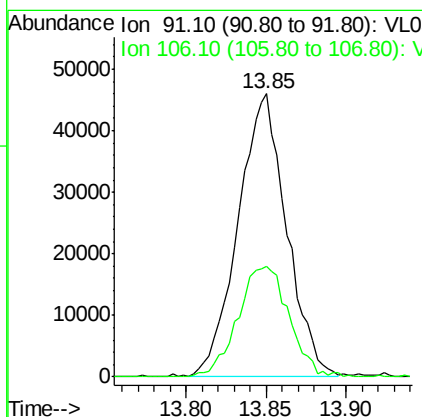
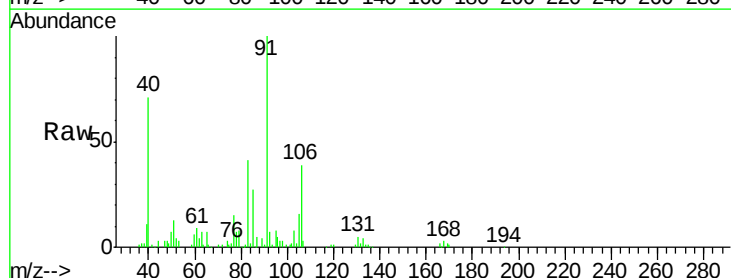
Manual Integrations
APPROVED

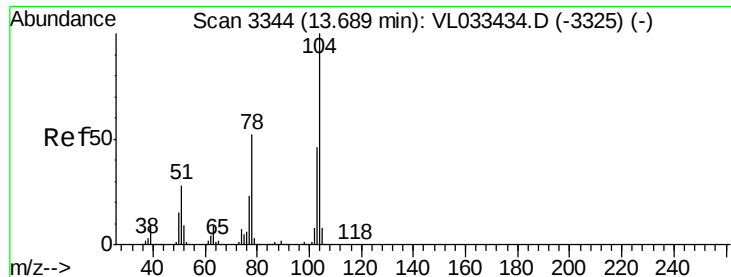
MMDadoda
4/1/2019 1:22:45 AM



#60
o-Xylene
Concen: 0.452 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Tgt Ion	Ratio	Lower	Upper
91	100		
106	41.2	21.3	63.9





#61

Stvrene

Concen: 0.384 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

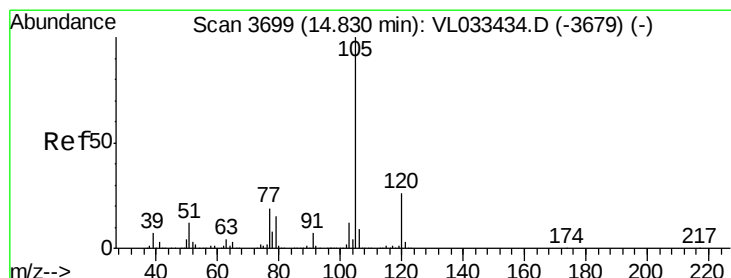
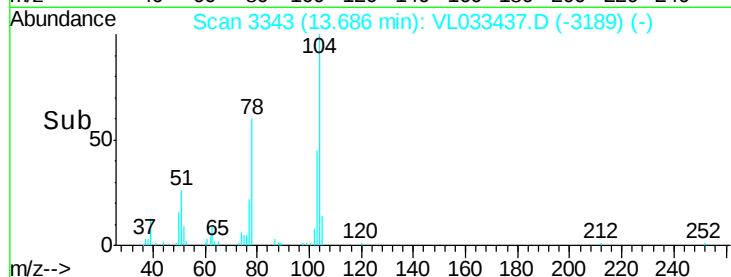
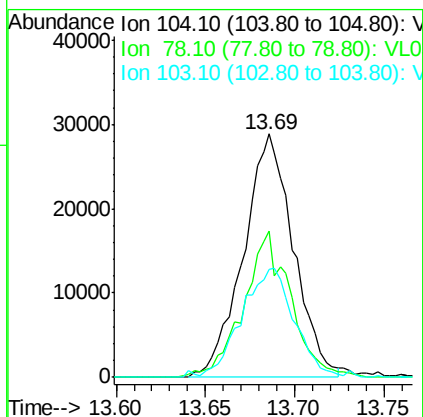
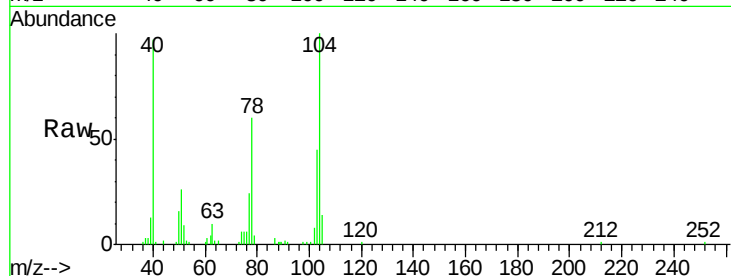
ClientSampleId :

VSTDIC0.5

Tot Ion:	104	Resp:	56564
Ion	Ratio	Lower	Upper
104	100		
78	56.6	42.7	64.1
103	47.7	38.0	57.0

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MMDadoda
4/1/2019 1:22:45 AM



#62

Isopropylbenzene

Concen: 0.473 ppbv

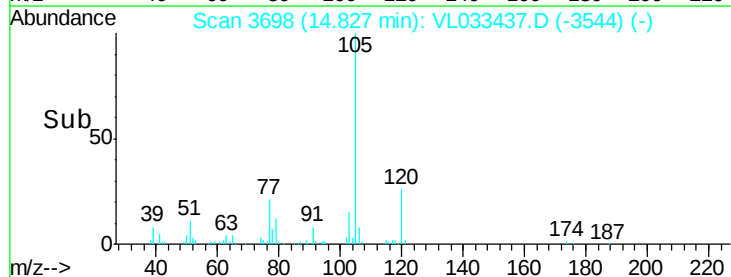
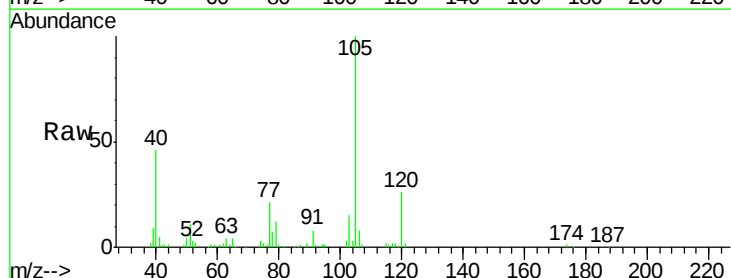
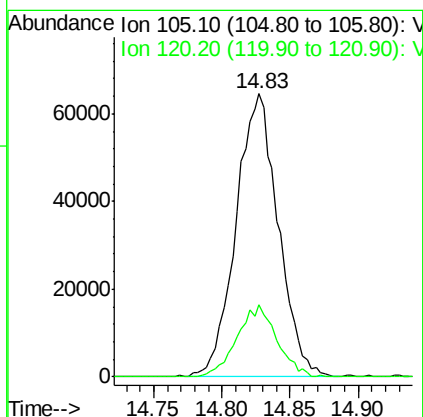
RT: 14.83 min Scan# 3698

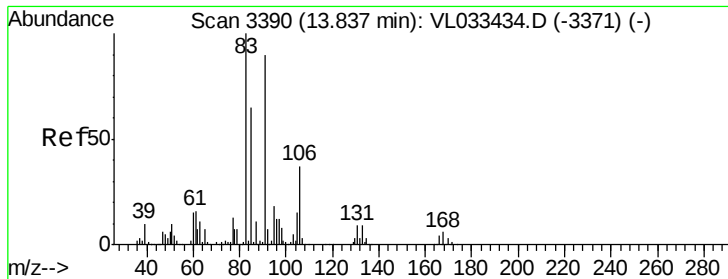
Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Tgt Ion:	105	Resp:	138468
Ion	Ratio	Lower	Upper
105	100		
120	24.0	19.9	29.9





#63

1,1,2,2-Tetrachloroethane

Concen: 0.511 ppbv

RT: 13.83 min Scan# 3388

Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

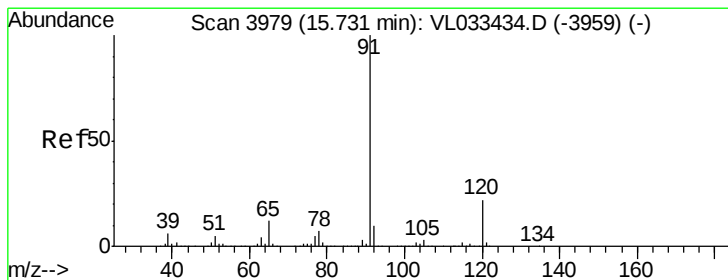
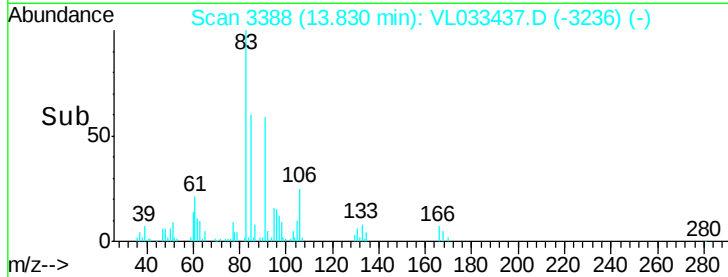
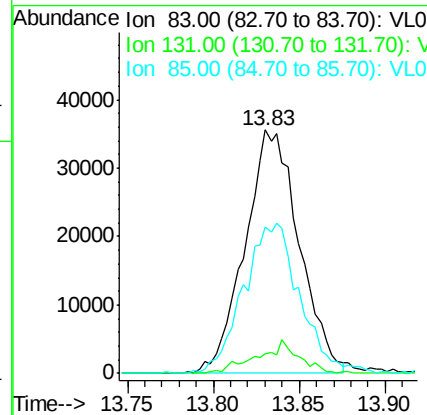
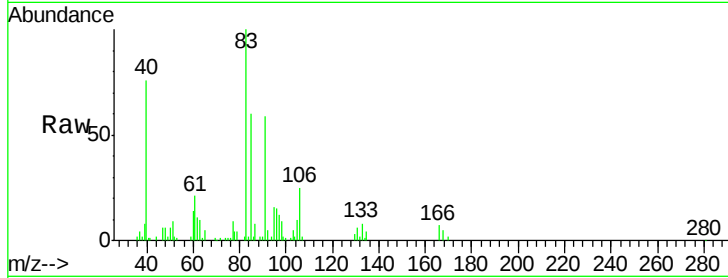
ClientSampleId :

VSTDIC0.5

Tot Ion:	83	Resp:	77734
Ion	Ratio	Lower	Upper
83	100		
131	10.5	4.7	14.0
85	64.3	32.5	97.4

Manual Integrations
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4/1/2019 1:22:45 AM



#64

n-propylbenzene

Concen: 0.471 ppbv m

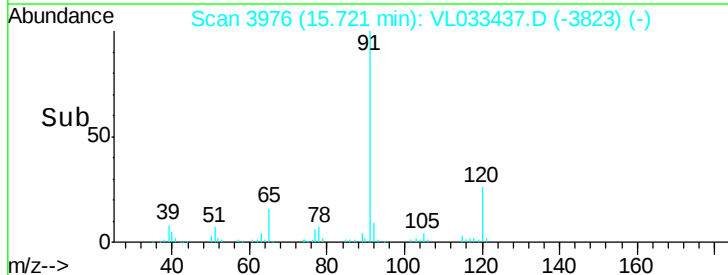
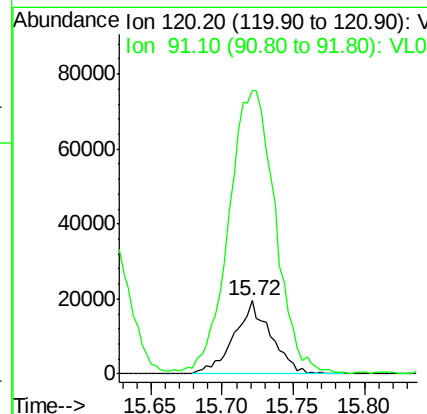
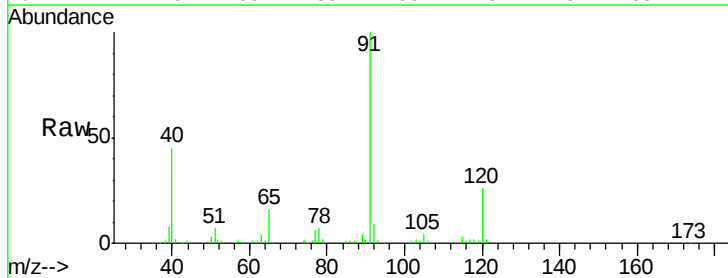
RT: 15.72 min Scan# 3976

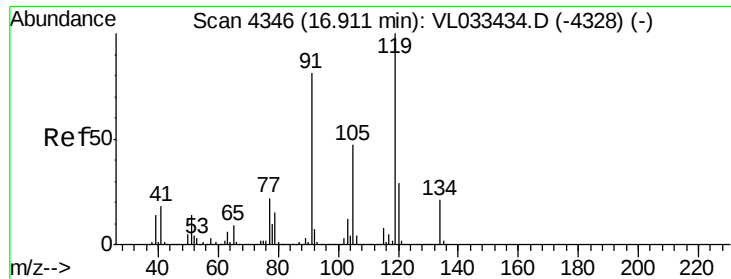
Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Tgt Ion:	120	Resp:	34852
Ion	Ratio	Lower	Upper
120	100		
91	490.7	389.8	584.6





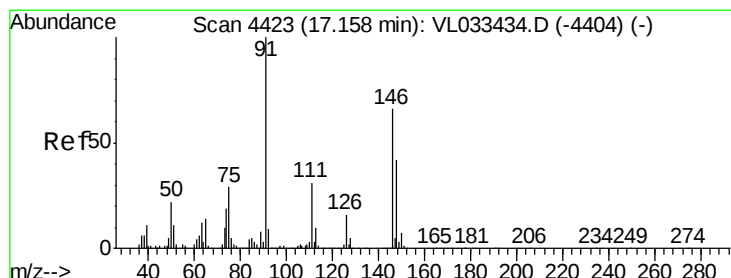
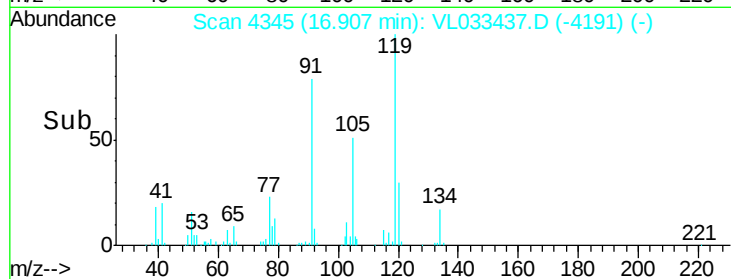
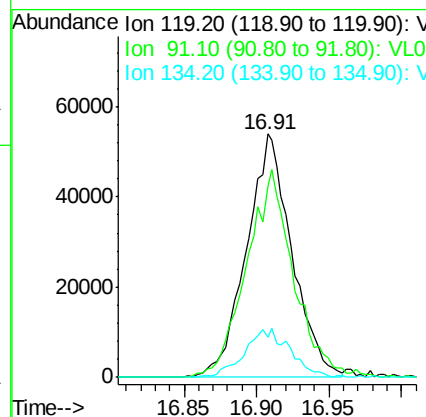
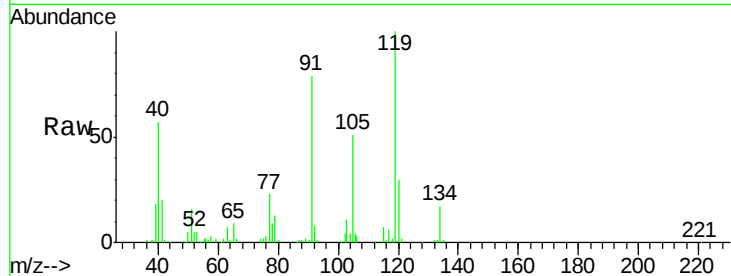
#65
tert-Butylbenzene
Concen: 0.444 ppbv
RT: 16.91 min Scan# 4345
Delta R.T. -0.01 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	117032		
91	88.8	67.2	100.8	
134	20.0	15.4	23.2	

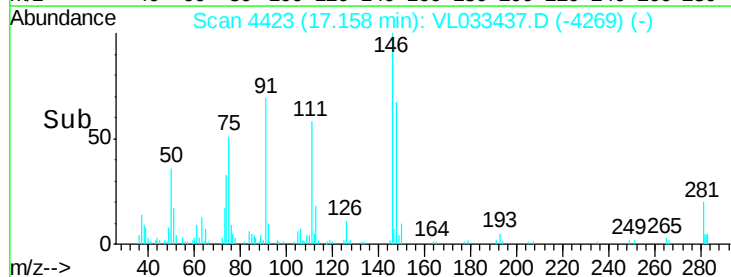
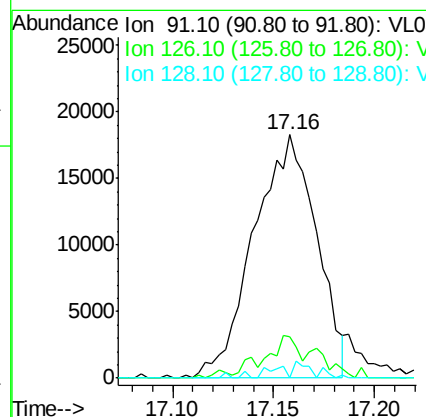
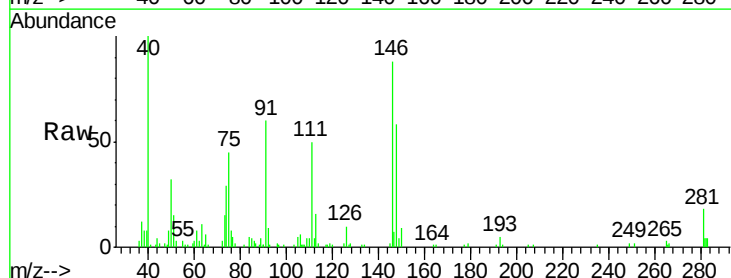
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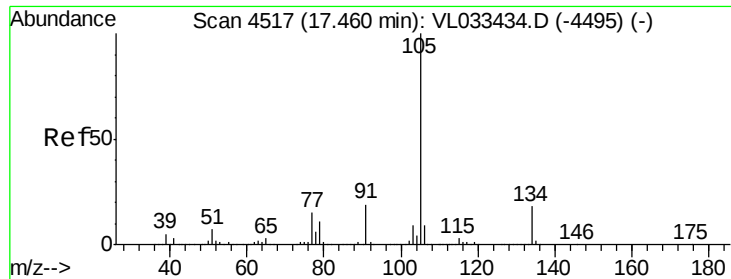
MMDadoda
4/1/2019 1:22:45 AM



#66
Benzyl Chloride
Concen: 0.361 ppbv
RT: 17.16 min Scan# 4423
Delta R.T. -0.01 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	39366		
126	14.8	13.2	19.8	
128	3.7	4.2	6.4#	





#67

sec-Butylbenzene

Concen: 0.439 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 105 Resp: 164098

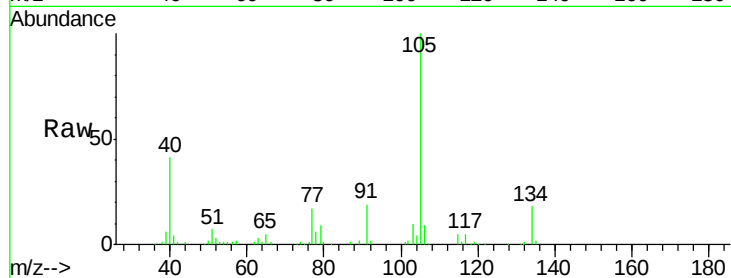
Ion Ratio Lower Upper

105 100

134 18.5 14.2 21.4

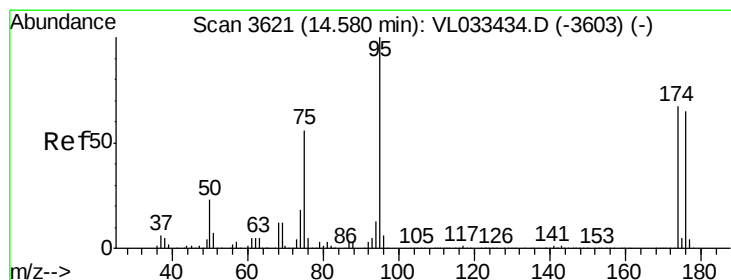
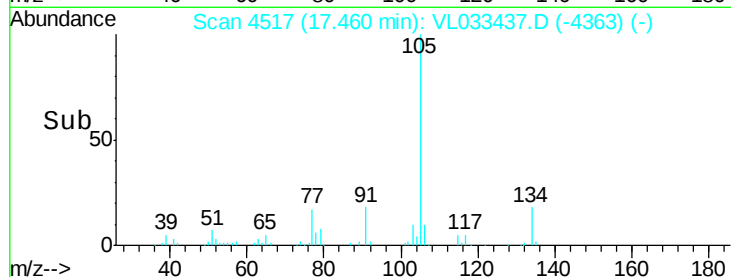
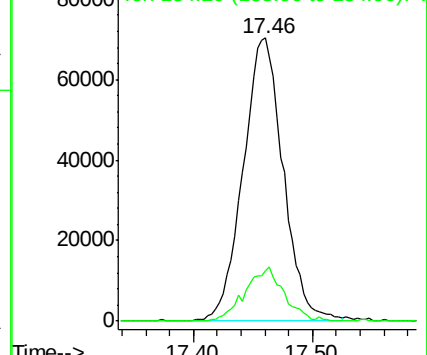
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.765 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

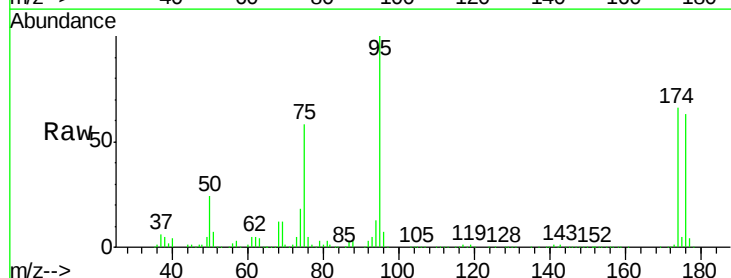
Tgt Ion: 95 Resp: 1416133

Ion Ratio Lower Upper

95 100

174 66.1 51.5 77.3

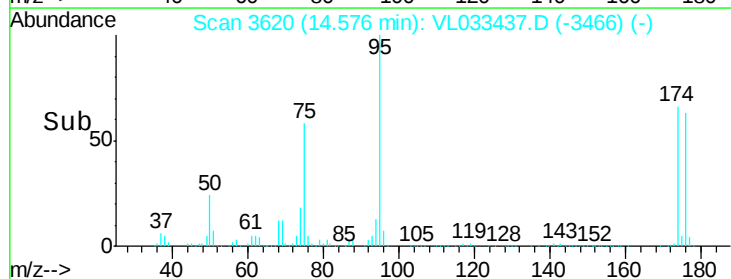
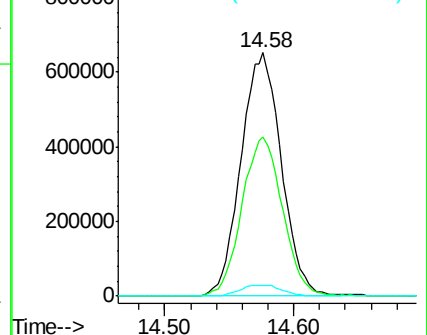
175 4.8 3.8 5.6

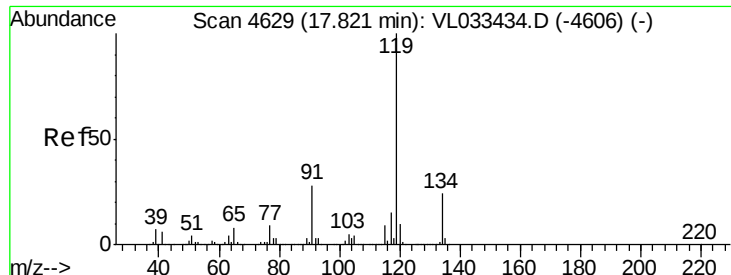


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





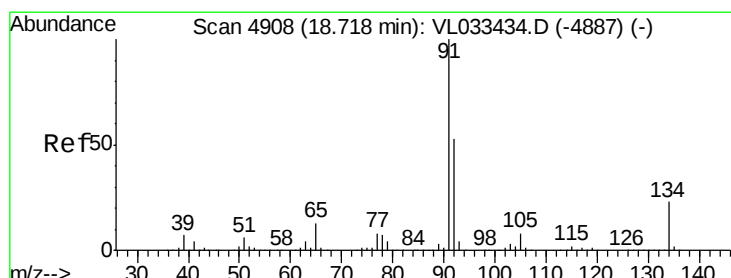
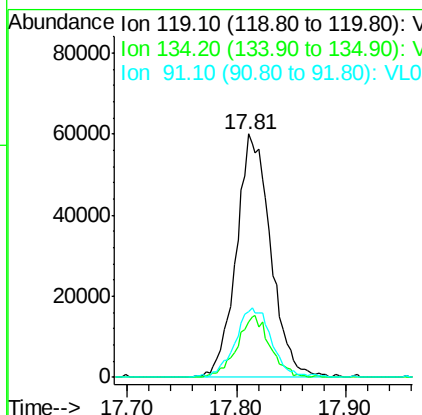
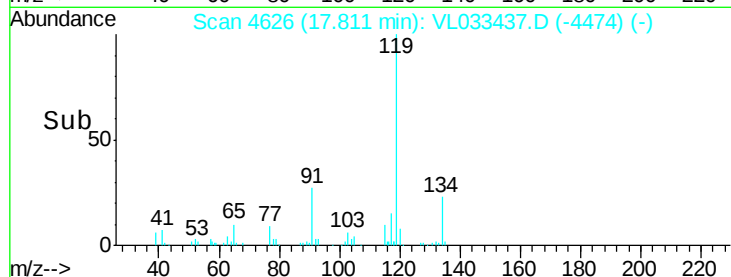
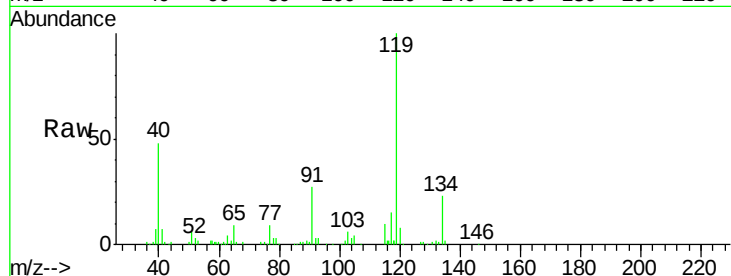
#69
 p-Isopropyltoluene
 Concen: 0.433 ppbv m
 RT: 17.81 min Scan# 4626
 Delta R.T. -0.01 min
 Lab File: VL033437.D
 Acq: 25 Mar 2019 12:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	132173		
134	0.0	19.8	29.6#	
91	0.0	23.4	35.2#	

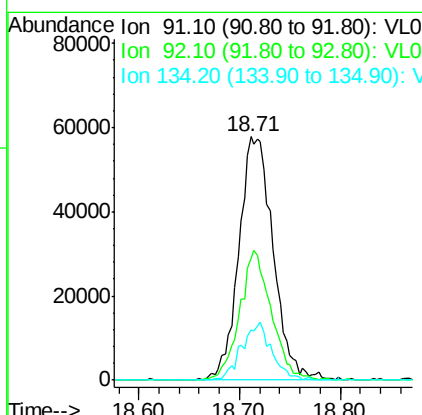
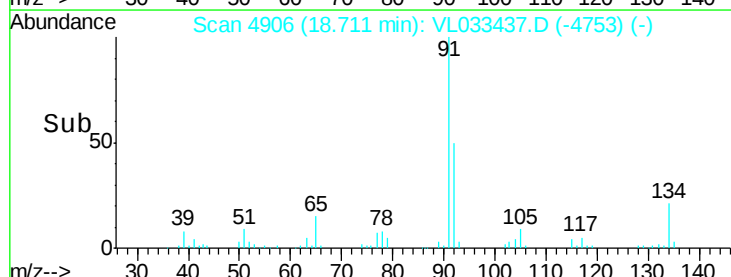
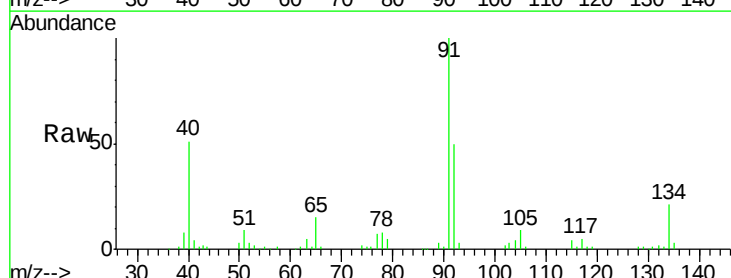
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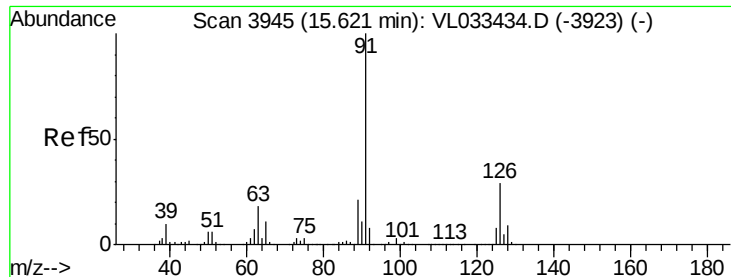
MMDadoda
 4/1/2019 1:22:45 AM



#70
 n-Butylbenzene
 Concen: 0.422 ppbv m
 RT: 18.71 min Scan# 4906
 Delta R.T. -0.01 min
 Lab File: VL033437.D
 Acq: 25 Mar 2019 12:25

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	137176		
92	0.0	42.8	64.2#	
134	0.0	17.4	26.0#	





#71

2-Chlorotoluene

Concen: 0.444 ppbv m

RT: 15.61 min Scan# 3942

Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 101257

Ion Ratio Lower Upper

91 100

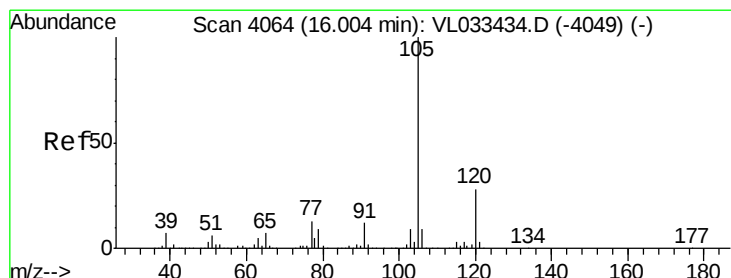
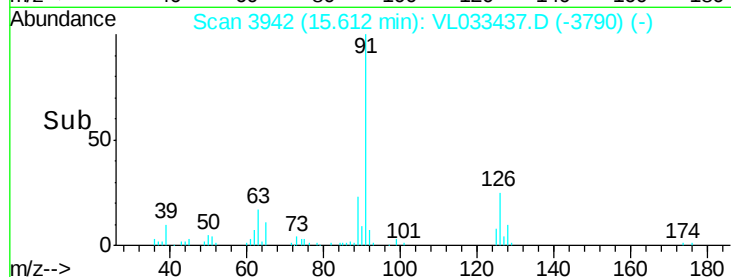
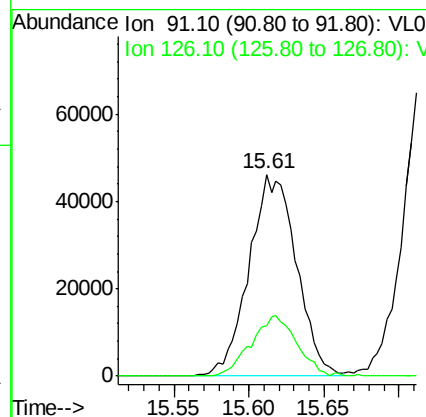
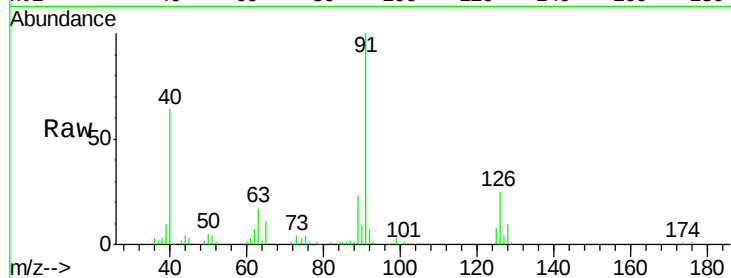
126 0.0 11.6 46.6#

Manual Integrations

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4/1/2019 1:22:45 AM



#72

4-Ethyltoluene

Concen: 0.422 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Tgt Ion: 105 Resp: 100837

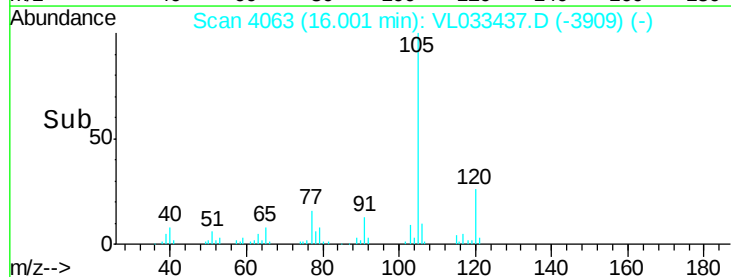
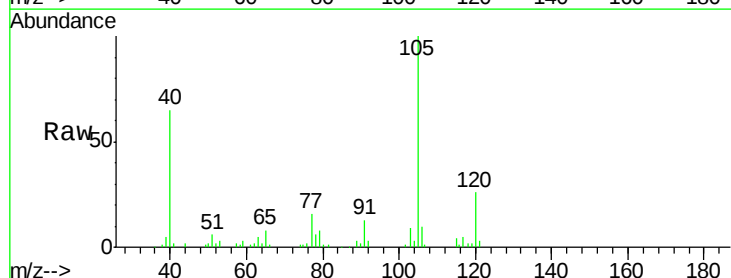
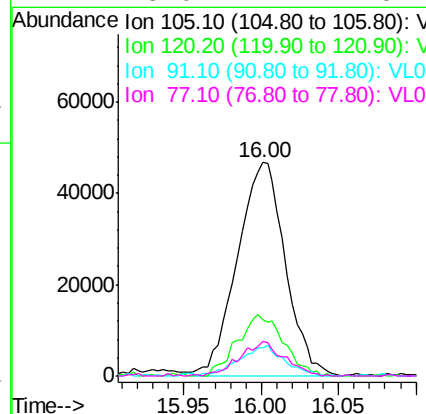
Ion Ratio Lower Upper

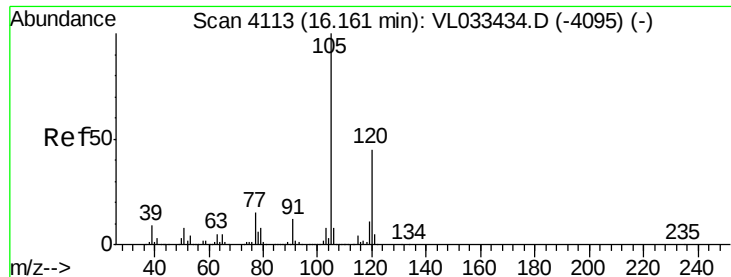
105 100

120 28.4 22.9 34.3

91 14.2 10.2 15.2

77 15.0 11.1 16.7





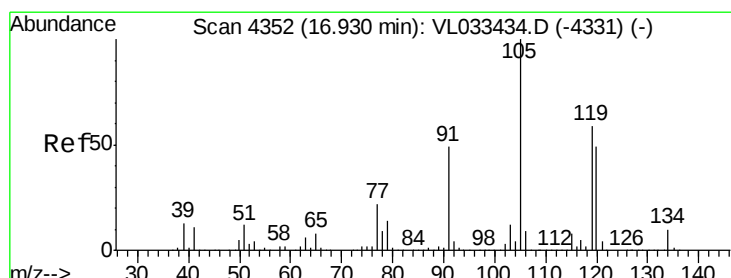
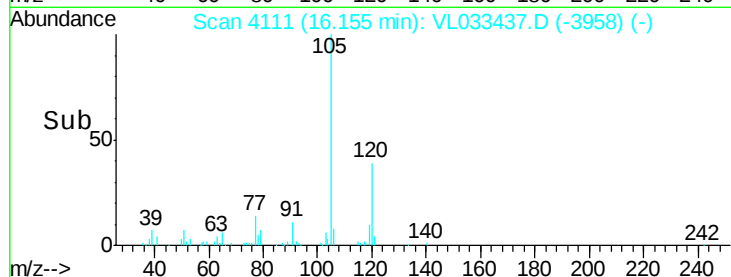
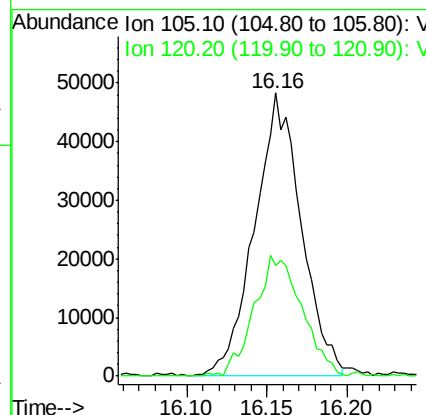
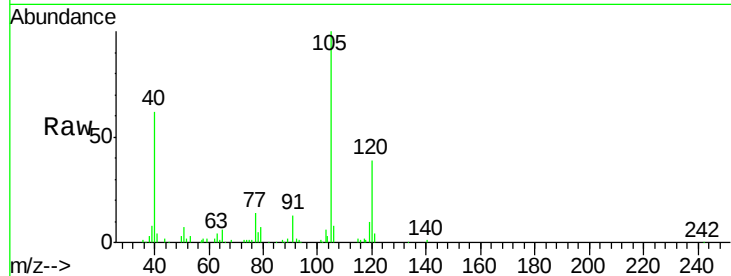
#73
 1,3,5-Trimethylbenzene
 Concen: 0.418 ppbv
 RT: 16.16 min Scan# 4111
 Delta R.T. -0.01 min
 Lab File: VL033437.D
 Acq: 25 Mar 2019 12:25

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC0.5

Tot Ion:105 Resp: 97266
 Ion Ratio Lower Upper
 105 100
 120 42.6 36.2 54.4

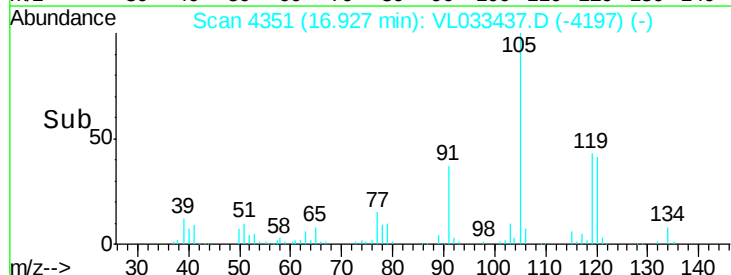
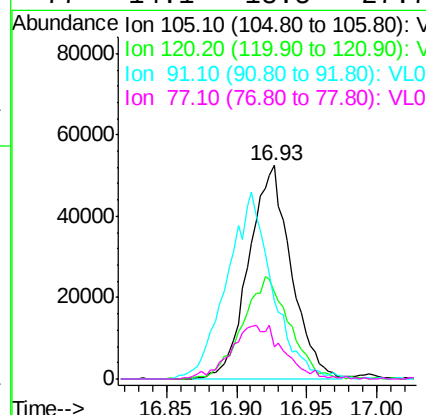
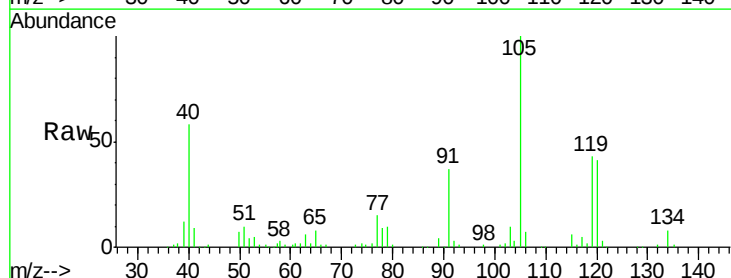
Manual Integrations
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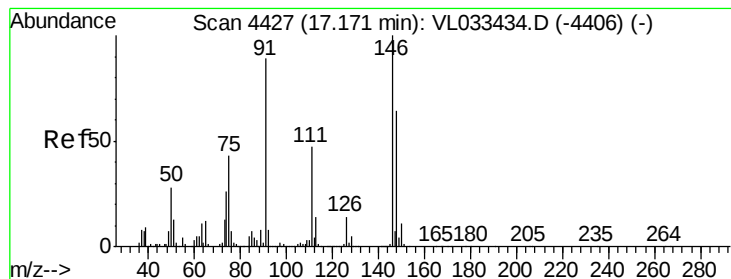
MMDadoda
 4/1/2019 1:22:45 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.447 ppbv
 RT: 16.93 min Scan# 4351
 Delta R.T. -0.01 min
 Lab File: VL033437.D
 Acq: 25 Mar 2019 12:25

Tgt Ion:105 Resp: 110273
 Ion Ratio Lower Upper
 105 100
 120 40.4 37.4 56.2
 91 35.4 41.0 61.4#
 77 14.1 18.5 27.7#





#75

1,3-Dichlorobenzene

Concen: 0.503 ppbv m

RT: 17.16 min Scan# 4424

Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Instrument :

MSVOA_L

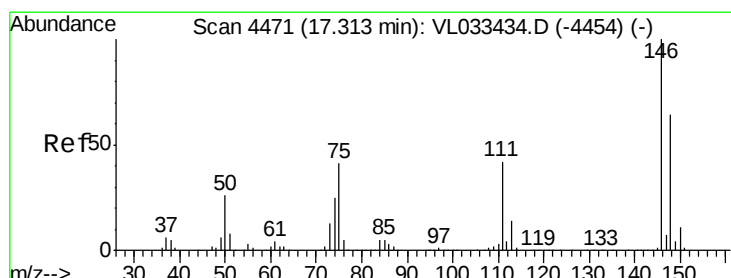
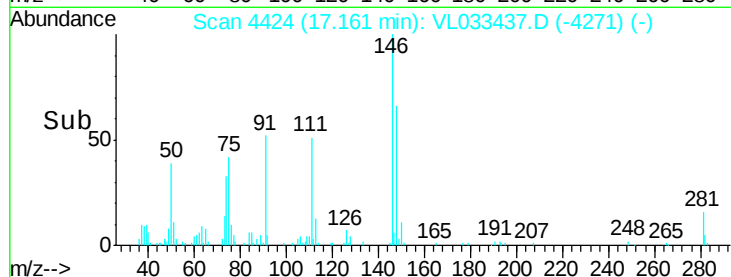
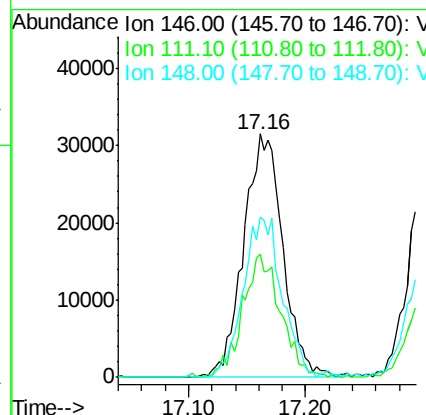
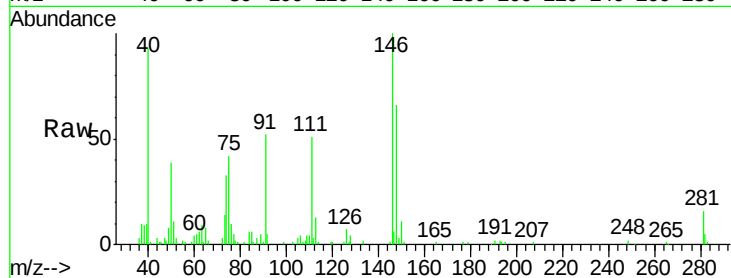
ClientSampleId :

VSTDIC0.5

Tot Ion:	146	Resp:	73091
Ion Ratio	Lower	Upper	
146	100		
111	49.7	22.8	68.3
148	65.7	31.9	95.7

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#76

1,4-Dichlorobenzene

Concen: 0.481 ppbv

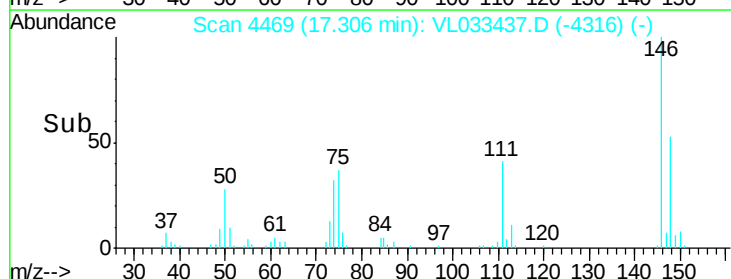
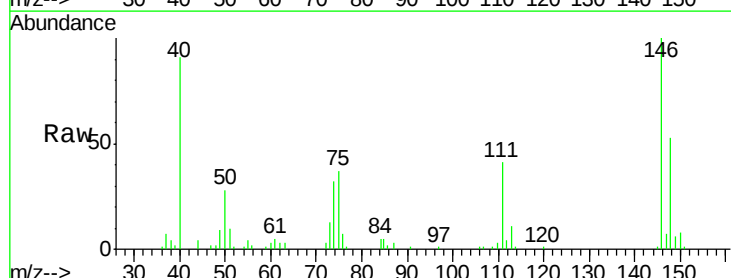
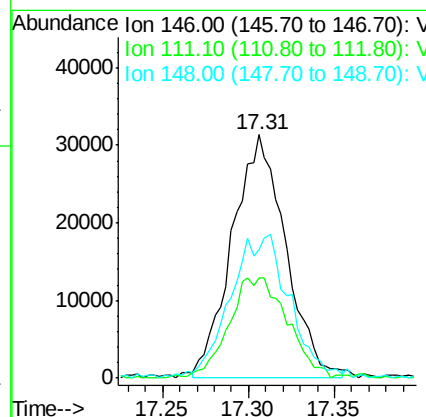
RT: 17.31 min Scan# 4469

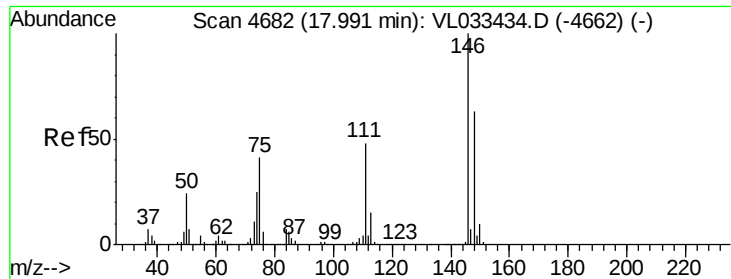
Delta R.T. -0.01 min

Lab File: VL033437.D

Acq: 25 Mar 2019 12:25

Tgt Ion:	146	Resp:	67690
Ion Ratio	Lower	Upper	
146	100		
111	46.3	21.9	65.7
148	66.4	32.1	96.5





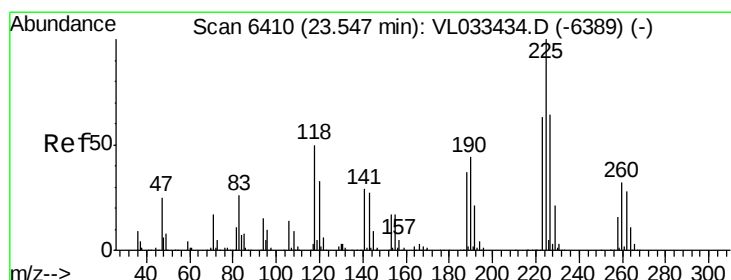
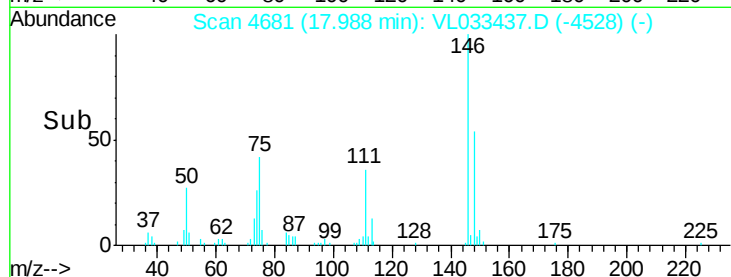
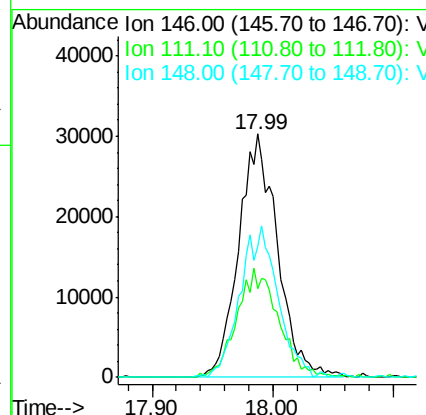
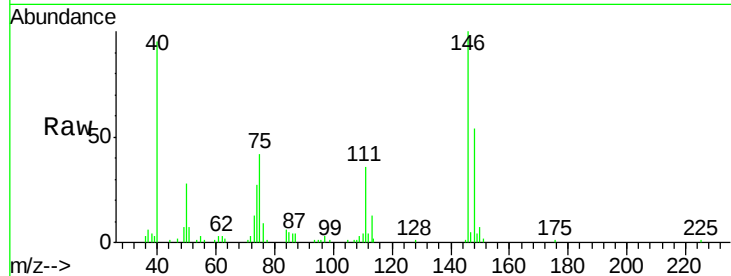
#77
 1,2-Dichlorobenzene
 Concen: 0.491 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. -0.01 min
 Lab File: VL033437.D
 Acq: 25 Mar 2019 12:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.2	23.5	70.6
148	61.1	31.9	95.9

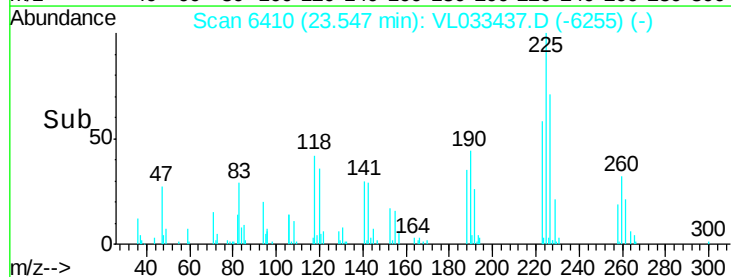
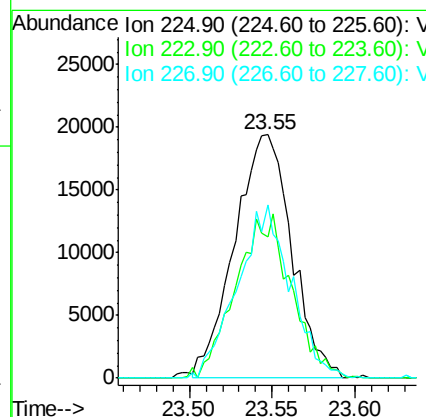
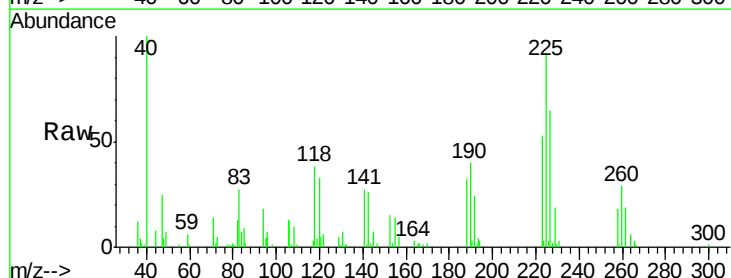
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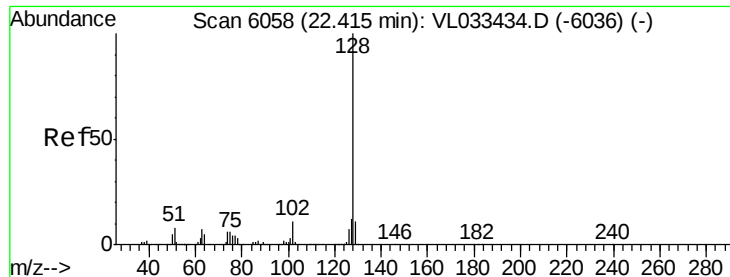
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#78
 Hexachloro-1,3-Butadiene
 Concen: 0.564 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.00 min
 Lab File: VL033437.D
 Acq: 25 Mar 2019 12:25

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.3	50.4	75.6
227	65.8	50.5	75.7





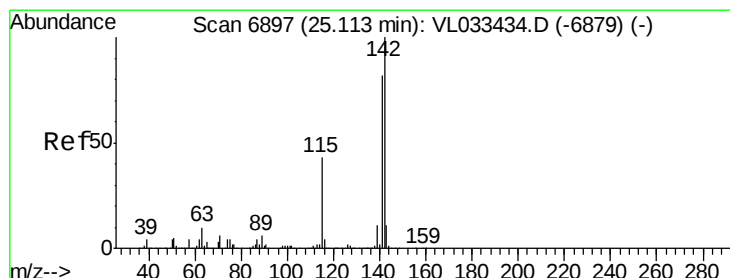
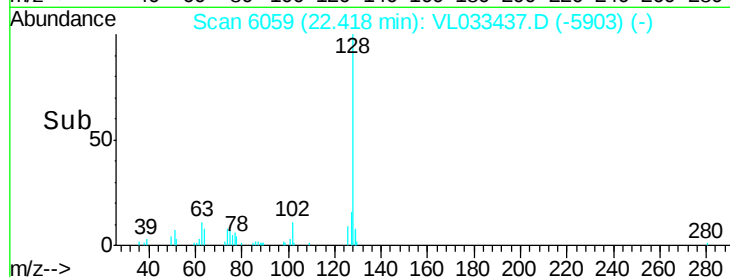
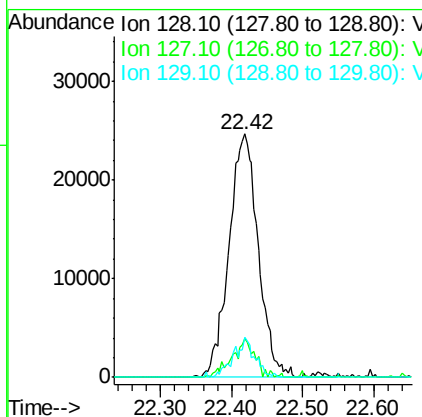
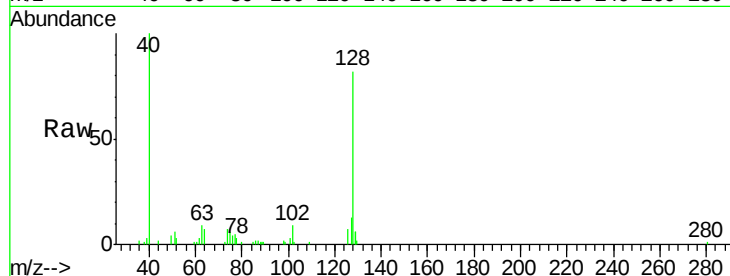
#79
Naphthalene
Concen: 0.299 ppbv m
RT: 22.42 min Scan# 6059
Delta R.T. 0.00 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.7	10.1	15.1#
129	7.5	8.2	12.2#

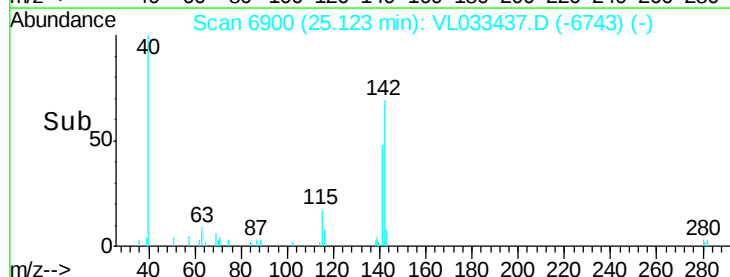
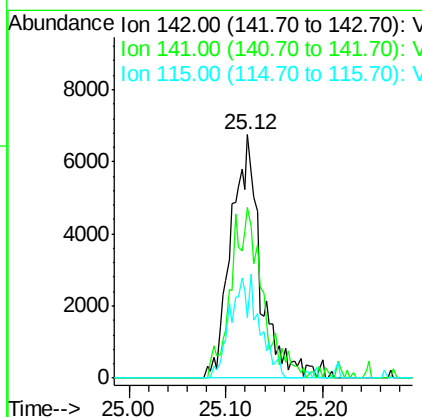
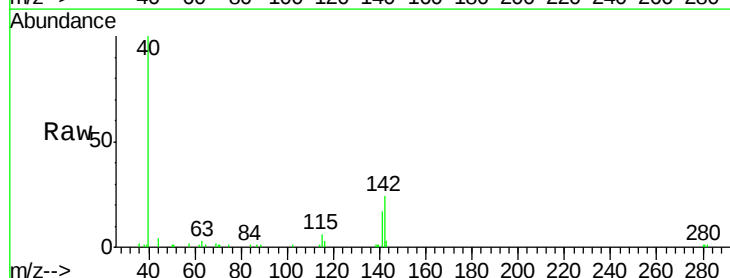
Manual Integrations
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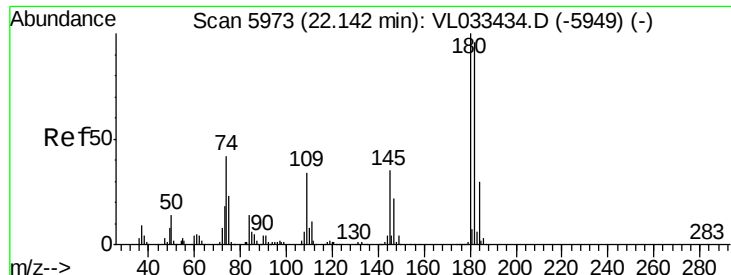
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4/1/2019 1:22:45 AM



#80
Naphthalene, 2-methyl-
Concen: 0.128 ppbv
RT: 25.12 min Scan# 6900
Delta R.T. 0.00 min
Lab File: VL033437.D
Acq: 25 Mar 2019 12:25

Tgt Ion	Ratio	Lower	Upper
142	100		
141	73.7	67.1	100.7
115	40.2	33.8	50.6





#81
 1,2,4-Trichlorobenzene
 Concen: 0.385 ppbv
 RT: 22.14 min Scan# 5971
 Delta R.T. -0.01 min
 Lab File: VL033437.D
 Acq: 25 Mar 2019 12:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.6	76.1	114.1
184	31.4	24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:22:45 AM

