

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071119\
 Data File : VL034032.D
 Acq On : 12 Jul 2019 8:51
 Operator : SY/AP
 Sample : VL0711ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

Manual Integrations
 APPROVED

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 7/15/2019 2:54:18 PM

Quant Time: Jul 12 15:48:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 0
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1079031	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.25	114	2808681	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.20	117	2911912m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.53	95	2190191	8.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	88.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	1716189	7.707 ppbv	99
3) Chlorodifluoromethane	2.99	51	1279404	9.602 ppbv	95
4) Chloromethane	3.15	50	686383	8.959 ppbv	96
5) Vinyl Chloride	3.27	62	743558	8.631 ppbv	99
6) Bromomethane	3.49	94	486151	9.569 ppbv	97
7) Chloroethane	3.58	64	288864	9.381 ppbv	98
8) Dichlorotetrafluoroethane	3.20	85	1834474	8.450 ppbv	99
9) Propene	3.02	41	517781	10.563 ppbv	96
10) Heptane	8.21	43	1467019	11.953 ppbv	99
11) Trichlorofluoromethane	3.98	101	1941669	7.755 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.52	101	1559351	8.798 ppbv	100
13) Ethanol	3.63	45	181895	11.945 ppbv	93
14) Bromoethene	3.76	108	611157	9.234 ppbv	98
15) Acetone	3.88	43	1439875	7.937 ppbv	97
16) 1,3-Butadiene	3.34	39	639076	9.976 ppbv	98
17) tert-Butyl alcohol	4.33	59	1622969	11.221 ppbv	100
18) 1,1-Dichloroethene	4.32	96	732575	9.281 ppbv	99
19) Isopropyl Alcohol	4.00	45	1171537	9.620 ppbv	# 99
20) Methylene Chloride	4.38	84	625915	7.911 ppbv	95
21) Allyl Chloride	4.45	41	1106668	9.783 ppbv	97
22) trans-1,2-Dichloroethene	4.93	96	665206	8.844 ppbv	92
23) Vinyl Acetate	5.12	43	1984907	10.962 ppbv	99
24) 1,1-Dichloroethane	5.06	63	1568799	9.776 ppbv	98
25) Ethyl Acetate	5.73	43	2659943	10.720 ppbv	100
26) Hexane	5.74	57	1264369	11.135 ppbv	95
27) Carbon Disulfide	4.59	76	1831259	9.487 ppbv	99
28) Methyl tert-Butyl Ether	5.08	73	2127048	11.061 ppbv	98
29) Chloroform	5.81	83	1994176	9.345 ppbv	96
30) Cyclohexane	7.21	84	1054565	12.026 ppbv	98
31) cis-1,2-Dichloroethene	5.61	61	1257719	11.465 ppbv	98
32) 1,1,1-Trichloroethane	6.58	97	2029011	9.381 ppbv	99
34) 2-Butanone	5.29	43	1623949	10.925 ppbv	100
35) Carbon Tetrachloride	7.09	117	2085841	9.381 ppbv	99
36) Benzene	6.97	78	2540652	11.560 ppbv	98
37) 1,2-Dichloroethane	6.38	62	1523389	9.409 ppbv	98
38) Trichloroethene	7.92	130	1052564	10.764 ppbv	99
39) 1,2-Dichloropropane	7.70	63	948271	11.604 ppbv	99
40) 1,4-Dioxane	7.91	88	381818	10.120 ppbv	# 92
41) Tetrahydrofuran	6.11	42	910545	12.490 ppbv	98
42) Bromodichloromethane	7.88	83	2272528	10.461 ppbv	99
43) Methyl Methacrylate	8.10	69	1034254	12.403 ppbv	99

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 Misc : 400ml/MSVOA L
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Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

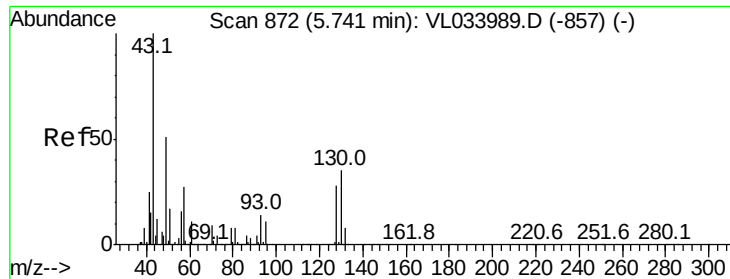
Manual Integrations
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Quant Time: Jul 12 15:48:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 0
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.95	57	4343308	11.449	ppbv	99
45) t-1,3-Dichloropropene	9.37	75	1257315	11.531	ppbv	99
46) cis-1,3-Dichloropropene	8.80	75	1487167	11.777	ppbv	98
47) 1,1,2-Trichloroethane	9.57	97	1079096	10.502	ppbv	98
48) Dibromochloromethane	10.41	129	1942569	9.908	ppbv	99
49) Bromoform	13.16	173	1708390	10.200	ppbv	99
50) 4-Methyl-2-Pentanone	8.83	43	2534473	11.490	ppbv	99
51) 2-Hexanone	10.23	43	2055278	11.554	ppbv #	99
52) Tetrachloroethene	11.33	164	990263	10.469	ppbv	96
53) Toluene	9.90	91	3066483	12.189	ppbv	99
54) 1,2-Dibromoethane	10.71	107	1670372	11.016	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.24	131	1315228	10.106	ppbv	99
57) Chlorobenzene	12.26	112	2291148	9.883	ppbv	99
58) Ethyl Benzene	12.82	91	4067019	11.614	ppbv	99
59) m/p-Xylene	13.11	91	6721102m	21.198	ppbv	
60) o-Xylene	13.80	91	3334643	10.513	ppbv	99
61) Styrene	13.64	104	2407889	11.471	ppbv	99
62) Isopropylbenzene	14.79	105	4565913	9.364	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.79	83	2339609	9.529	ppbv	99
64) n-propylbenzene	15.68	120	1162728	9.196	ppbv	98
65) tert-Butylbenzene	16.87	119	4096821	9.880	ppbv	99
66) Benzyl Chloride	17.11	91	1682957	7.933	ppbv	99
67) sec-Butylbenzene	17.42	105	5808261	9.980	ppbv	99
69) p-Isopropyltoluene	17.77	119	4773703	9.948	ppbv	100
70) n-Butylbenzene	18.67	91	4991769	9.902	ppbv	99
71) 2-Chlorotoluene	15.57	91	3464116	9.708	ppbv	100
72) 4-Ethyltoluene	15.96	105	3900338	9.575	ppbv	98
73) 1,3,5-Trimethylbenzene	16.12	105	3750714	9.896	ppbv	99
74) 1,2,4-Trimethylbenzene	16.88	105	3877749	9.238	ppbv	98
75) 1,3-Dichlorobenzene	17.12	146	2236137	8.386	ppbv	100
76) 1,4-Dichlorobenzene	17.26	146	2192646	8.731	ppbv	99
77) 1,2-Dichlorobenzene	17.94	146	2198136	8.902	ppbv	99
78) Hexachloro-1,3-Butadiene	23.50	225	1521299	7.241	ppbv	99
79) Naphthalene	22.36	128	3173426	8.992	ppbv	98
80) Naphthalene, 2-methyl-	25.08	142	593456	4.621	ppbv	97
81) 1,2,4-Trichlorobenzene	22.08	180	1859316	8.203	ppbv	100

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



#1

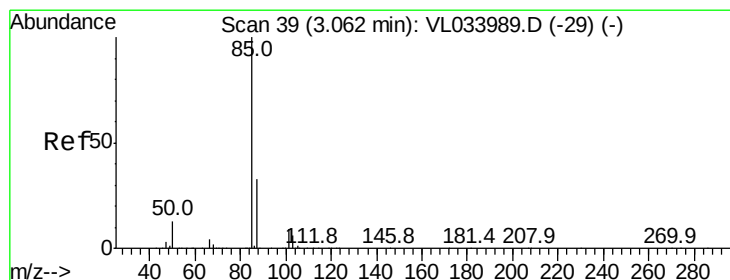
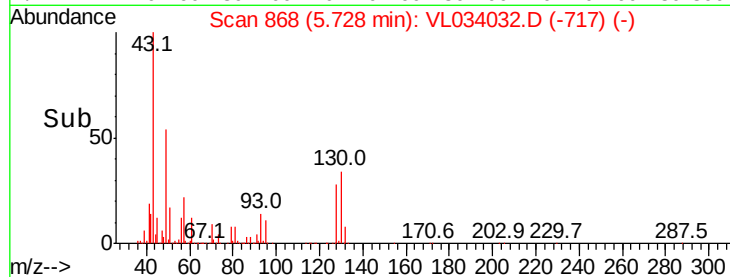
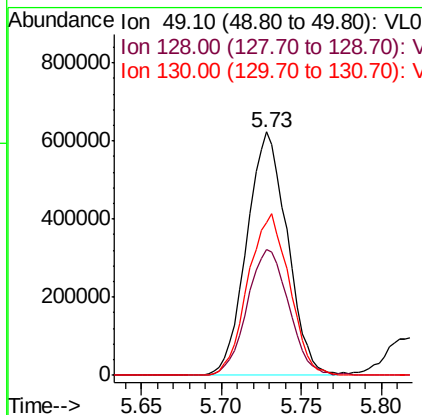
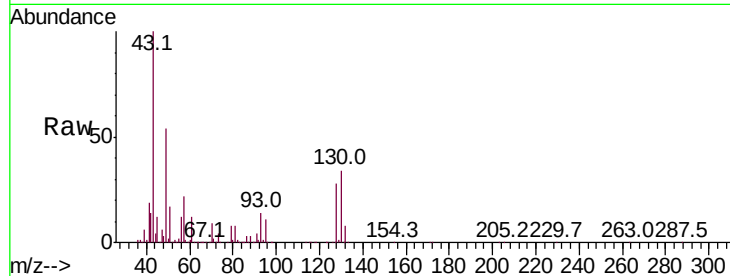
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.73 min Scan# 868
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

Tot Ion	Ratio	Lower	Upper
49	100		
128	53.3	27.9	83.6
130	68.2	35.8	107.4

Manual Integrations
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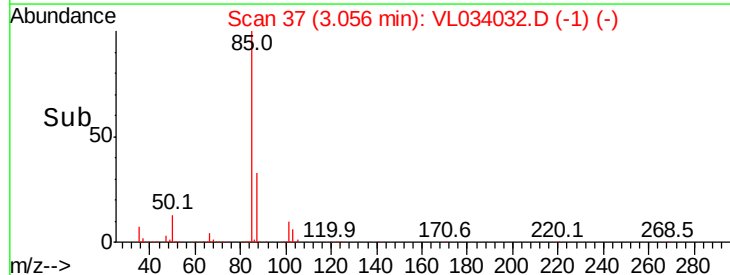
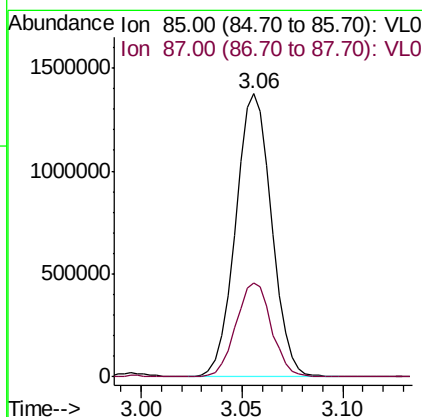
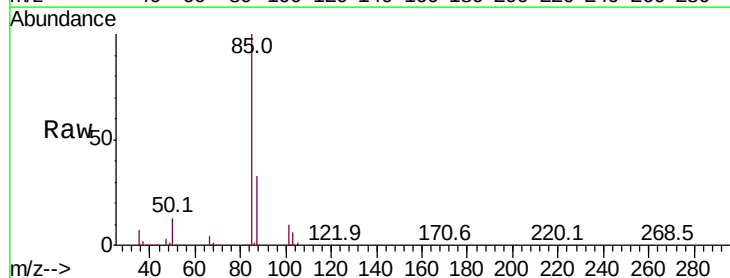
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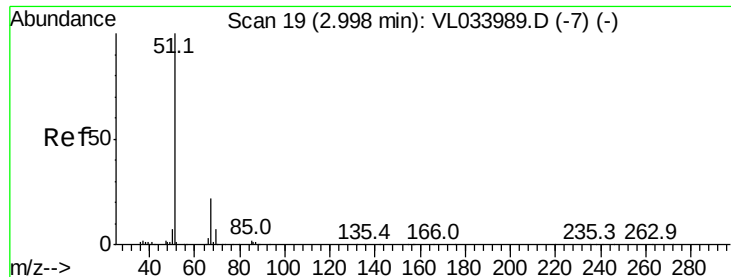


#2

Dichlorodifluoromethane
 Concen: 7.707 ppbv
 RT: 3.06 min Scan# 37
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.1	26.0	39.0





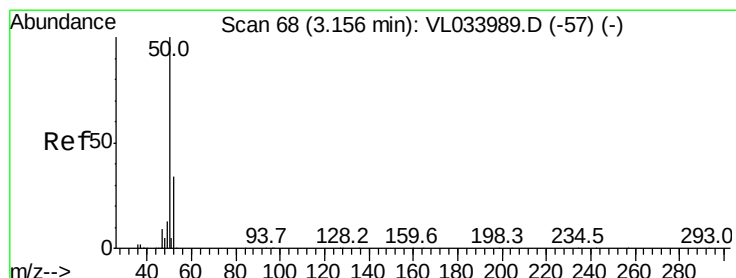
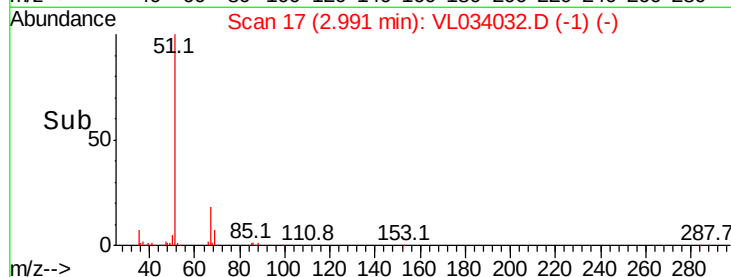
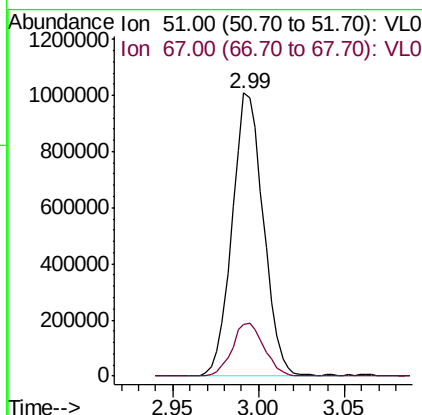
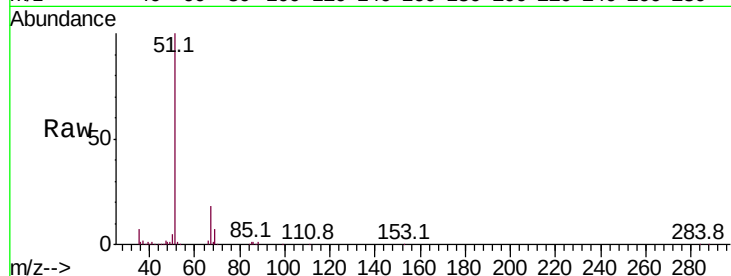
#3
Chlorodifluoromethane
Concen: 9.602 ppbv
RT: 2.99 min Scan# 17
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

Tot Ion: 51 Resp: 1279404
Ion Ratio Lower Upper
51 100
67 19.1 17.3 25.9

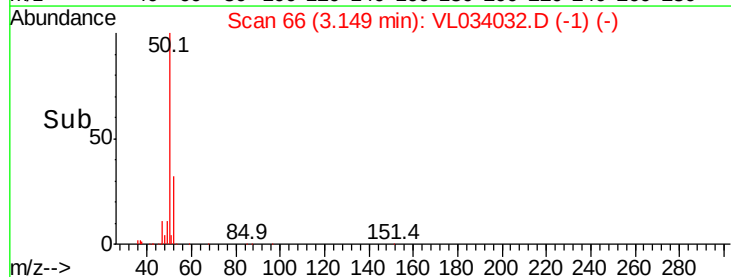
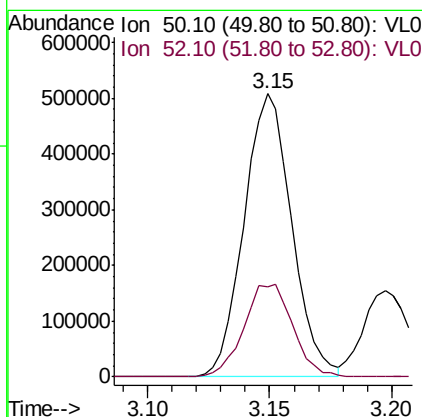
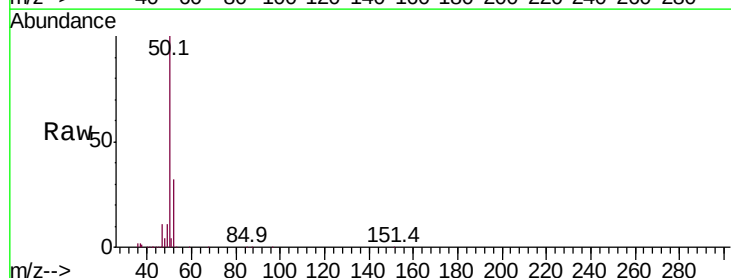
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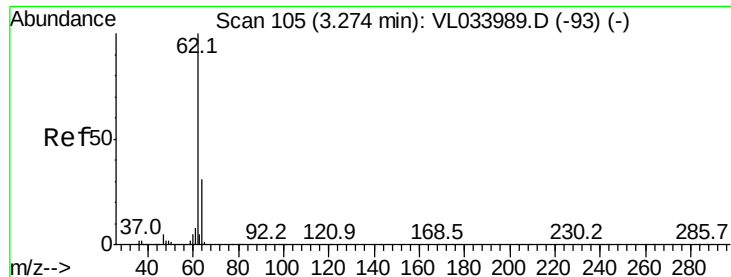
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#4
Chloromethane
Concen: 8.959 ppbv
RT: 3.15 min Scan# 66
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Tgt Ion: 50 Resp: 686383
Ion Ratio Lower Upper
50 100
52 31.7 27.4 41.0





#5

Vinyl Chloride

Concen: 8.631 ppbv

RT: 3.27 min Scan# 103

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

Tot Ion: 62 Resp: 743558

Ion Ratio Lower Upper

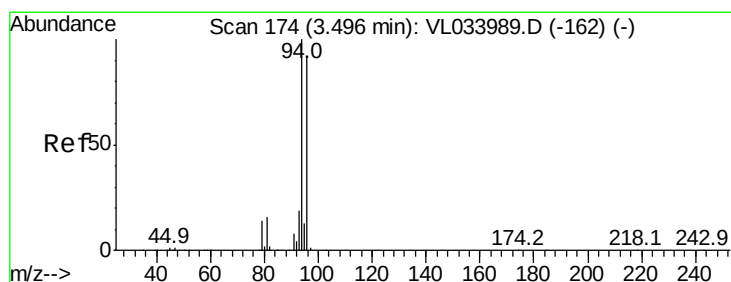
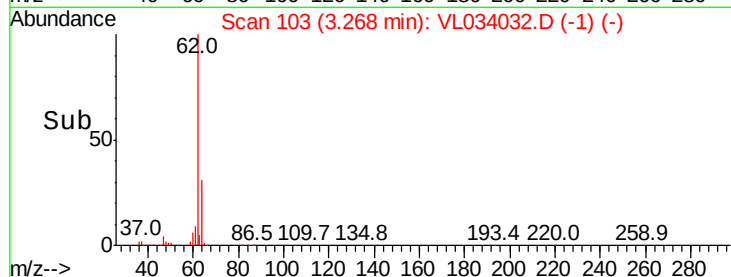
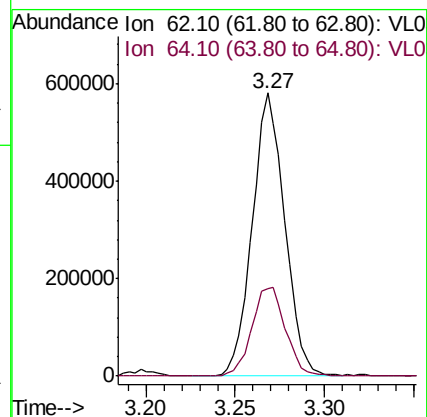
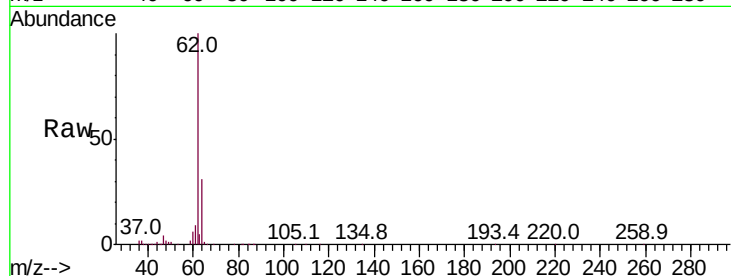
62 100

64 30.8 24.4 36.6

Manual Integrations
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#6

Bromomethane

Concen: 9.569 ppbv

RT: 3.49 min Scan# 172

Delta R.T. -0.01 min

Lab File: VL034032.D

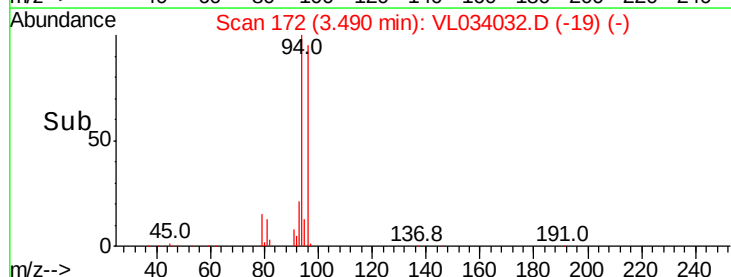
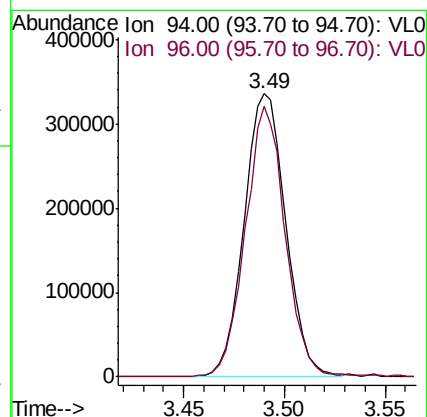
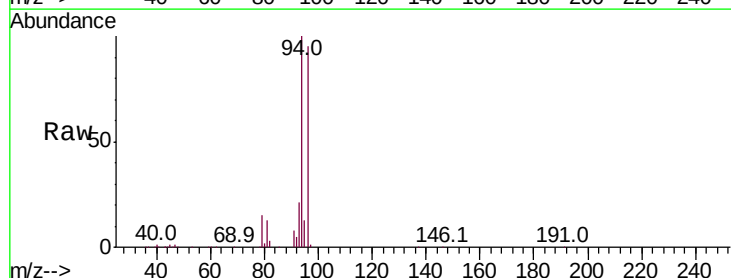
Acq: 12 Jul 2019 8:51

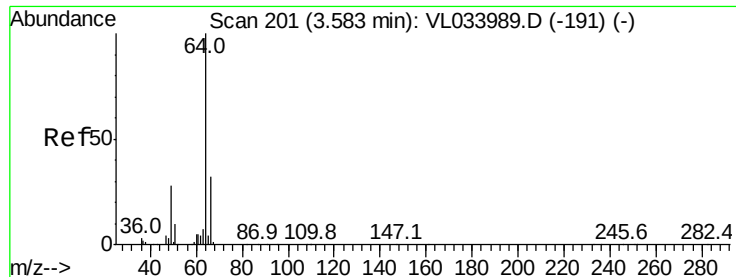
Tgt Ion: 94 Resp: 486151

Ion Ratio Lower Upper

94 100

96 95.5 73.8 110.8





#7

Chloroethane

Concen: 9.381 ppbv

RT: 3.58 min Scan# 199

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

Tot Ion: 64 Resp: 288864

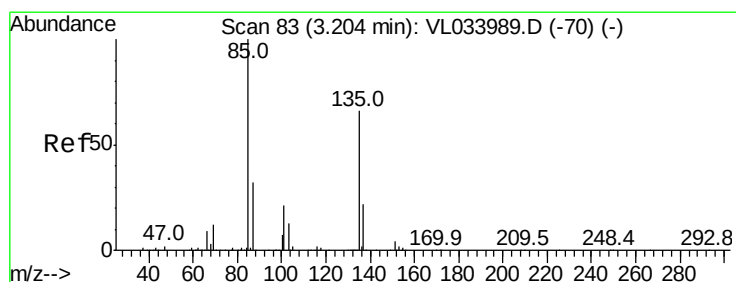
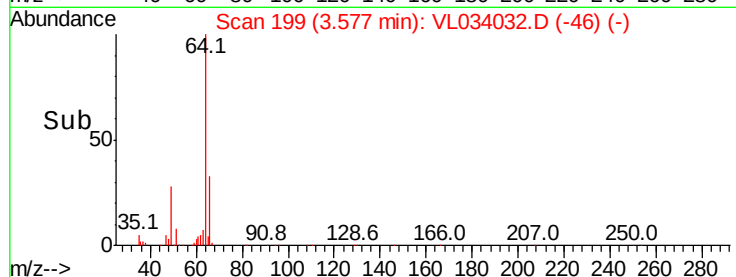
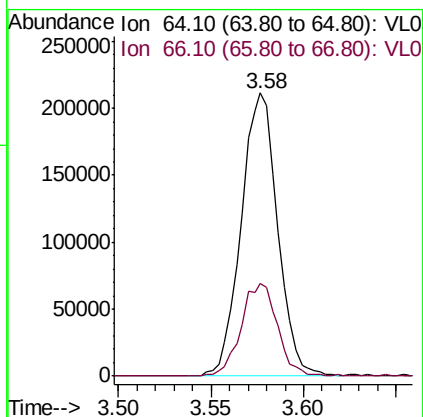
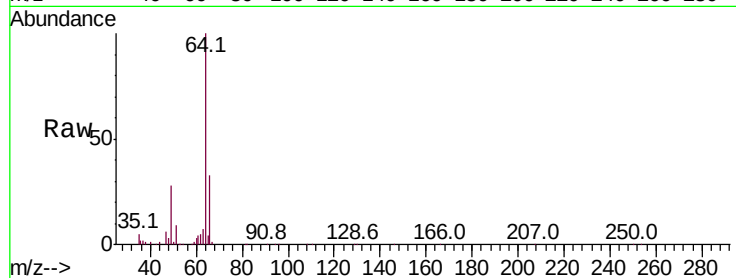
Ion Ratio Lower Upper

64 100

66 32.8 25.3 37.9

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#8

Dichlorotetrafluoroethane

Concen: 8.450 ppbv

RT: 3.20 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL034032.D

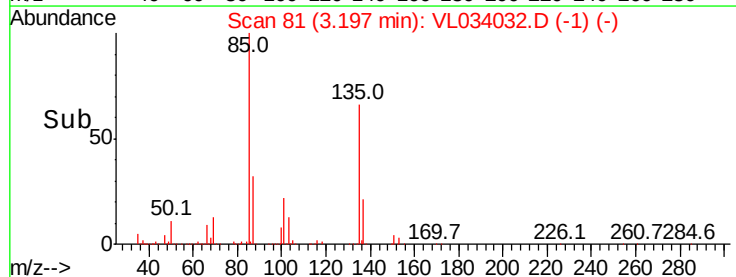
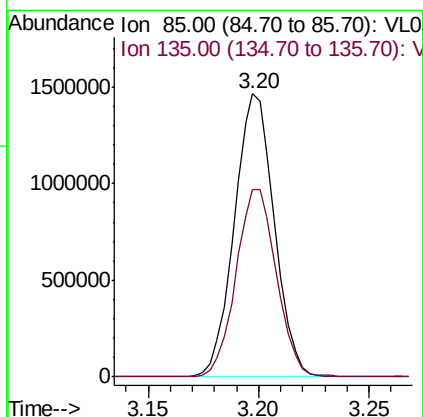
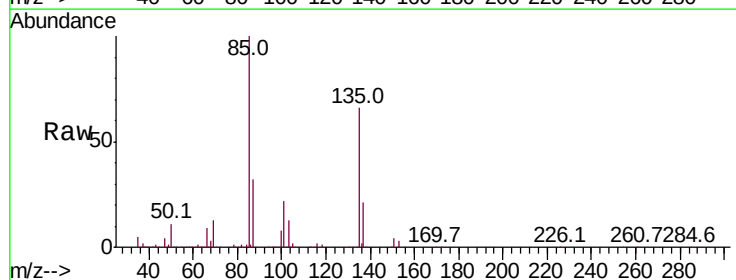
Acq: 12 Jul 2019 8:51

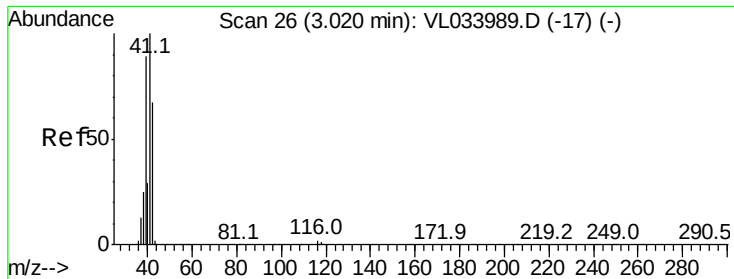
Tgt Ion: 85 Resp: 1834474

Ion Ratio Lower Upper

85 100

135 67.6 55.0 82.4





#9

Propene

Concen: 10.563 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

Tot Ion: 41 Resp: 517781

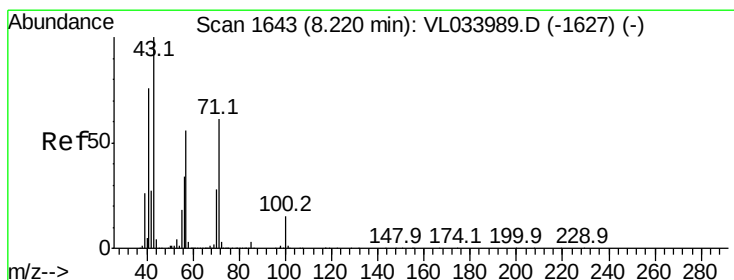
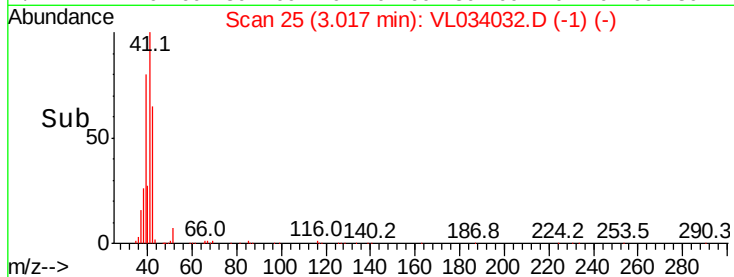
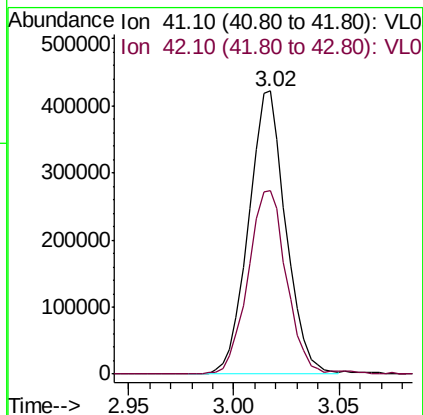
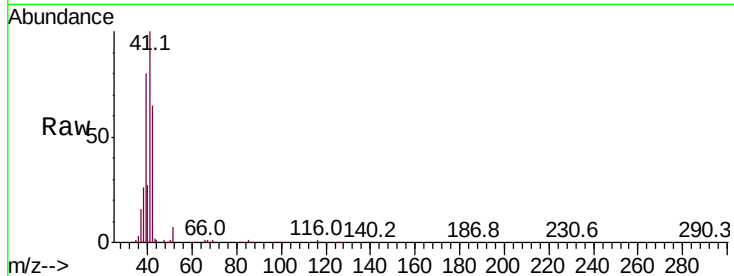
Ion Ratio Lower Upper

41 100

42 67.7 57.1 85.7

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#10

Heptane

Concen: 11.953 ppbv

RT: 8.21 min Scan# 1639

Delta R.T. -0.01 min

Lab File: VL034032.D

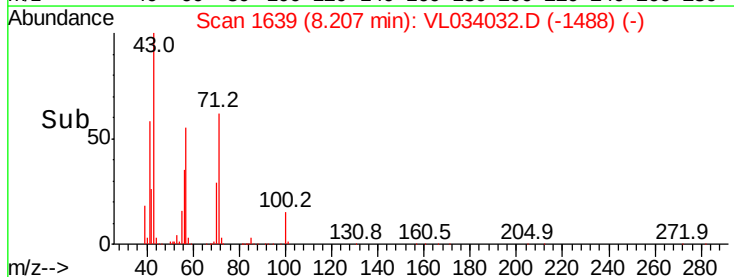
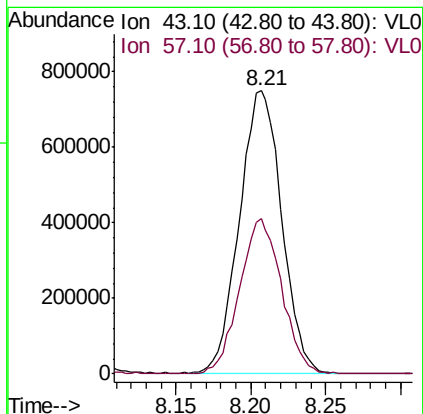
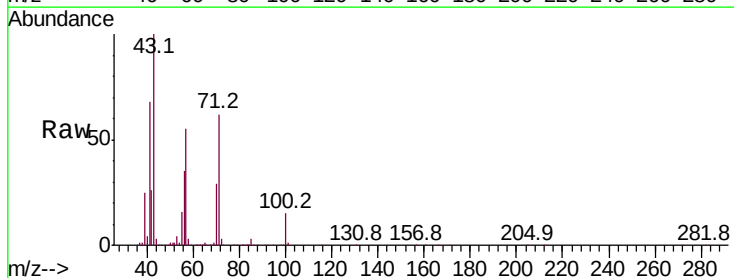
Acq: 12 Jul 2019 8:51

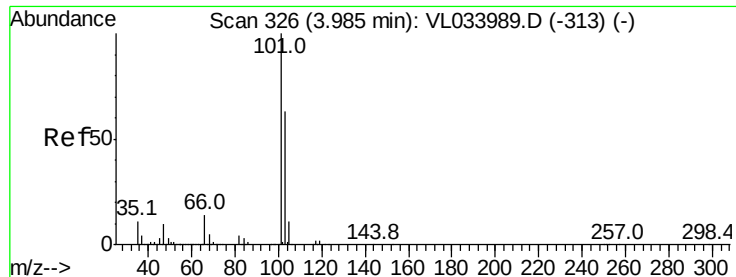
Tgt Ion: 43 Resp: 1467019

Ion Ratio Lower Upper

43 100

57 54.9 44.6 66.8





#11

Trichlorofluoromethane

Concen: 7.755 ppbv

RT: 3.98 min Scan# 323

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

Tot Ion:101 Resp: 1941669

Ion Ratio Lower Upper

101 100

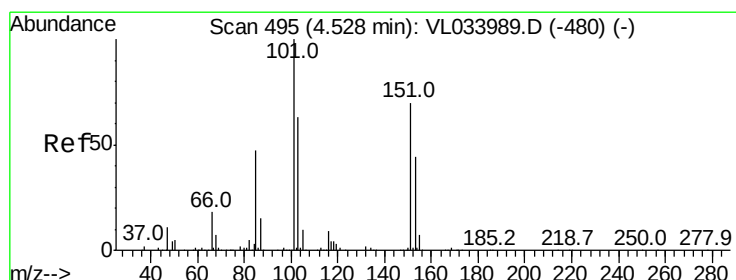
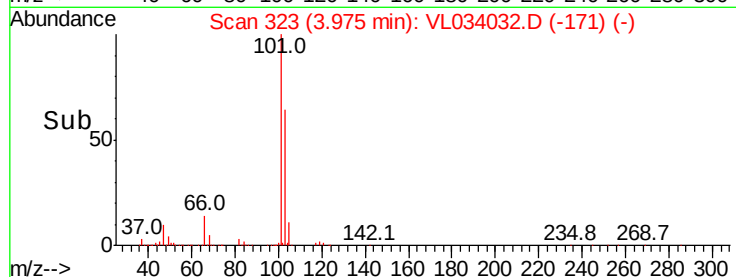
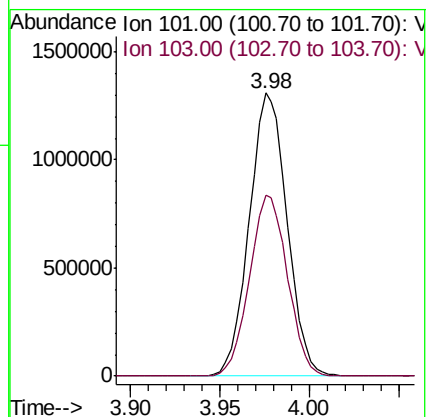
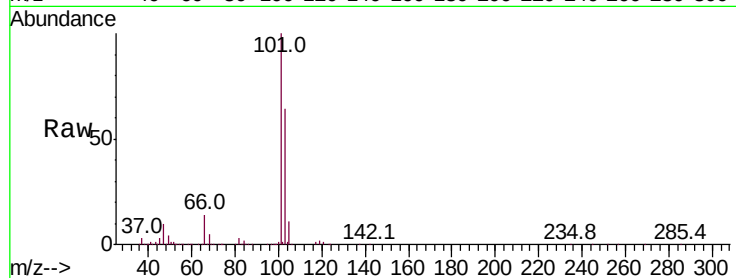
103 63.8 50.8 76.2

Manual Integrations

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.798 ppbv

RT: 4.52 min Scan# 493

Delta R.T. -0.01 min

Lab File: VL034032.D

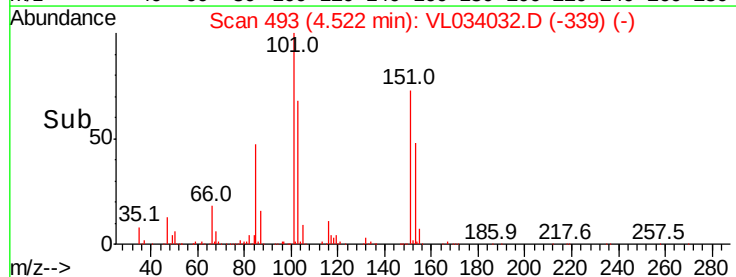
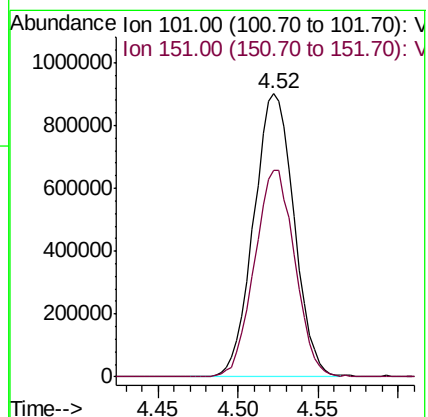
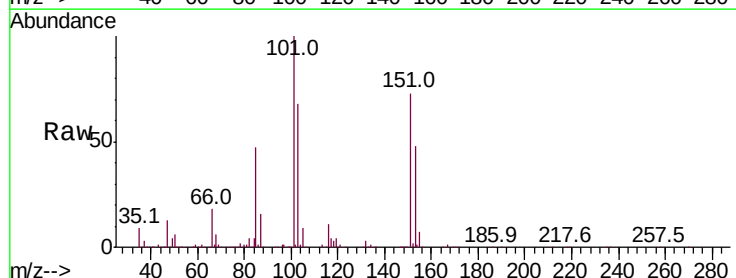
Acq: 12 Jul 2019 8:51

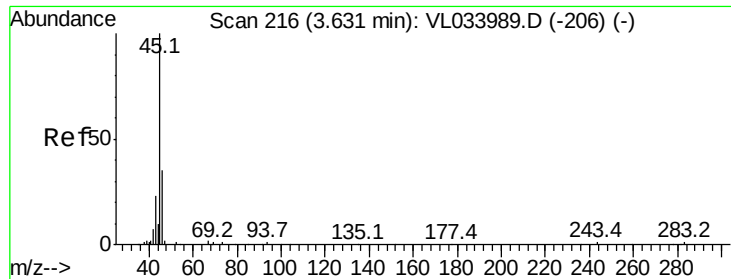
Tgt Ion:101 Resp: 1559351

Ion Ratio Lower Upper

101 100

151 73.5 59.0 88.4





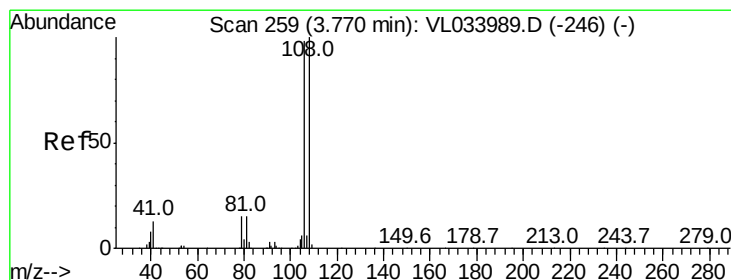
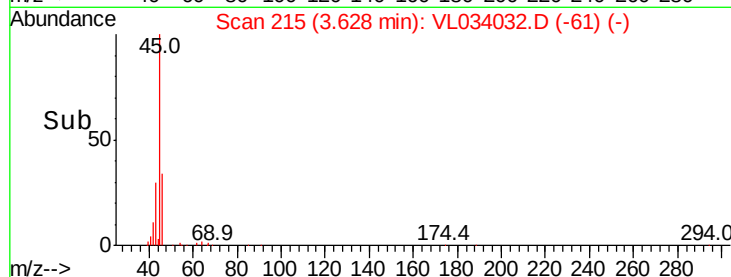
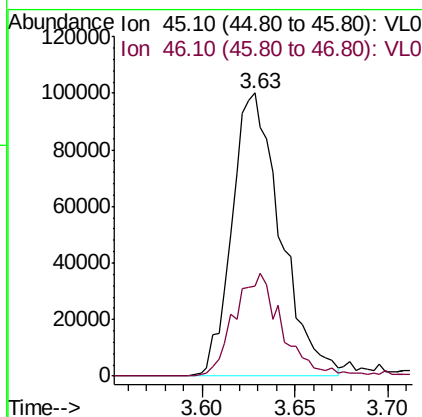
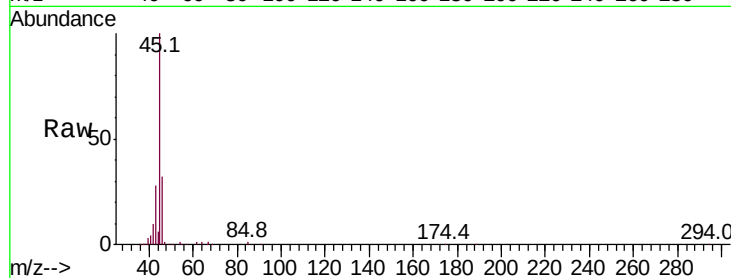
#13
Ethanol
Concen: 11.945 ppbv
RT: 3.63 min Scan# 215
Delta R.T. -0.00 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

Tot Ion	Ratio	Lower	Upper
45	100		
46	35.9	16.2	64.6

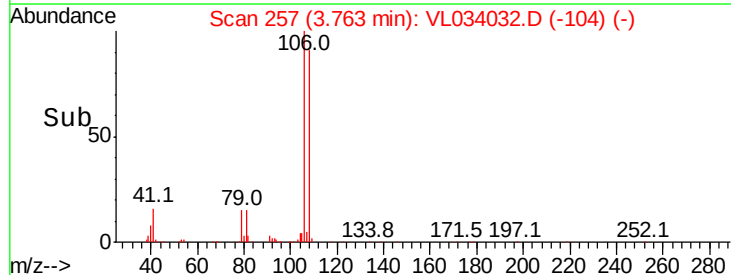
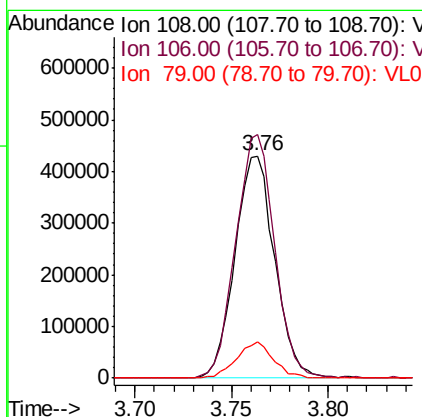
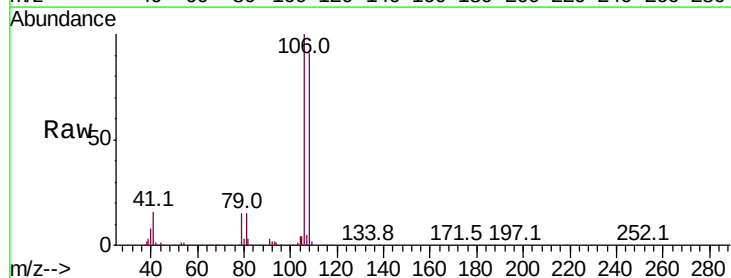
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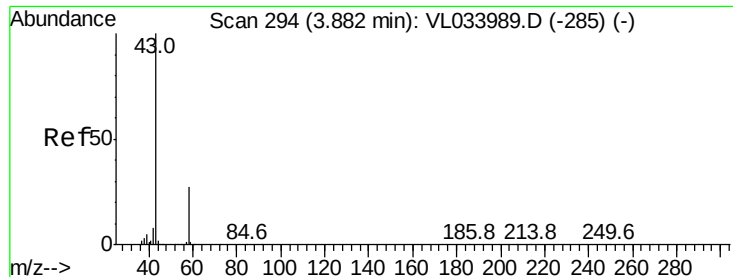
MMDadoda
7/15/2019 2:54:18 PM



#14
Bromoethene
Concen: 9.234 ppbv
RT: 3.76 min Scan# 257
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Tgt Ion	Ratio	Lower	Upper
108	100		
106	108.6	85.6	128.4
79	15.5	14.0	21.0





#15

Acetone

Concen: 7.937 ppbv

RT: 3.88 min Scan# 292

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

Tot Ion: 43 Resp: 1439875

Ion Ratio Lower Upper

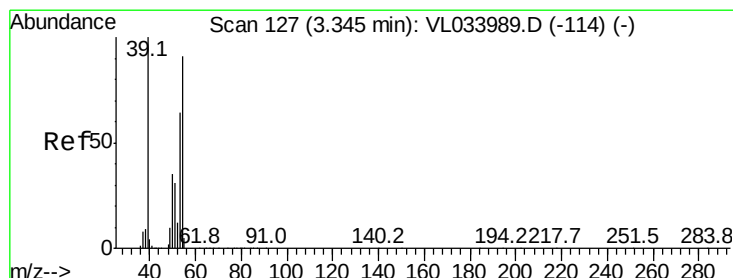
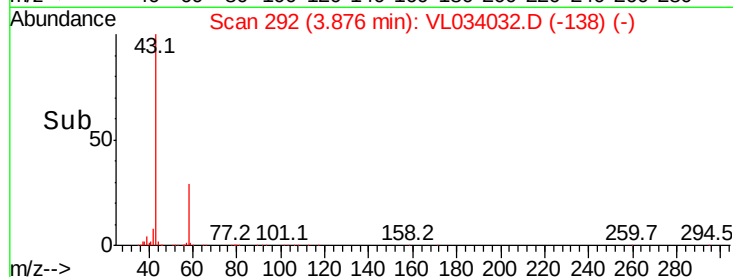
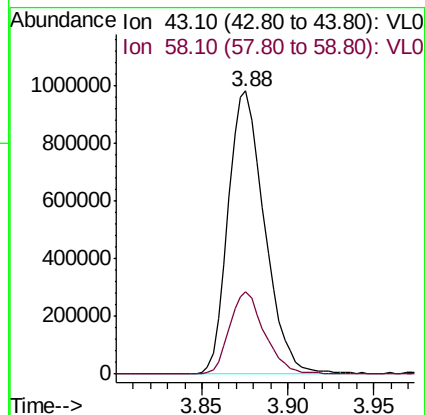
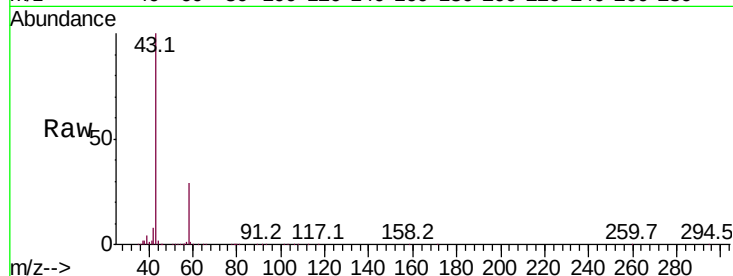
43 100

58 28.2 21.4 32.0

Manual Integrations
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#16

1,3-Butadiene

Concen: 9.976 ppbv

RT: 3.34 min Scan# 126

Delta R.T. -0.00 min

Lab File: VL034032.D

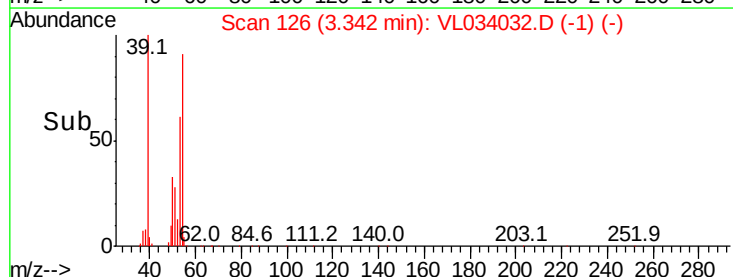
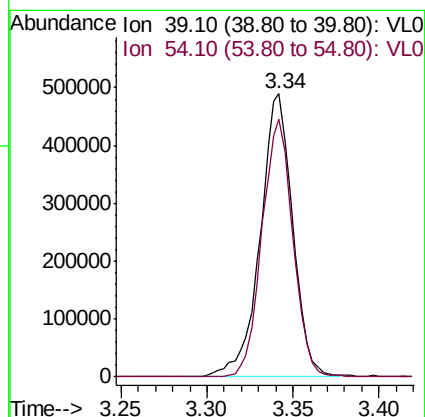
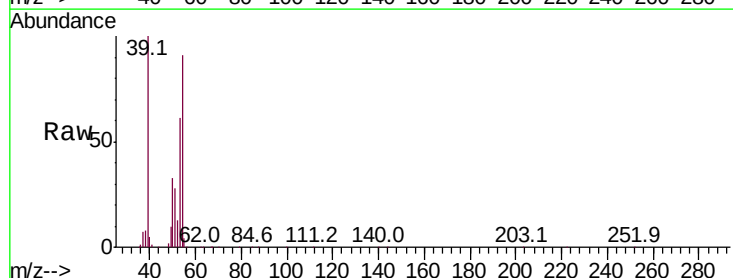
Acq: 12 Jul 2019 8:51

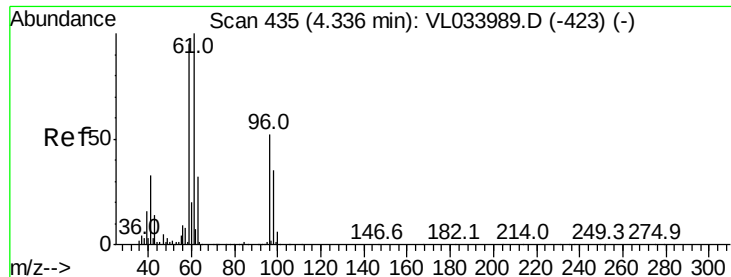
Tgt Ion: 39 Resp: 639076

Ion Ratio Lower Upper

39 100

54 87.1 71.4 107.2





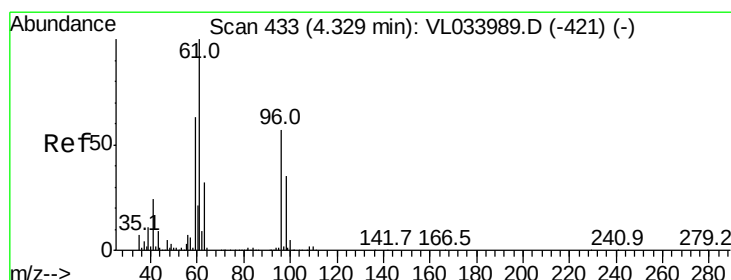
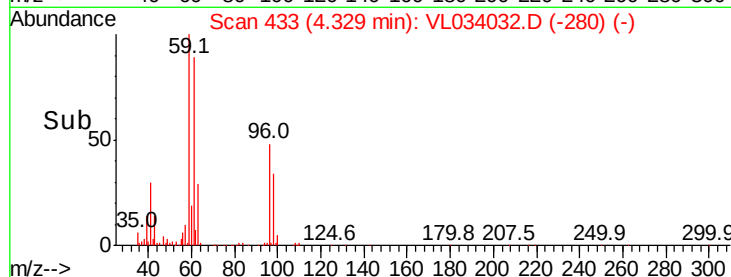
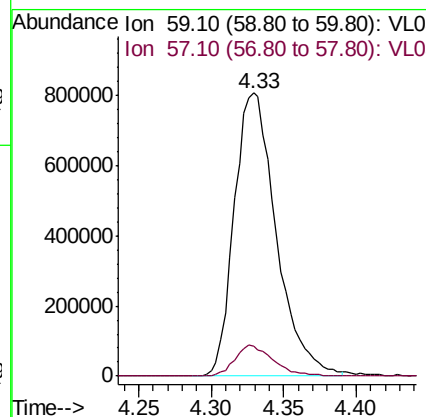
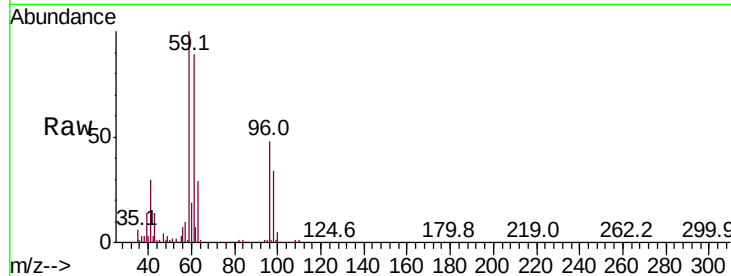
#17
 tert-Butyl alcohol
 Concen: 11.221 ppbv
 RT: 4.33 min Scan# 433
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

Tot Ion: 59 Resp: 1622969
 Ion Ratio Lower Upper
 59 100
 57 10.1 8.2 12.2

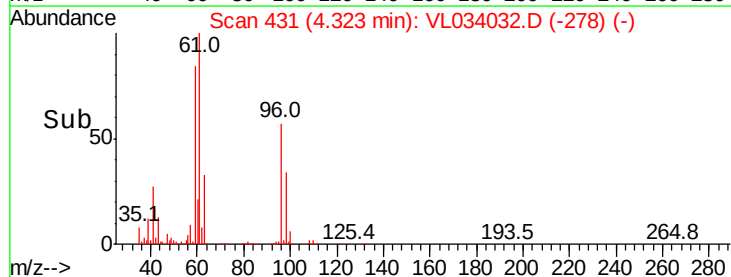
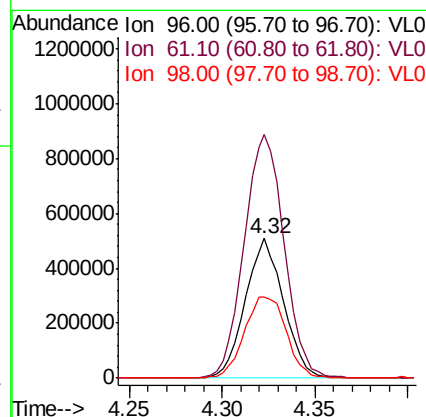
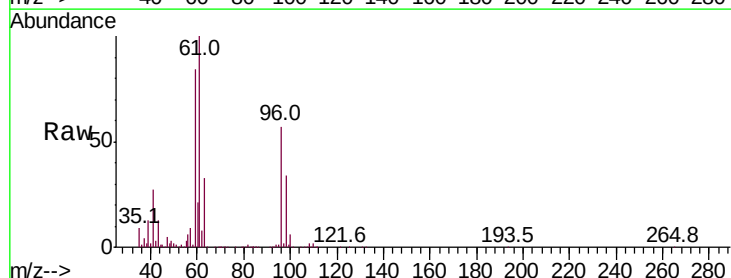
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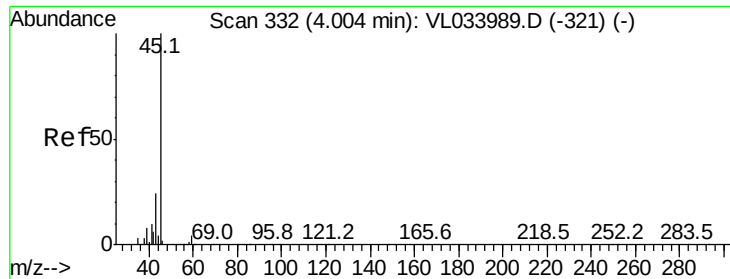
MMDadoda
 7/15/2019 2:54:18 PM



#18
 1,1-Dichloroethene
 Concen: 9.281 ppbv
 RT: 4.32 min Scan# 431
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Tgt Ion: 96 Resp: 732575
 Ion Ratio Lower Upper
 96 100
 61 174.0 139.4 209.0
 98 58.3 49.4 74.0





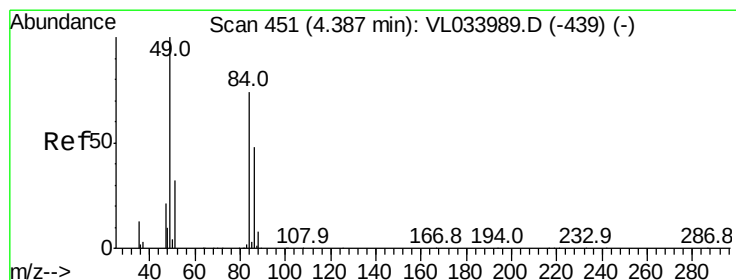
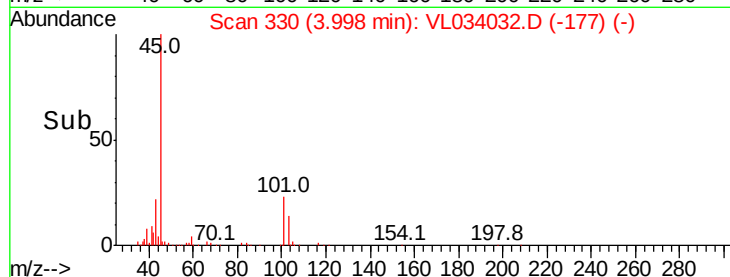
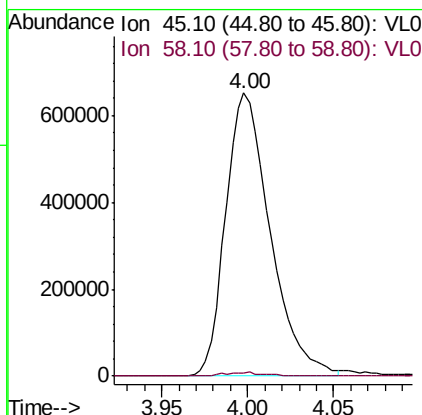
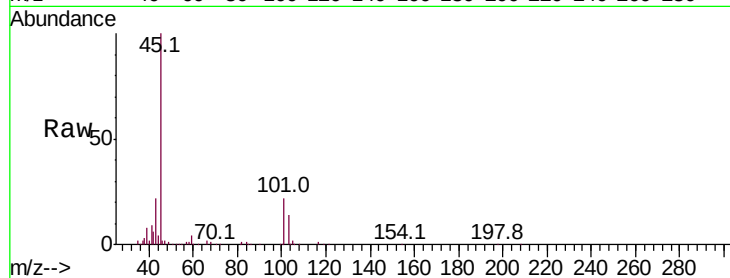
#19
Isopropyl Alcohol
Concen: 9.620 ppbv
RT: 4.00 min Scan# 330
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

Tot Ion: 45 Resp: 1171537
Ion Ratio Lower Upper
45 100
58 1.6 1.7 2.5#

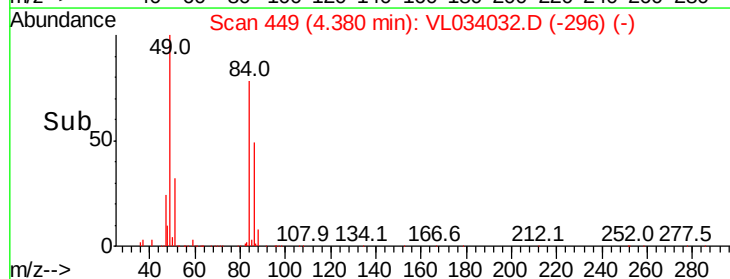
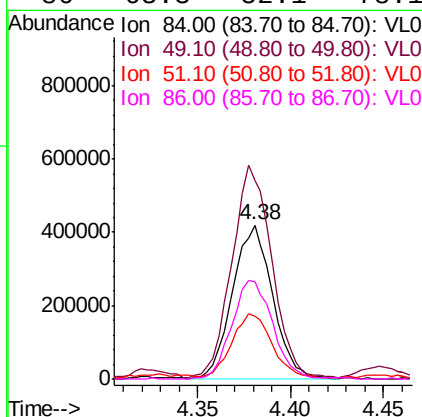
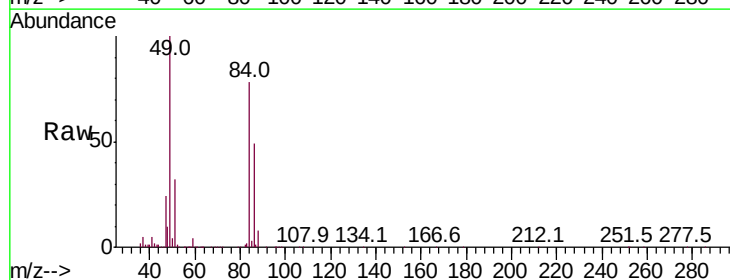
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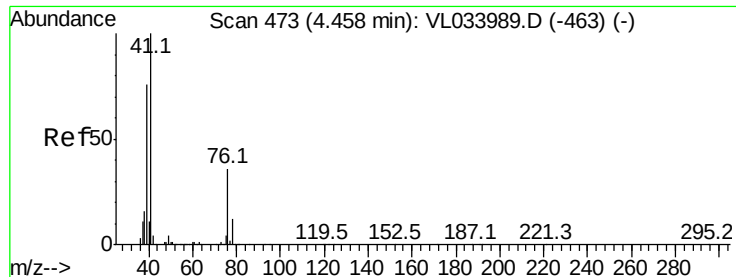
MMDadoda
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#20
Methylene Chloride
Concen: 7.911 ppbv
RT: 4.38 min Scan# 449
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Tgt Ion: 84 Resp: 625915
Ion Ratio Lower Upper
84 100
49 128.4 107.6 161.4
51 40.0 35.0 52.6
86 63.3 52.1 78.1





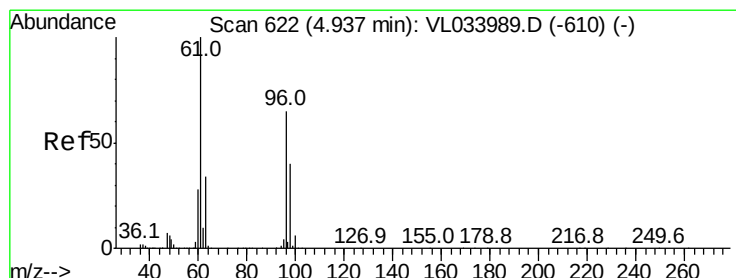
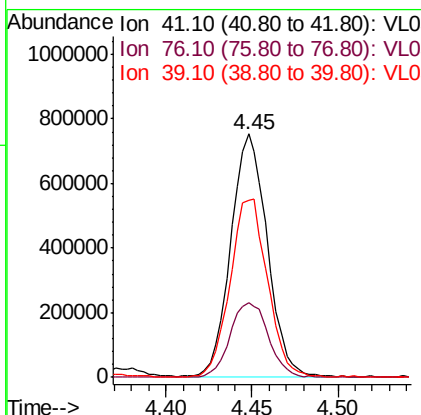
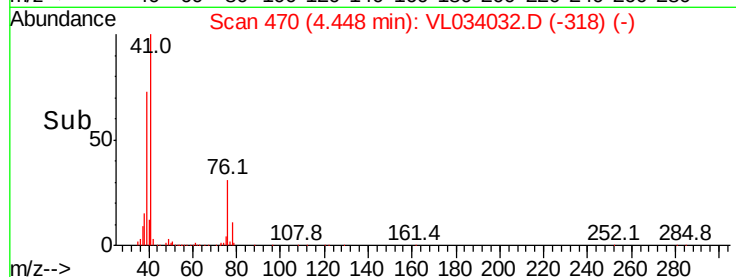
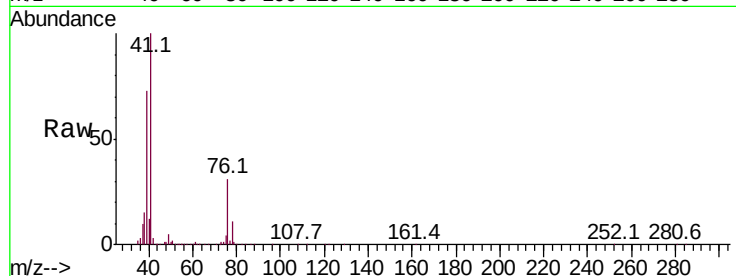
#21
Allvl Chloride
Concen: 9.783 ppbv
RT: 4.45 min Scan# 470
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

Tot Ion	Ratio	Lower	Upper
41	100		
76	32.5	26.8	40.2
39	75.7	63.1	94.7

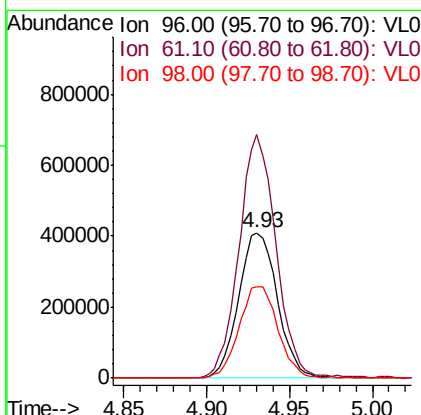
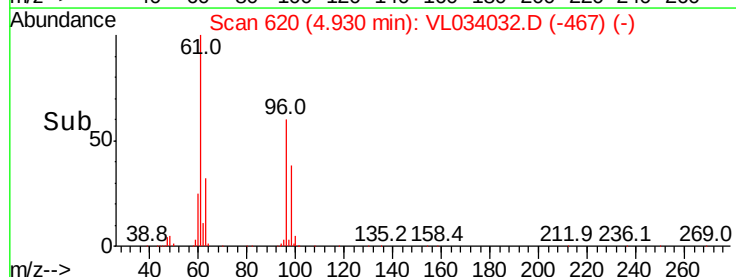
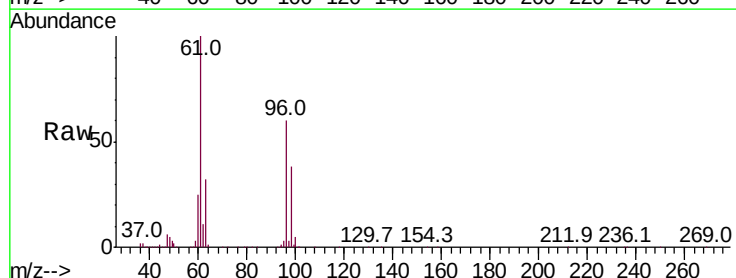
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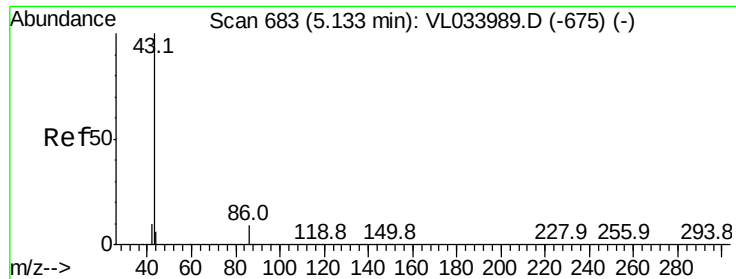
MMDadoda
7/15/2019 2:54:18 PM



#22
trans-1,2-Dichloroethene
Concen: 8.844 ppbv
RT: 4.93 min Scan# 620
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	167.2	122.9	184.3
98	62.9	49.6	74.4





#23

Vinyl Acetate

Concen: 10.962 ppbv

RT: 5.12 min Scan# 680

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

Tot Ion: 43 Resp: 1984907

Ion Ratio Lower Upper

43 100

86 8.9 6.6 9.8

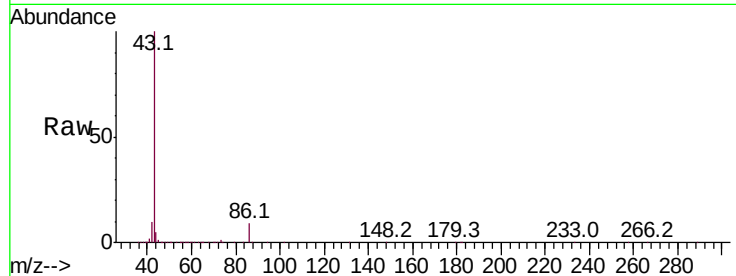
42 10.3 8.3 12.5

44 4.6 4.3 6.5

Manual Integrations
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7/15/2019 2:54:18 PM

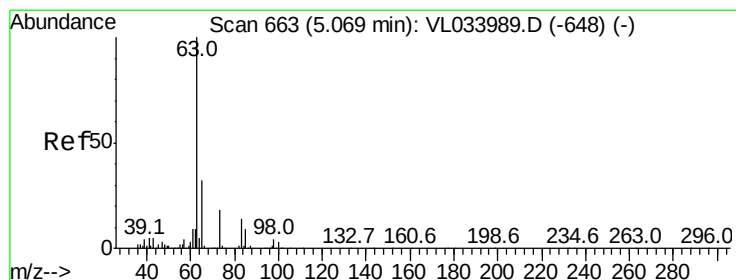
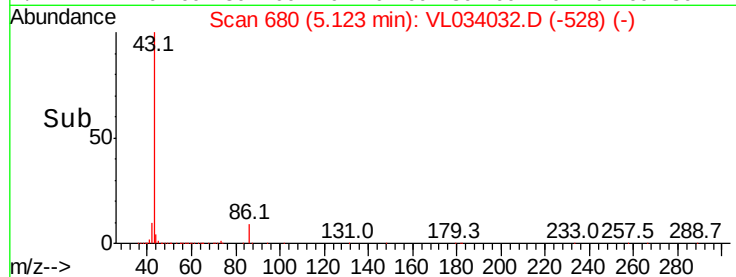
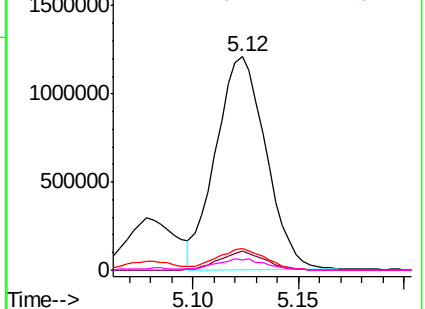


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.776 ppbv

RT: 5.06 min Scan# 661

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

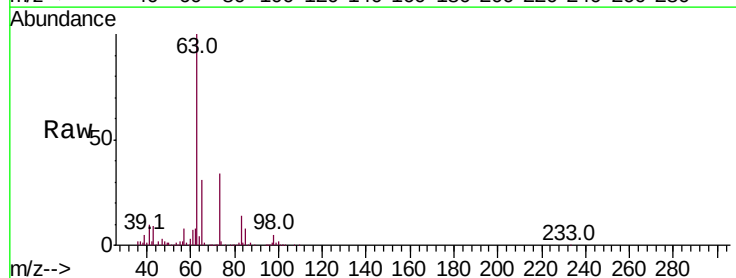
Tgt Ion: 63 Resp: 1568799

Ion Ratio Lower Upper

63 100

98 5.0 2.2 6.6

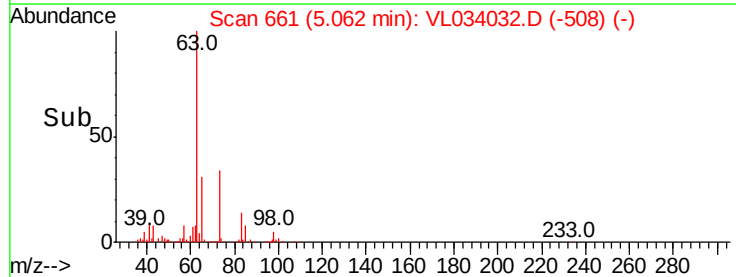
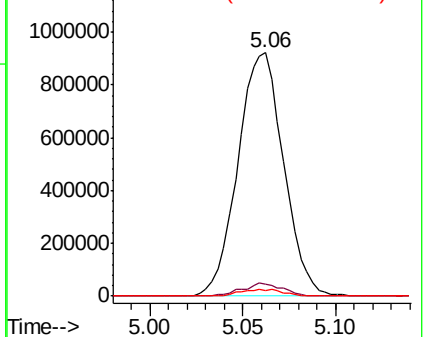
100 2.3 1.4 4.2

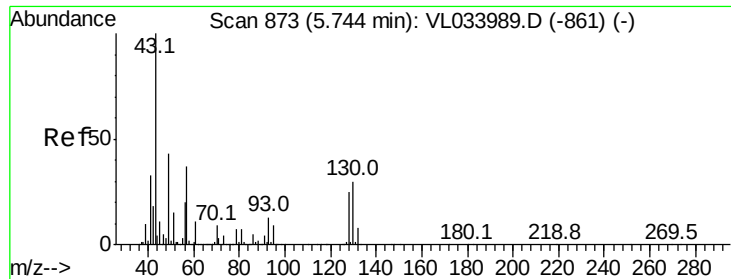


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





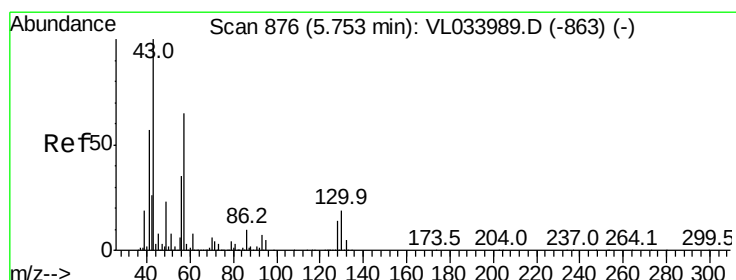
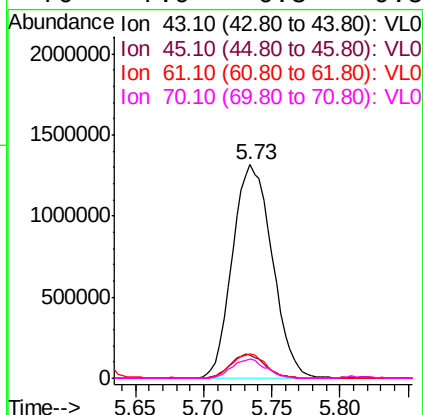
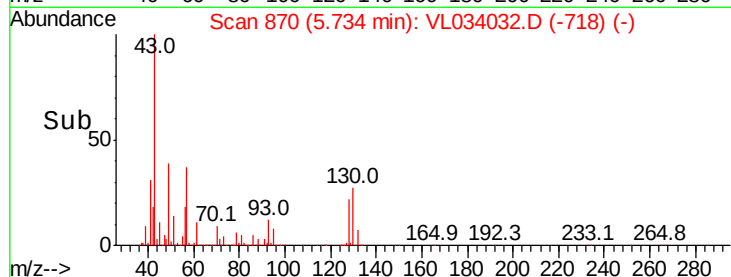
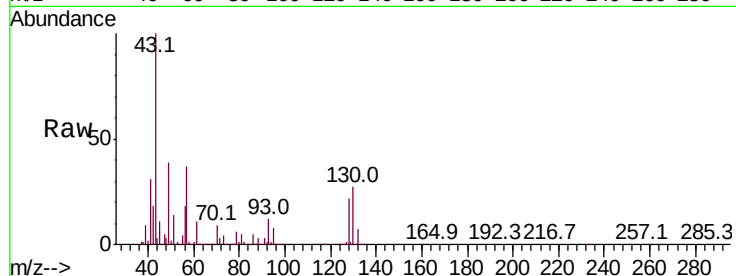
#25
Ethyl Acetate
Concen: 10.720 ppbv
RT: 5.73 min Scan# 870
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.1	12.1
61	9.9	8.1	12.1
70	7.9	6.3	9.5

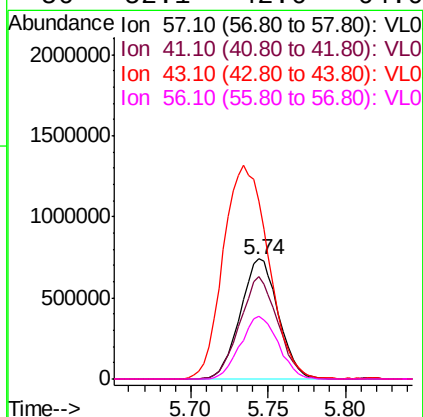
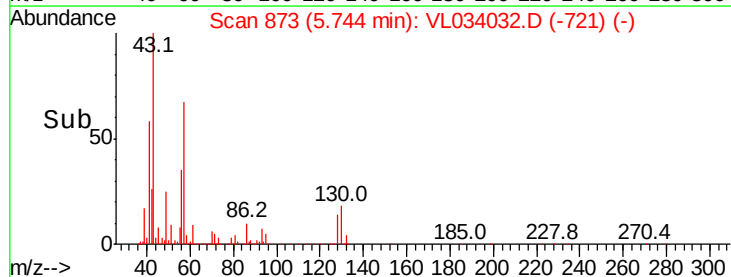
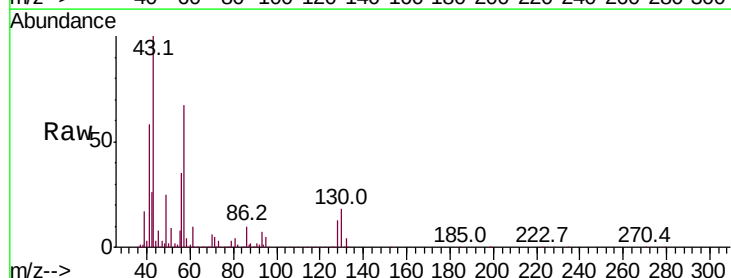
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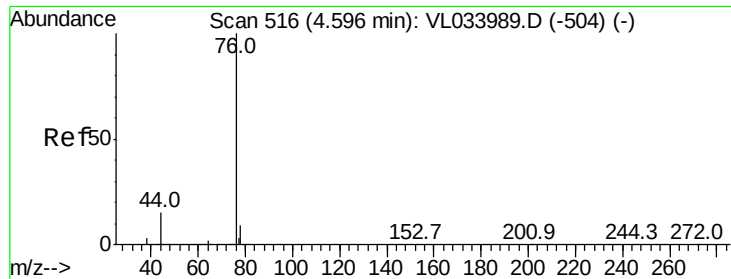
MMDadoda
7/15/2019 2:54:18 PM



#26
Hexane
Concen: 11.135 ppbv
RT: 5.74 min Scan# 873
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Tgt Ion	Ratio	Lower	Upper
57	100		
41	85.6	70.6	105.8
43	212.0	177.6	266.4
56	52.1	42.6	64.0





#27

Carbon Disulfide

Concen: 9.487 ppbv

RT: 4.59 min Scan# 514

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

Tot Ion: 76 Resp: 1831259

Ion Ratio Lower Upper

76 100

44 16.1 12.6 18.8

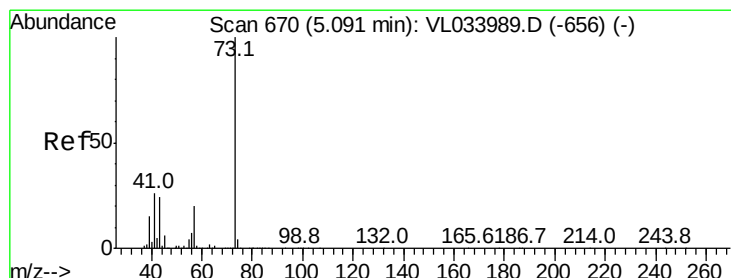
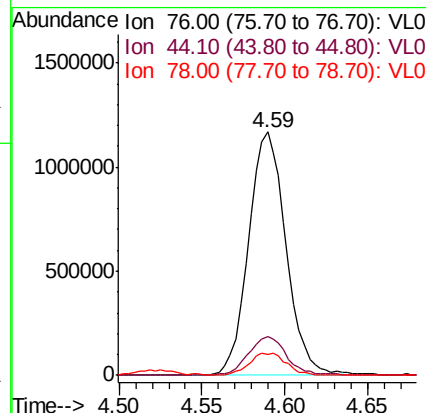
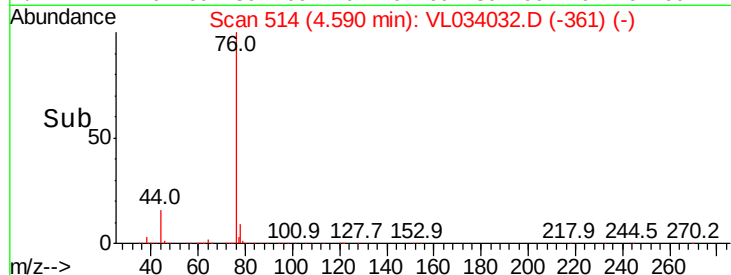
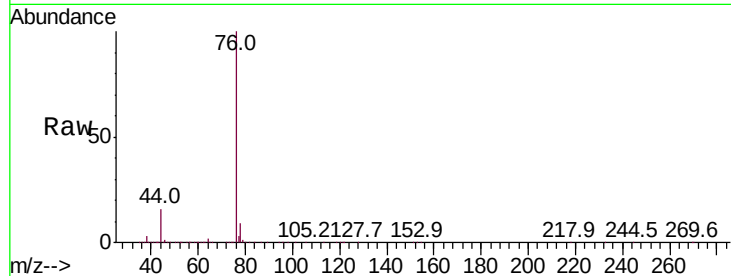
78 8.9 7.2 10.8

Manual Integrations

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#28

Methyl tert-Butyl Ether

Concen: 11.061 ppbv

RT: 5.08 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL034032.D

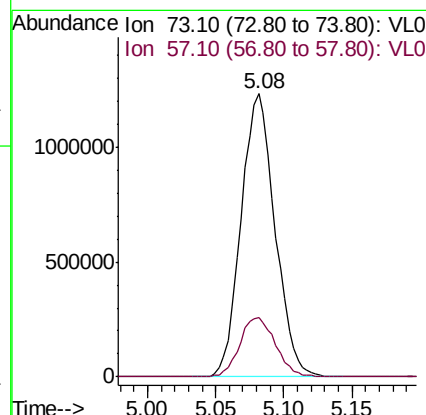
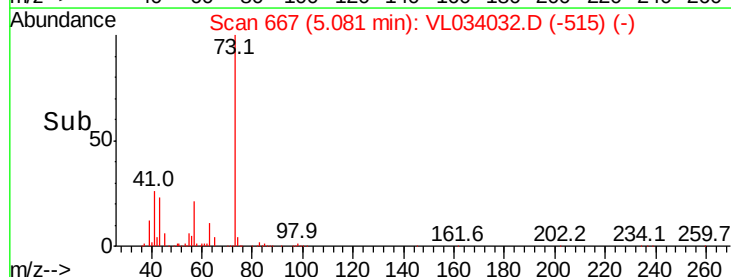
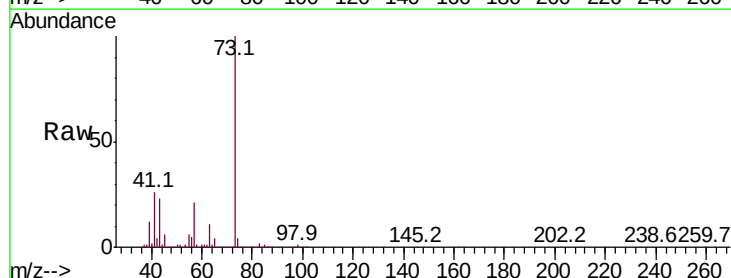
Acq: 12 Jul 2019 8:51

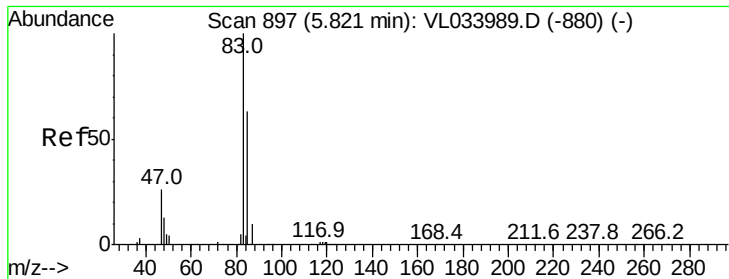
Tgt Ion: 73 Resp: 2127048

Ion Ratio Lower Upper

73 100

57 22.2 16.9 25.3





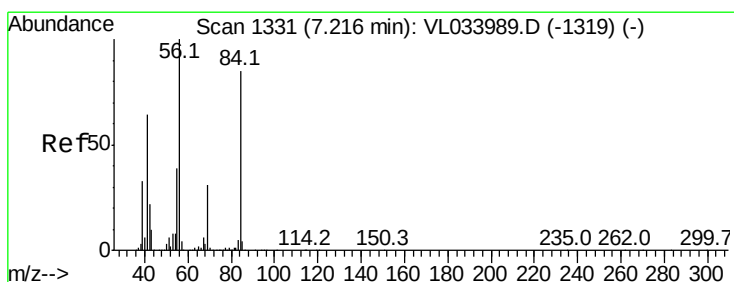
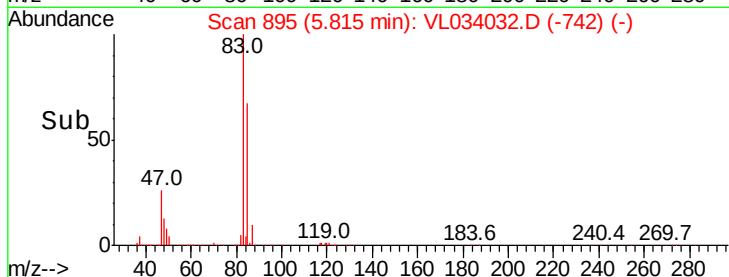
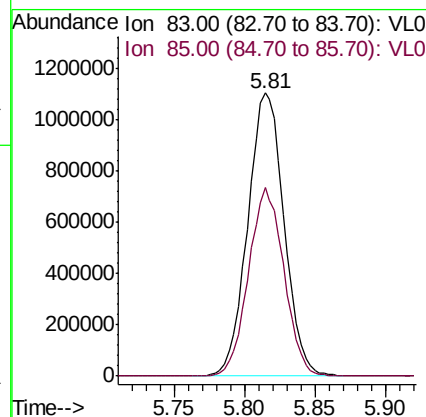
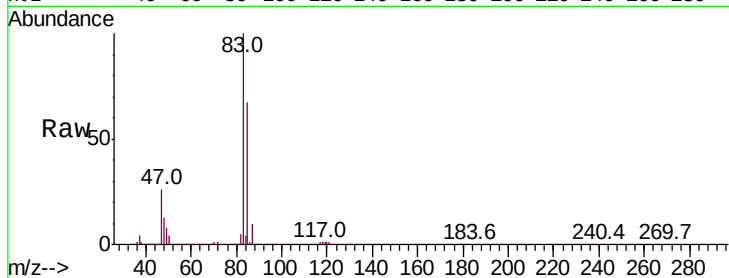
#29
Chloroform
Concen: 9.345 ppbv
RT: 5.81 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

Tot Ion: 83 Resp: 1994176
Ion Ratio Lower Upper
83 100
85 66.6 50.6 75.8

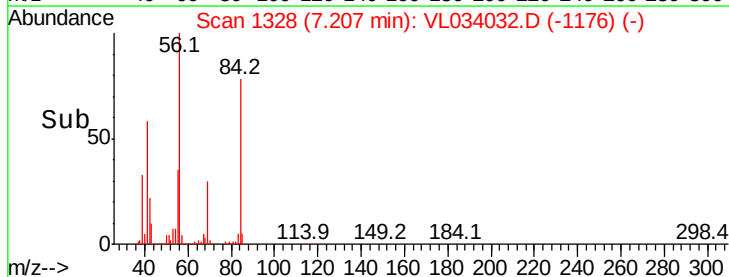
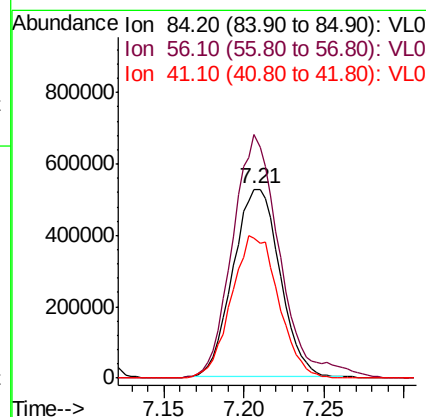
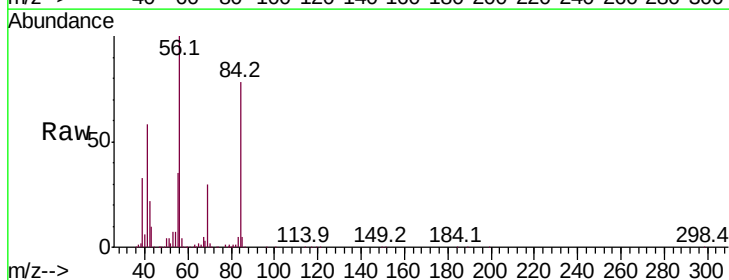
Manual Integrations
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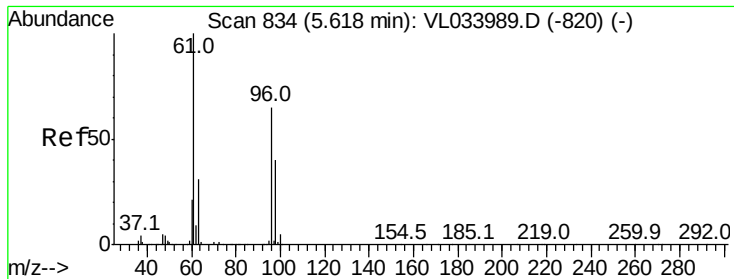
MMDadoda
7/15/2019 2:54:18 PM



#30
Cyclohexane
Concen: 12.026 ppbv
RT: 7.21 min Scan# 1328
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Tgt Ion: 84 Resp: 1054565
Ion Ratio Lower Upper
84 100
56 131.5 103.7 155.5
41 76.3 62.6 94.0





#31

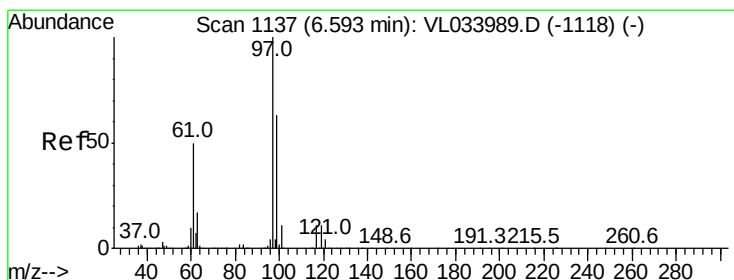
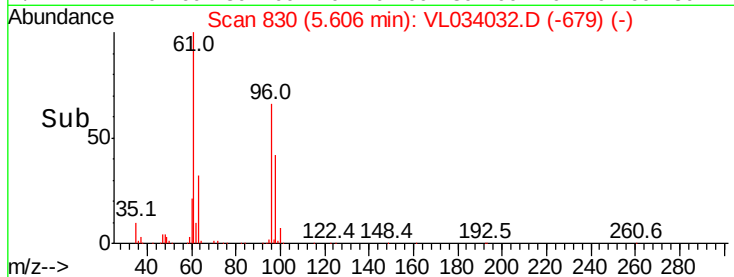
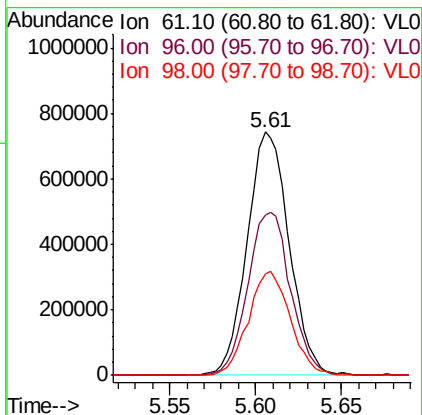
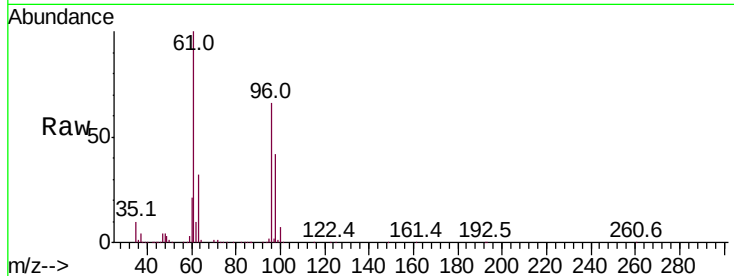
cis-1,2-Dichloroethene
Concen: 11.465 ppbv
RT: 5.61 min Scan# 830
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

Tot Ion	Ratio	Lower	Upper
61	100		
96	65.7	51.8	77.6
98	41.7	32.1	48.1

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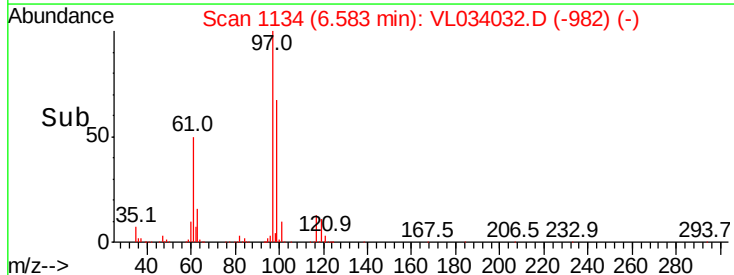
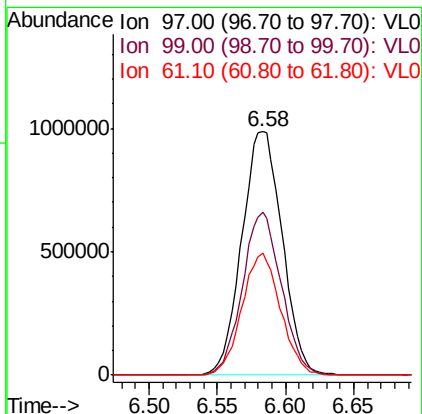
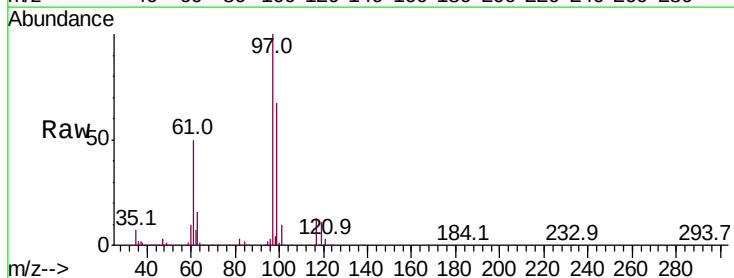
MMDadoda
7/15/2019 2:54:18 PM

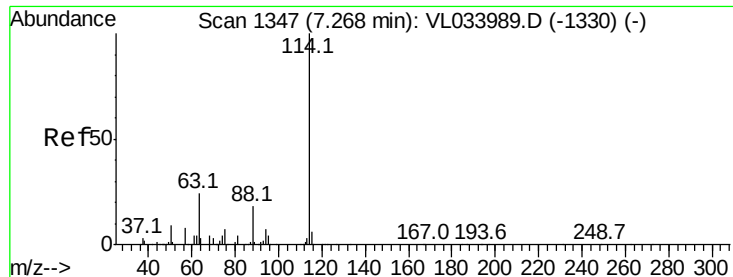


#32

1,1,1-Trichloroethane
Concen: 9.381 ppbv
RT: 6.58 min Scan# 1134
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.9	77.9
61	47.9	39.8	59.8





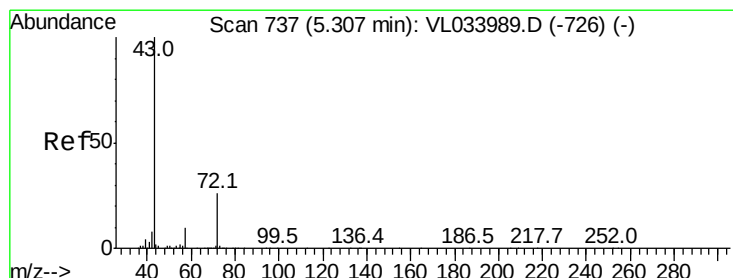
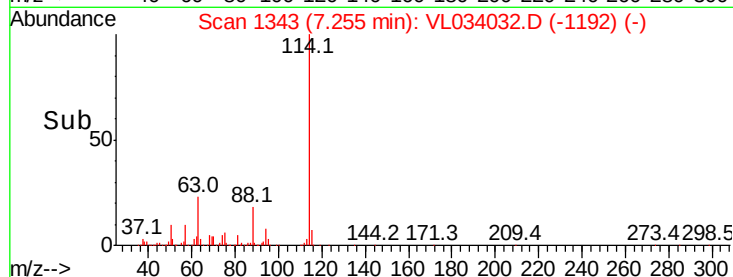
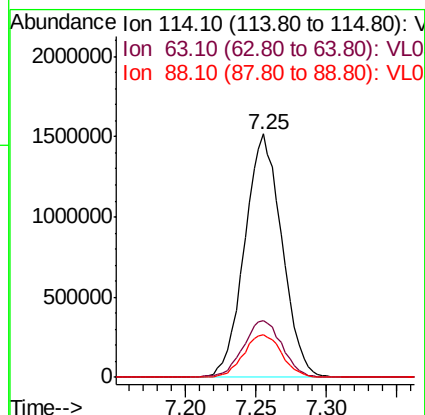
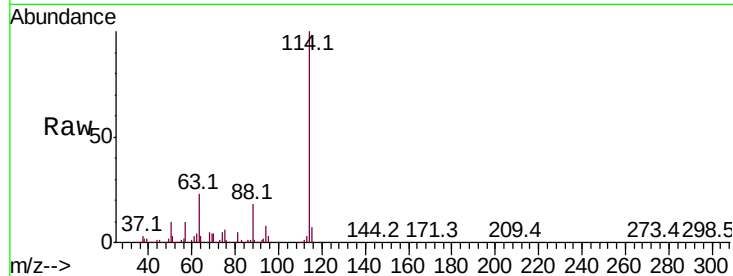
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1343
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.6	20.2	30.2
88	17.9	14.1	21.1

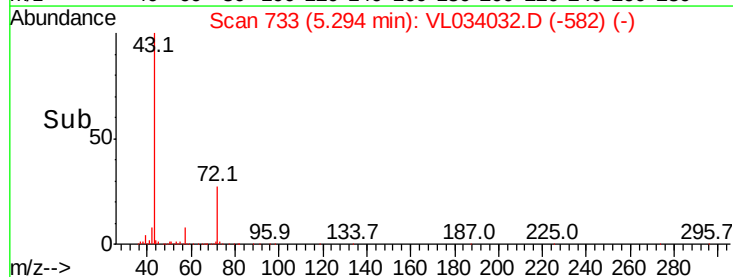
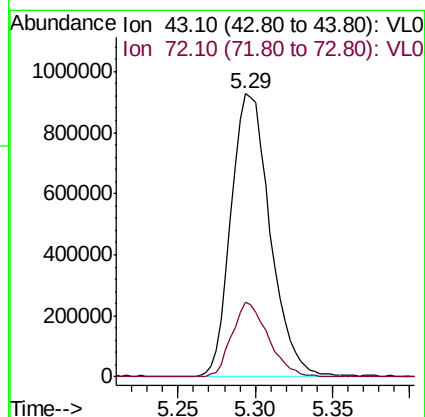
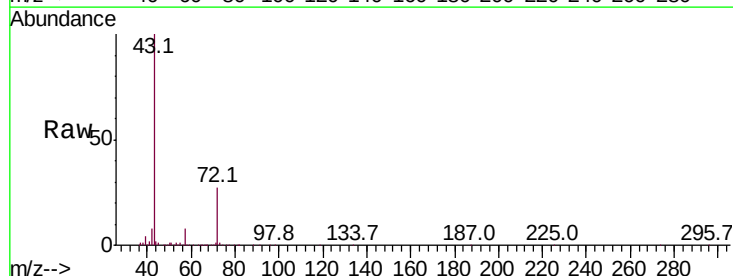
Manual Integrations
 APPROVED

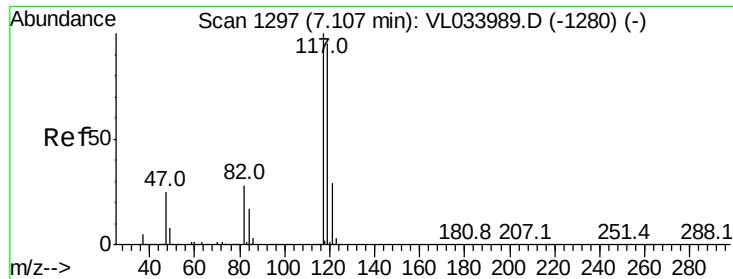
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#34
 2-Butanone
 Concen: 10.925 ppbv
 RT: 5.29 min Scan# 733
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.8	19.9	29.9





#35

Carbon Tetrachloride

Concen: 9.381 ppbv

RT: 7.09 min Scan# 1293

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

Tot Ion: 117 Resp: 2085841

Ion Ratio Lower Upper

117 100

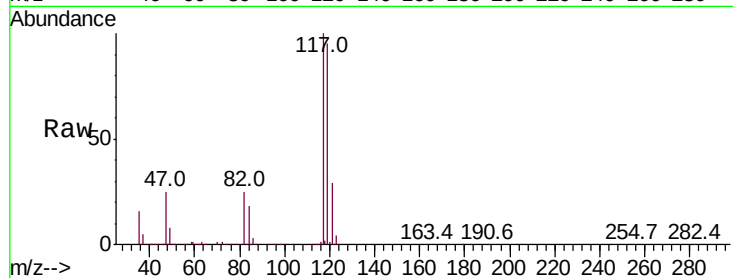
119 95.4 75.8 113.6

121 29.0 23.4 35.2

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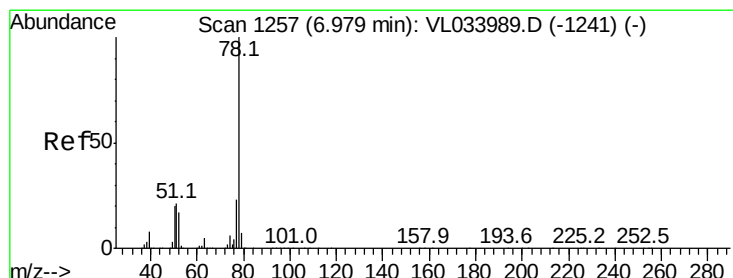
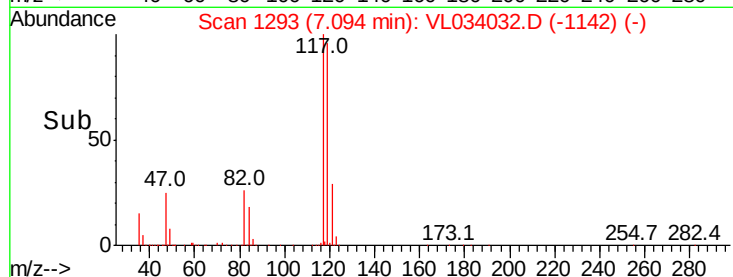
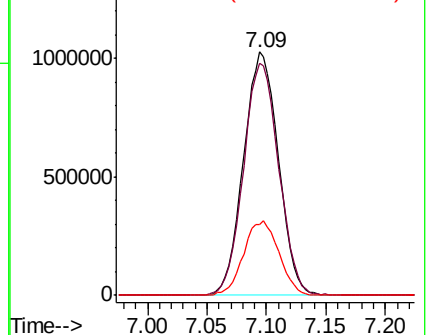
7/15/2019 2:54:18 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 11.560 ppbv

RT: 6.97 min Scan# 1253

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

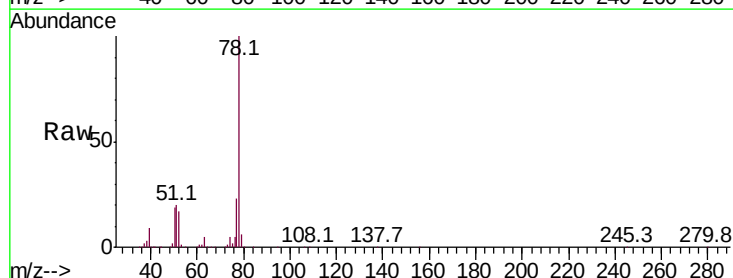
Tgt Ion: 78 Resp: 2540652

Ion Ratio Lower Upper

78 100

77 23.0 18.7 28.1

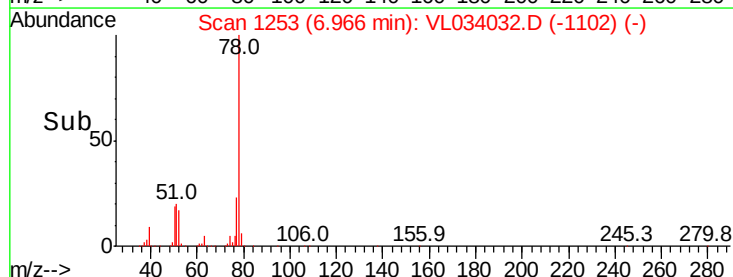
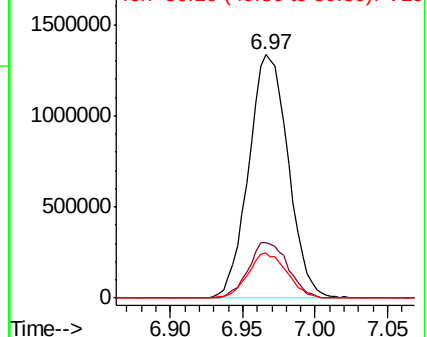
50 18.8 16.2 24.2

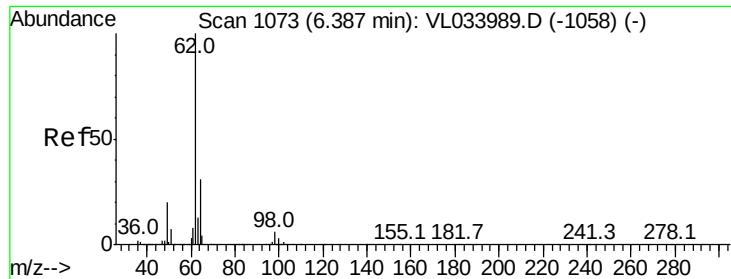


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 9.409 ppbv

RT: 6.38 min Scan# 1070

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :
MSVOA_L

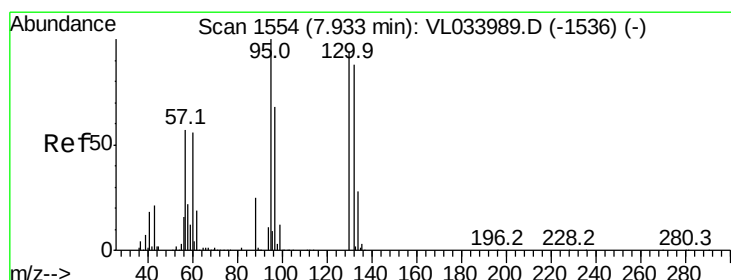
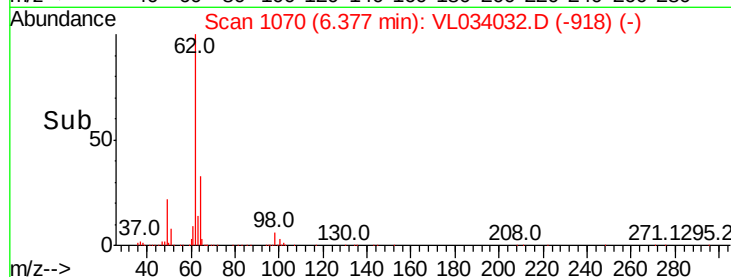
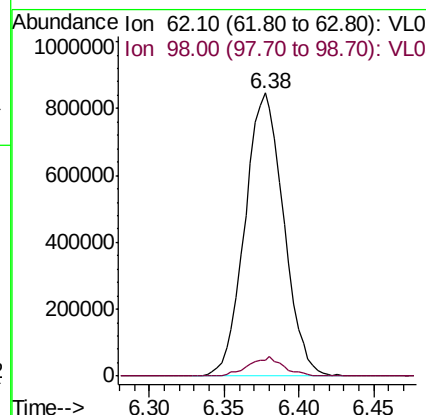
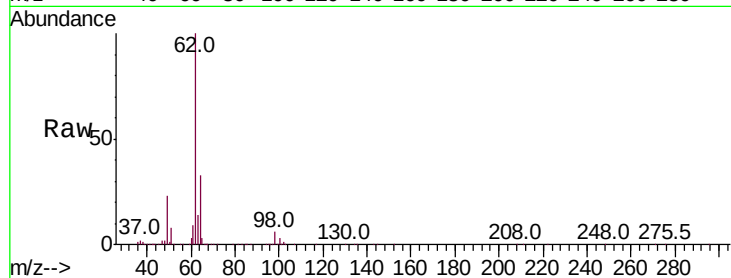
ClientSampleId :
VL0711ABS02

Tot Ion: 62 Resp: 1523389

Ion	Ratio	Lower	Upper
62	100		
98	6.1	4.4	6.6

Manual Integrations
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#38

Trichloroethene

Concen: 10.764 ppbv

RT: 7.92 min Scan# 1551

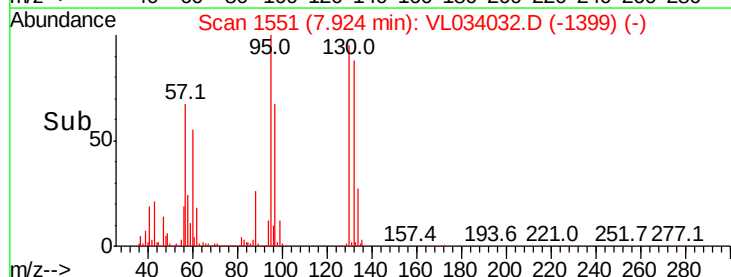
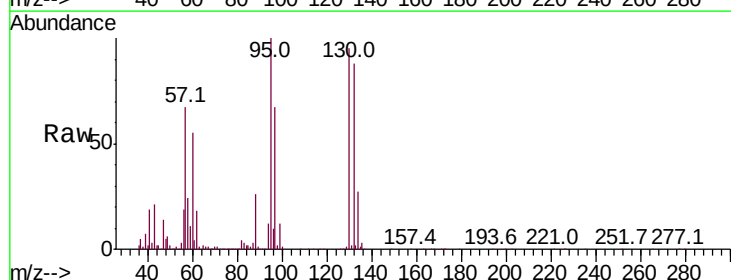
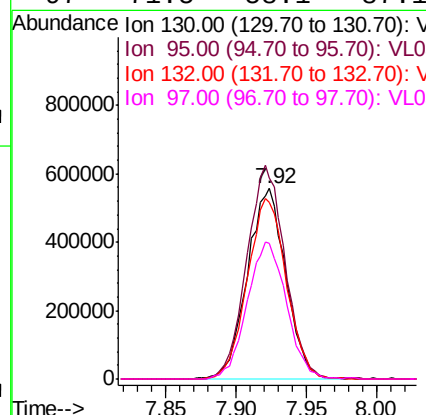
Delta R.T. -0.01 min

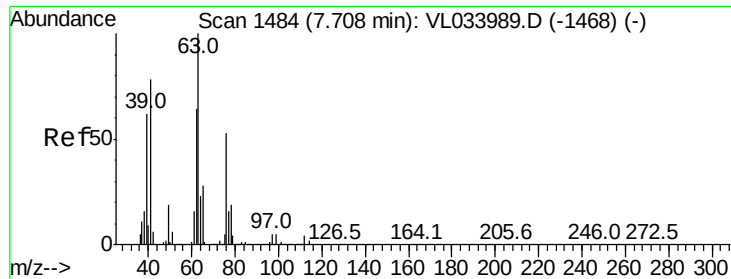
Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Tgt Ion: 130 Resp: 1052564

Ion	Ratio	Lower	Upper
130	100		
95	105.9	85.5	128.3
132	92.8	75.1	112.7
97	71.5	58.1	87.1





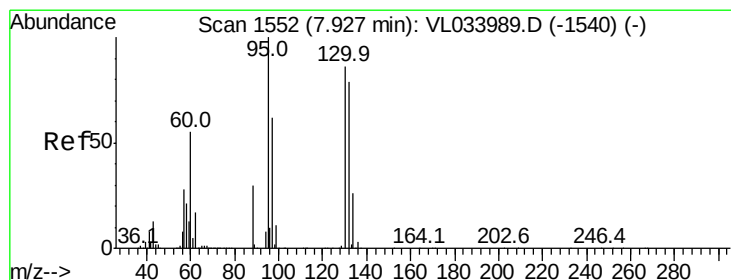
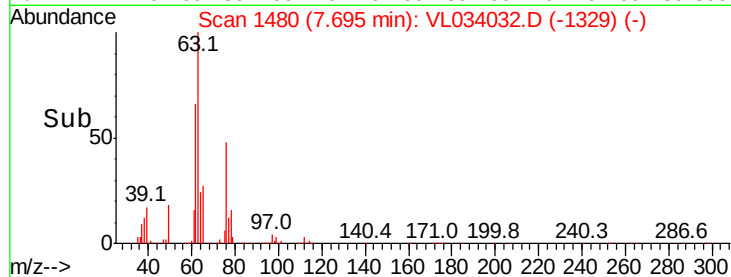
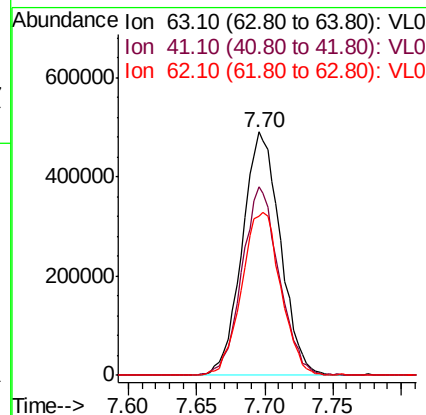
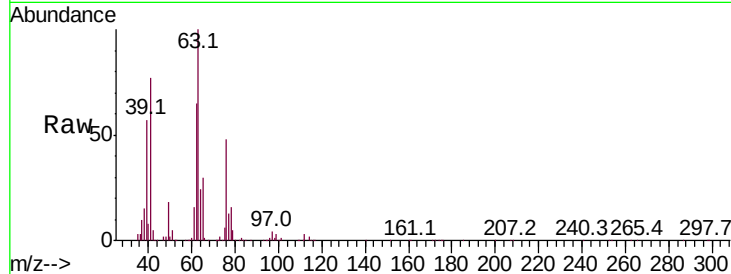
#39
 1,2-Dichloropropane
 Concen: 11.604 ppbv
 RT: 7.70 min Scan# 1480
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

Tot Ion	Ratio	Lower	Upper
63	100		
41	77.2	62.3	93.5
62	65.4	51.4	77.2

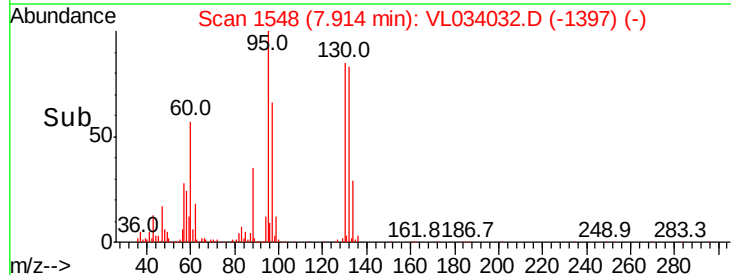
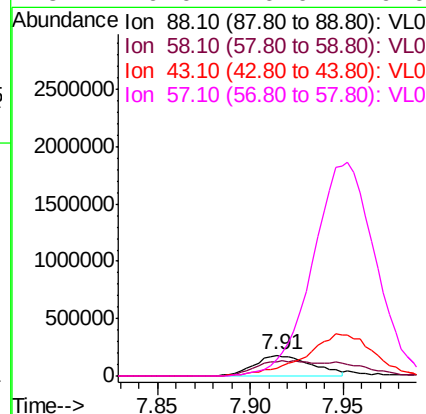
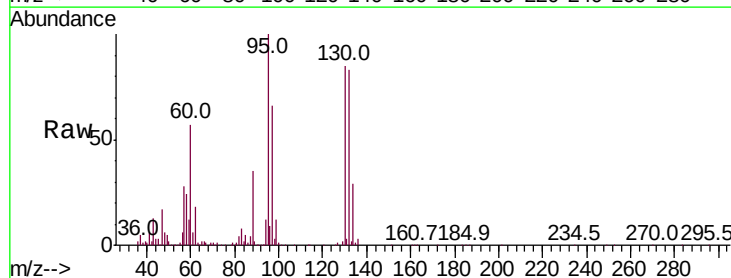
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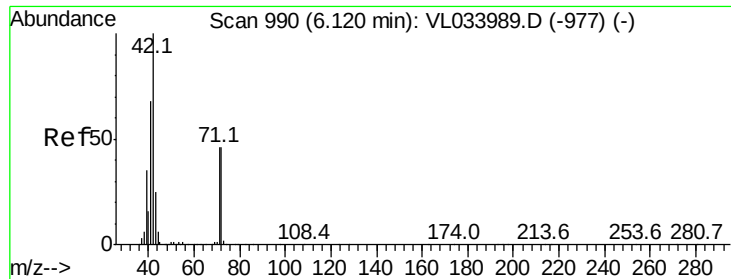
MMDadoda
 7/15/2019 2:54:18 PM



#40
 1,4-Dioxane
 Concen: 10.120 ppbv
 RT: 7.91 min Scan# 1548
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Tgt Ion	Ratio	Lower	Upper
88	100		
58	132.6	99.1	148.7
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 12.490 ppbv

RT: 6.11 min Scan# 987

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

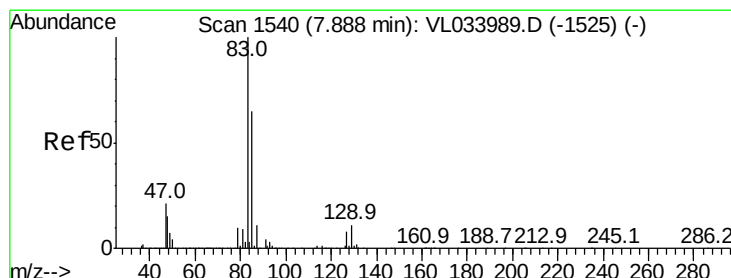
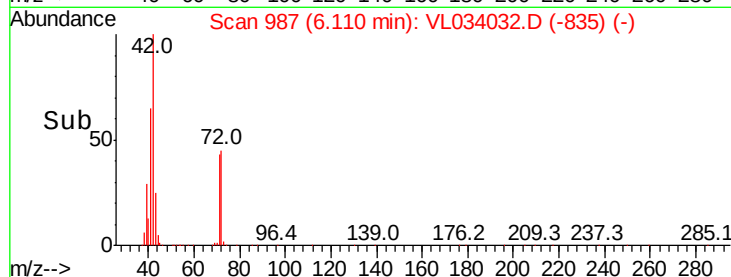
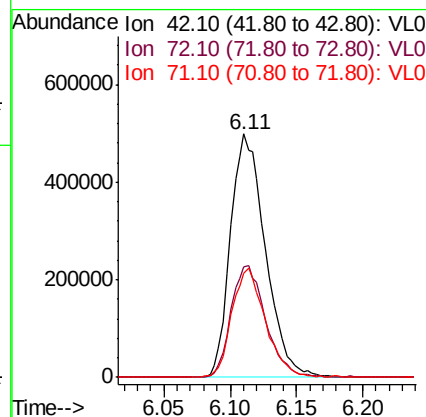
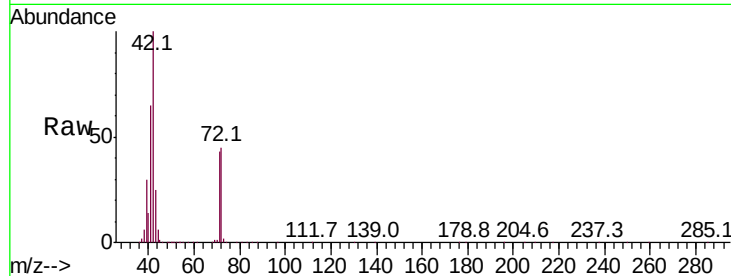
ClientSampleId :

VL0711ABS02

Tot Ion:	42	Resp:	910545
Ion Ratio		Lower	Upper
42	100		
72	45.7	37.3	55.9
71	43.3	36.2	54.2

Manual Integrations
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#42

Bromodichloromethane

Concen: 10.461 ppbv

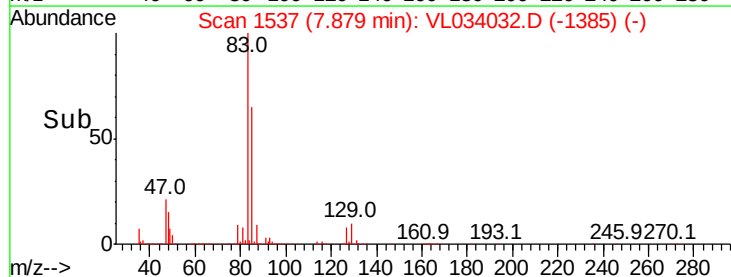
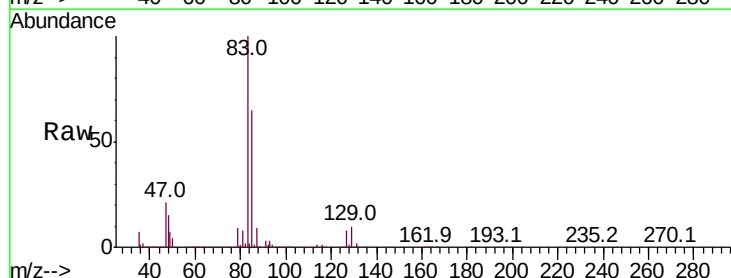
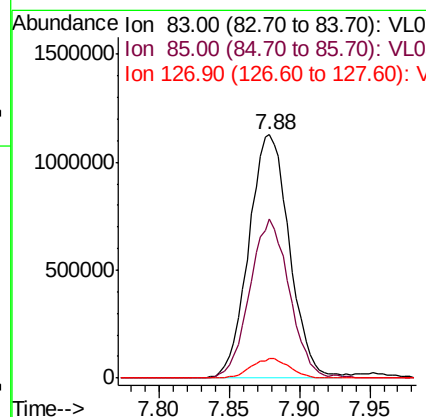
RT: 7.88 min Scan# 1537

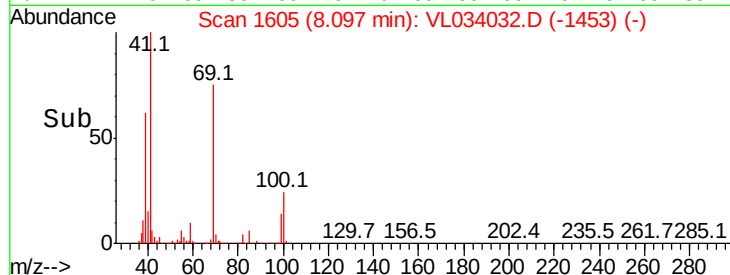
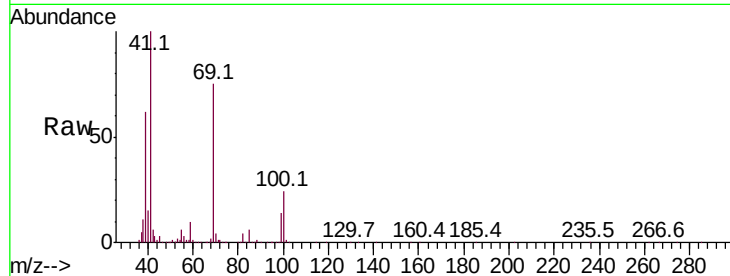
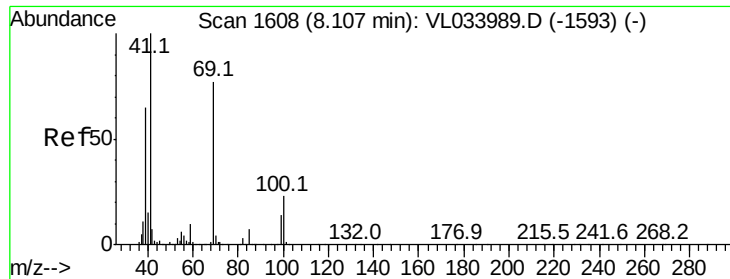
Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Tgt Ion:	83	Resp:	2272528
Ion Ratio		Lower	Upper
83	100		
85	65.2	51.8	77.8
127	8.0	6.5	9.7





#43

Methyl Methacrylate

Concen: 12.403 ppbv

RT: 8.10 min Scan# 1605

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Tot Ion: 69 Resp: 1034254

Ion Ratio Lower Upper

69 100

41 137.5 109.1 163.7

100 33.2 25.3 37.9

Instrument :

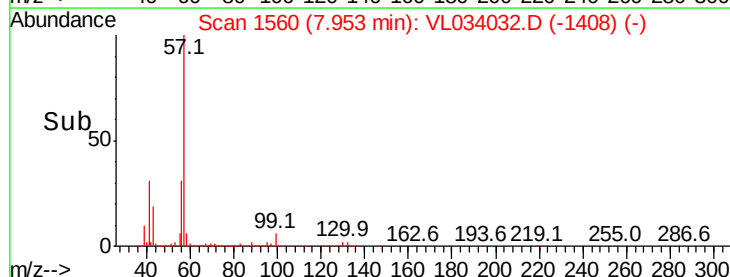
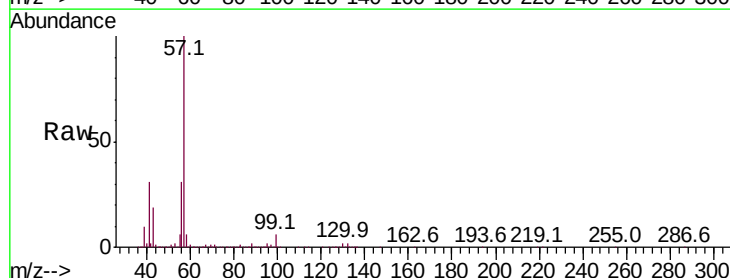
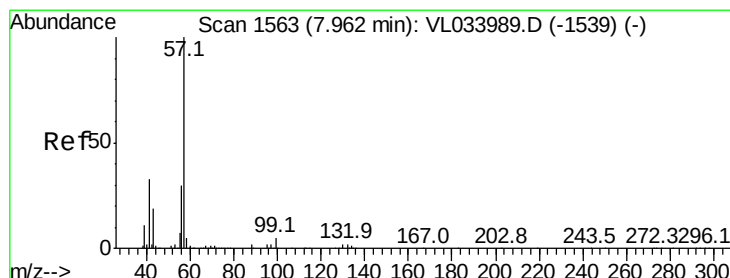
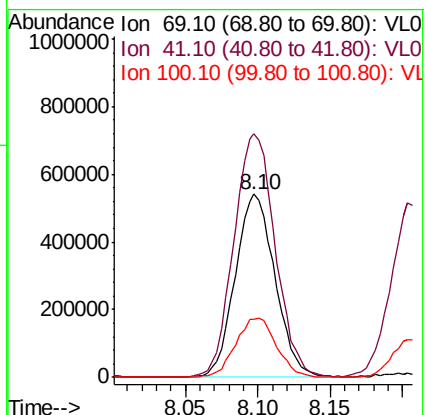
MSVOA_L

ClientSampleId :

VL0711ABS02

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#44

2,2,4-Trimethylpentane

Concen: 11.449 ppbv

RT: 7.95 min Scan# 1560

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

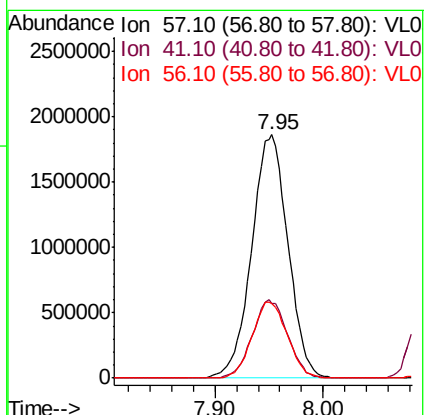
Tgt Ion: 57 Resp: 4343308

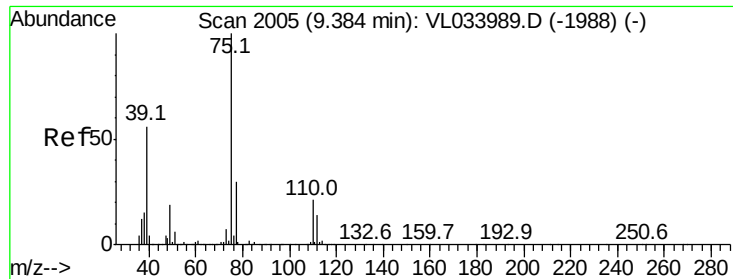
Ion Ratio Lower Upper

57 100

41 31.2 26.1 39.1

56 30.5 24.4 36.6





#45

t-1,3-Dichloropropene

Concen: 11.531 ppbv

RT: 9.37 min Scan# 2002

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :
MSVOA_L

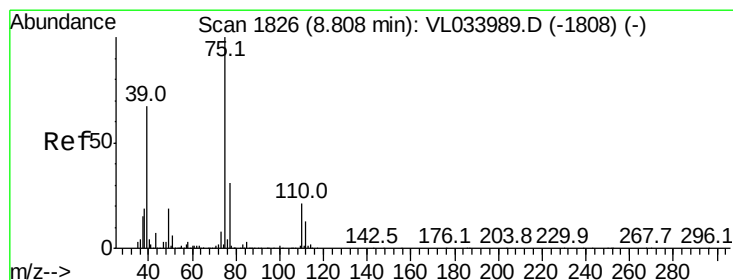
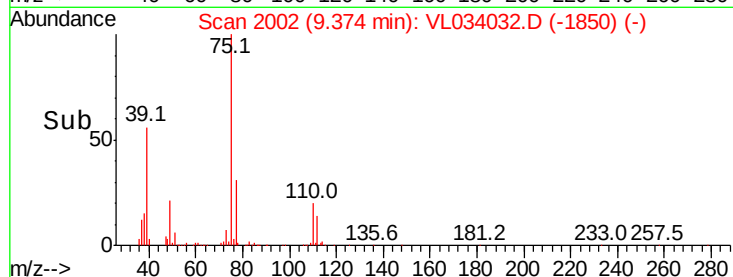
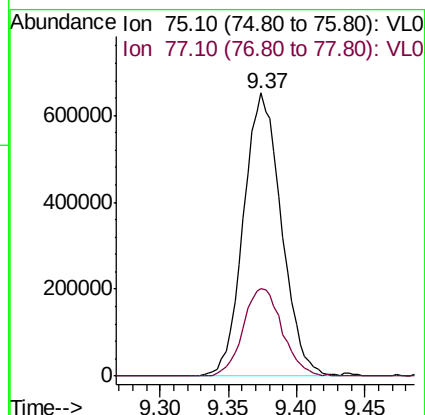
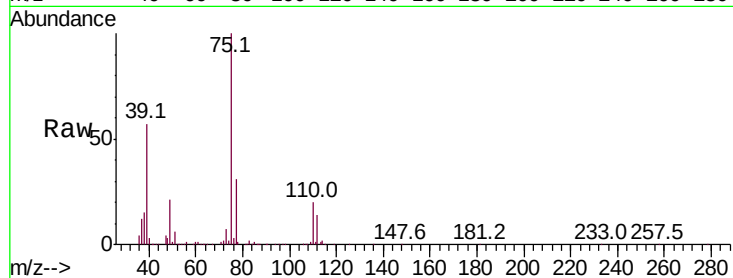
ClientSampleId :
VL0711ABS02

Tot Ion: 75 Resp: 1257315

Ion	Ratio	Lower	Upper
75	100		
77	31.0	24.3	36.5

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#46

cis-1,3-Dichloropropene

Concen: 11.777 ppbv

RT: 8.80 min Scan# 1822

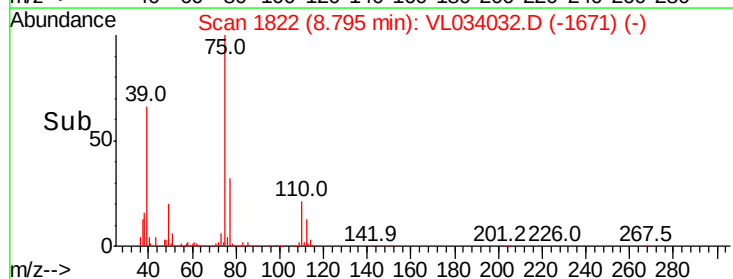
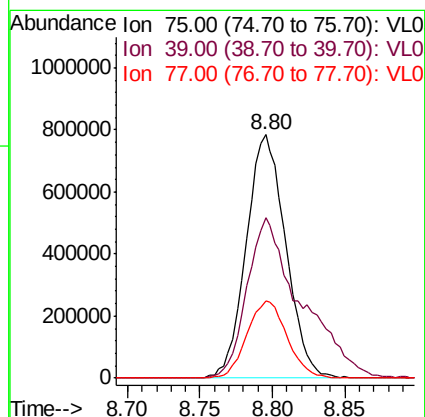
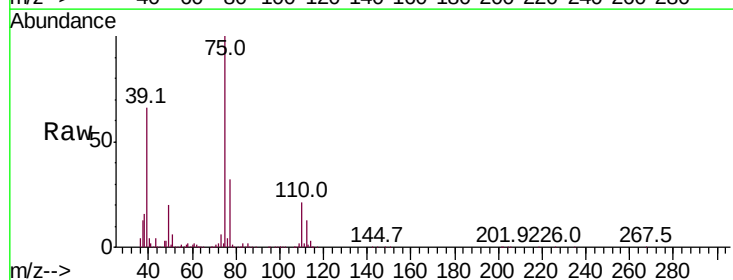
Delta R.T. -0.01 min

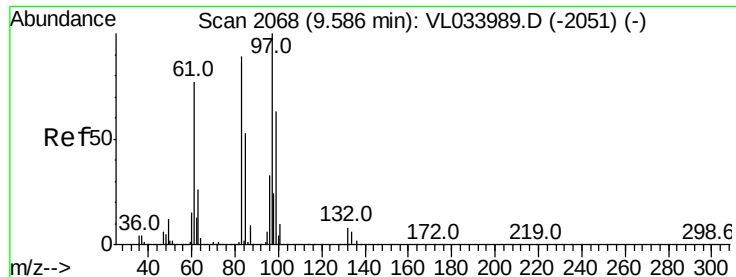
Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Tgt Ion: 75 Resp: 1487167

Ion	Ratio	Lower	Upper
75	100		
39	66.0	53.8	80.6
77	31.8	24.5	36.7





#47

1,1,2-Trichloroethane

Concen: 10.502 ppbv

RT: 9.57 min Scan# 2064

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

Tot Ion: 97 Resp: 1079096

Ion Ratio Lower Upper

97 100

83 88.7 71.1 106.7

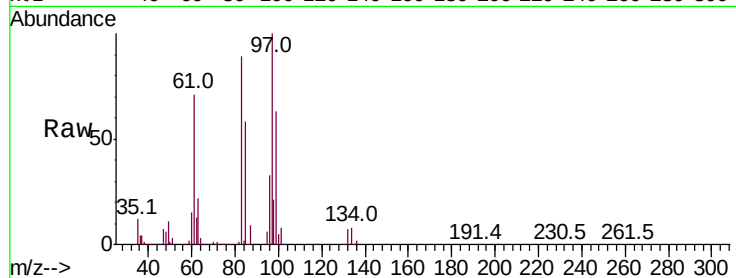
85 57.6 42.6 64.0

99 62.8 50.3 75.5

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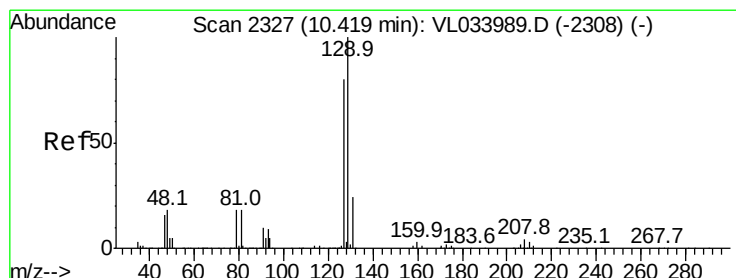
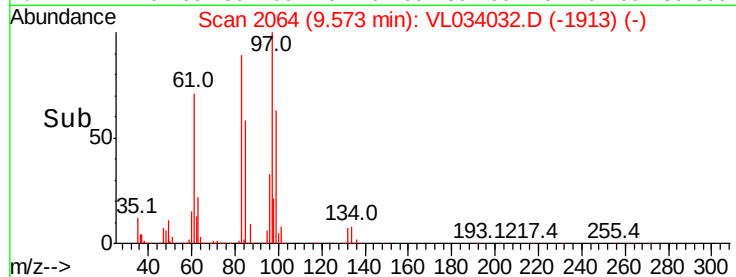
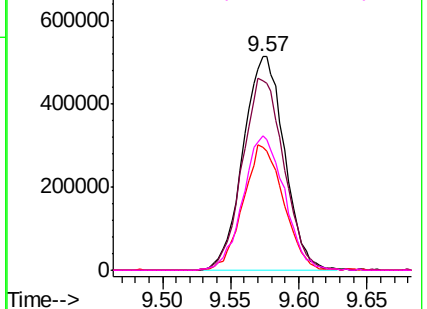


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 9.908 ppbv

RT: 10.41 min Scan# 2324

Delta R.T. -0.01 min

Lab File: VL034032.D

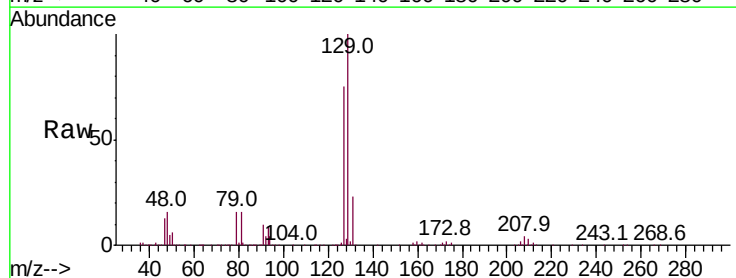
Acq: 12 Jul 2019 8:51

Tgt Ion: 129 Resp: 1942569

Ion Ratio Lower Upper

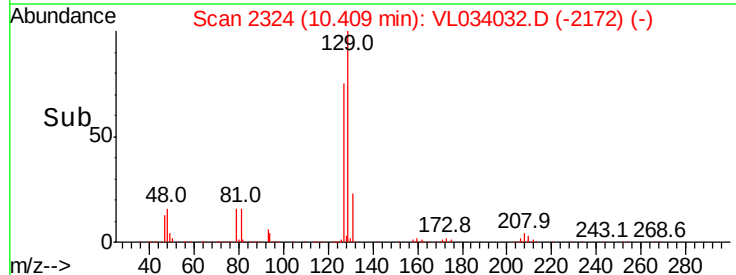
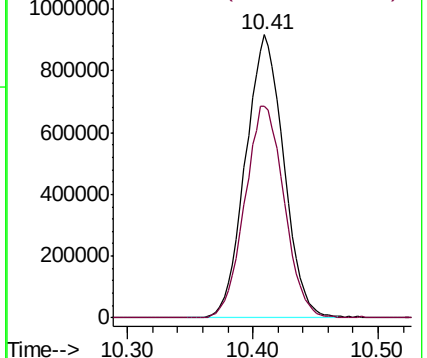
129 100

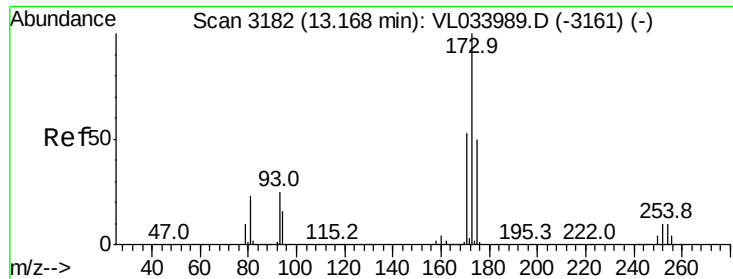
127 77.3 39.1 117.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





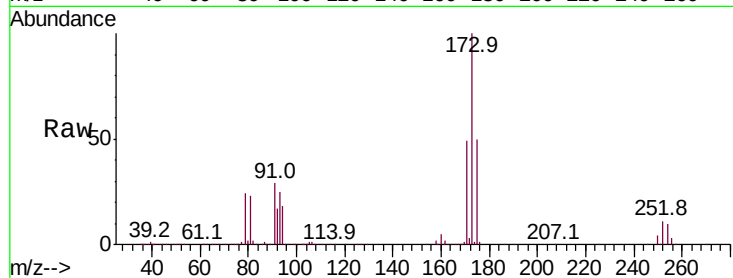
#49
Bromoform
Concen: 10.200 ppbv
RT: 13.16 min Scan# 3179
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

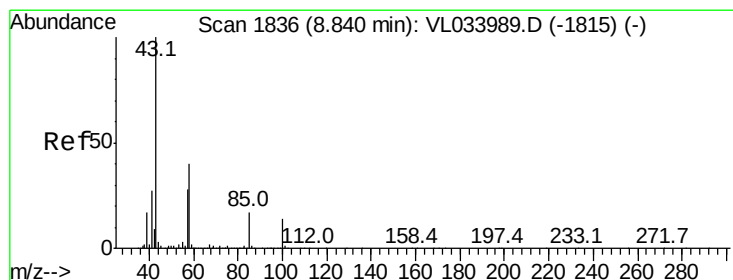
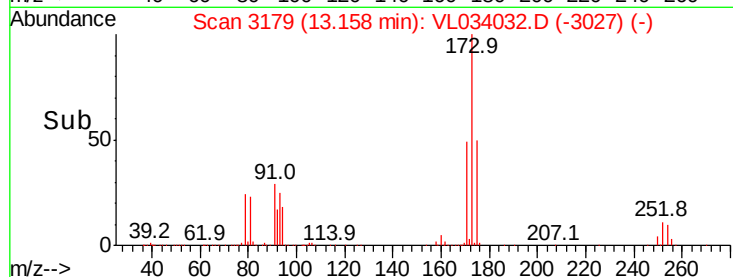
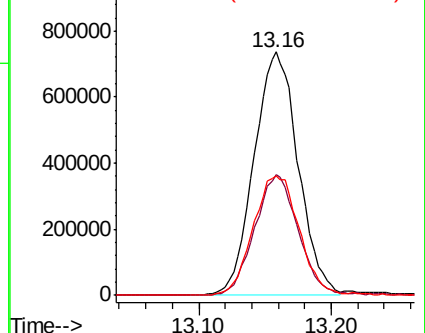
Tot Ion:173 Resp: 1708390
Ion Ratio Lower Upper
173 100
175 49.8 39.3 58.9
171 51.9 41.4 62.0

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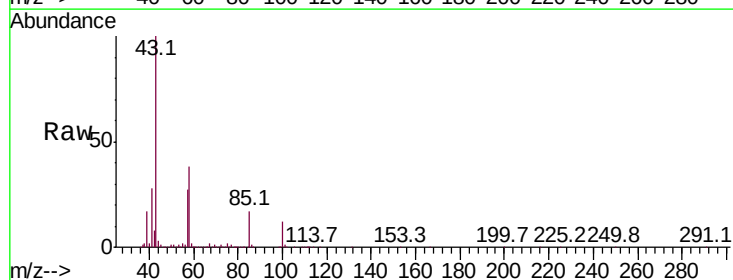


Abundance Ion 172.90 (172.60 to 173.60): V
1000000 Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

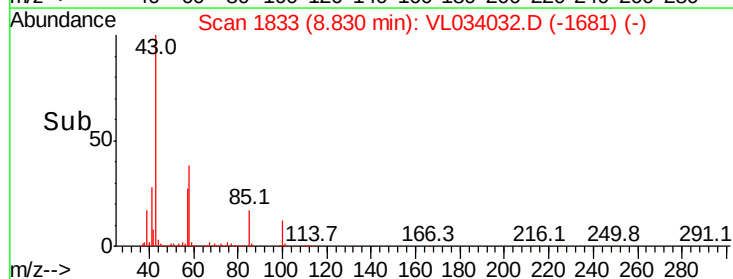
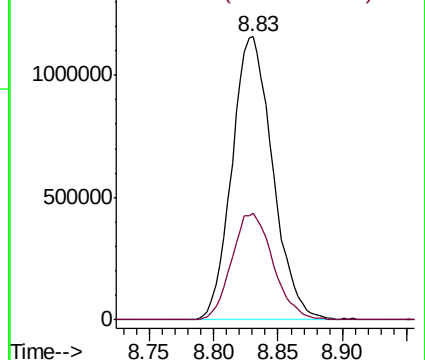


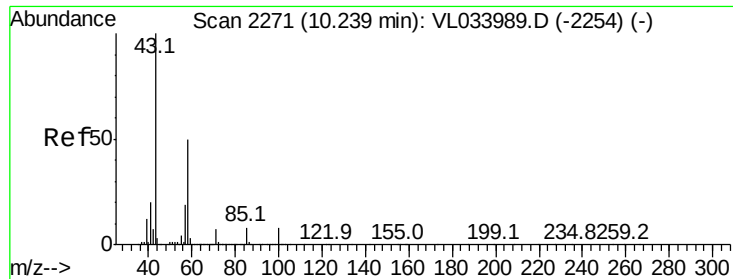
#50
4-Methyl-2-Pentanone
Concen: 11.490 ppbv
RT: 8.83 min Scan# 1833
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Tgt Ion: 43 Resp: 2534473
Ion Ratio Lower Upper
43 100
58 38.6 30.3 45.5



Abundance Ion 43.10 (42.80 to 43.80): VL0
1000000 Ion 58.10 (57.80 to 58.80): VL0





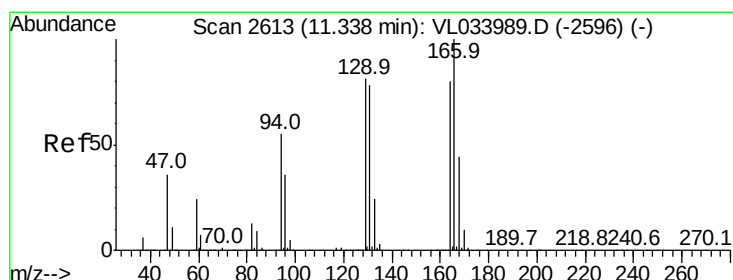
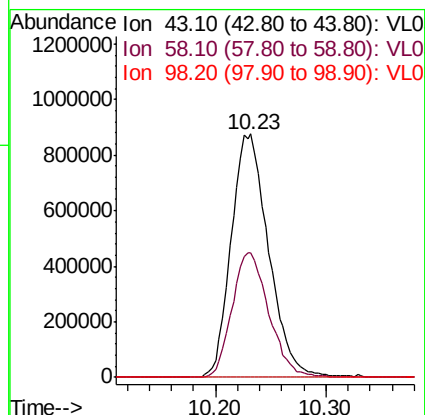
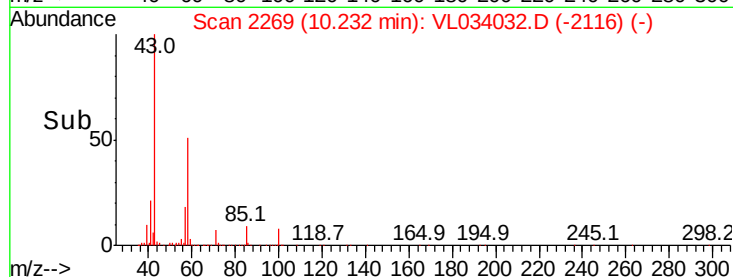
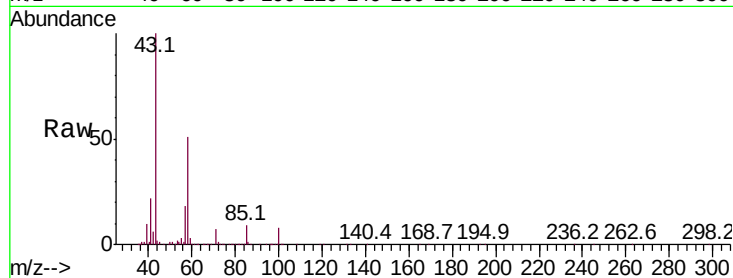
#51
2-Hexanone
Concen: 11.554 ppbv
RT: 10.23 min Scan# 2269
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

Tot Ion: 43 Resp: 2055278
Ion Ratio Lower Upper
43 100
58 50.7 41.0 61.4
98 0.1 0.2 0.2#

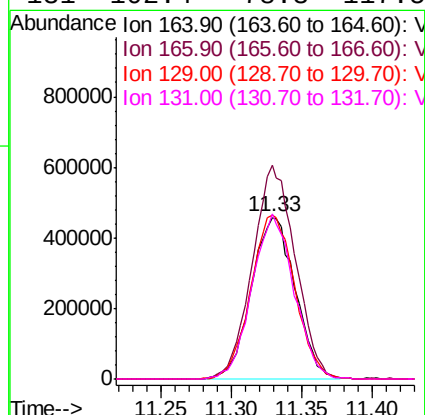
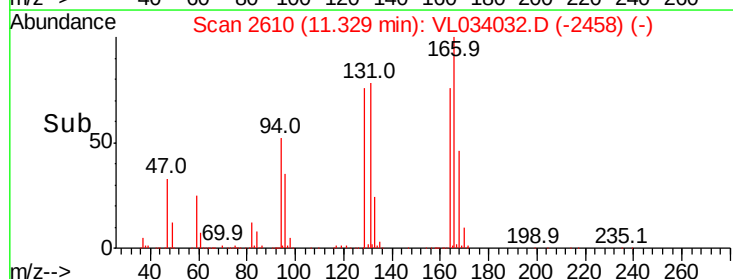
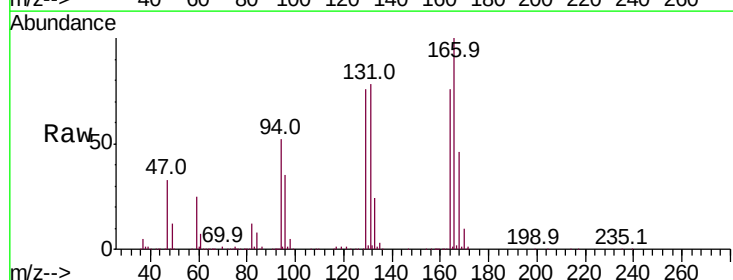
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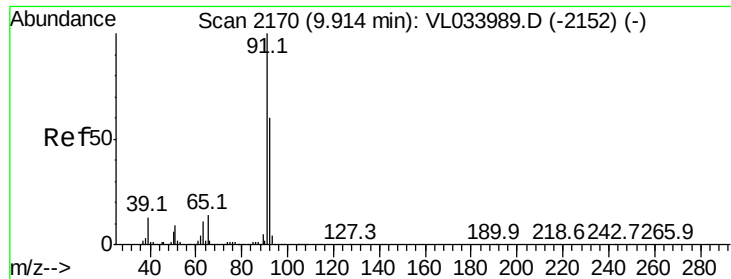
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#52
Tetrachloroethene
Concen: 10.469 ppbv
RT: 11.33 min Scan# 2610
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Tgt Ion: 164 Resp: 990263
Ion Ratio Lower Upper
164 100
166 132.0 100.2 150.2
129 101.0 81.0 121.6
131 102.4 78.3 117.5





#53

Toluene

Concen: 12.189 ppbv

RT: 9.90 min Scan# 2167

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

Tot Ion: 91 Resp: 3066483

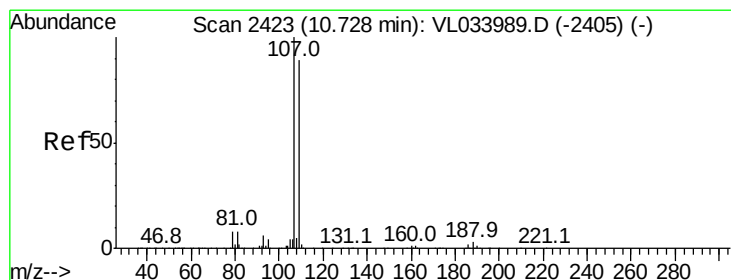
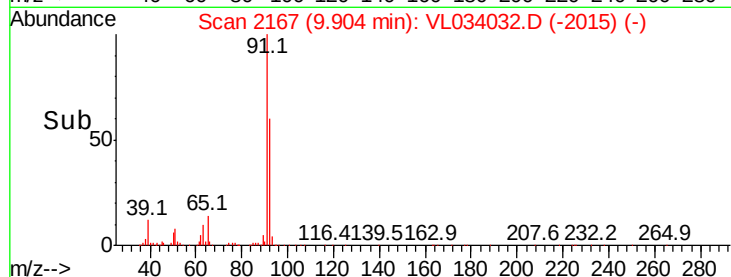
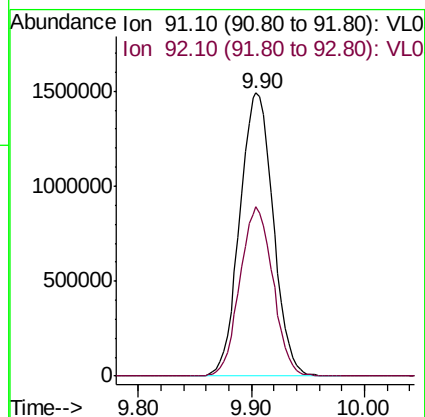
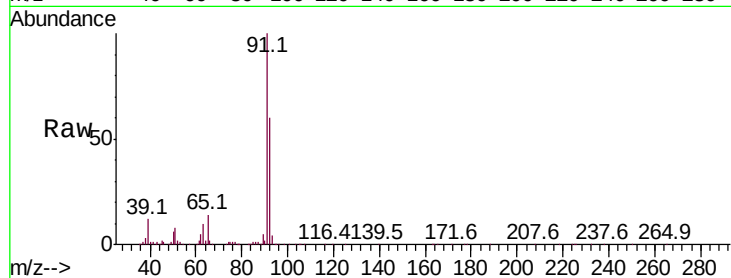
Ion Ratio Lower Upper

91 100

92 59.1 47.7 71.5

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#54

1,2-Dibromoethane

Concen: 11.016 ppbv

RT: 10.71 min Scan# 2419

Delta R.T. -0.01 min

Lab File: VL034032.D

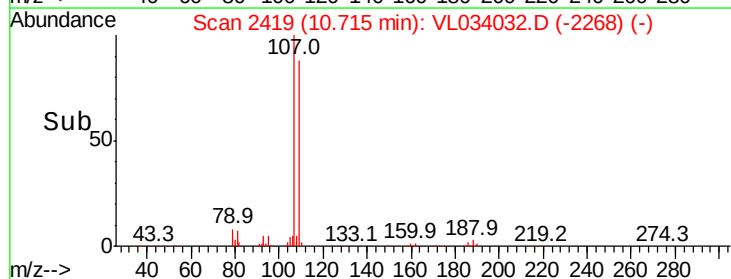
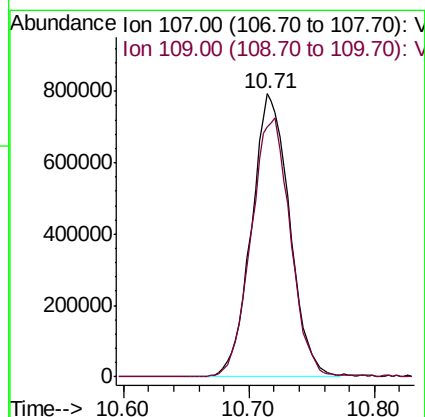
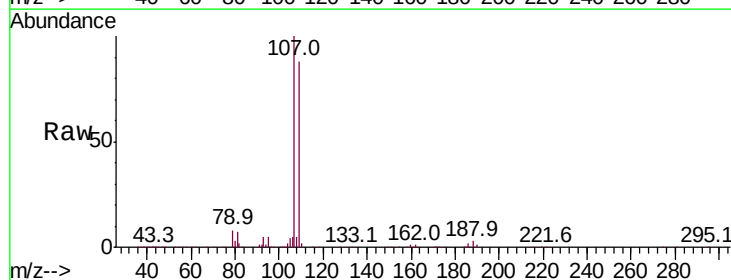
Acq: 12 Jul 2019 8:51

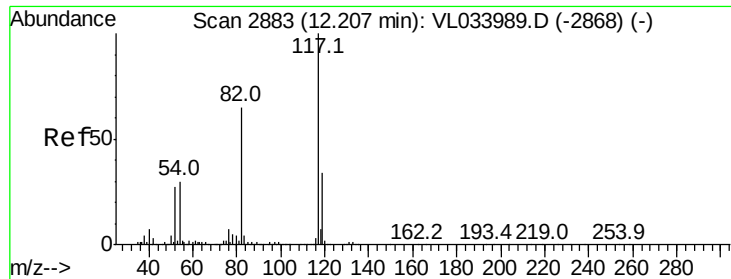
Tgt Ion: 107 Resp: 1670372

Ion Ratio Lower Upper

107 100

109 88.3 71.5 107.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.20 min Scan# 2880

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

Tot Ion:117 Resp: 2911912

Ion Ratio Lower Upper

117 100

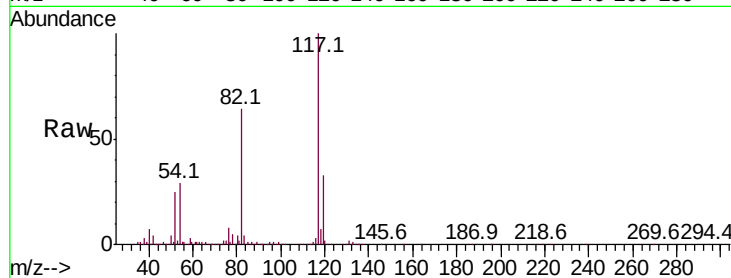
82 63.1 50.8 76.2

119 30.3 24.0 36.0

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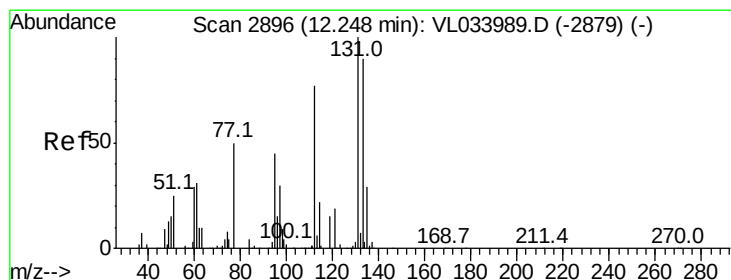
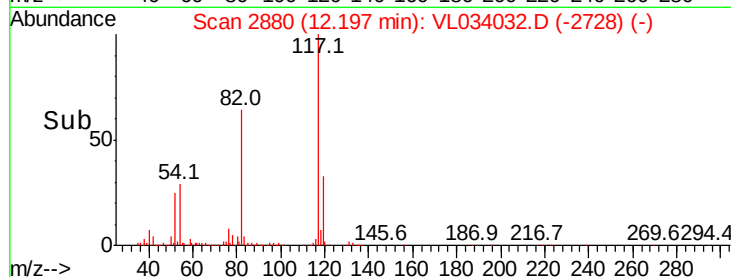
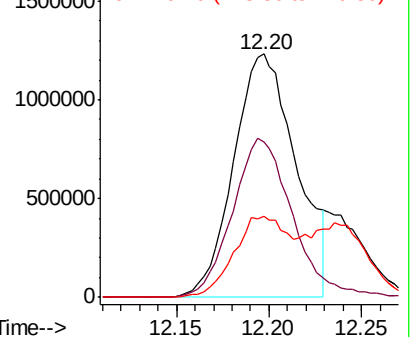
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 10.106 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

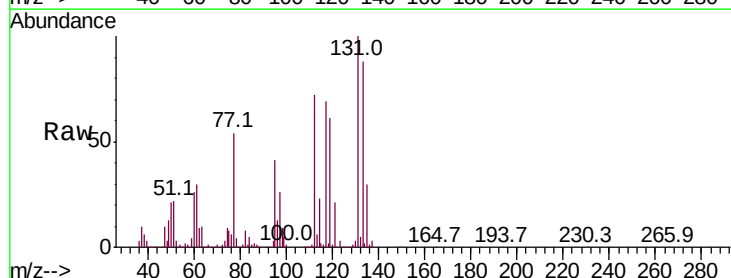
Tgt Ion:131 Resp: 1315228

Ion Ratio Lower Upper

131 100

133 96.6 76.2 114.2

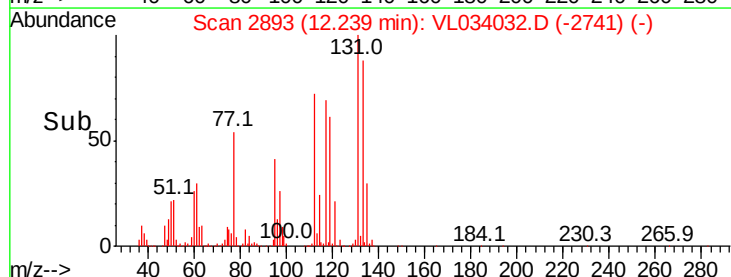
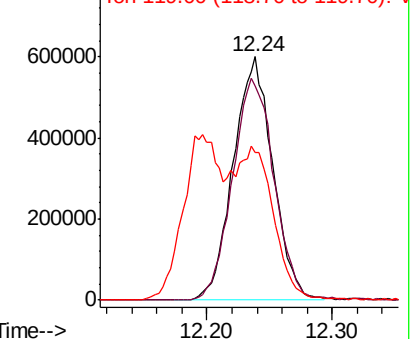
119 52.7 43.1 64.7

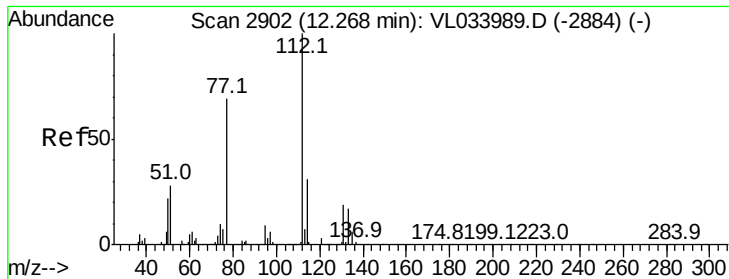


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 9.883 ppbv

RT: 12.26 min Scan# 2899

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

Tot Ion: 112 Resp: 2291148

Ion Ratio Lower Upper

112 100

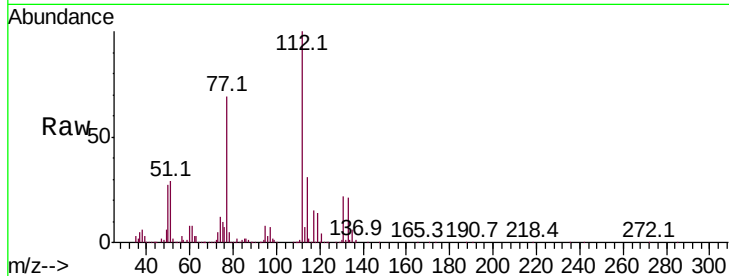
77 68.7 55.9 83.9

114 31.5 27.6 33.8

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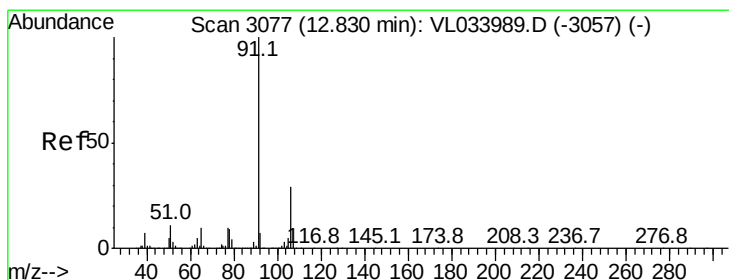
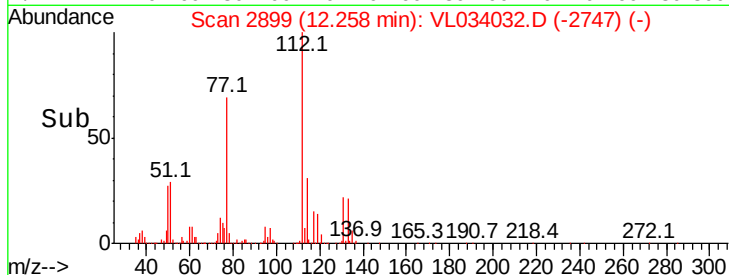
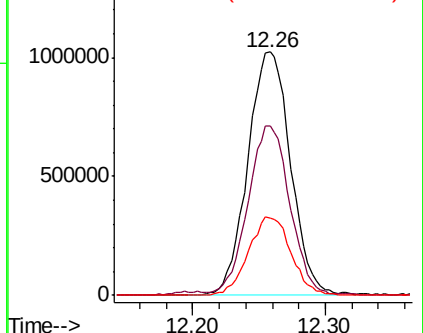
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.614 ppbv

RT: 12.82 min Scan# 3073

Delta R.T. -0.01 min

Lab File: VL034032.D

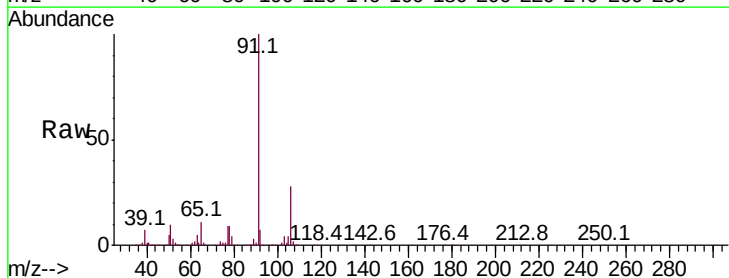
Acq: 12 Jul 2019 8:51

Tgt Ion: 91 Resp: 4067019

Ion Ratio Lower Upper

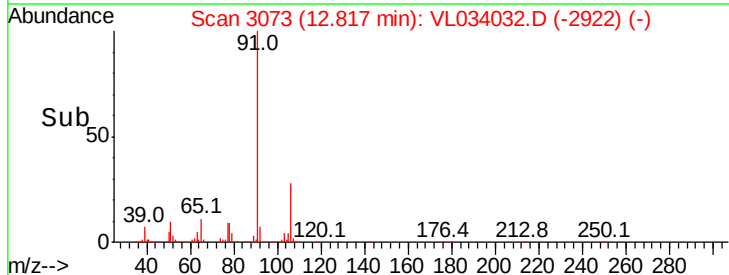
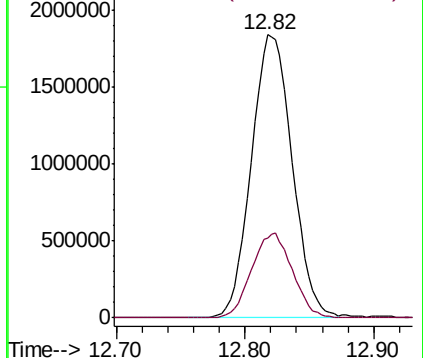
91 100

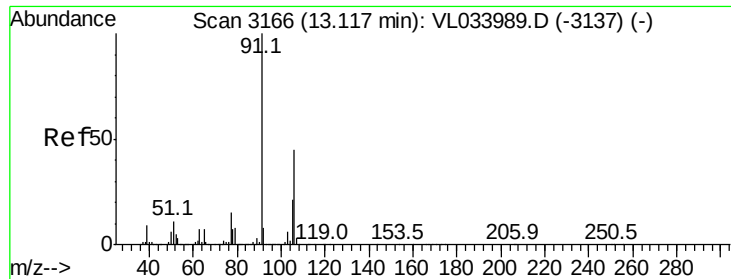
106 28.4 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





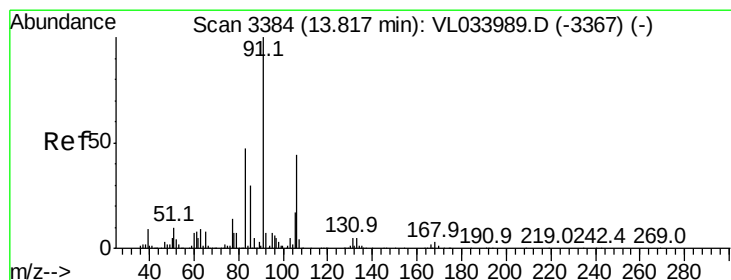
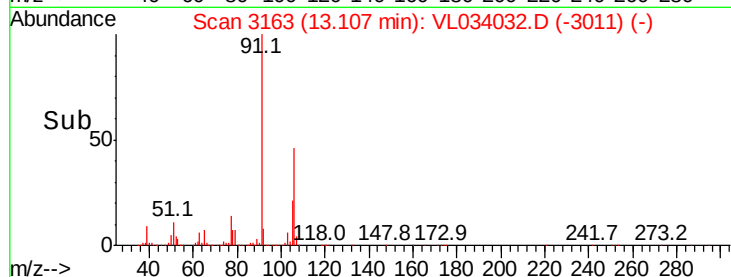
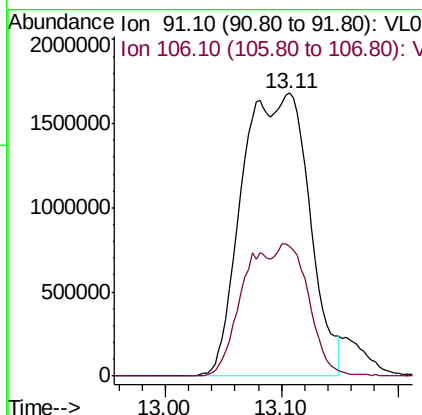
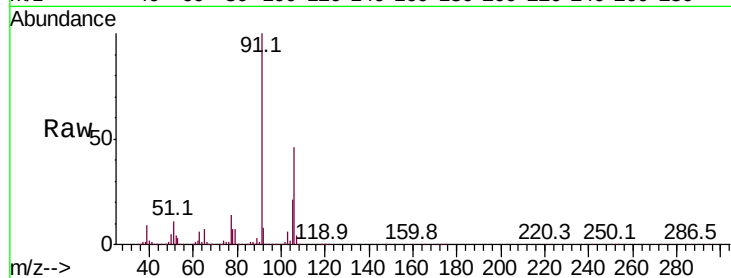
#59
m/p-Xylene
Concen: 21.198 ppbv m
RT: 13.11 min Scan# 3163
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

Tot Ion: 91 Resp: 6721102
Ion Ratio Lower Upper
91 100
106 45.2 35.7 53.5

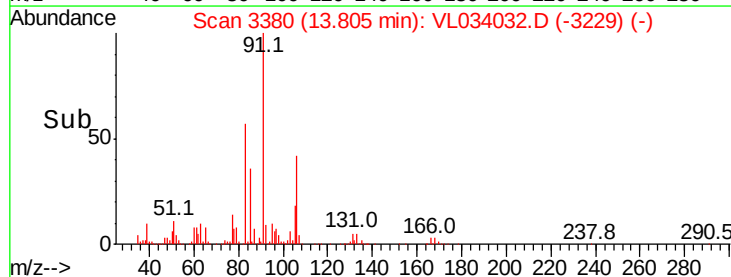
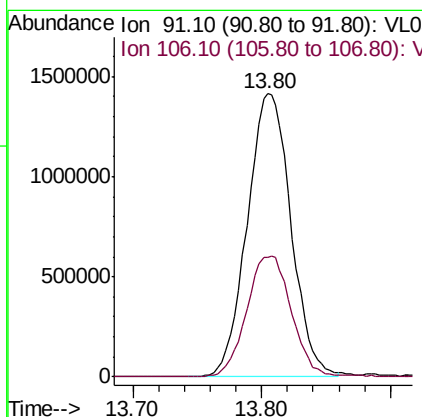
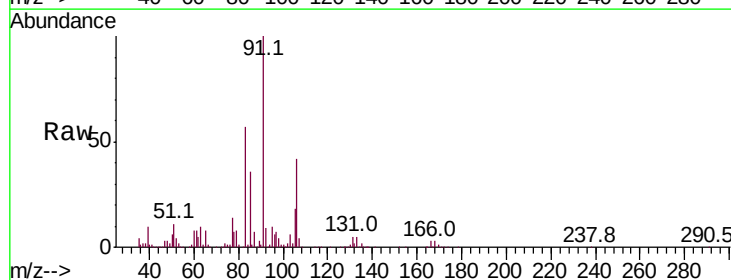
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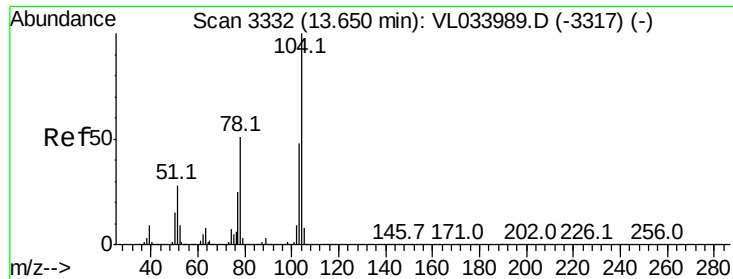
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#60
o-Xylene
Concen: 10.513 ppbv
RT: 13.80 min Scan# 3380
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Tgt Ion: 91 Resp: 3334643
Ion Ratio Lower Upper
91 100
106 44.3 21.9 65.7





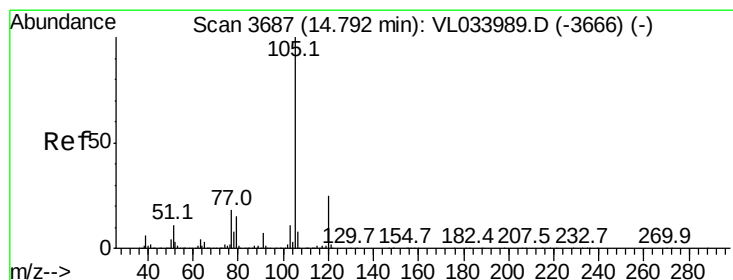
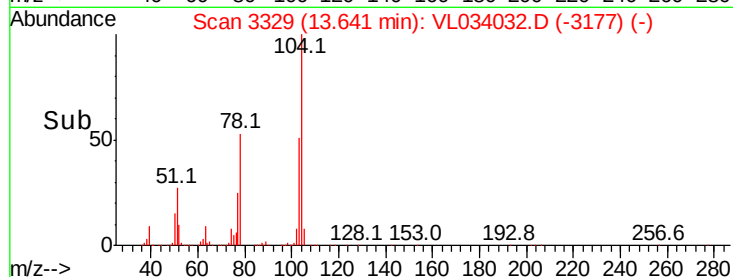
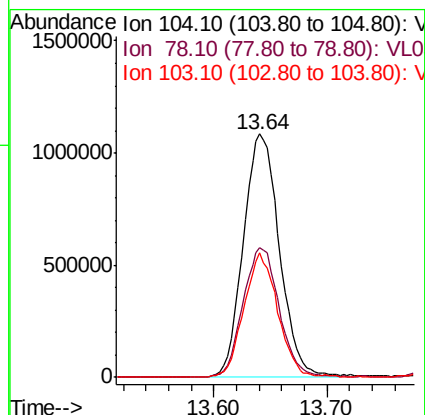
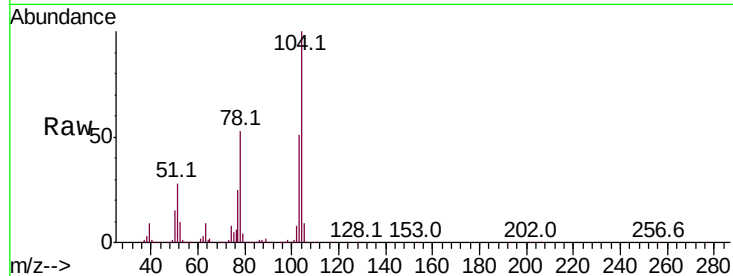
#61
Stvrene
Concen: 11.471 ppbv
RT: 13.64 min Scan# 3329
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.8	43.9	65.9
103	48.1	38.1	57.1

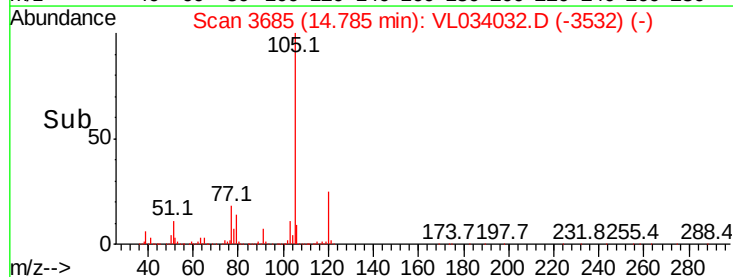
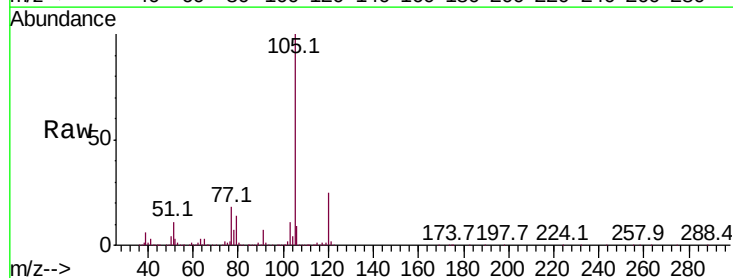
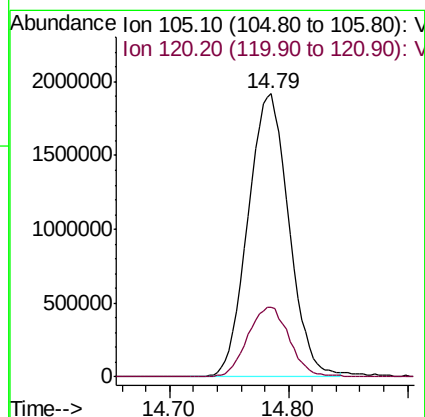
Manual Integrations
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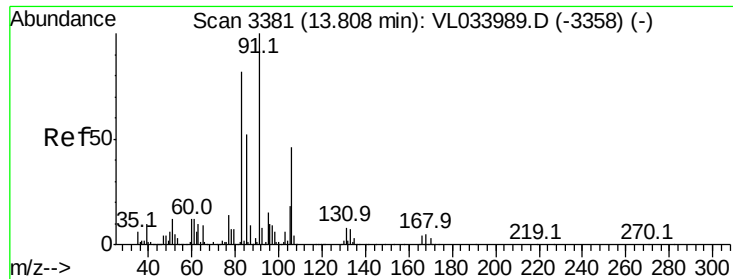
MMDadoda
7/15/2019 2:54:18 PM



#62
Isopropylbenzene
Concen: 9.364 ppbv
RT: 14.79 min Scan# 3685
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.4	30.6





#63

1,1,2,2-Tetrachloroethane

Concen: 9.529 ppbv

RT: 13.79 min Scan# 3377

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

Tot Ion: 83 Resp: 2339609

Ion Ratio Lower Upper

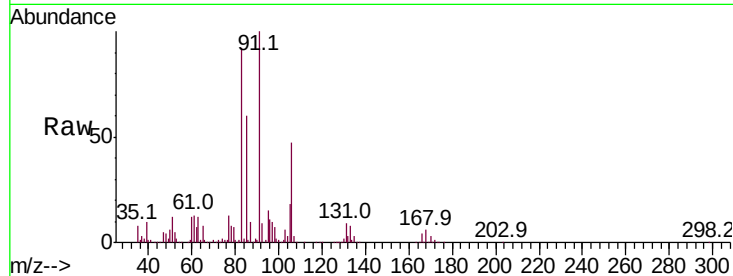
83 100

131 9.6 5.0 14.9

85 64.8 32.8 98.3

Manual Integrations
APPROVED

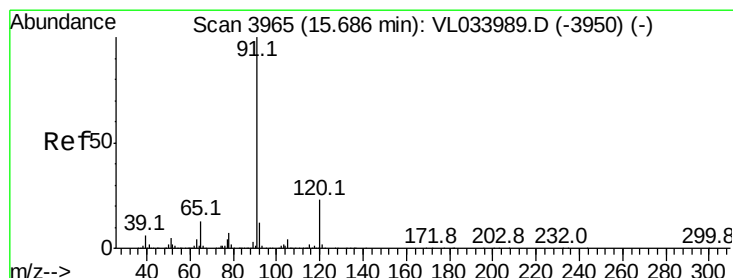
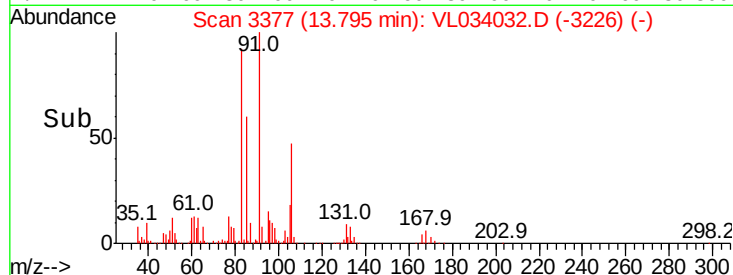
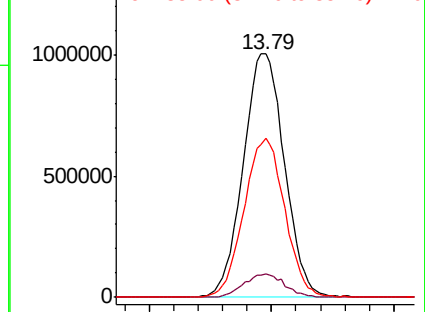
MMDadoda
7/15/2019 2:54:18 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.196 ppbv

RT: 15.68 min Scan# 3963

Delta R.T. -0.01 min

Lab File: VL034032.D

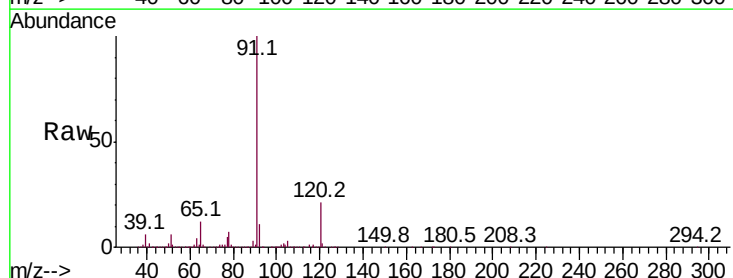
Acq: 12 Jul 2019 8:51

Tgt Ion:120 Resp: 1162728

Ion Ratio Lower Upper

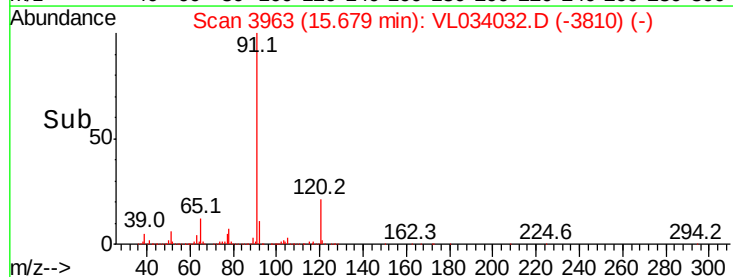
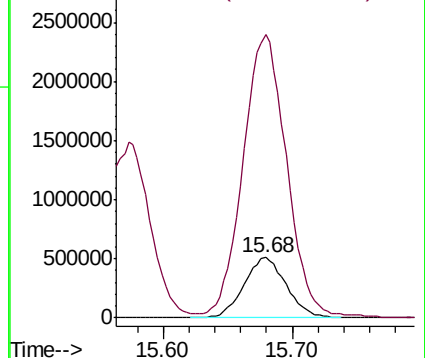
120 100

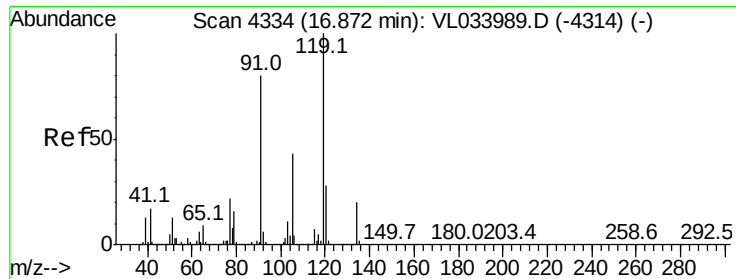
91 489.4 386.6 579.8



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 9.880 ppbv

RT: 16.87 min Scan# 4333

Delta R.T. -0.00 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

Tot Ion:119 Resp: 4096821

Ion Ratio Lower Upper

119 100

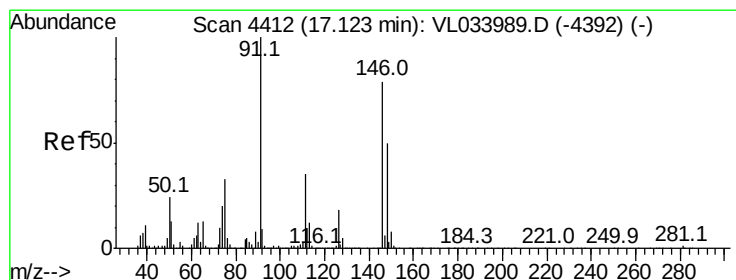
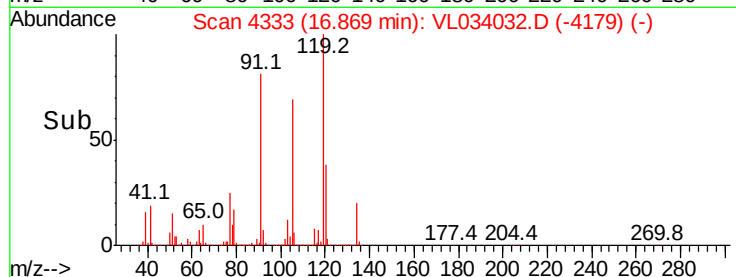
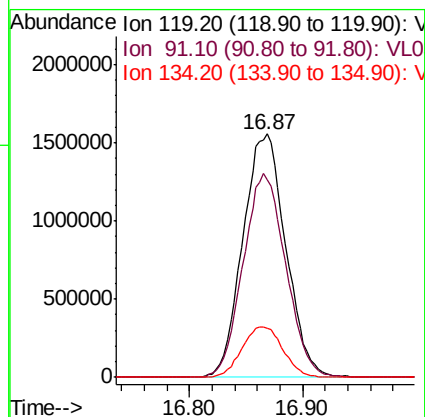
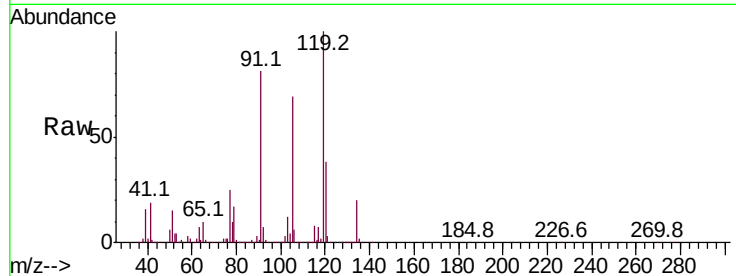
91 83.3 67.0 100.6

134 20.0 15.8 23.6

Manual Integrations
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#66

Benzyl Chloride

Concen: 7.933 ppbv

RT: 17.11 min Scan# 4408

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

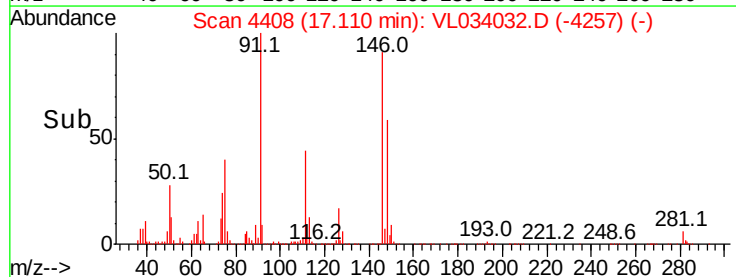
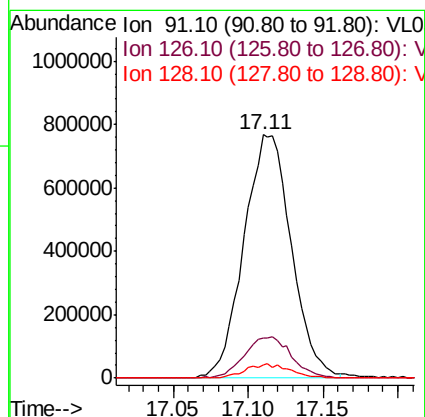
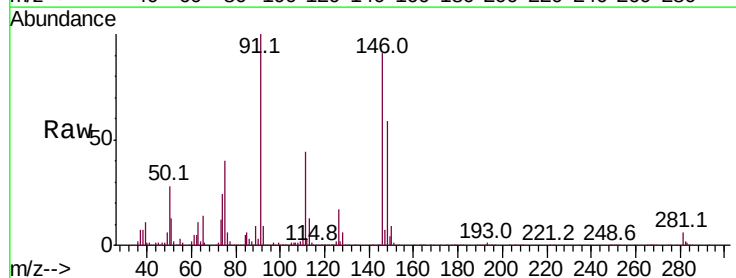
Tgt Ion: 91 Resp: 1682957

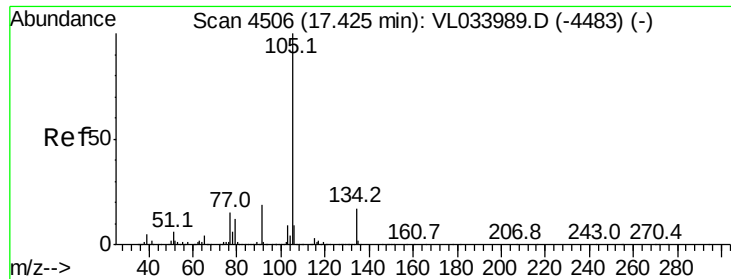
Ion Ratio Lower Upper

91 100

126 17.2 13.9 20.9

128 5.5 4.6 7.0





#67

sec-Butylbenzene

Concen: 9.980 ppbv

RT: 17.42 min Scan# 4503

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

Tot Ion:105 Resp: 5808261

Ion Ratio Lower Upper

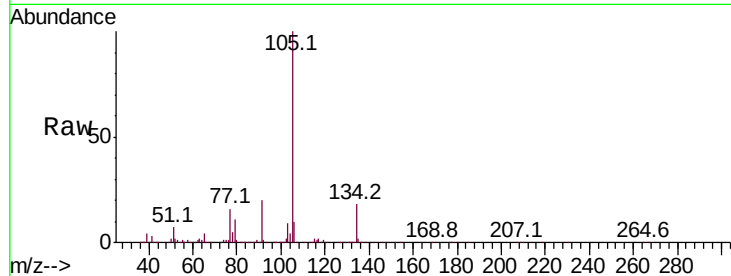
105 100

134 18.1 14.7 22.1

Manual Integrations
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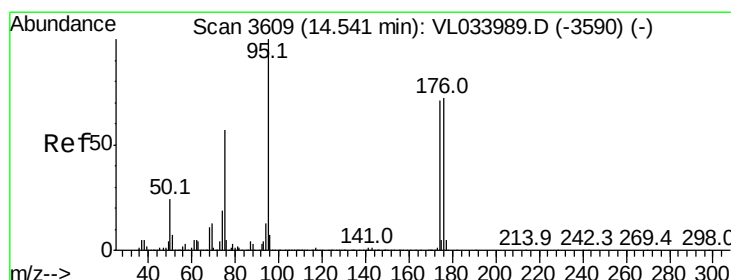
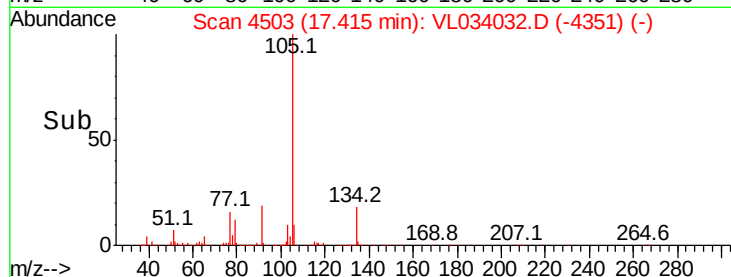
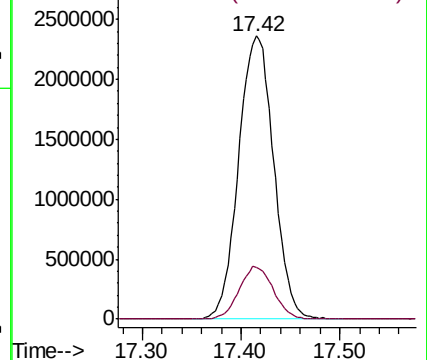
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 8.819 ppbv

RT: 14.53 min Scan# 3606

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

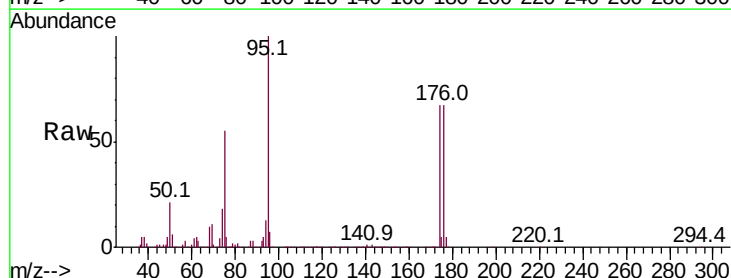
Tgt Ion: 95 Resp: 2190191

Ion Ratio Lower Upper

95 100

174 72.2 60.5 90.7

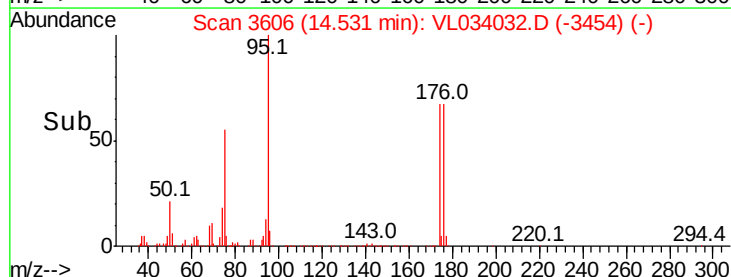
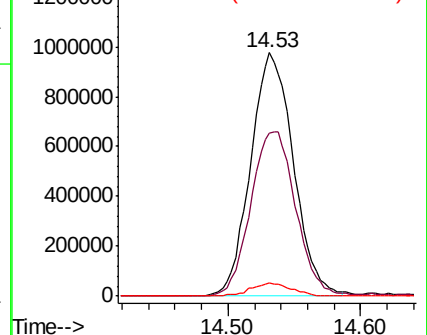
175 5.2 4.0 6.0

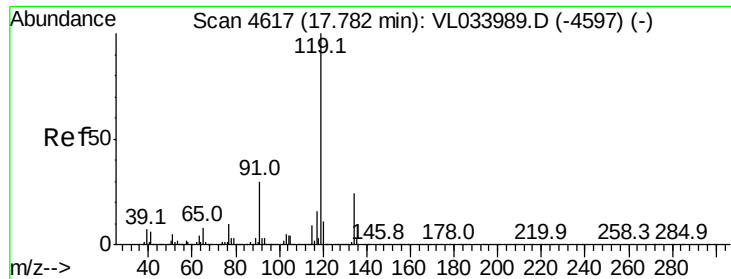


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





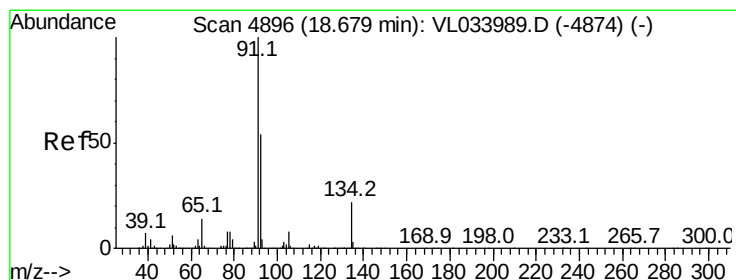
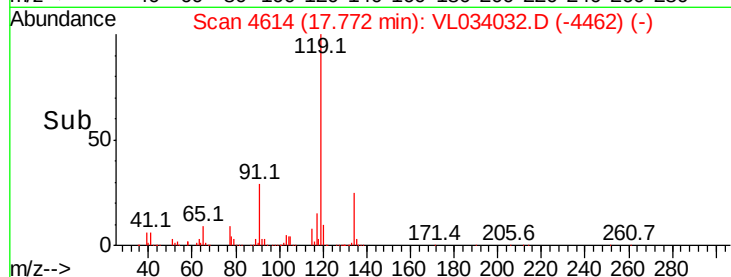
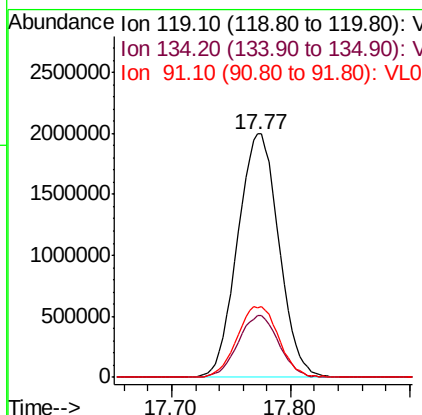
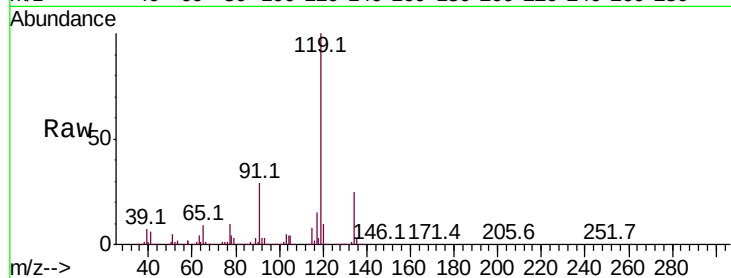
#69
 p-Isopropyltoluene
 Concen: 9.948 ppbv
 RT: 17.77 min Scan# 4614
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.1	30.1
91	29.6	23.6	35.4

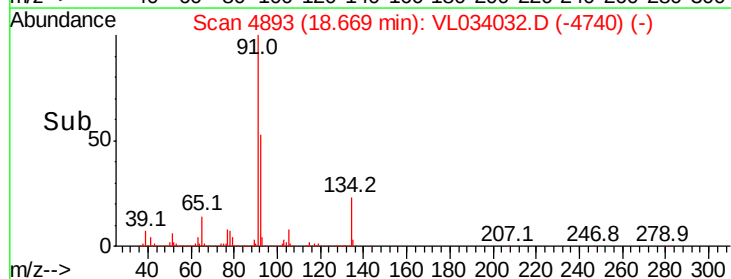
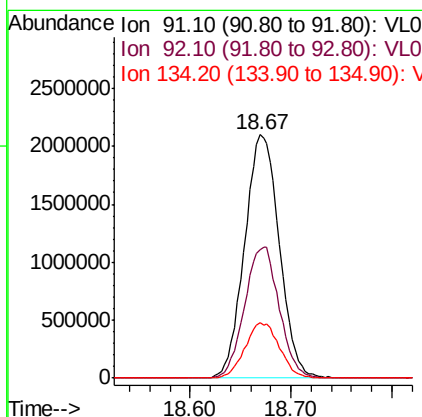
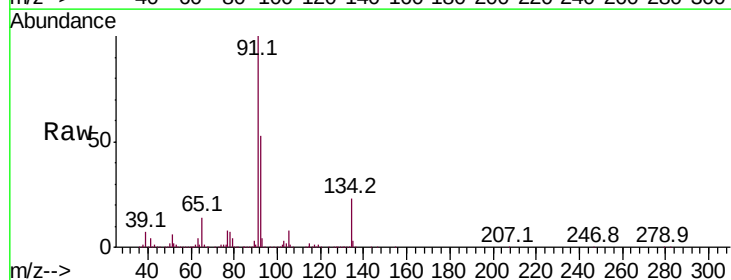
Manual Integrations
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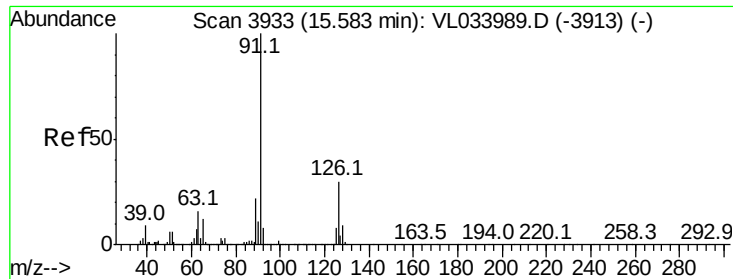
MMDadoda
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#70
 n-Butylbenzene
 Concen: 9.902 ppbv
 RT: 18.67 min Scan# 4893
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.7	42.0	63.0
134	22.6	17.9	26.9





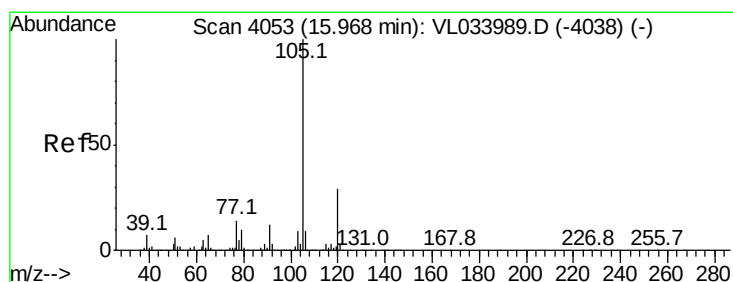
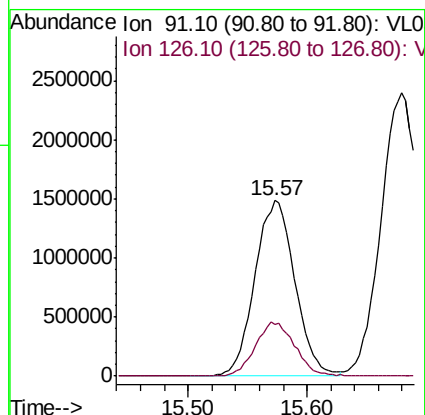
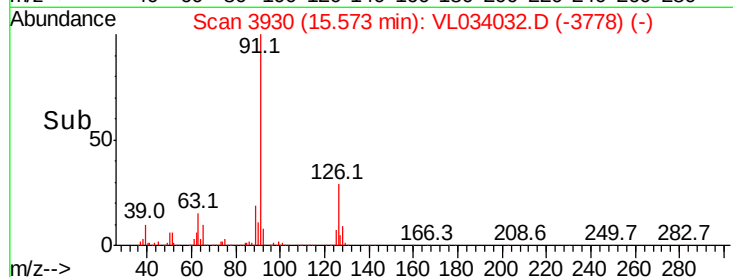
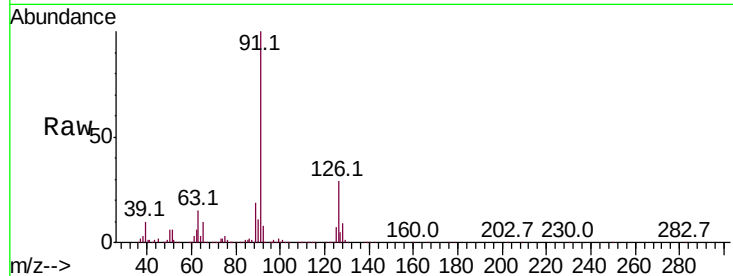
#71
2-Chlorotoluene
Concen: 9.708 ppbv
RT: 15.57 min Scan# 3930
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

Tot Ion: 91 Resp: 3464116
Ion Ratio Lower Upper
91 100
126 30.7 12.3 49.3

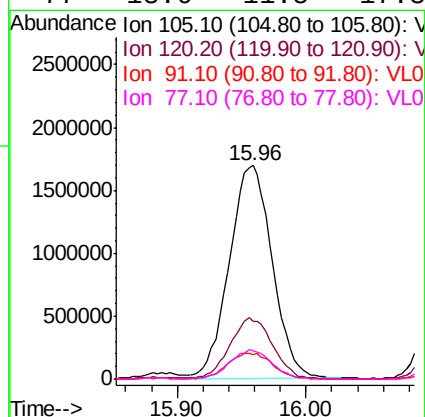
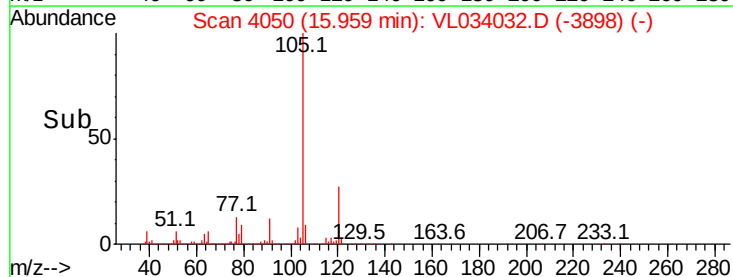
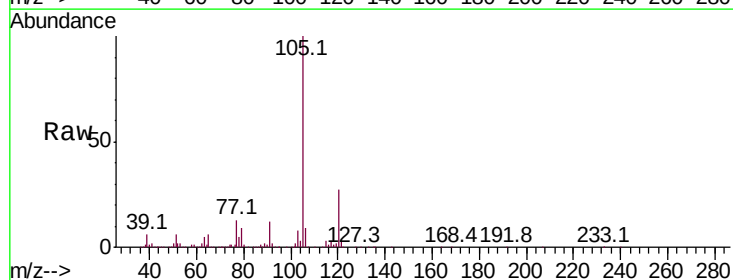
Manual Integrations
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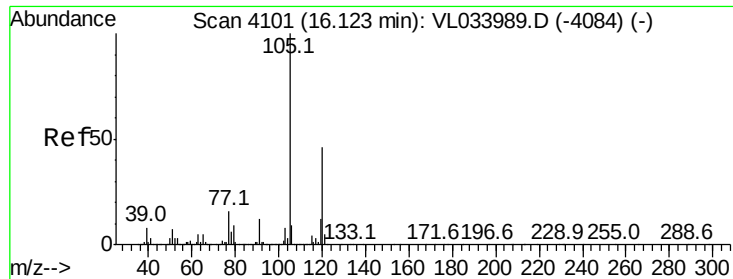
MMDadoda
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#72
4-Ethyltoluene
Concen: 9.575 ppbv
RT: 15.96 min Scan# 4050
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Tgt Ion: 105 Resp: 3900338
Ion Ratio Lower Upper
105 100
120 28.6 24.1 36.1
91 12.9 10.6 16.0
77 13.6 11.5 17.3





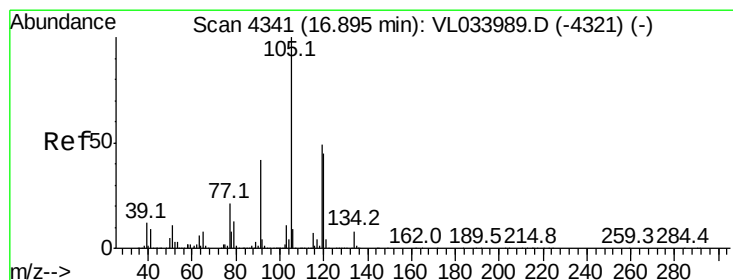
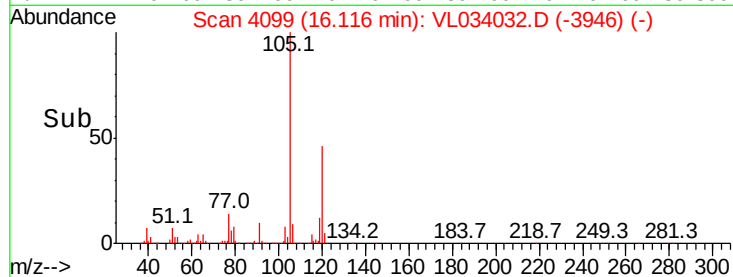
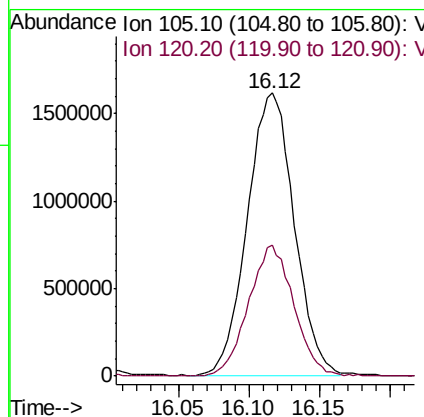
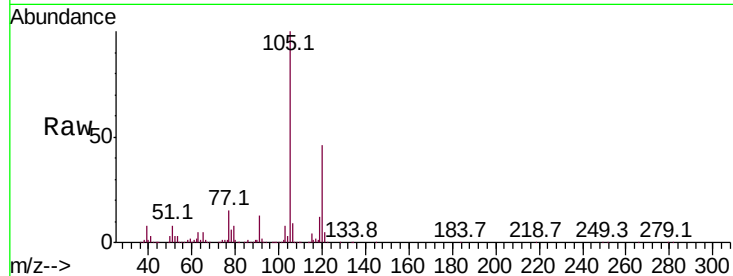
#73
 1,3,5-Trimethylbenzene
 Concen: 9.896 ppbv
 RT: 16.12 min Scan# 4099
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

Tot Ion:105 Resp: 3750714
 Ion Ratio Lower Upper
 105 100
 120 46.3 36.4 54.6

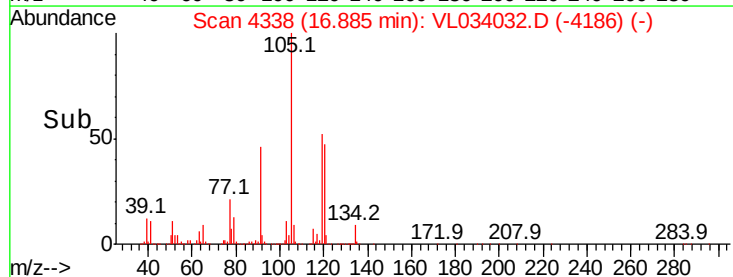
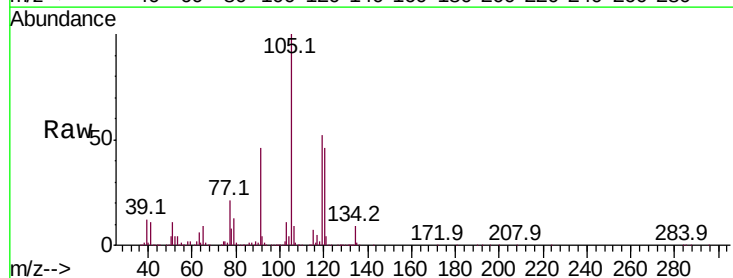
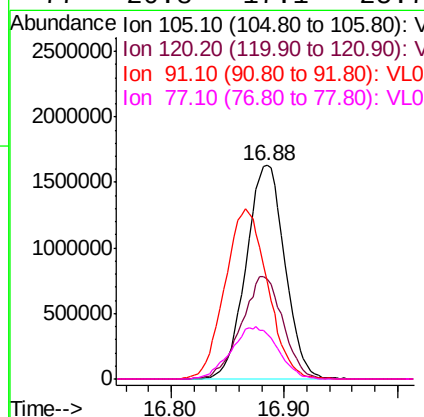
Manual Integrations
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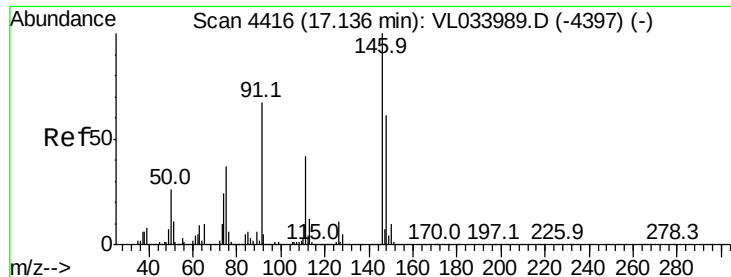
MMDadoda
 7/15/2019 2:54:18 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 9.238 ppbv
 RT: 16.88 min Scan# 4338
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Tgt Ion:105 Resp: 3877749
 Ion Ratio Lower Upper
 105 100
 120 46.3 36.2 54.2
 91 45.3 34.3 51.5
 77 20.8 17.1 25.7





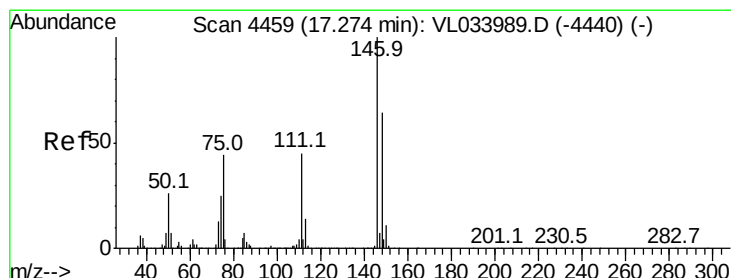
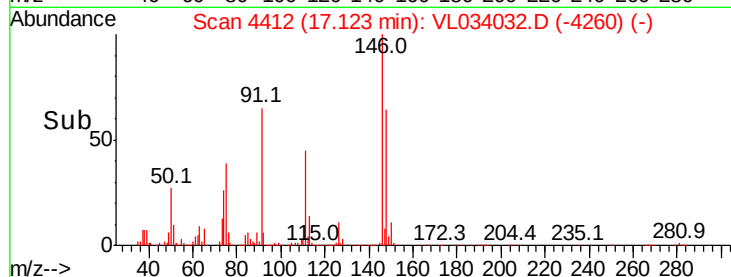
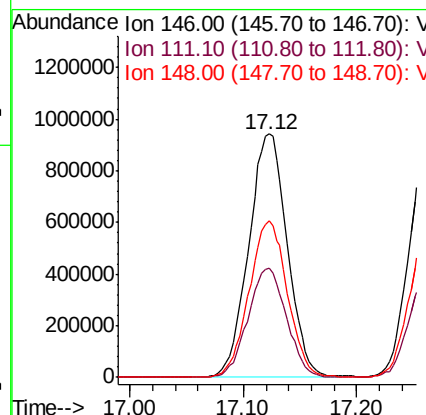
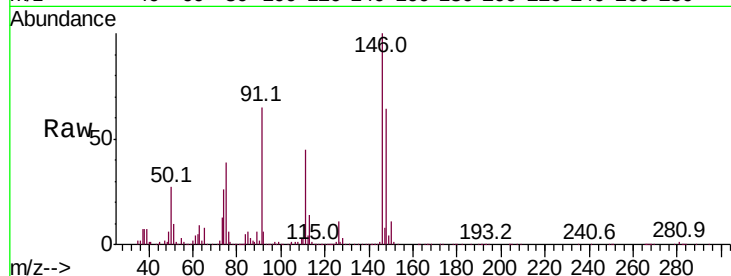
#75
 1,3-Dichlorobenzene
 Concen: 8.386 ppbv
 RT: 17.12 min Scan# 4412
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.8	22.3	66.9
148	63.8	32.0	96.2

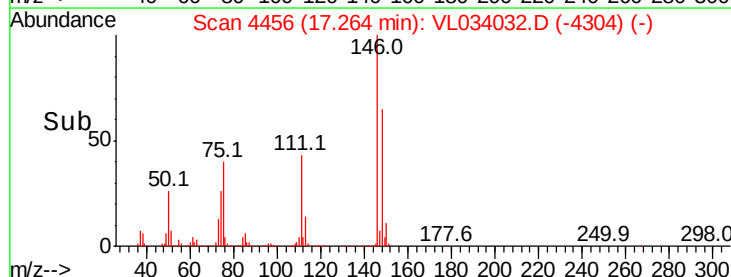
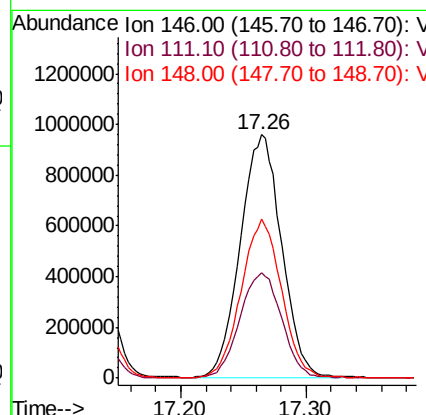
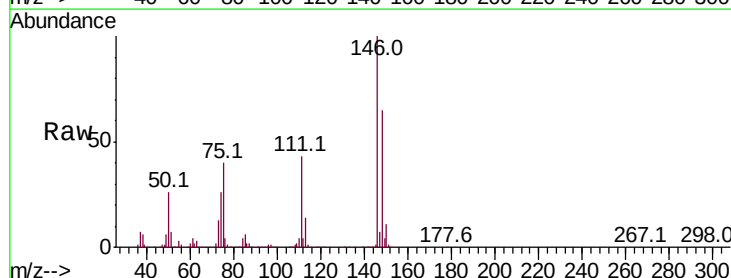
Manual Integrations
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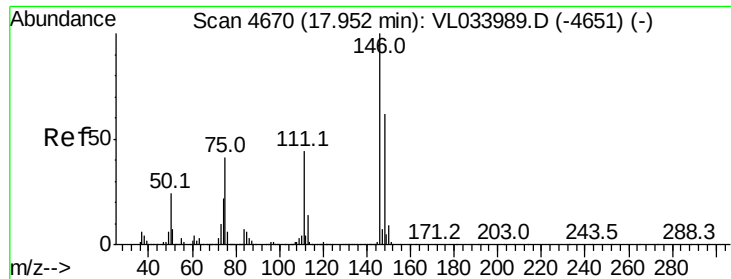
MMDadoda
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#76
 1,4-Dichlorobenzene
 Concen: 8.731 ppbv
 RT: 17.26 min Scan# 4456
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.2	21.9	65.5
148	64.2	32.5	97.5





#77

1,2-Dichlorobenzene

Concen: 8.902 ppbv

RT: 17.94 min Scan# 4667

Delta R.T. -0.01 min

Lab File: VL034032.D

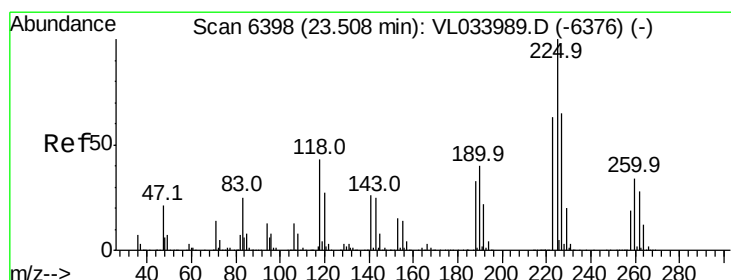
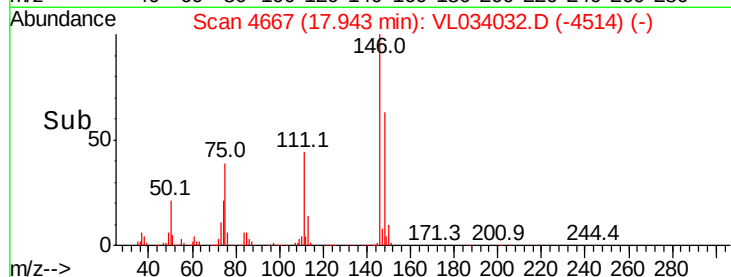
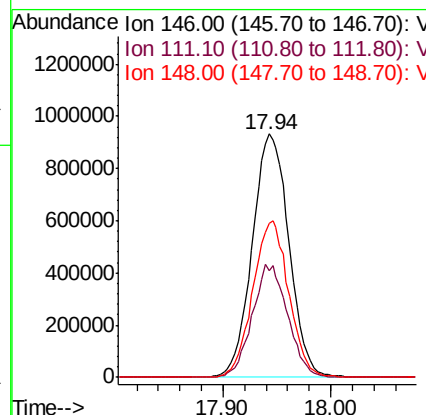
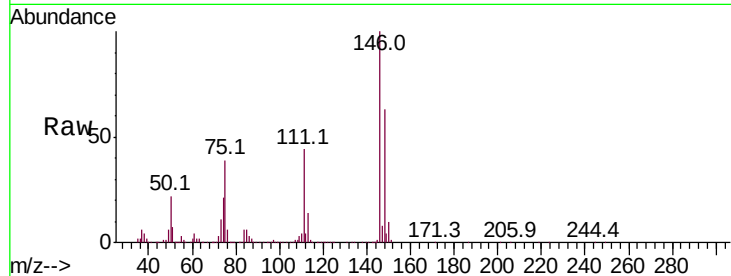
Acq: 12 Jul 2019 8:51

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.8	22.7	68.1
148	63.5	32.1	96.3

Manual Integrations
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7/15/2019 2:54:18 PM



#78

Hexachloro-1,3-Butadiene

Concen: 7.241 ppbv

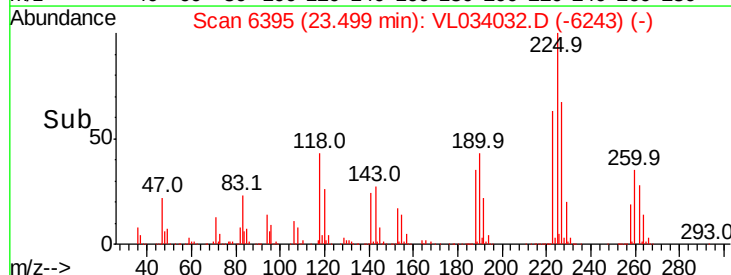
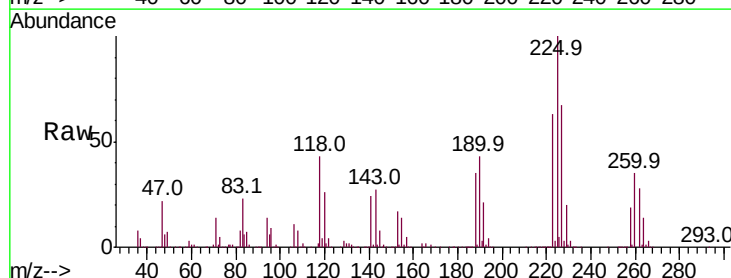
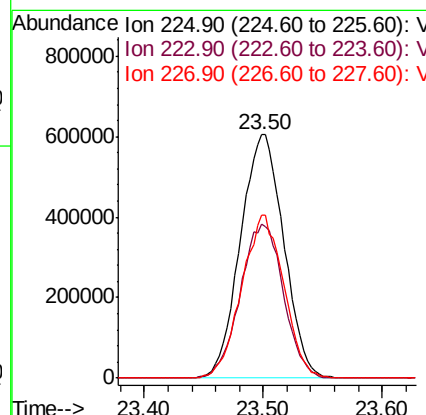
RT: 23.50 min Scan# 6395

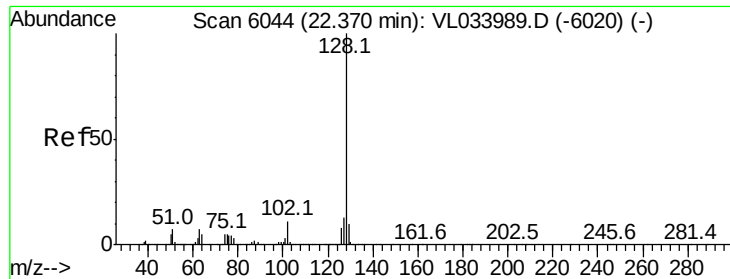
Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.2	51.5	77.3
227	65.2	52.1	78.1





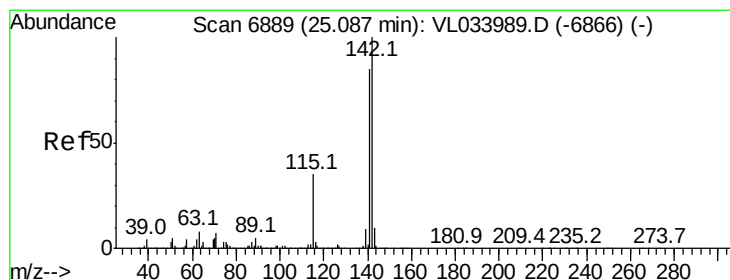
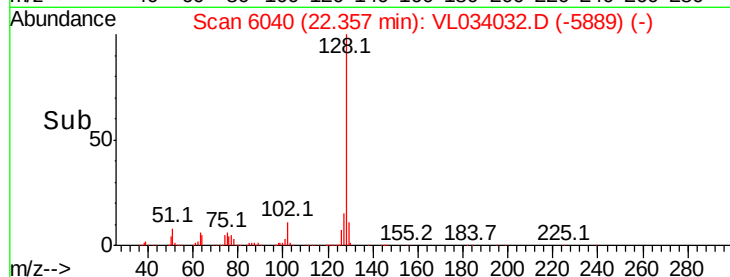
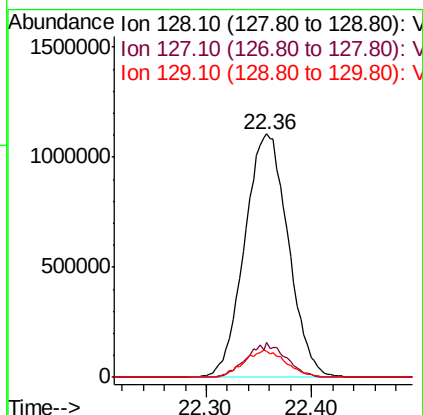
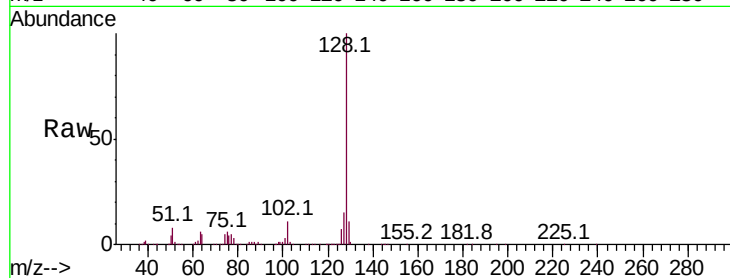
#79
Naphthalene
Concen: 8.992 ppbv
RT: 22.36 min Scan# 6040
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.5	10.6	15.8
129	10.5	8.3	12.5

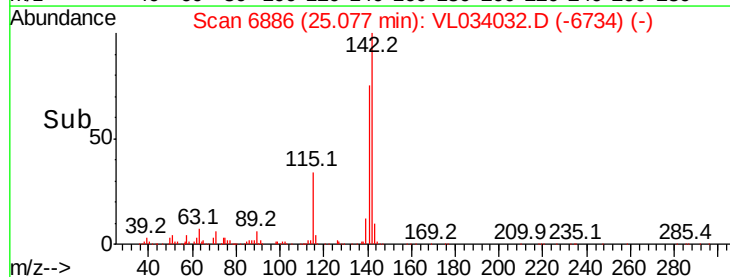
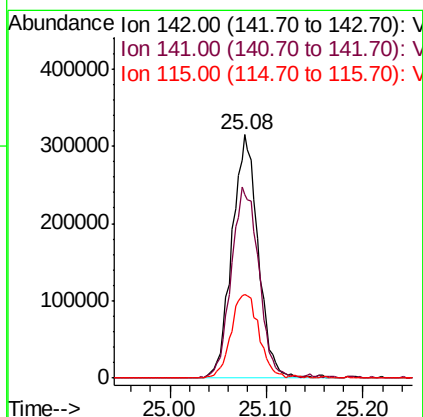
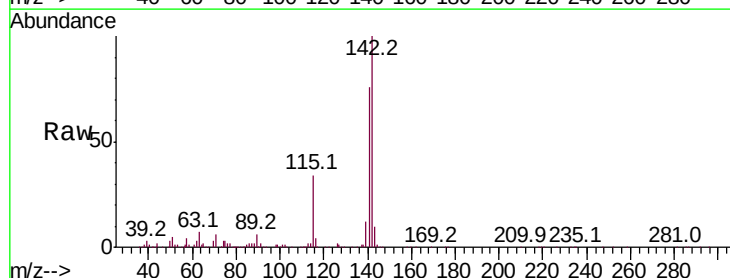
Manual Integrations
APPROVED

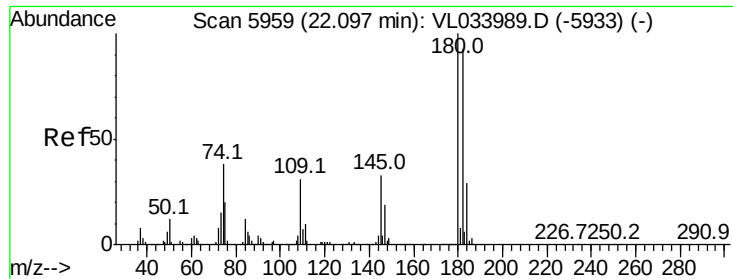
MMDadoda
7/15/2019 2:54:18 PM



#80
Naphthalene, 2-methyl-
Concen: 4.621 ppbv
RT: 25.08 min Scan# 6886
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Tgt Ion	Ratio	Lower	Upper
142	100		
141	82.0	68.2	102.2
115	36.8	29.9	44.9





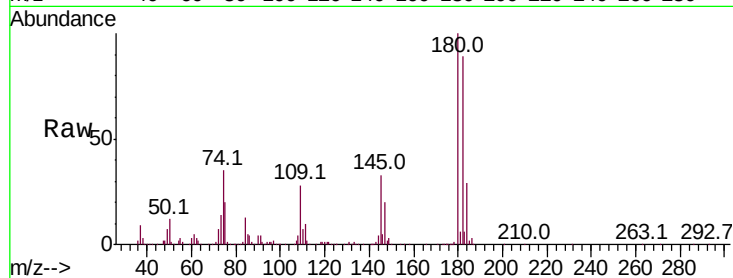
#81
 1,2,4-Trichlorobenzene
 Concen: 8.203 ppbv
 RT: 22.08 min Scan# 5954
 Delta R.T. -0.02 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.6	114.8
184	30.9	24.6	36.8

Manual Integrations
 APPROVED

MMDadoda
 7/15/2019 2:54:18 PM



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

