

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111919\
 Data File : VL034399.D
 Acq On : 20 Nov 2019 4:06
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 3:54:33 PM

Quant Time: Nov 20 06:24:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 20
 QLast Update : Wed Nov 20 03:30:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	981318	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1937534	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2100349	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1734518	9.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	1851103	10.427	ppbv 99
3) Chlorodifluoromethane	2.96	51	1109710	9.063	ppbv 100
4) Chloromethane	3.11	50	665709	9.218	ppbv 99
5) Vinyl Chloride	3.23	62	608483	8.993	ppbv 92
6) Bromomethane	3.45	94	326061	9.577	ppbv 89
7) Chloroethane	3.54	64	231189	9.413	ppbv 96
8) Dichlorotetrafluoroethane	3.16	85	1421873	8.919	ppbv 99
9) Propene	2.98	41	496958	9.142	ppbv 99
10) Heptane	8.16	43	1323076	9.432	ppbv 99
11) Trichlorofluoromethane	3.94	101	1604992	9.084	ppbv 95
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1066104	9.086	ppbv 100
13) Ethanol	3.59	45	116970	7.347	ppbv 94
14) Bromoethene	3.73	108	452318	9.481	ppbv 98
15) Acetone	3.83	43	1247578	8.878	ppbv 100
16) 1,3-Butadiene	3.31	39	578598	9.453	ppbv 100
17) tert-Butyl alcohol	4.29	59	1101613	9.326	ppbv 100
18) 1,1-Dichloroethene	4.28	96	482568	9.402	ppbv 95
19) Isopropyl Alcohol	3.96	45	920750	9.009	ppbv 99
20) Methylene Chloride	4.34	84	405958	8.147	ppbv 95
21) Allyl Chloride	4.41	41	828042	9.834	ppbv 97
22) trans-1,2-Dichloroethene	4.89	96	490780	9.486	ppbv 96
23) Vinyl Acetate	5.08	43	1798333	9.797	ppbv 98
24) 1,1-Dichloroethane	5.01	63	1286850	9.126	ppbv 99
25) Ethyl Acetate	5.69	43	2275684	9.075	ppbv 100
26) Hexane	5.70	57	953127	8.846	ppbv 96
27) Carbon Disulfide	4.55	76	1221847	10.411	ppbv 99
28) Methyl tert-Butyl Ether	5.03	73	1637199	9.164	ppbv 99
29) Chloroform	5.77	83	1594584	9.139	ppbv 97
30) Cyclohexane	7.16	84	774590m	9.509	ppbv
31) cis-1,2-Dichloroethene	5.56	61	1049381	9.425	ppbv 100
32) 1,1,1-Trichloroethane	6.53	97	1569186	9.592	ppbv 99
34) 2-Butanone	5.25	43	1531006	9.600	ppbv 99
35) Carbon Tetrachloride	7.05	117	1658102	9.953	ppbv 97
36) Benzene	6.92	78	1833321	9.466	ppbv 96
37) 1,2-Dichloroethane	6.33	62	1363707	9.478	ppbv 100
38) Trichloroethene	7.87	130	719259	9.049	ppbv 96
39) 1,2-Dichloropropane	7.65	63	775031	9.439	ppbv 90
40) 1,4-Dioxane	7.86	88	319921	9.815	ppbv # 95
41) Tetrahydrofuran	6.06	42	867100	9.693	ppbv 98
42) Bromodichloromethane	7.83	83	1749970	9.725	ppbv 99
43) Methyl Methacrylate	8.05	69	797997	9.934	ppbv 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.90	57	3344399	9.448	ppbv	99
45) t-1,3-Dichloropropene	9.32	75	1106220	10.737	ppbv	98
46) cis-1,3-Dichloropropene	8.74	75	1217043	10.517	ppbv	99
47) 1,1,2-Trichloroethane	9.52	97	778999	9.385	ppbv	98
48) Dibromochloromethane	10.36	129	1426140	10.007	ppbv	100
49) Bromoform	13.10	173	1244895	9.785	ppbv	100
50) 4-Methyl-2-Pentanone	8.78	43	2270178	9.838	ppbv	99
51) 2-Hexanone	10.18	43	1902307	9.842	ppbv #	98
52) Tetrachloroethene	11.28	164	697541	8.324	ppbv	95
53) Toluene	9.85	91	2140576	9.730	ppbv	100
54) 1,2-Dibromoethane	10.66	107	1191589	9.364	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.18	131	933619	9.087	ppbv	94
57) Chlorobenzene	12.20	112	1626384	8.566	ppbv	99
58) Ethyl Benzene	12.76	91	2931819	8.995	ppbv	97
59) m/p-Xylene	13.05	91	4828652m	17.138	ppbv	
60) o-Xylene	13.75	91	2423402	8.699	ppbv	99
61) Styrene	13.59	104	1803867	8.979	ppbv	99
62) Isopropylbenzene	14.73	105	3156555	8.568	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.74	83	1641782	7.840	ppbv	100
64) n-propylbenzene	15.63	120	802465	8.387	ppbv	93
65) tert-Butylbenzene	16.82	119	2757548	8.332	ppbv	100
66) Benzyl Chloride	17.06	91	1274882	10.014	ppbv	100
67) sec-Butylbenzene	17.36	105	3858522	8.335	ppbv	99
69) p-Isopropyltoluene	17.72	119	3206235	8.345	ppbv	99
70) n-Butylbenzene	18.62	91	3489163	8.440	ppbv	99
71) 2-Chlorotoluene	15.52	91	2462874	8.384	ppbv	100
72) 4-Ethyltoluene	15.90	105	2773320	8.616	ppbv	99
73) 1,3,5-Trimethylbenzene	16.06	105	2629865	8.347	ppbv	95
74) 1,2,4-Trimethylbenzene	16.83	105	2742404	8.194	ppbv #	91
75) 1,3-Dichlorobenzene	17.07	146	1544949	8.031	ppbv	99
76) 1,4-Dichlorobenzene	17.21	146	1542212	8.256	ppbv	99
77) 1,2-Dichlorobenzene	17.89	146	1498737	8.066	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	1565964m	9.809	ppbv	
79) Naphthalene	22.29	128	2900500	9.997	ppbv	99
80) Naphthalene, 2-methyl-	25.03	142	1481455	11.308	ppbv	99
81) 1,2,4-Trichlorobenzene	22.02	180	1714486m	9.619	ppbv	

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

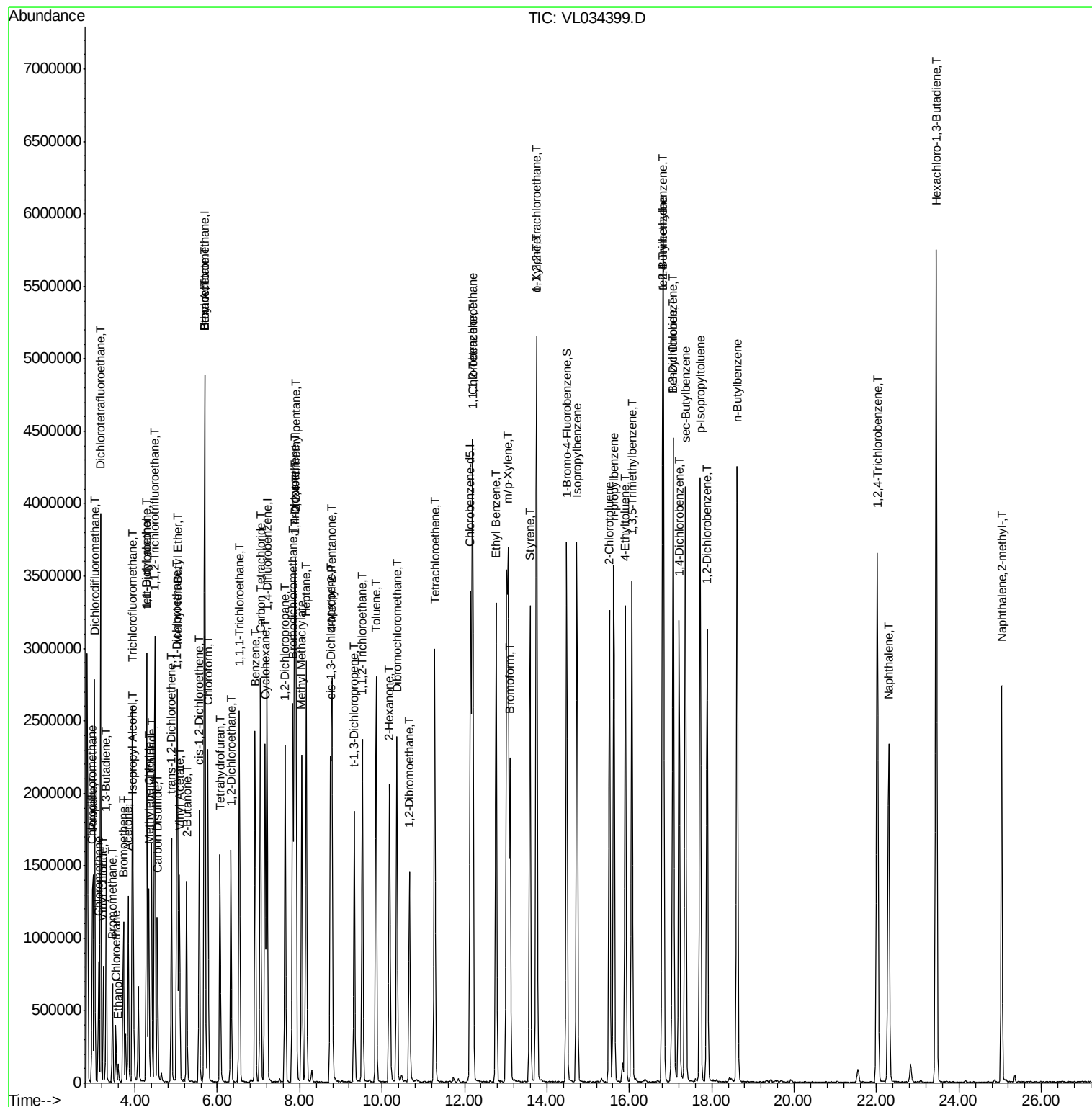
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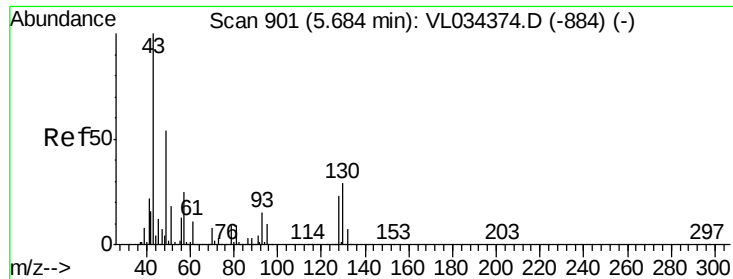
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

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QLast Update : Wed Nov 20 03:30:54 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA_L

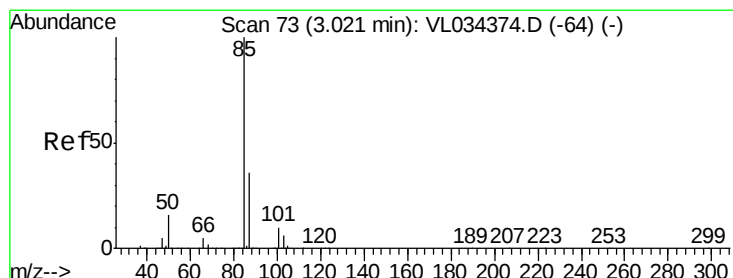
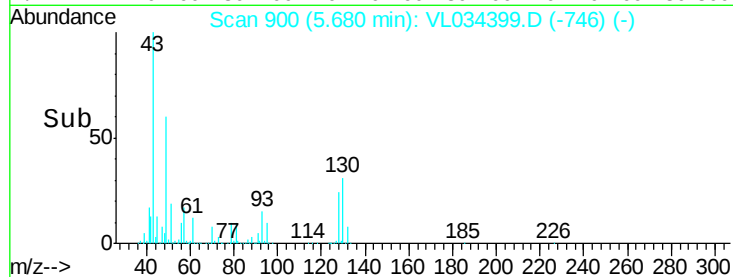
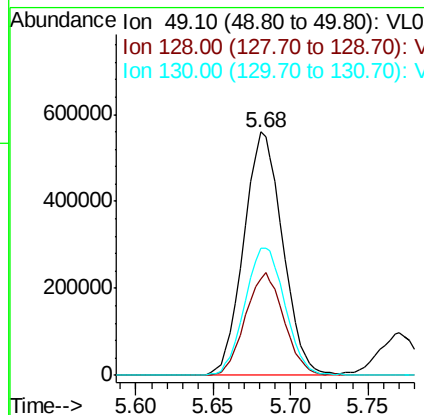
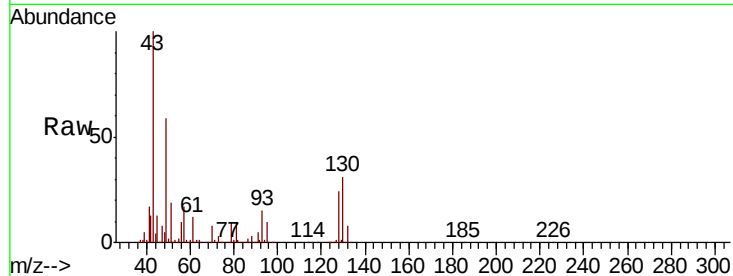
ClientSampleId :

VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
49	100		
128	42.1	21.8	65.3
130	54.2	28.0	84.0

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 10.427 ppbv

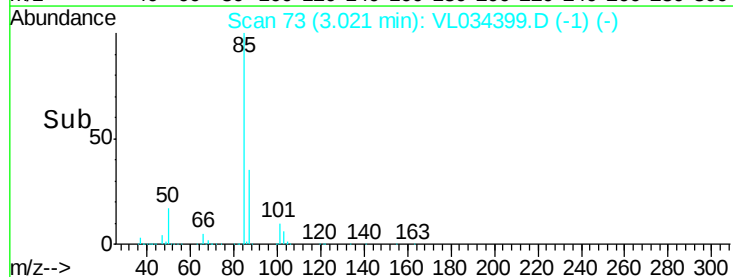
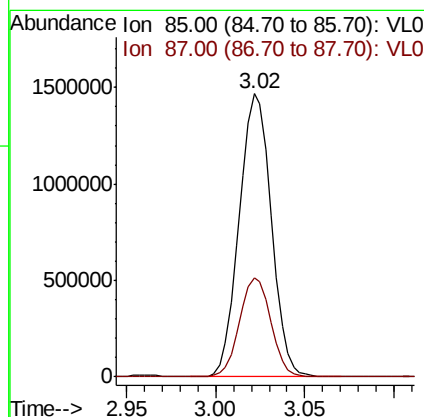
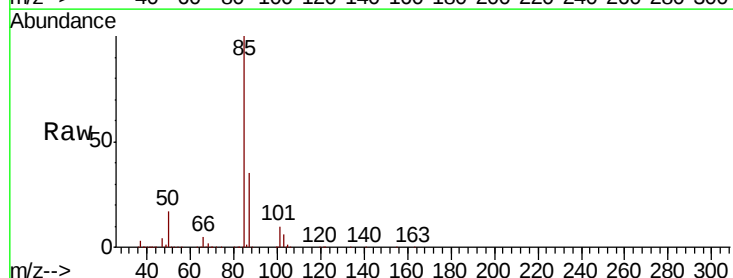
RT: 3.02 min Scan# 73

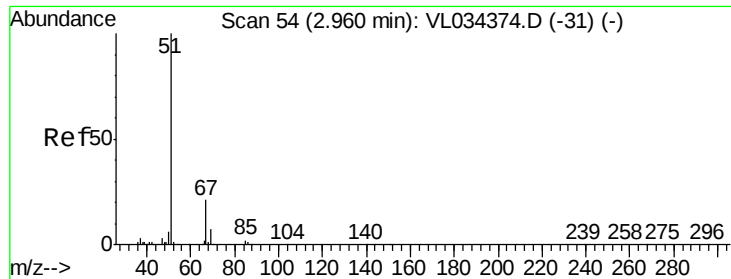
Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Tgt Ion	Ratio	Lower	Upper
85	100		
87	35.1	28.5	42.7





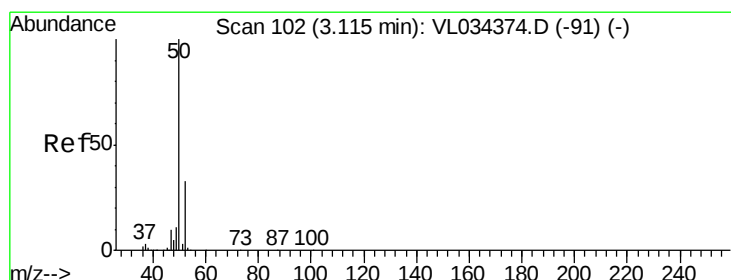
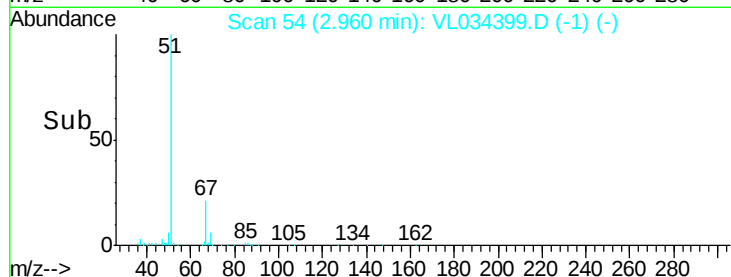
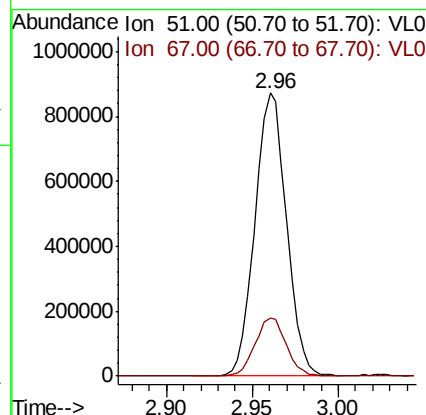
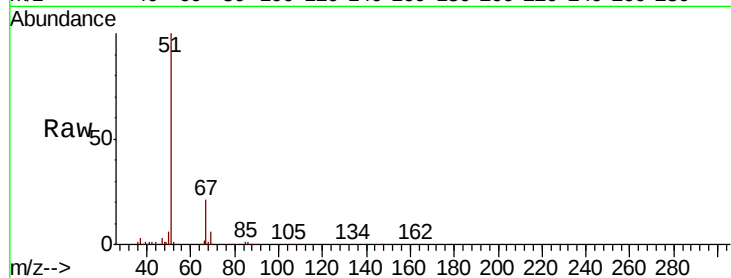
#3
Chlorodifluoromethane
Concen: 9.063 ppbv
RT: 2.96 min Scan# 54
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 51 Resp: 1109710
Ion Ratio Lower Upper
51 100
67 20.3 16.2 24.2

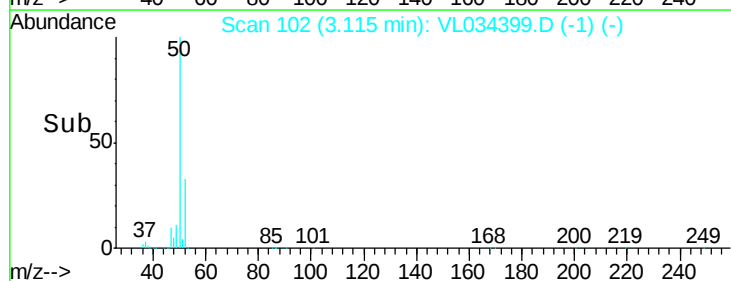
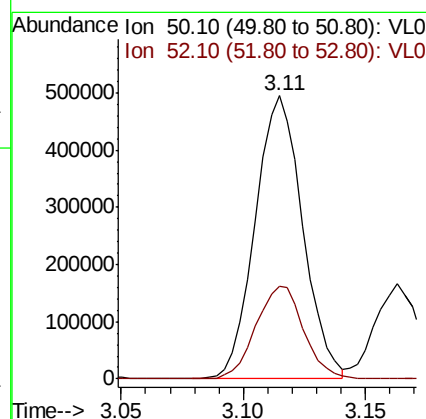
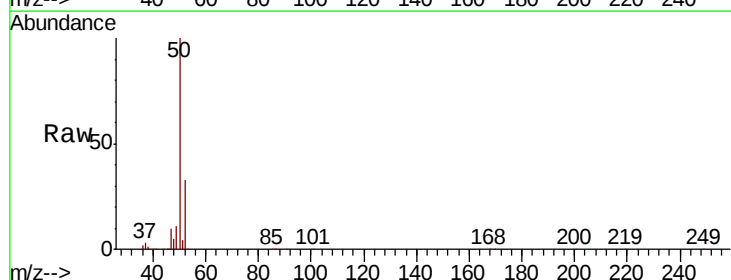
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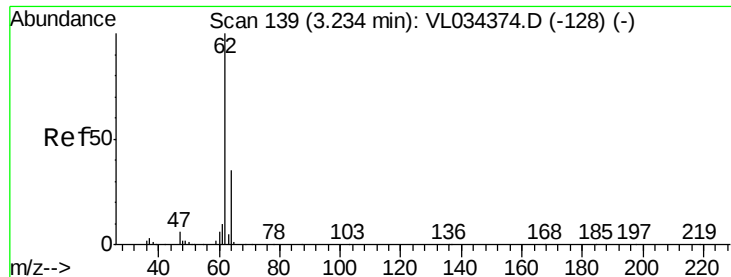
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#4
Chloromethane
Concen: 9.218 ppbv
RT: 3.11 min Scan# 102
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Tgt Ion: 50 Resp: 665709
Ion Ratio Lower Upper
50 100
52 32.7 26.8 40.2





#5

Vinyl Chloride

Concen: 8.993 ppbv

RT: 3.23 min Scan# 139

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 608483

Ion Ratio Lower Upper

62 100

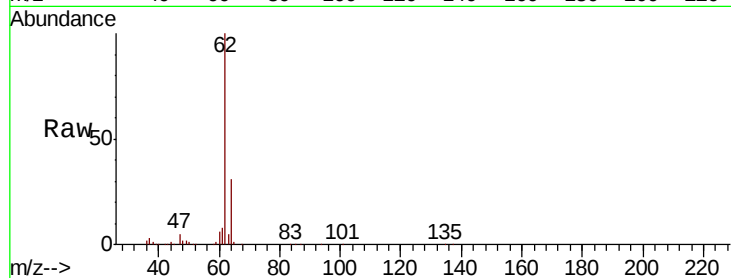
64 30.7 28.4 42.6

Manual Integrations

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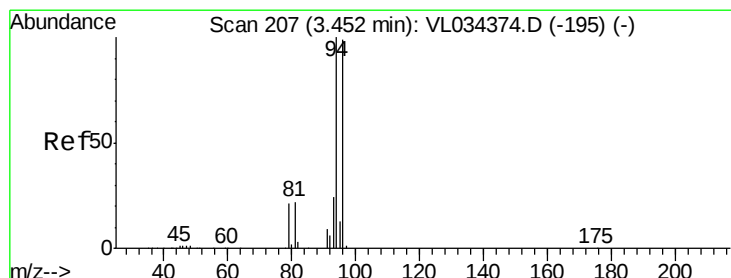
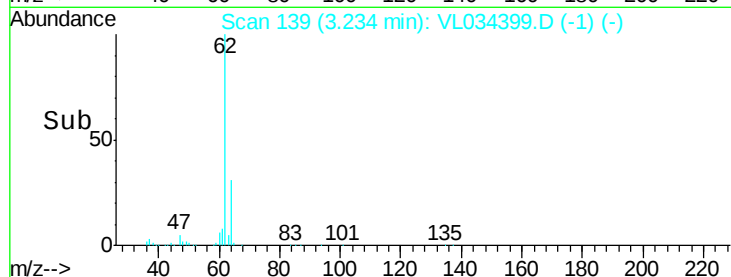
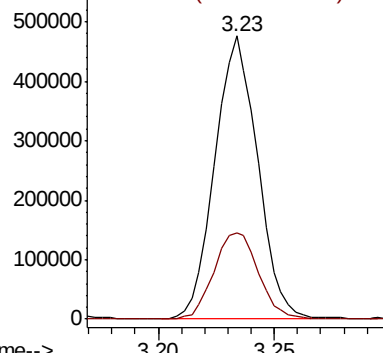
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.577 ppbv

RT: 3.45 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL034399.D

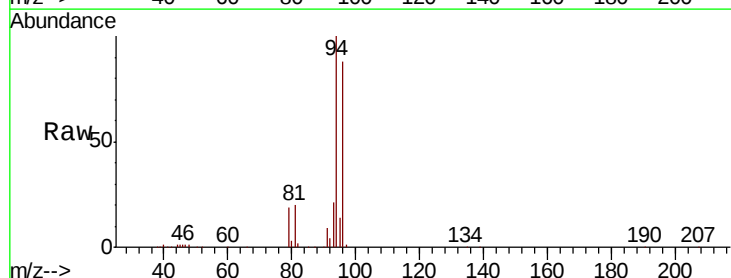
Acq: 20 Nov 2019 4:06

Tgt Ion: 94 Resp: 326061

Ion Ratio Lower Upper

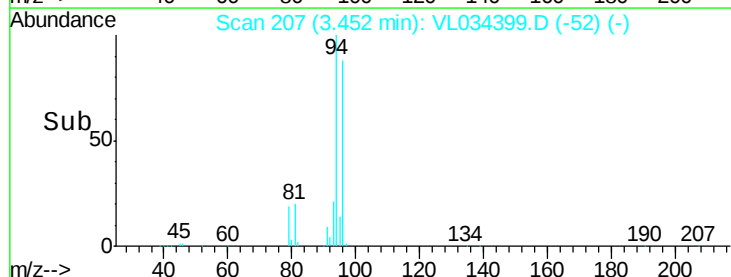
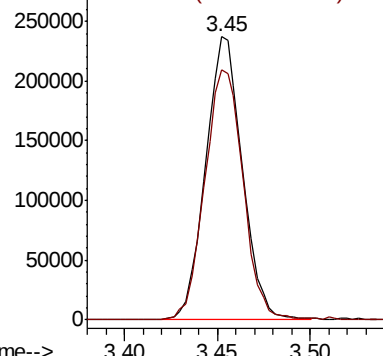
94 100

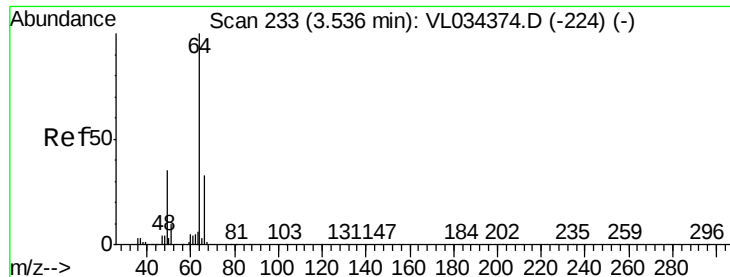
96 88.3 79.5 119.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.413 ppbv

RT: 3.54 min Scan# 234

Delta R.T. 0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

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ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 231189

Ion Ratio Lower Upper

64 100

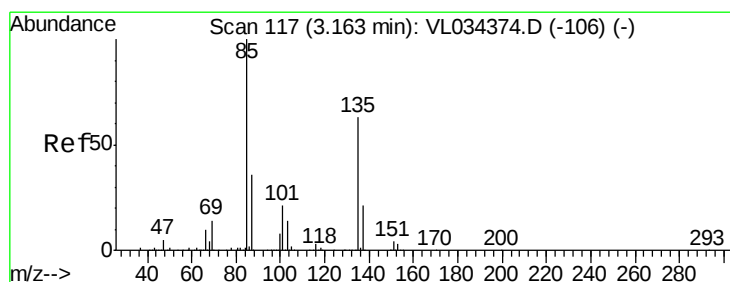
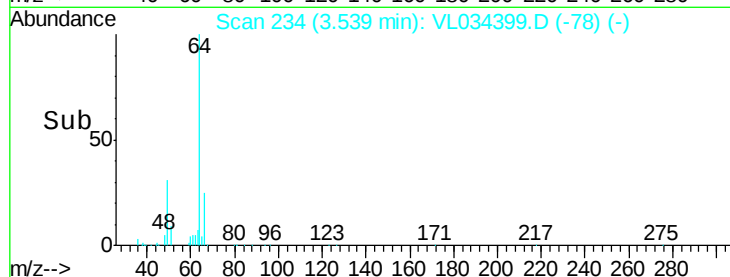
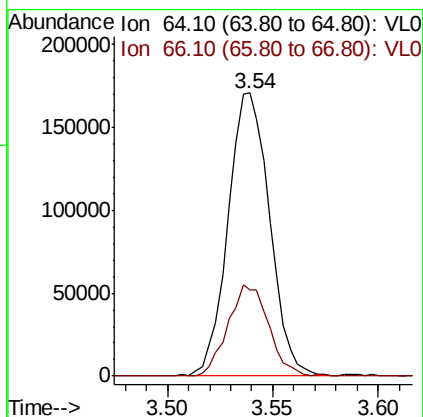
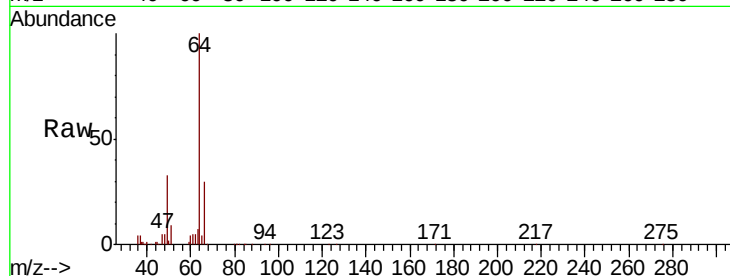
66 30.3 26.0 39.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 8.919 ppbv

RT: 3.16 min Scan# 117

Delta R.T. -0.00 min

Lab File: VL034399.D

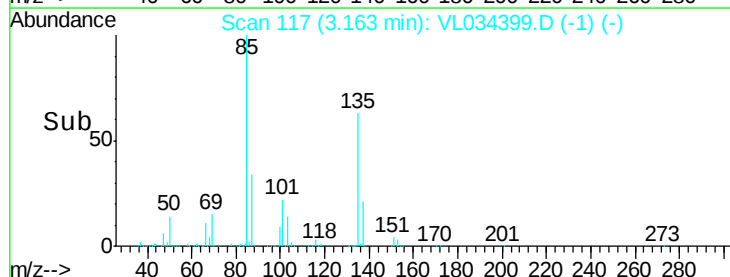
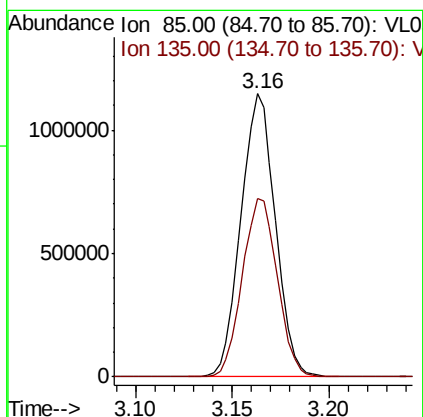
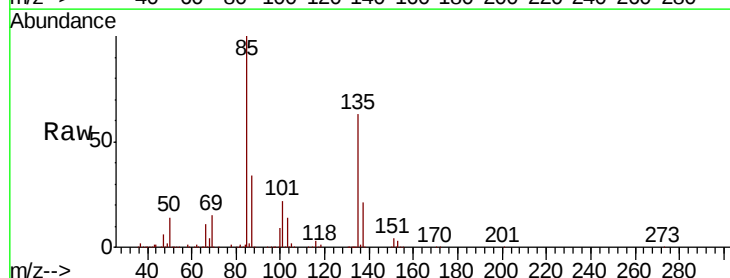
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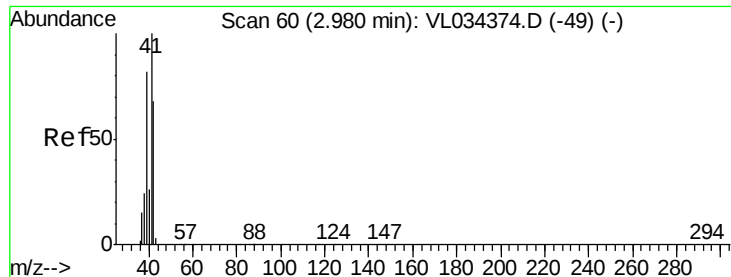
Tgt Ion: 85 Resp: 1421873

Ion Ratio Lower Upper

85 100

135 64.5 51.1 76.7





#9

Propene

Concen: 9.142 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

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ClientSampleId :

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Tot Ion: 41 Resp: 496958

Ion Ratio Lower Upper

41 100

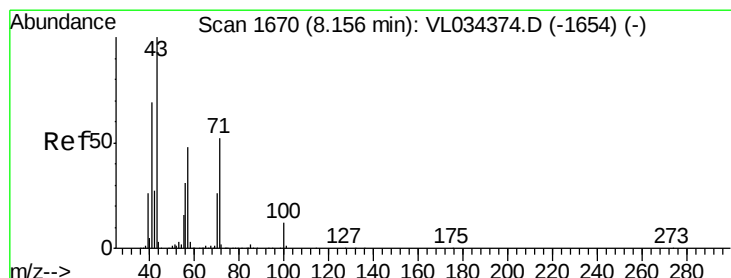
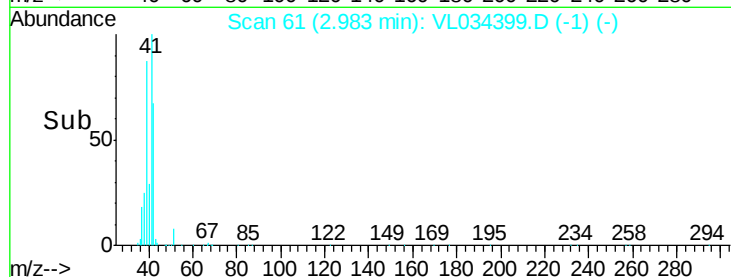
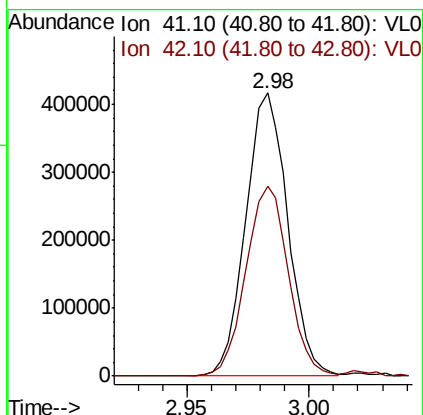
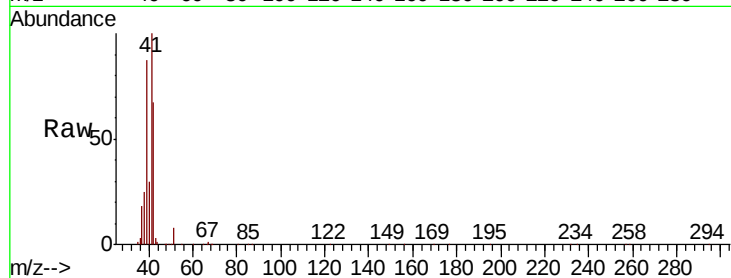
42 69.2 54.6 82.0

Manual Integrations

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#10

Heptane

Concen: 9.432 ppbv

RT: 8.16 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VL034399.D

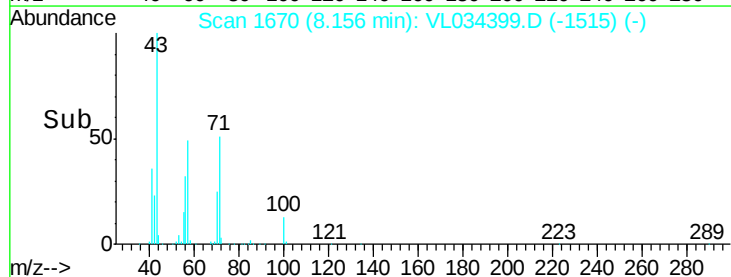
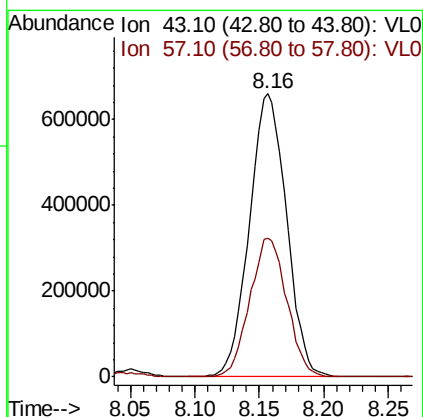
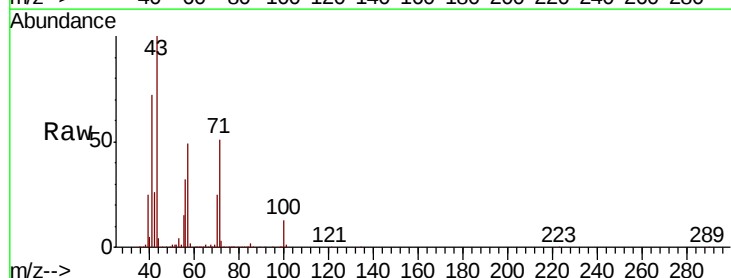
Acq: 20 Nov 2019 4:06

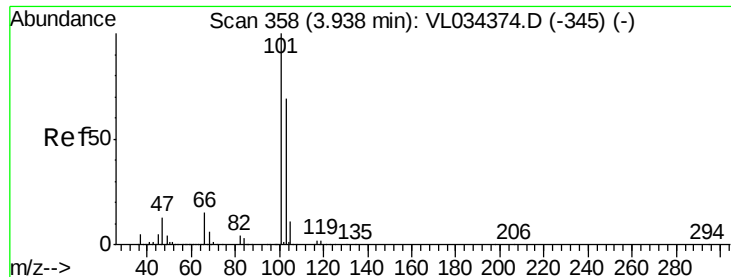
Tgt Ion: 43 Resp: 1323076

Ion Ratio Lower Upper

43 100

57 49.2 40.2 60.2





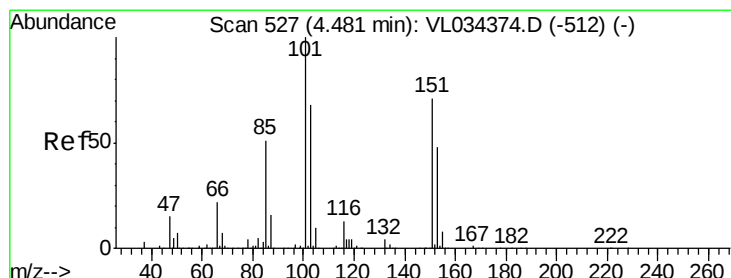
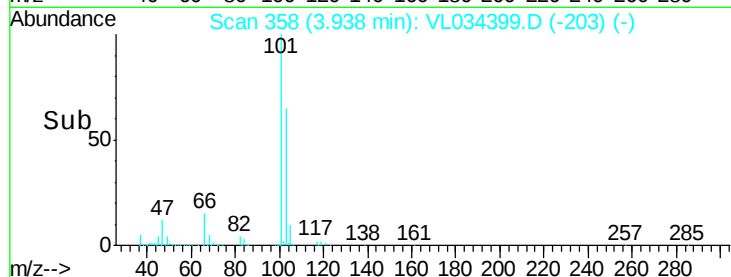
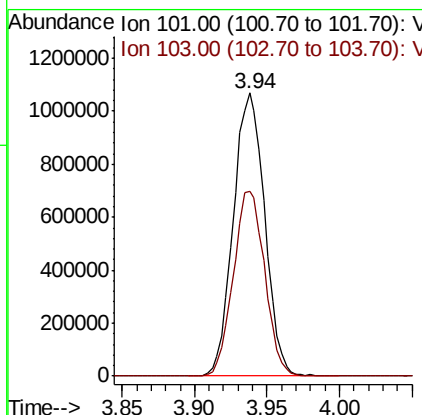
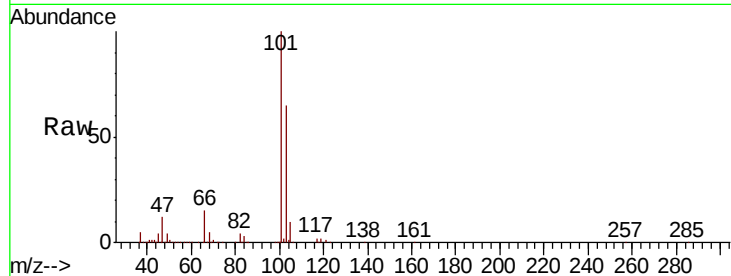
#11
 Trichlorofluoromethane
 Concen: 9.084 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. -0.00 min
 Lab File: VL034399.D
 Acq: 20 Nov 2019 4:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1604992
 Ion Ratio Lower Upper
 101 100
 103 65.3 55.4 83.0

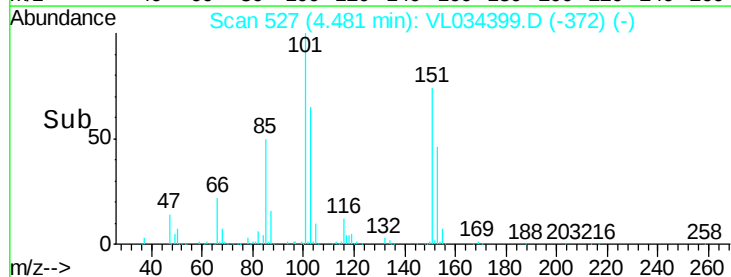
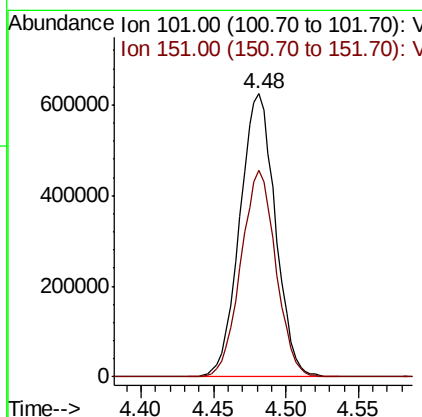
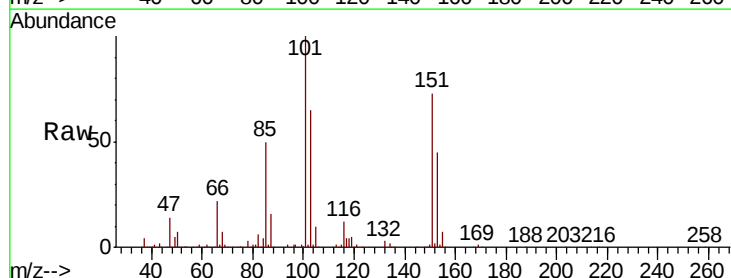
Manual Integrations
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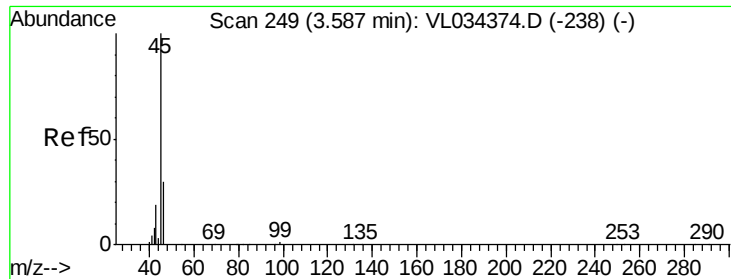
MMDadoda
 11/20/2019 3:54:33 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.086 ppbv
 RT: 4.48 min Scan# 527
 Delta R.T. -0.00 min
 Lab File: VL034399.D
 Acq: 20 Nov 2019 4:06

Tgt Ion:101 Resp: 1066104
 Ion Ratio Lower Upper
 101 100
 151 71.9 57.4 86.2





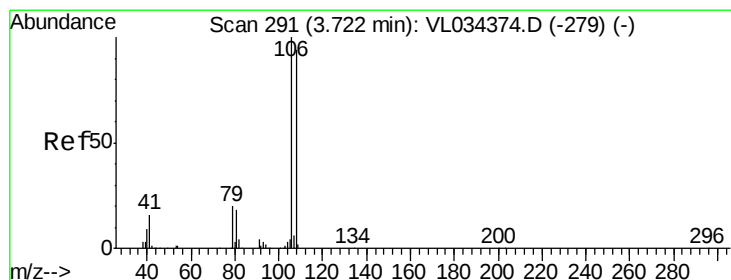
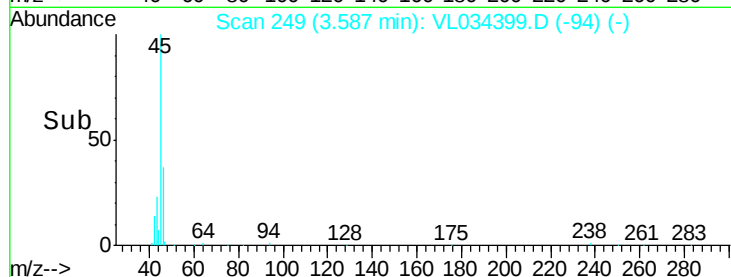
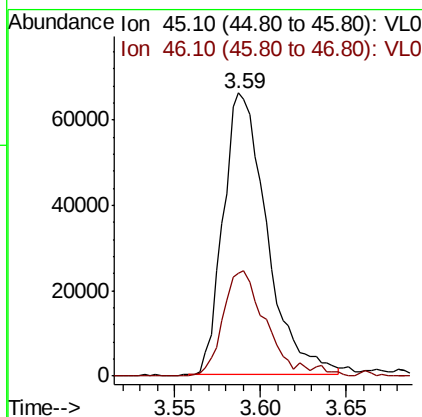
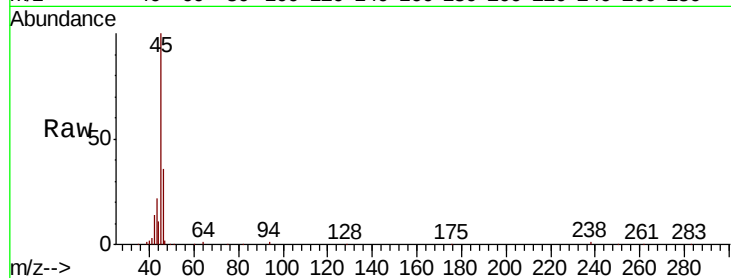
#13
Ethanol
Concen: 7.347 ppbv
RT: 3.59 min Scan# 249
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.0	13.8	55.4

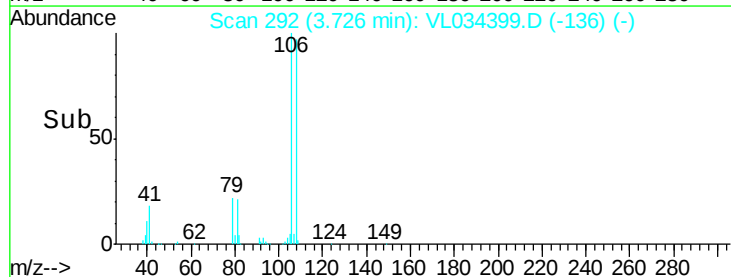
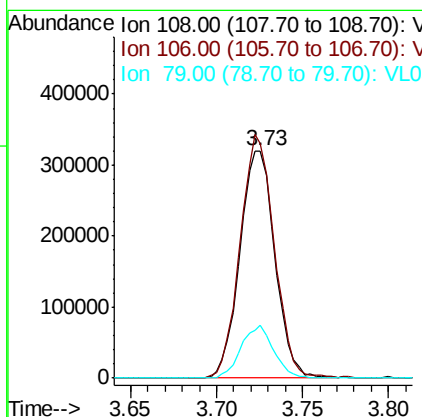
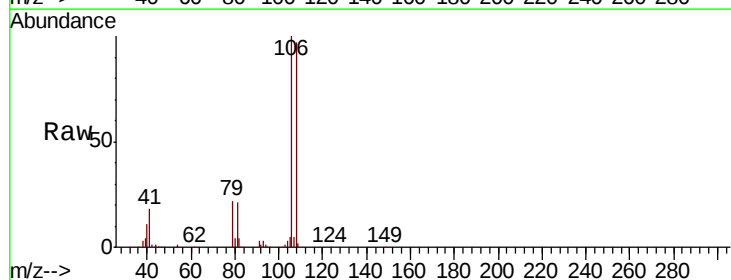
Manual Integrations
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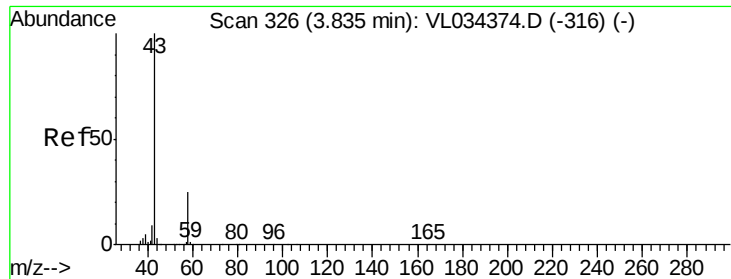
MMDadoda
11/20/2019 3:54:33 PM



#14
Bromoethene
Concen: 9.481 ppbv
RT: 3.73 min Scan# 292
Delta R.T. 0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Tgt Ion	Ratio	Lower	Upper
108	100		
106	104.5	85.7	128.5
79	21.9	17.2	25.8





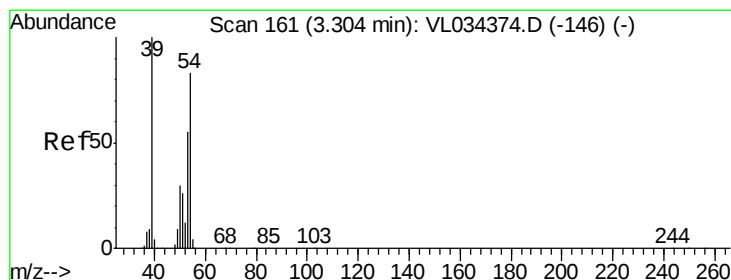
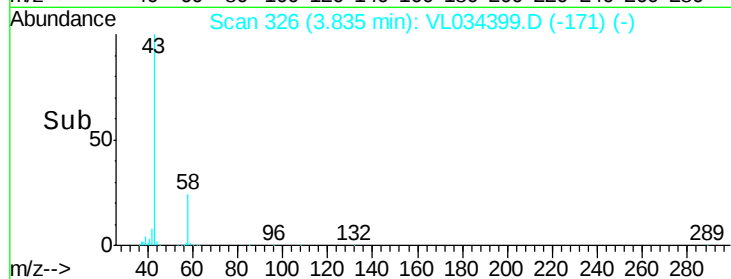
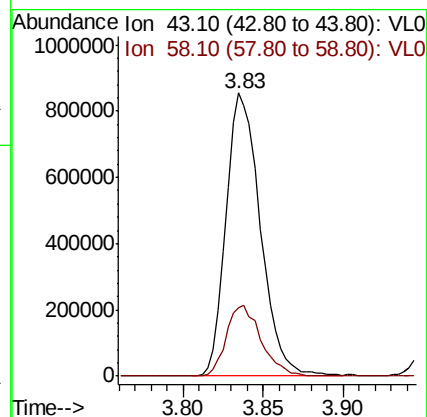
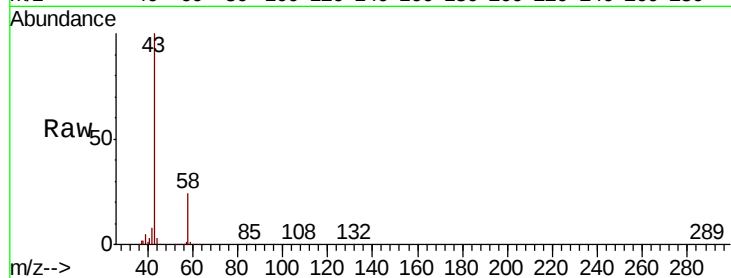
#15
Acetone
Concen: 8.878 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1247578
Ion Ratio Lower Upper
43 100
58 25.4 20.2 30.4

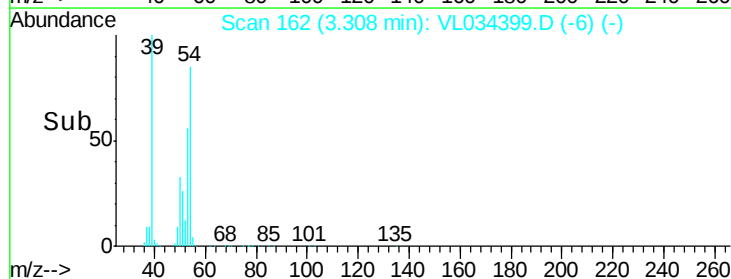
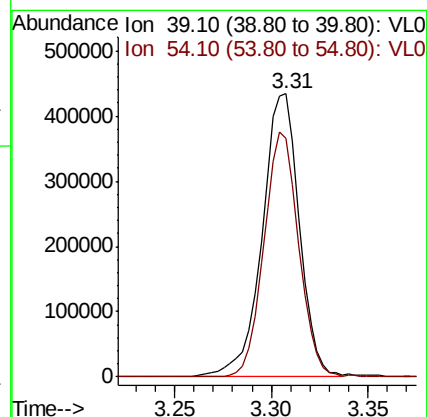
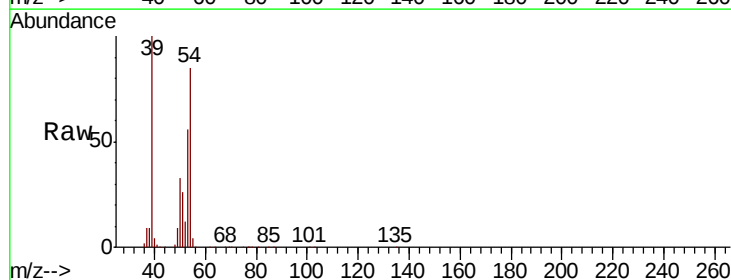
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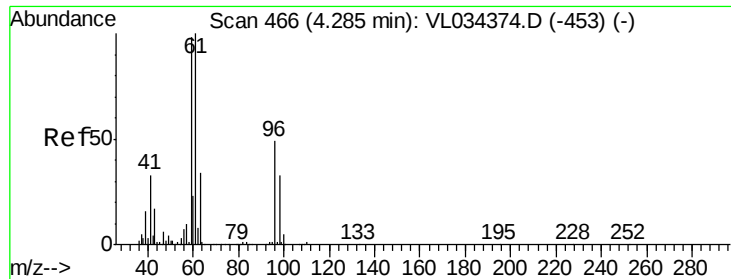
MMDadoda
11/20/2019 3:54:33 PM



#16
1,3-Butadiene
Concen: 9.453 ppbv
RT: 3.31 min Scan# 162
Delta R.T. 0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Tgt Ion: 39 Resp: 578598
Ion Ratio Lower Upper
39 100
54 81.3 64.7 97.1





#17

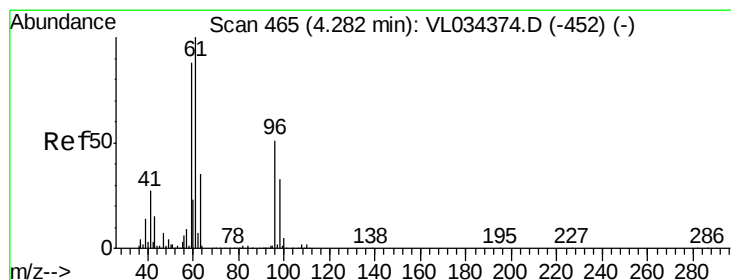
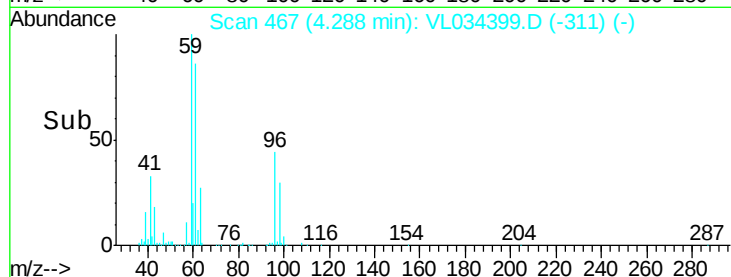
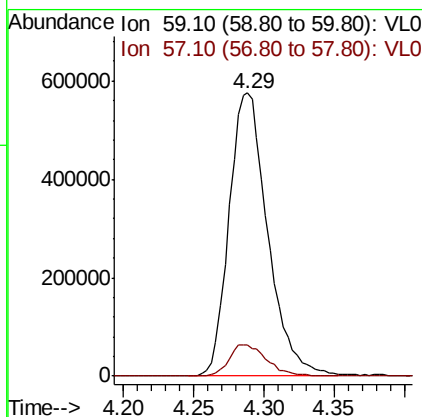
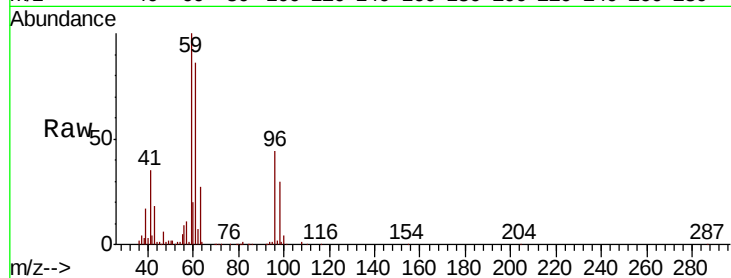
tert-Butyl alcohol
Concen: 9.326 ppbv
RT: 4.29 min Scan# 467
Delta R.T. 0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 1101613
Ion Ratio Lower Upper
59 100
57 11.0 8.8 13.2

Manual Integrations
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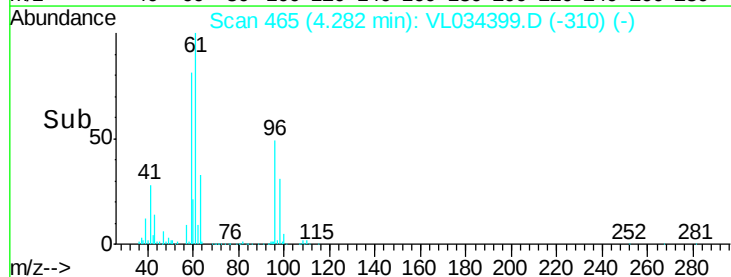
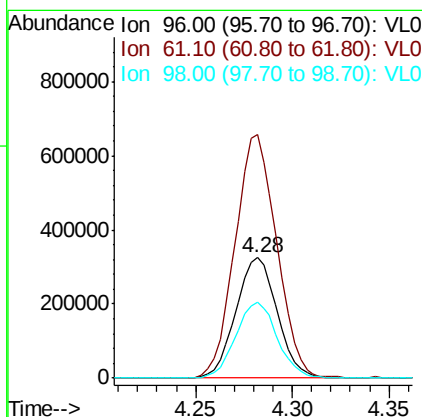
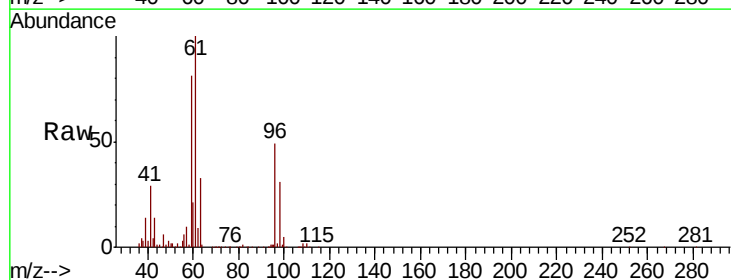
MMDadoda
11/20/2019 3:54:33 PM

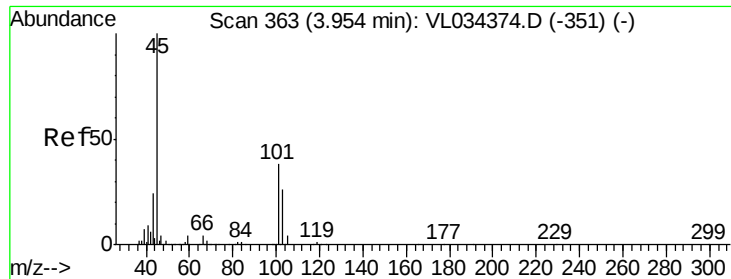


#18

1,1-Dichloroethene
Concen: 9.402 ppbv
RT: 4.28 min Scan# 465
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Tgt Ion: 96 Resp: 482568
Ion Ratio Lower Upper
96 100
61 202.2 155.6 233.4
98 62.4 51.6 77.4





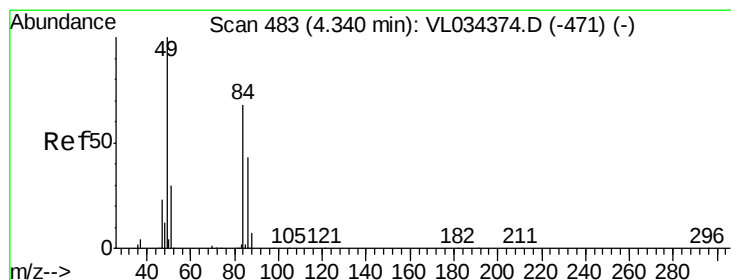
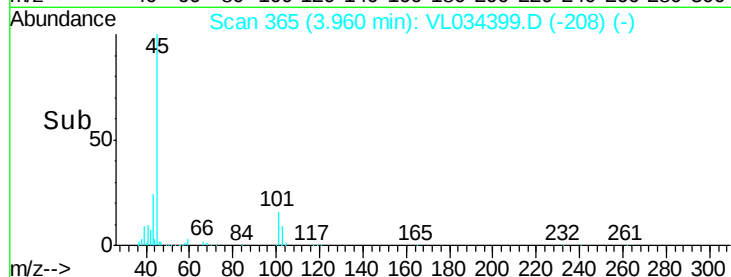
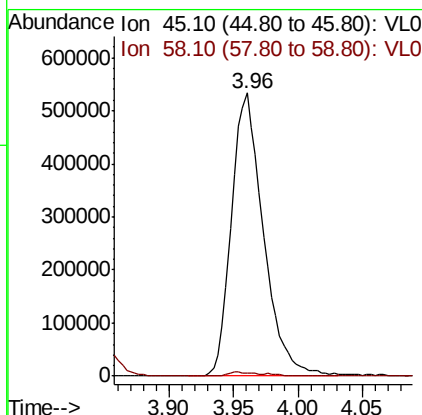
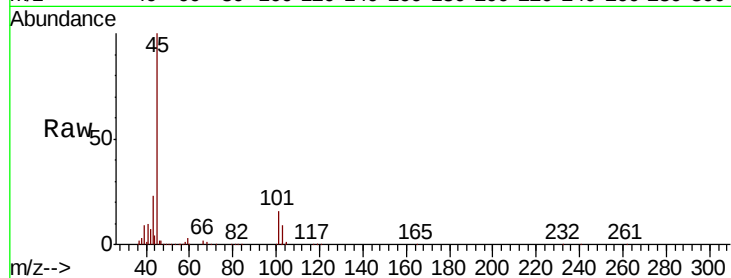
#19
Isopropyl Alcohol
Concen: 9.009 ppbv
RT: 3.96 min Scan# 365
Delta R.T. 0.01 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
58	1.9	1.3	1.9

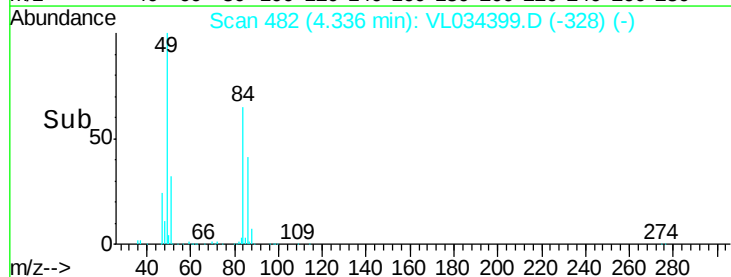
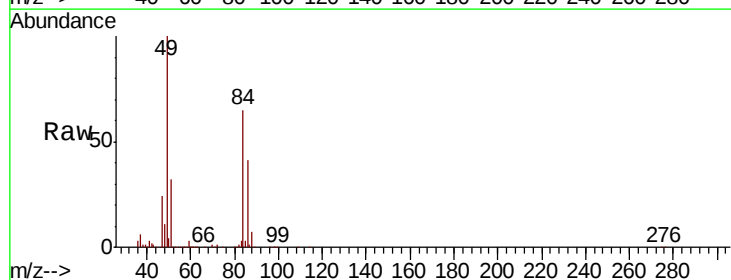
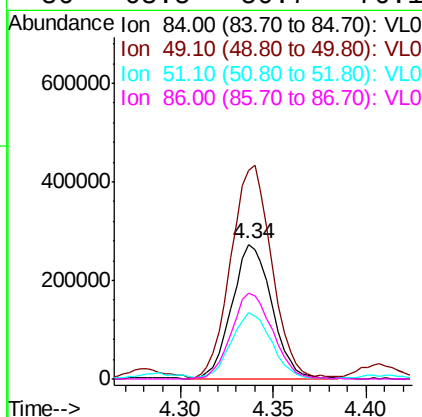
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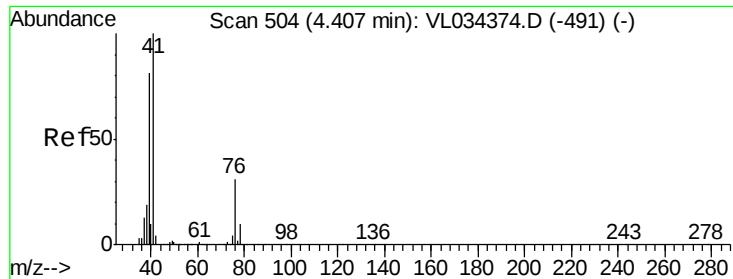
MMDadoda
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#20
Methylene Chloride
Concen: 8.147 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Tgt Ion	Ratio	Lower	Upper
84	100		
49	153.6	116.8	175.2
51	48.5	35.6	53.4
86	63.5	50.7	76.1





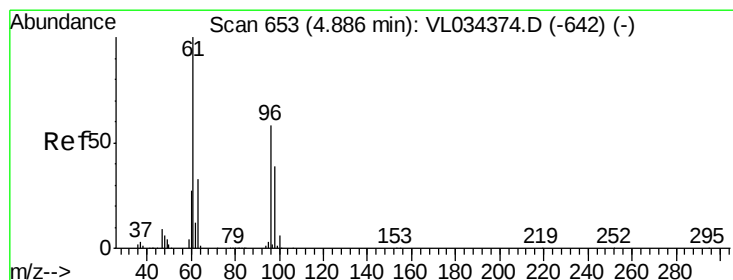
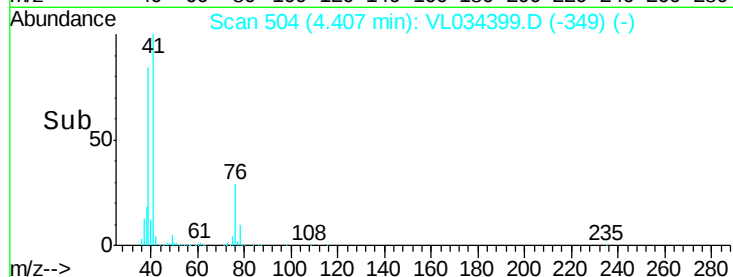
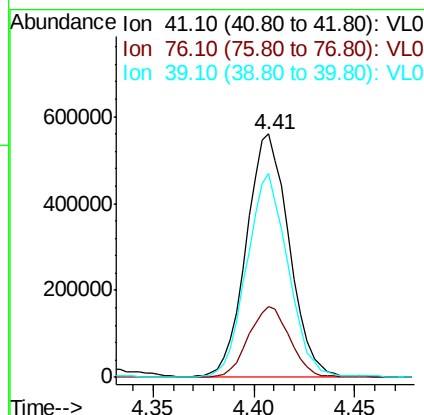
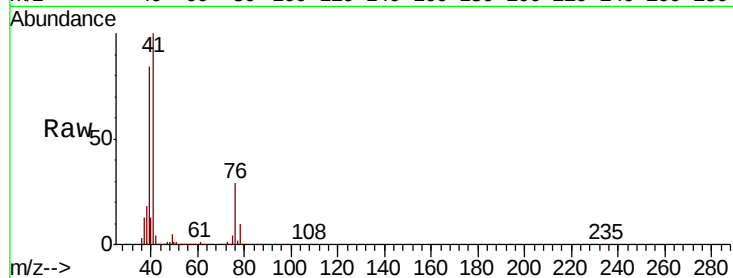
#21
Allvl Chloride
Concen: 9.834 ppbv
RT: 4.41 min Scan# 504
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.5	24.2	36.2
39	81.5	66.9	100.3

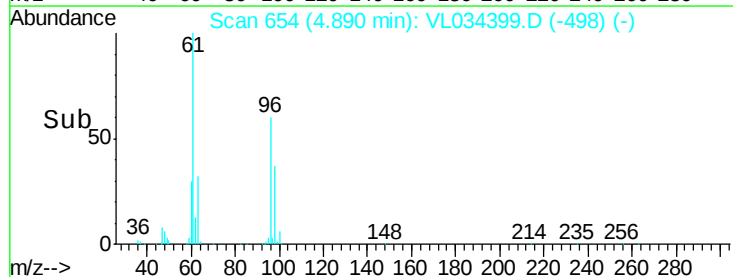
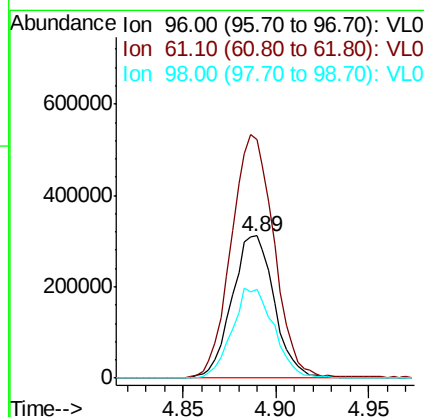
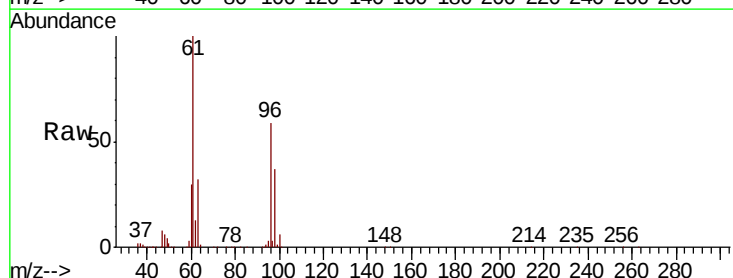
Manual Integrations
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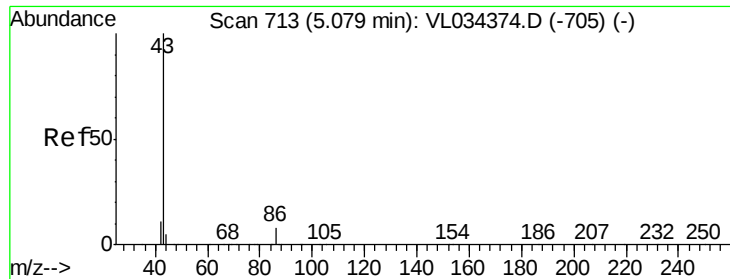
MMDadoda
11/20/2019 3:54:33 PM



#22
trans-1,2-Dichloroethene
Concen: 9.486 ppbv
RT: 4.89 min Scan# 654
Delta R.T. 0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Tgt Ion	Ratio	Lower	Upper
96	100		
61	167.7	137.9	206.9
98	62.2	53.5	80.3





#23

Vinyl Acetate

Concen: 9.797 ppbv

RT: 5.08 min Scan# 713

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1798333

Ion Ratio Lower Upper

43 100

86 6.9 5.8 8.6

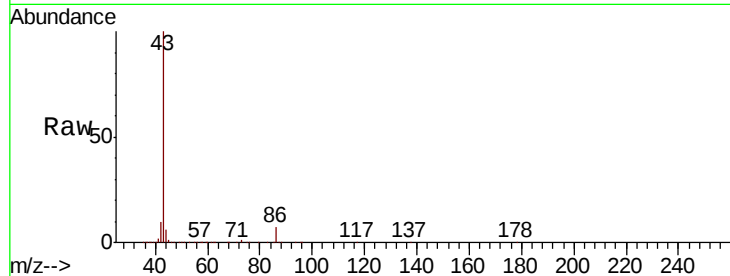
42 9.8 8.9 13.3

44 5.6 4.0 6.0

Manual Integrations
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11/20/2019 3:54:33 PM

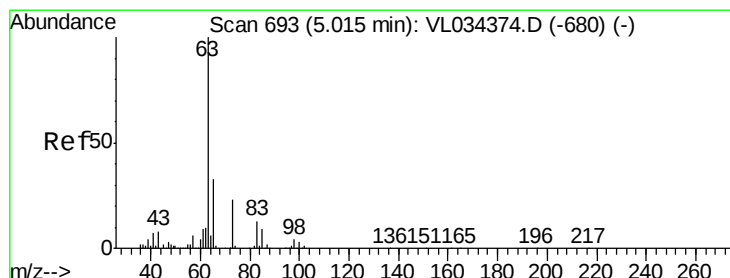
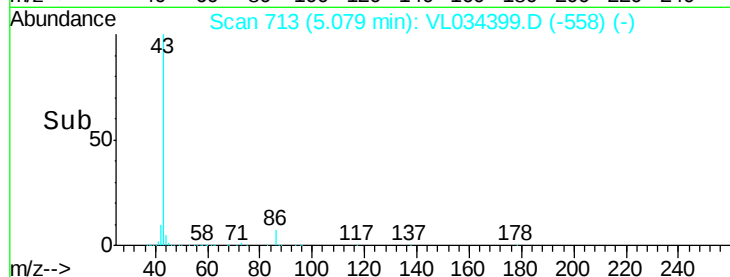
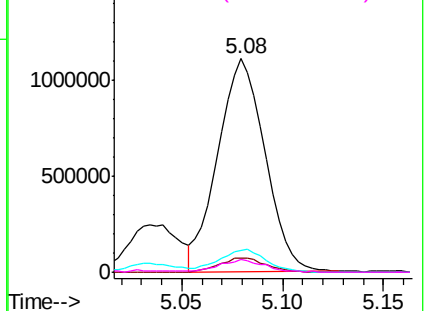


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.126 ppbv

RT: 5.01 min Scan# 693

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

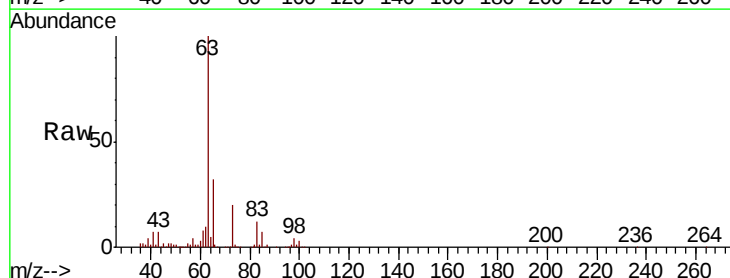
Tgt Ion: 63 Resp: 1286850

Ion Ratio Lower Upper

63 100

98 3.7 1.9 5.7

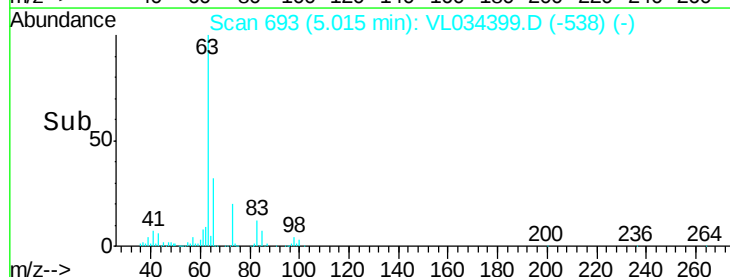
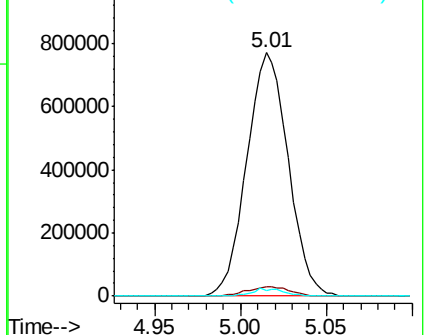
100 2.5 1.4 4.0

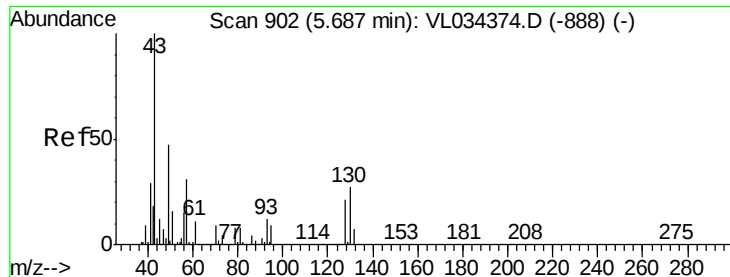


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.075 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2275684

Ion Ratio Lower Upper

43 100

45 10.5 8.2 12.4

61 9.4 7.5 11.3

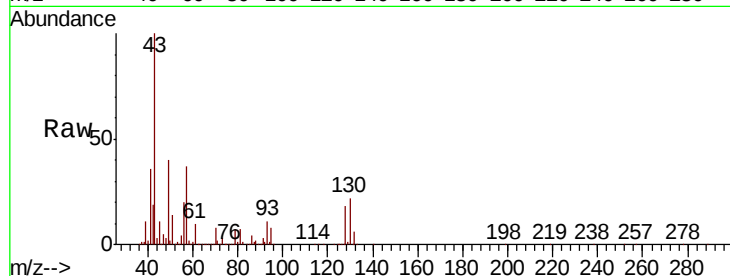
70 7.2 5.7 8.5

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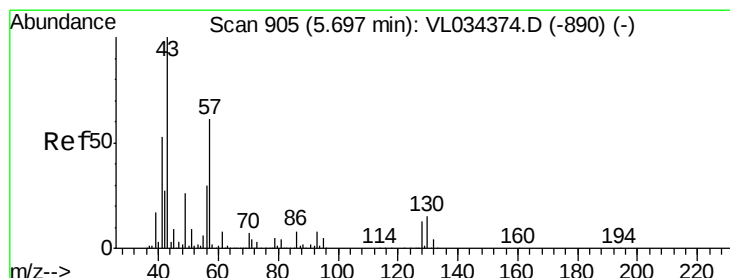
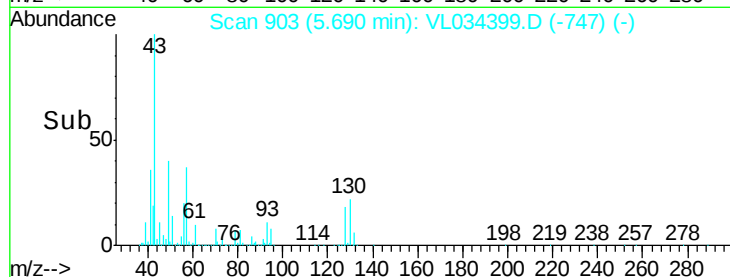
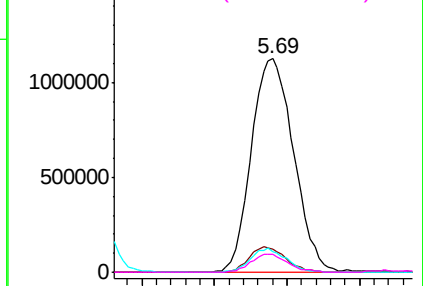


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.846 ppbv

RT: 5.70 min Scan# 905

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Tgt Ion: 57 Resp: 953127

Ion Ratio Lower Upper

57 100

41 97.5 75.0 112.4

43 240.2 186.6 279.8

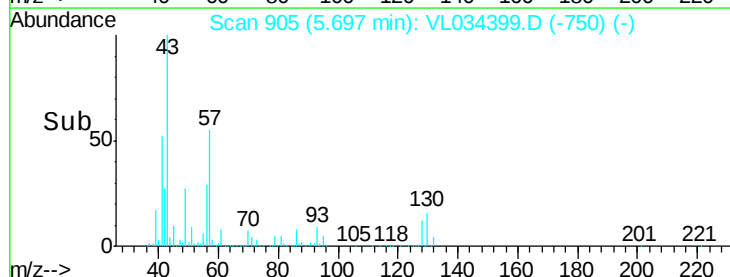
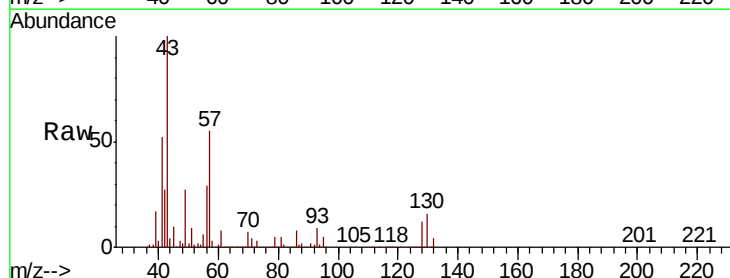
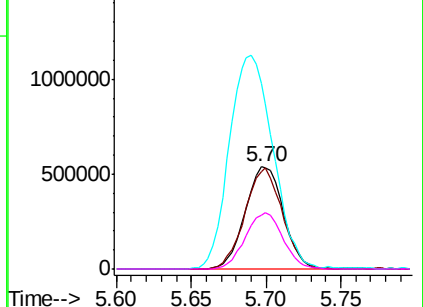
56 54.4 41.5 62.3

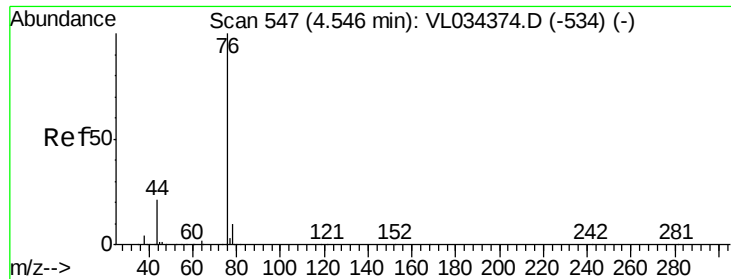
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.411 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1221847

Ion Ratio Lower Upper

76 100

44 20.6 17.0 25.4

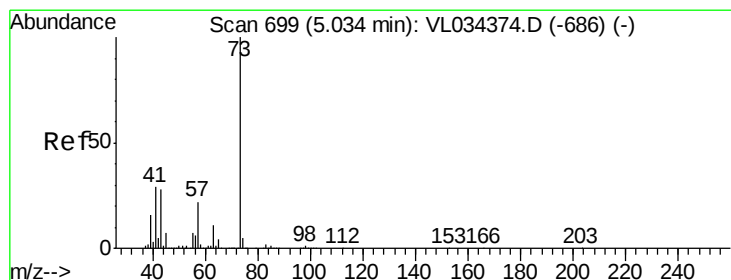
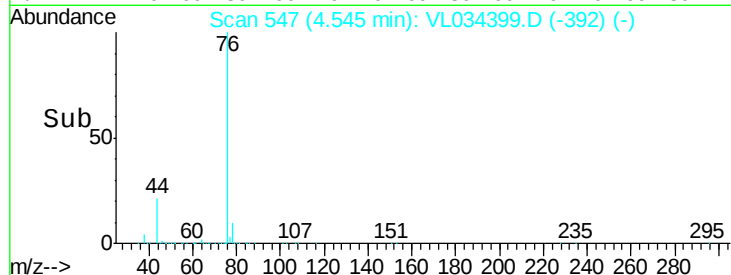
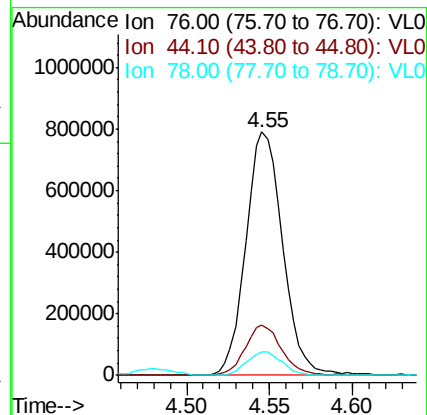
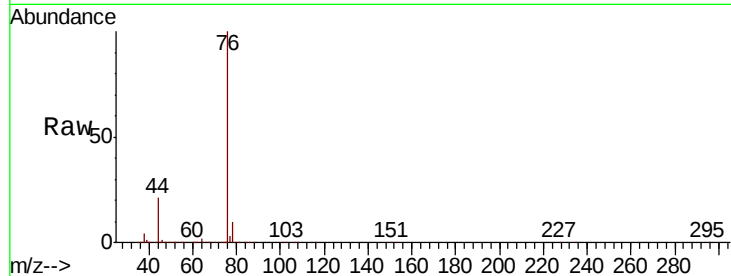
78 9.5 7.6 11.4

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#28

Methyl tert-Butyl Ether

Concen: 9.164 ppbv

RT: 5.03 min Scan# 699

Delta R.T. -0.00 min

Lab File: VL034399.D

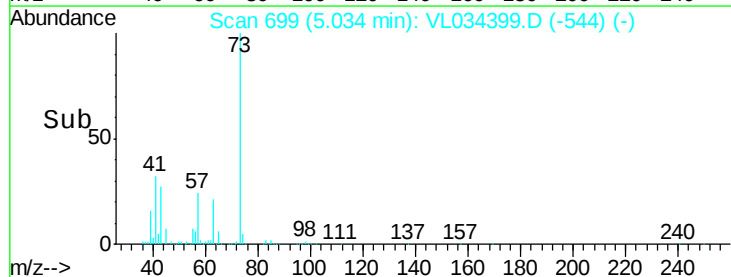
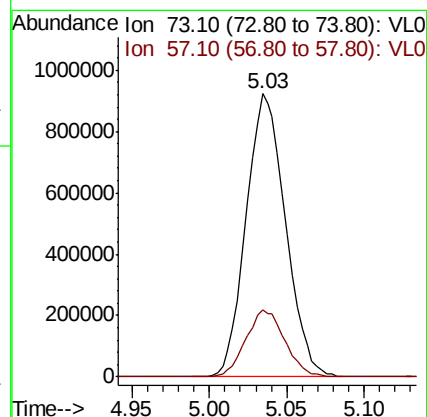
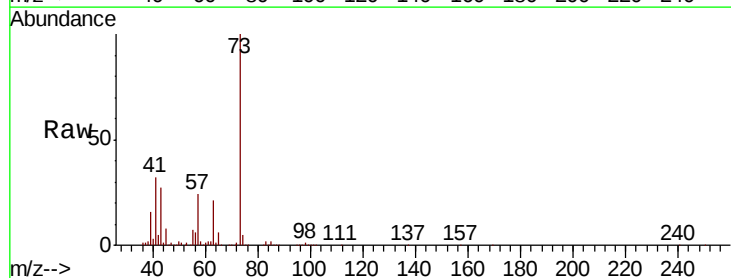
Acq: 20 Nov 2019 4:06

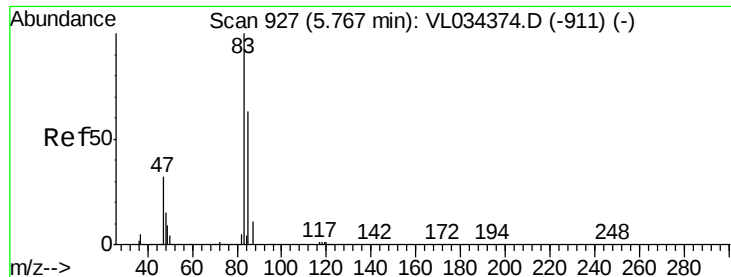
Tgt Ion: 73 Resp: 1637199

Ion Ratio Lower Upper

73 100

57 23.5 18.4 27.6





#29

Chloroform

Concen: 9.139 ppbv

RT: 5.77 min Scan# 927

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 1594584

Ion Ratio Lower Upper

83 100

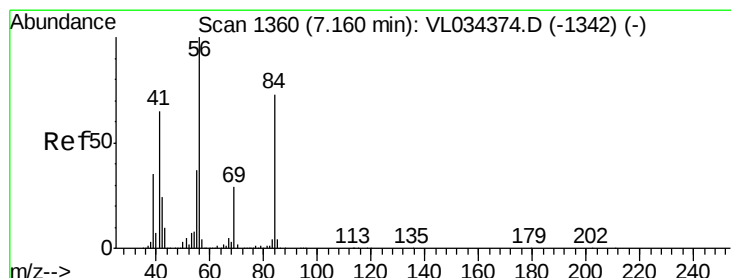
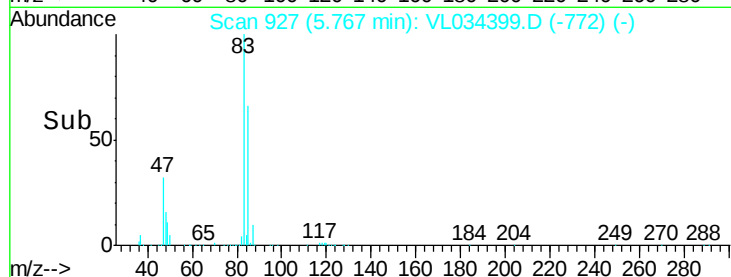
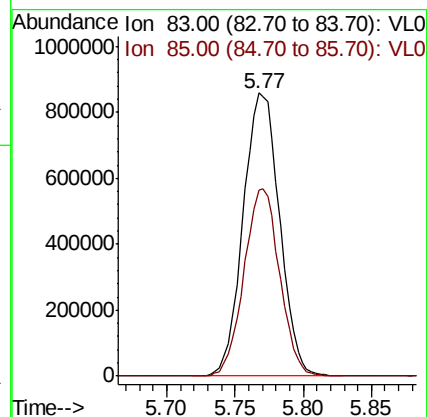
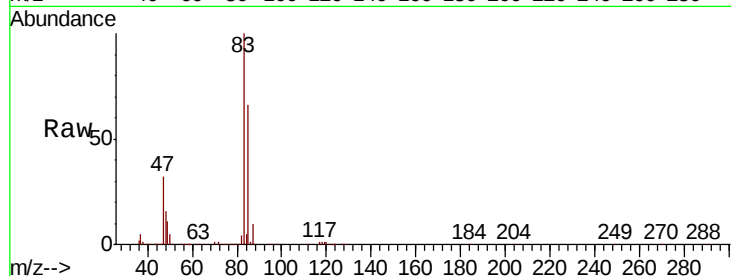
85 65.5 50.4 75.6

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#30

Cyclohexane

Concen: 9.509 ppbv m

RT: 7.16 min Scan# 1359

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

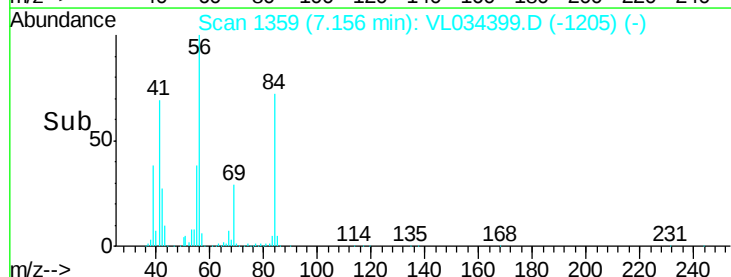
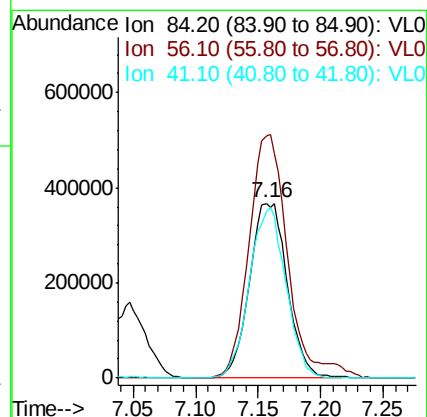
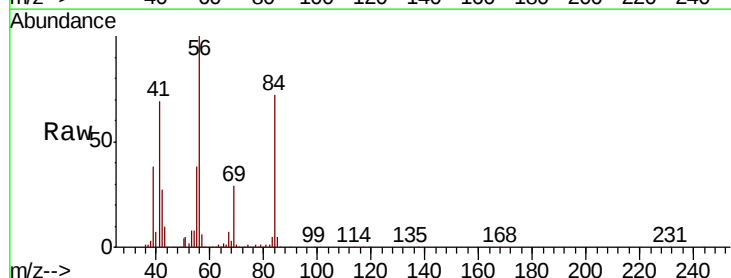
Tgt Ion: 84 Resp: 774590

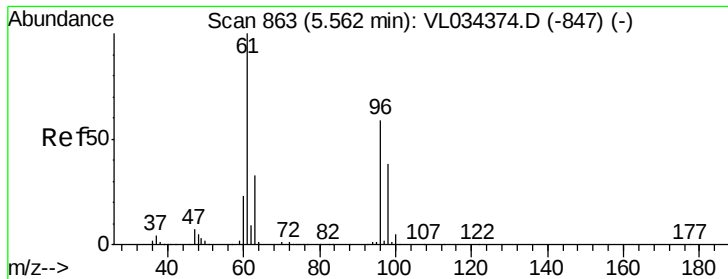
Ion Ratio Lower Upper

84 100

56 144.0 112.6 169.0

41 94.3 73.4 110.2





#31

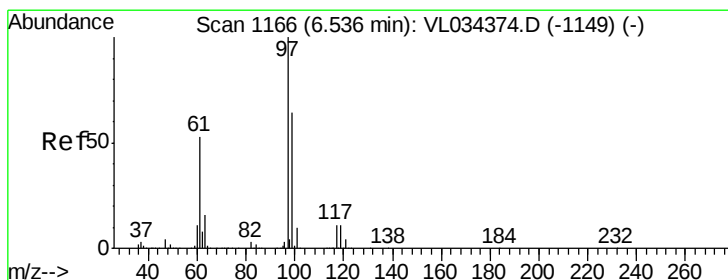
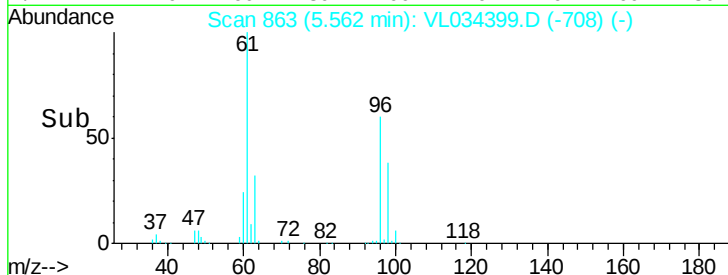
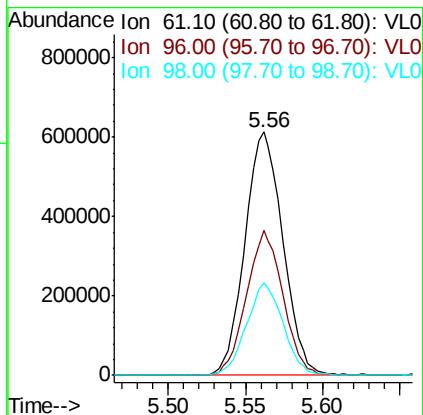
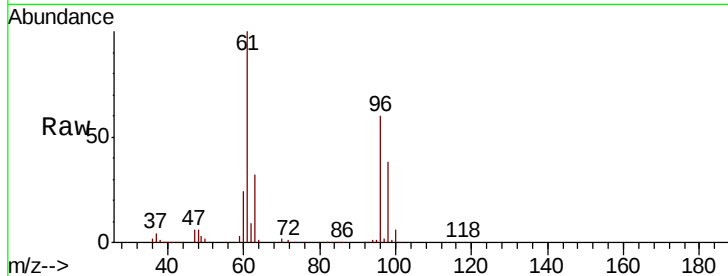
cis-1,2-Dichloroethene
Concen: 9.425 ppbv
RT: 5.56 min Scan# 863
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	59.6	47.4	71.2
98	38.0	30.6	45.8

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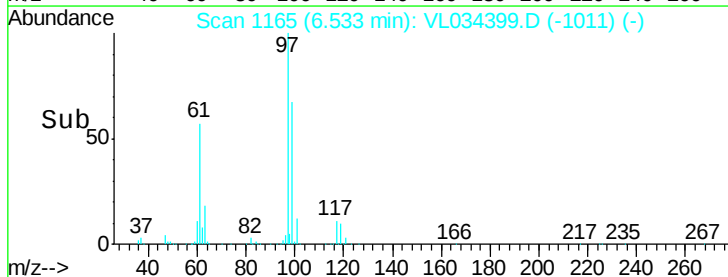
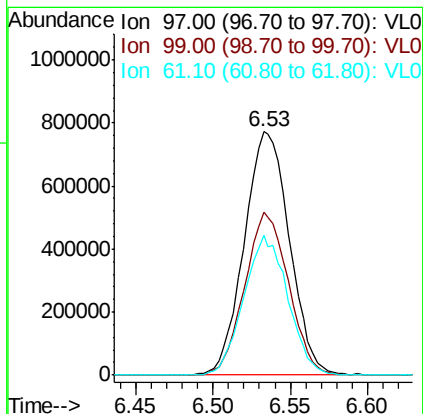
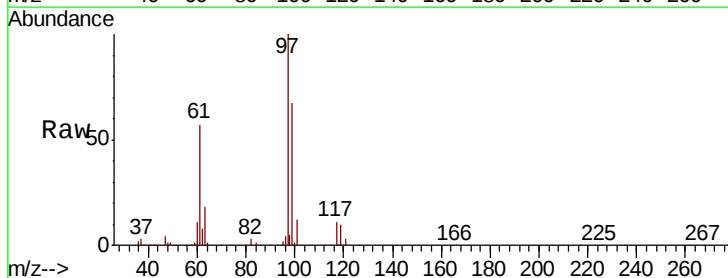
MMDadoda
11/20/2019 3:54:33 PM

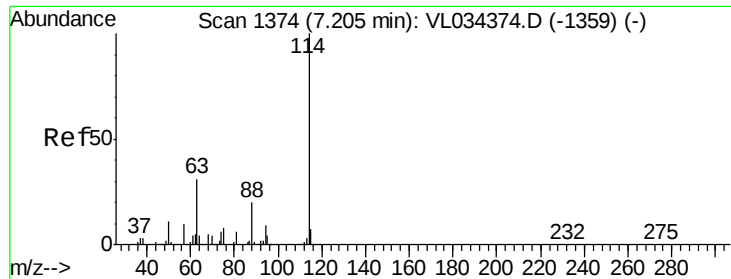


#32

1,1,1-Trichloroethane
Concen: 9.592 ppbv
RT: 6.53 min Scan# 1165
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	52.3	78.5
61	56.0	43.7	65.5





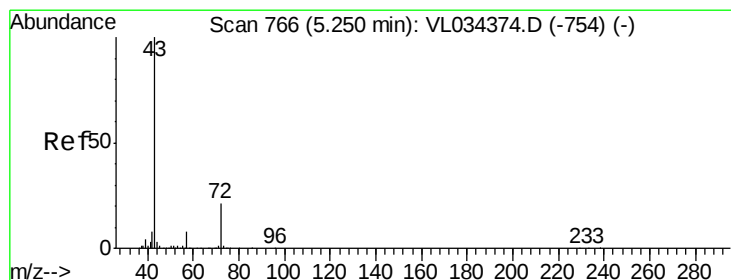
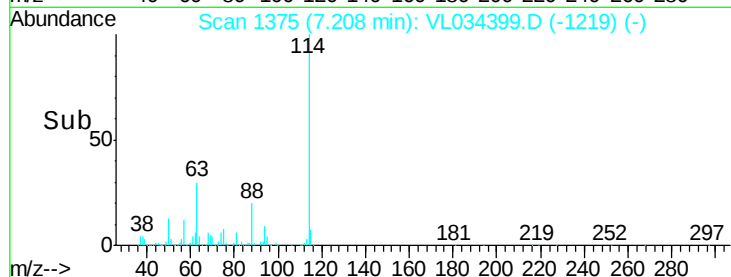
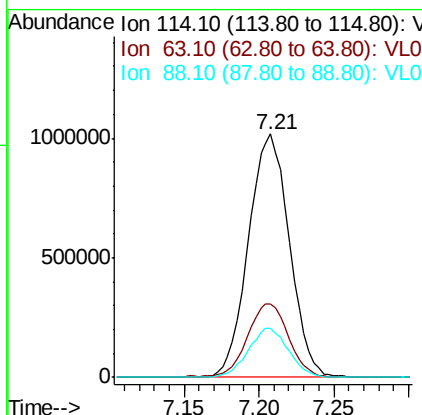
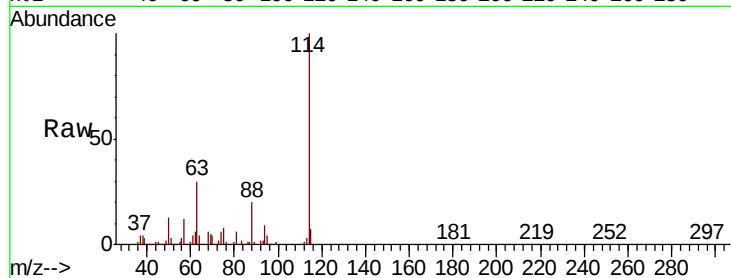
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1375
 Delta R.T. 0.00 min
 Lab File: VL034399.D
 Acq: 20 Nov 2019 4:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.7	24.2	36.4
88	19.8	15.9	23.9

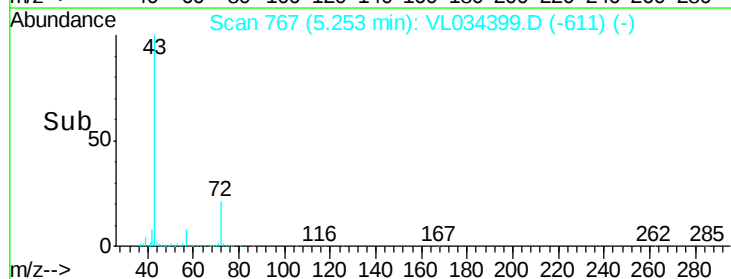
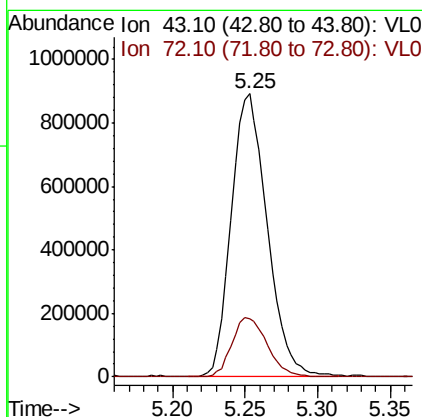
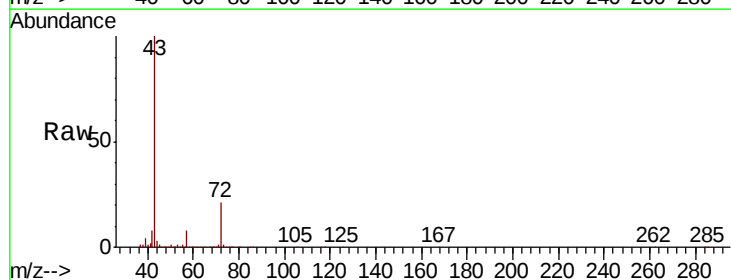
Manual Integrations
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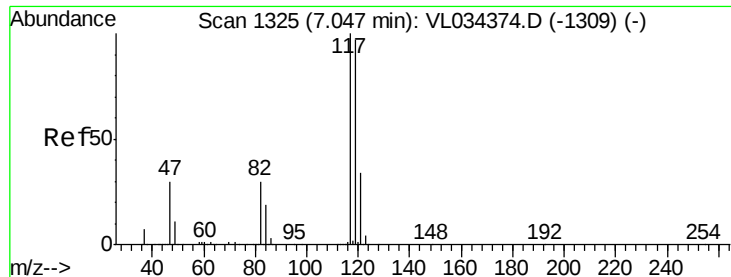
MMDadoda
 11/20/2019 3:54:33 PM



#34
 2-Butanone
 Concen: 9.600 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.00 min
 Lab File: VL034399.D
 Acq: 20 Nov 2019 4:06

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.7	17.0	25.6





#35

Carbon Tetrachloride

Concen: 9.953 ppbv

RT: 7.05 min Scan# 1325

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1658102

Ion Ratio Lower Upper

117 100

119 99.0 77.3 115.9

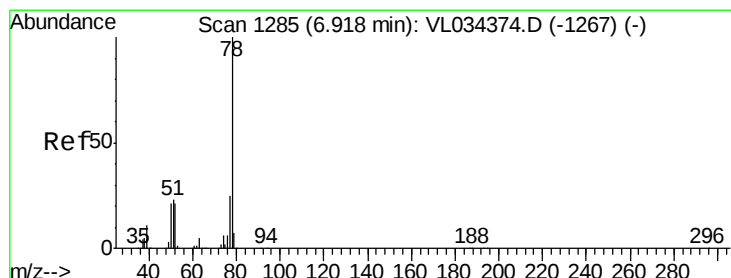
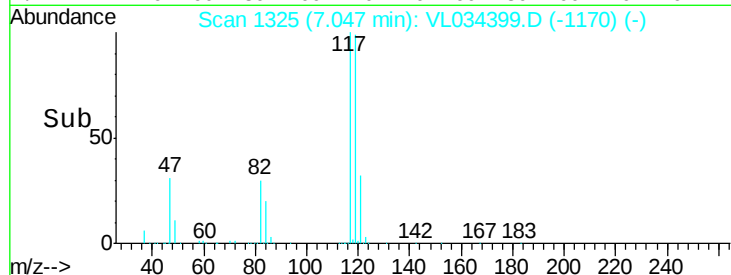
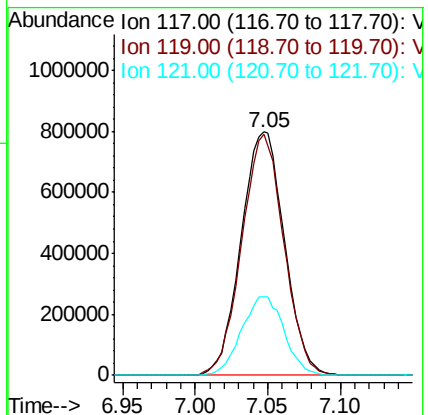
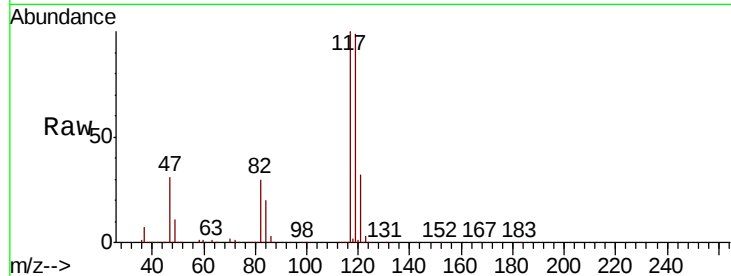
121 32.1 27.4 41.2

Manual Integrations

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#36

Benzene

Concen: 9.466 ppbv

RT: 6.92 min Scan# 1285

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

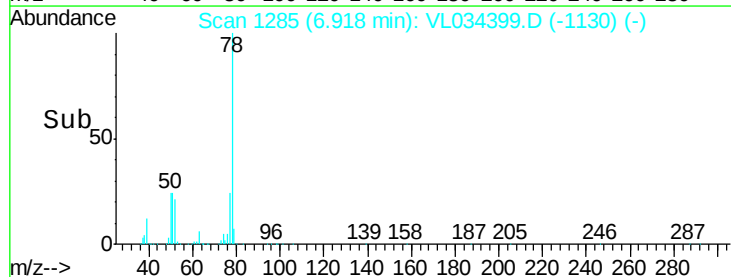
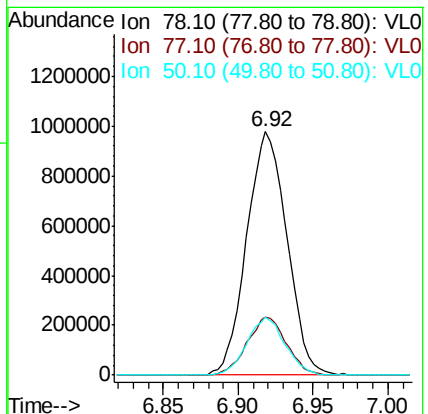
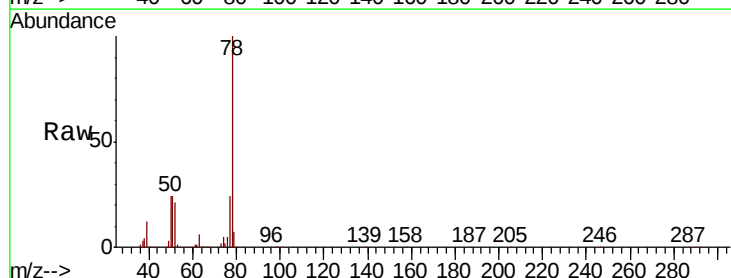
Tgt Ion: 78 Resp: 1833321

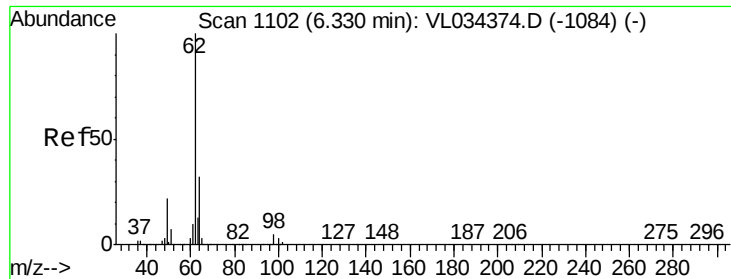
Ion Ratio Lower Upper

78 100

77 23.7 20.2 30.4

50 23.9 17.1 25.7





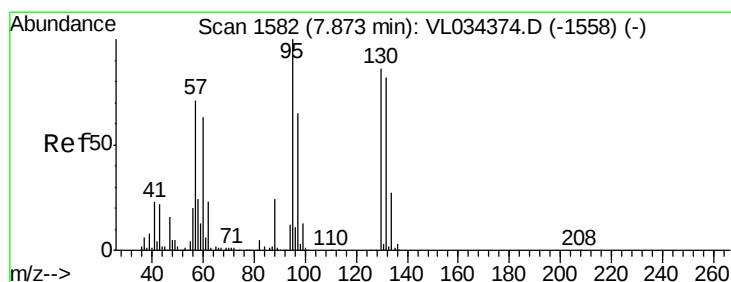
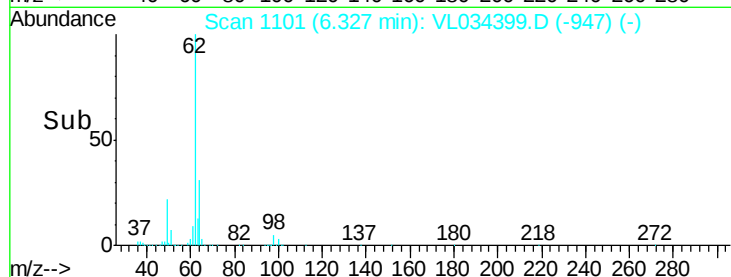
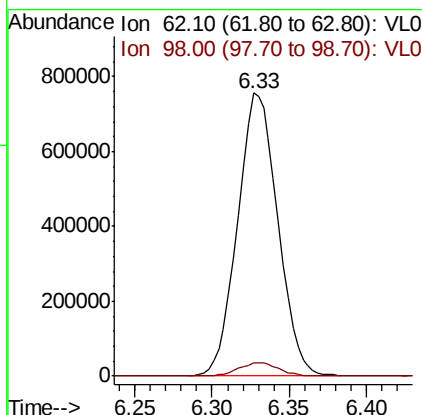
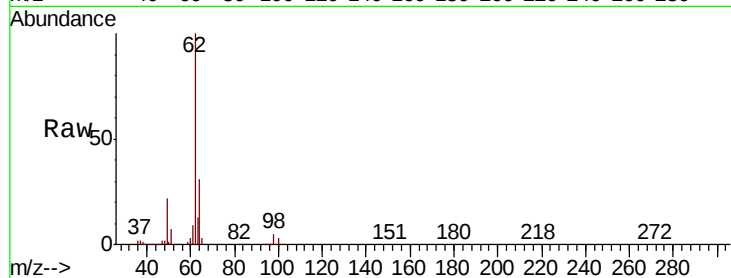
#37
1,2-Dichloroethane
Concen: 9.478 ppbv
RT: 6.33 min Scan# 1101
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 62 Resp: 1363707
Ion Ratio Lower Upper
62 100
98 4.8 3.8 5.8

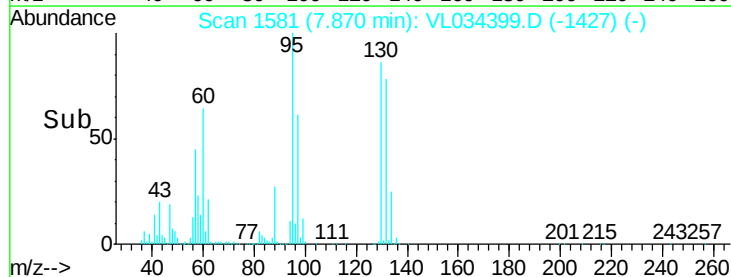
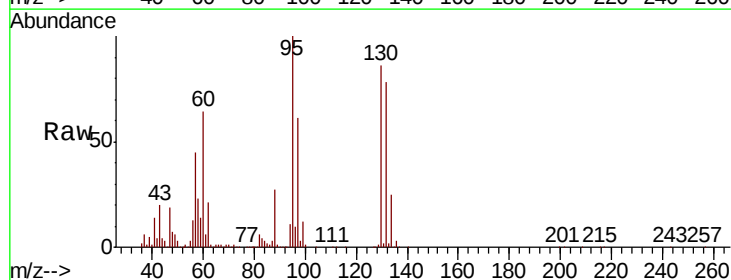
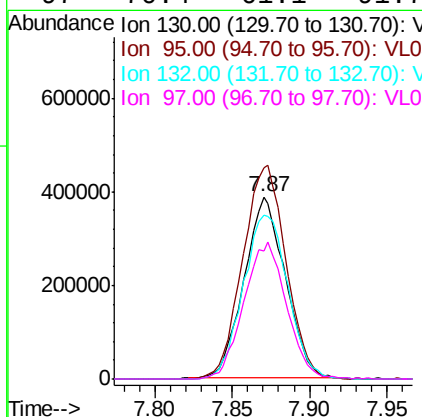
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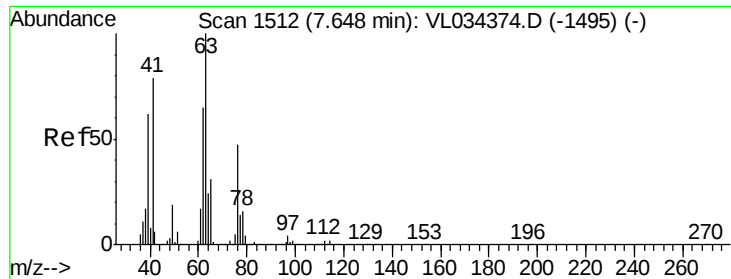
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#38
Trichloroethene
Concen: 9.049 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Tgt Ion:130 Resp: 719259
Ion Ratio Lower Upper
130 100
95 116.3 93.4 140.0
132 90.6 76.4 114.6
97 70.4 61.1 91.7





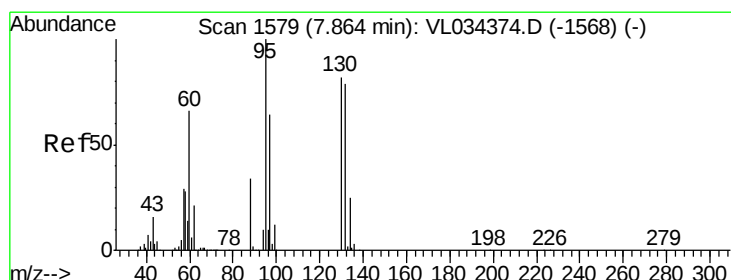
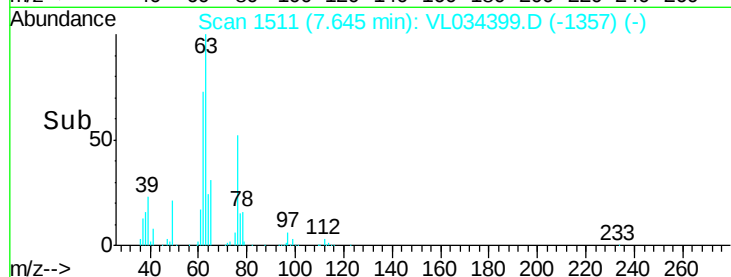
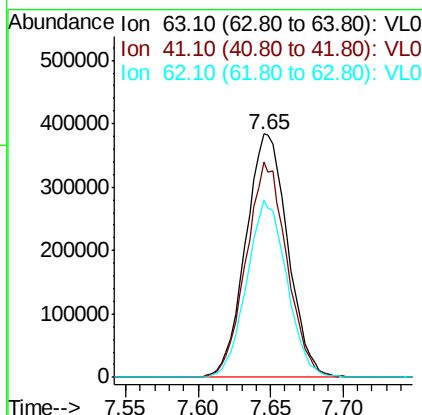
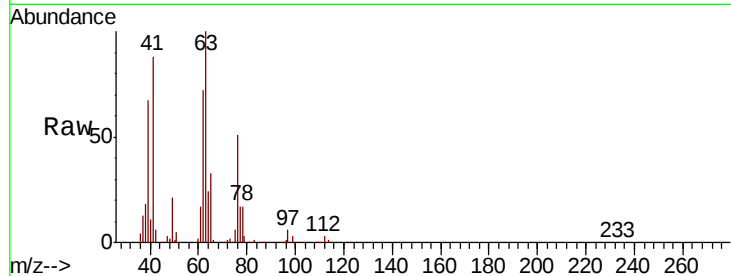
#39
 1,2-Dichloropropane
 Concen: 9.439 ppbv
 RT: 7.65 min Scan# 1511
 Delta R.T. -0.00 min
 Lab File: VL034399.D
 Acq: 20 Nov 2019 4:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	88.4	63.1	94.7
62	72.5	52.3	78.5

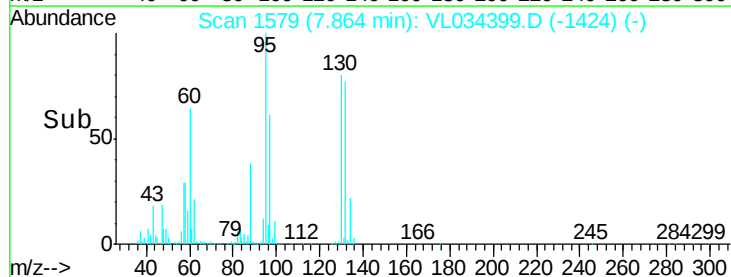
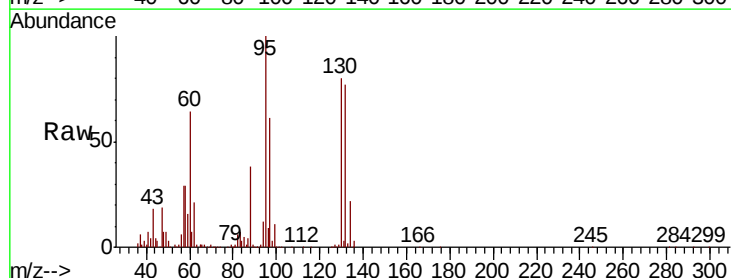
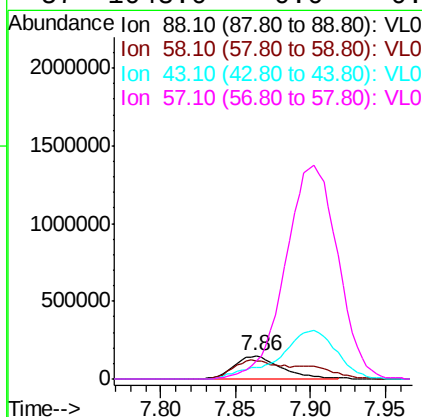
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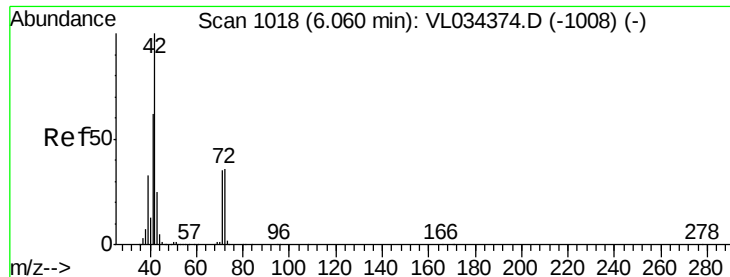
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 11/20/2019 3:54:33 PM



#40
 1,4-Dioxane
 Concen: 9.815 ppbv
 RT: 7.86 min Scan# 1579
 Delta R.T. -0.00 min
 Lab File: VL034399.D
 Acq: 20 Nov 2019 4:06

Tgt Ion	Ratio	Lower	Upper
88	100		
58	131.2	109.5	164.3
43	262.8	0.0	0.0#
57	1048.0	0.0	0.0#





#41

Tetrahydrofuran

Concen: 9.693 ppbv

RT: 6.06 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VL034399.D

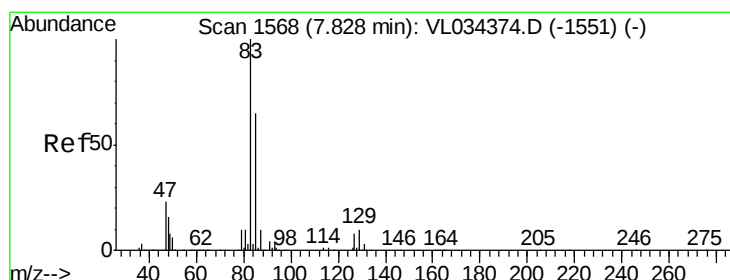
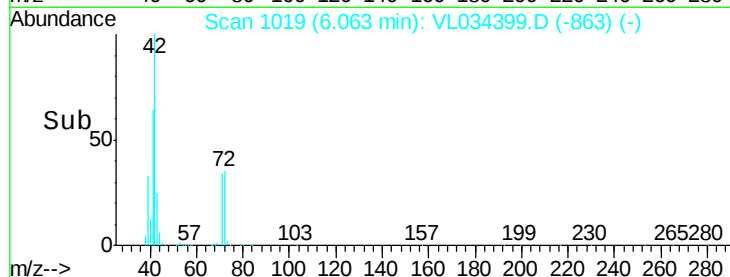
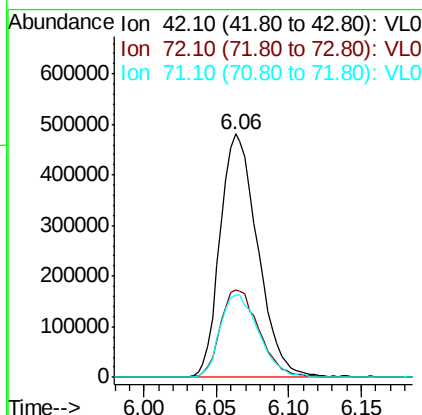
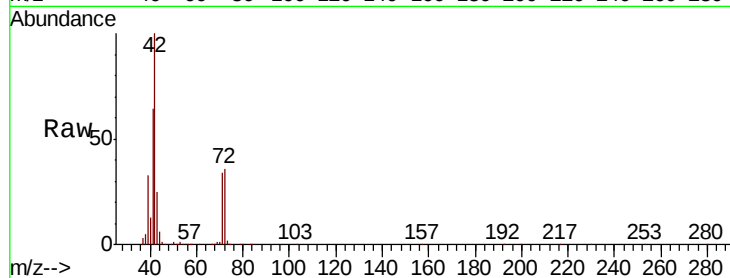
Acq: 20 Nov 2019 4:06

Tot Ion:	42	Resp:	867100
Ion	Ratio	Lower	Upper
42	100		
72	37.3	30.2	45.4
71	35.3	29.4	44.2

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

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#42

Bromodichloromethane

Concen: 9.725 ppbv

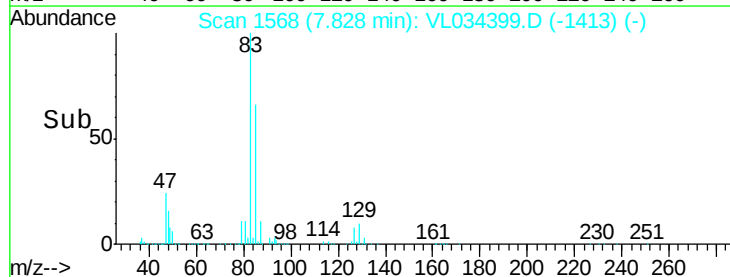
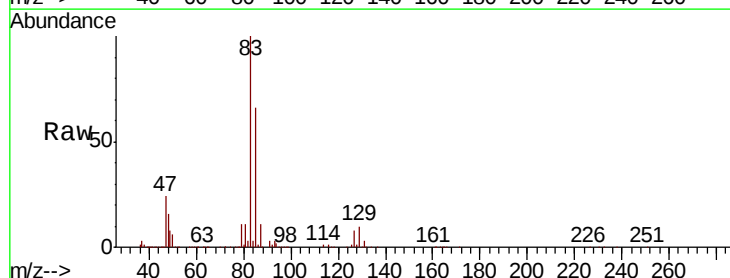
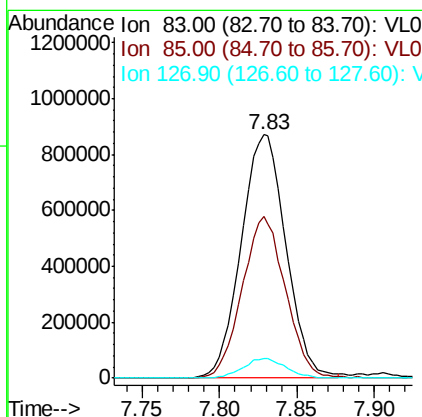
RT: 7.83 min Scan# 1568

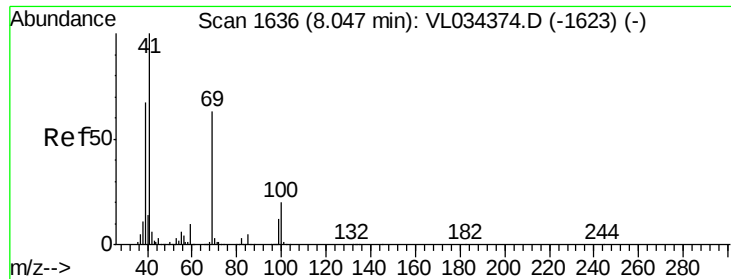
Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Tgt Ion:	83	Resp:	1749970
Ion	Ratio	Lower	Upper
83	100		
85	66.4	52.3	78.5
127	7.8	6.1	9.1





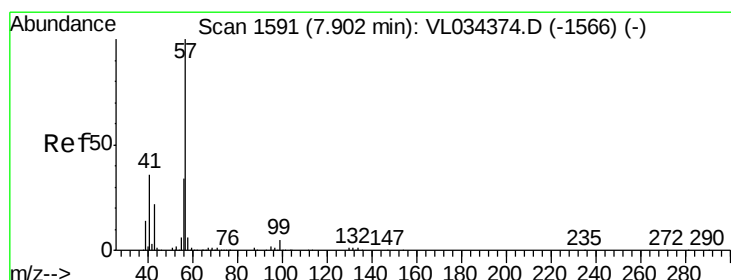
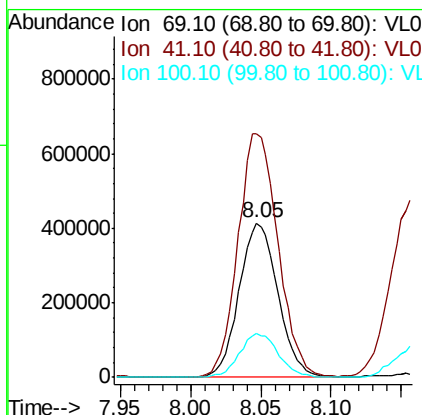
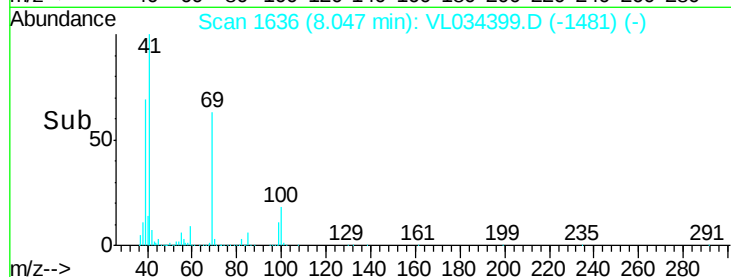
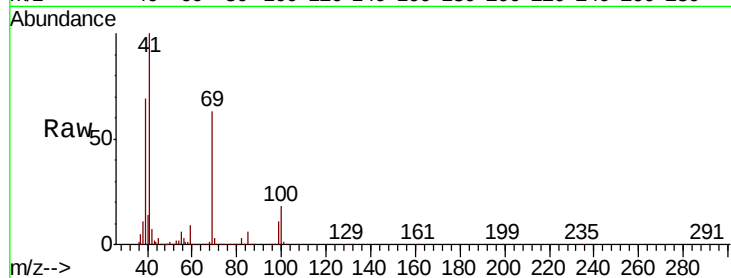
#43
Methvl Methacrylate
Concen: 9.934 ppbv
RT: 8.05 min Scan# 1636
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	162.9	127.4	191.2	
100	28.5	24.2	36.4	

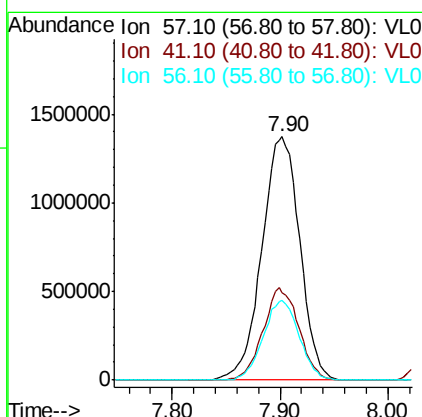
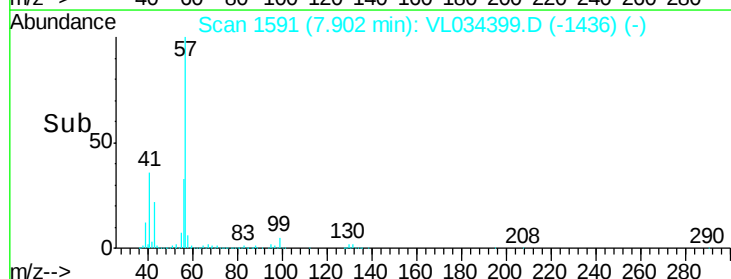
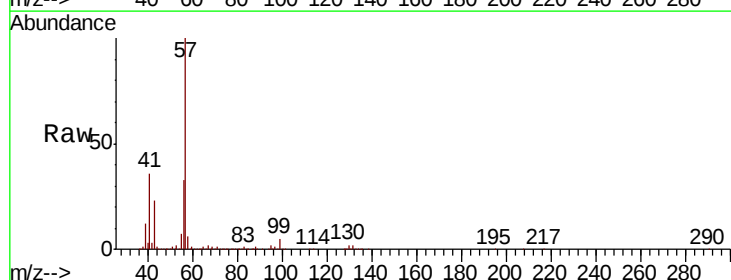
Manual Integrations
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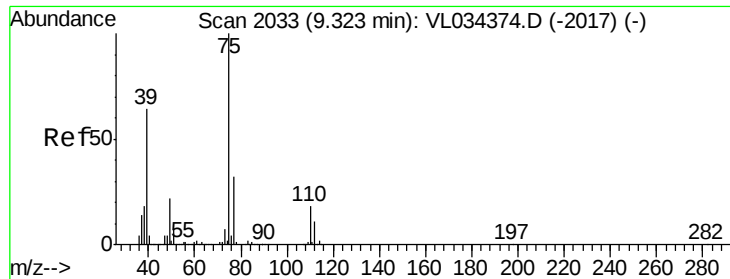
MMDadoda
11/20/2019 3:54:33 PM



#44
2,2,4-Trimethylpentane
Concen: 9.448 ppbv
RT: 7.90 min Scan# 1591
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	35.8	28.6	42.8	
56	31.0	25.3	37.9	





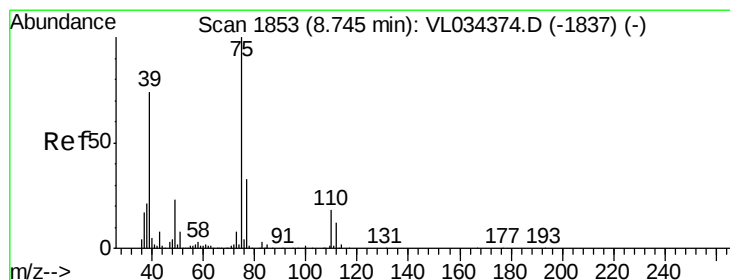
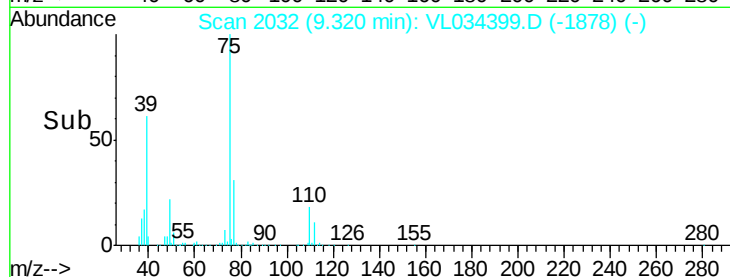
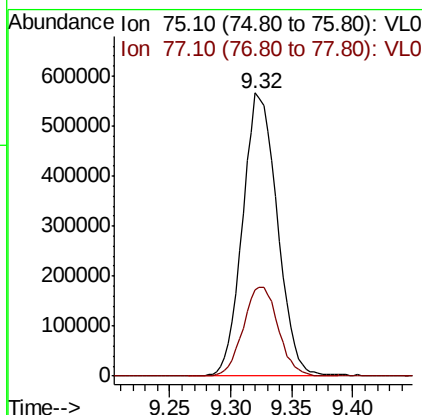
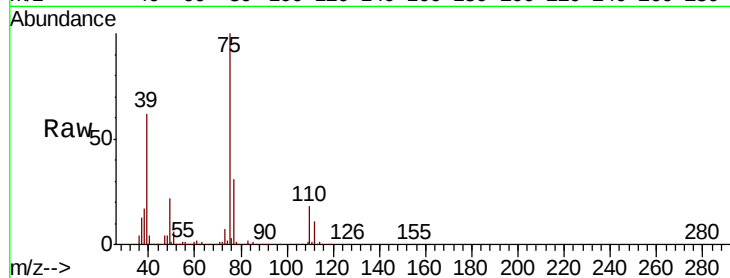
#45
t-1,3-Dichloropropene
Concen: 10.737 ppbv
RT: 9.32 min Scan# 2032
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 1106220
Ion Ratio Lower Upper
75 100
77 30.6 25.4 38.2

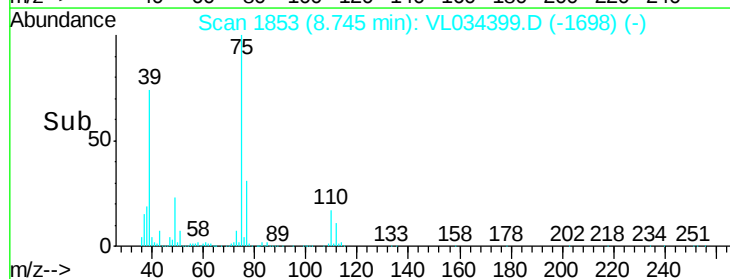
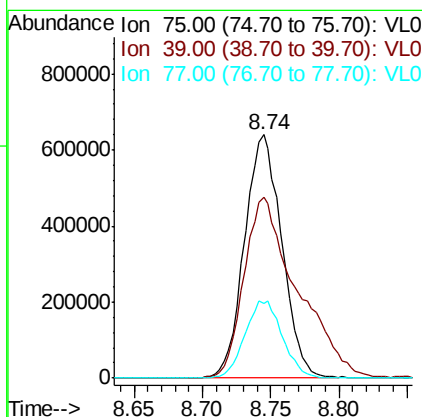
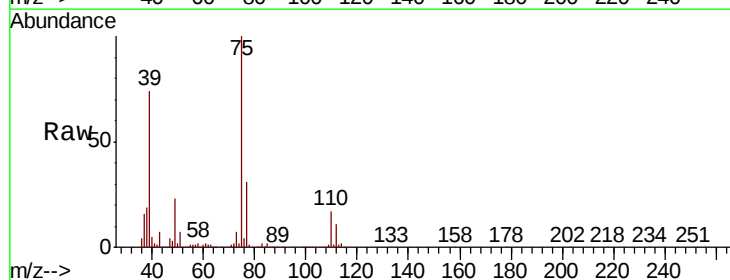
Manual Integrations
APPROVED

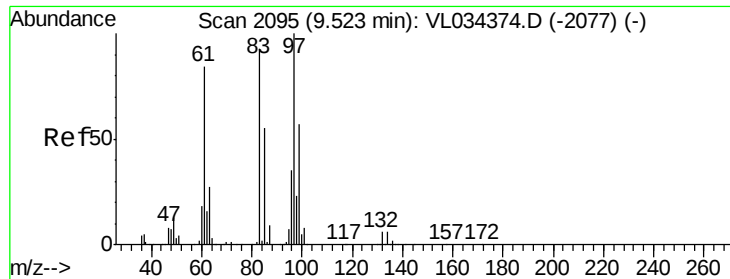
MMDadoda
11/20/2019 3:54:33 PM



#46
cis-1,3-Dichloropropene
Concen: 10.517 ppbv
RT: 8.74 min Scan# 1853
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Tgt Ion: 75 Resp: 1217043
Ion Ratio Lower Upper
75 100
39 74.1 59.0 88.6
77 30.9 26.4 39.6





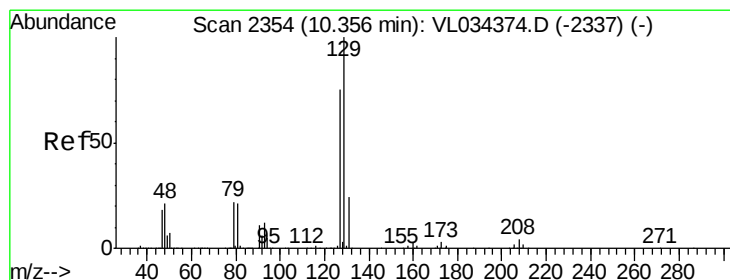
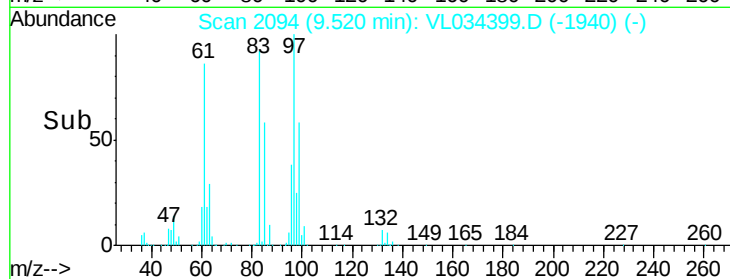
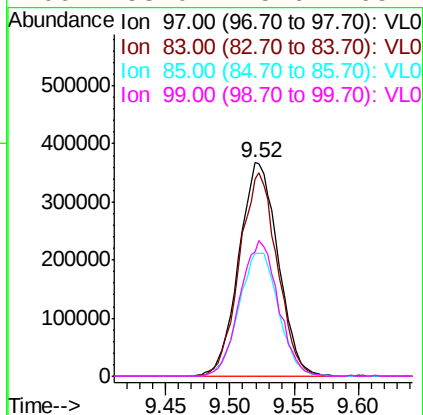
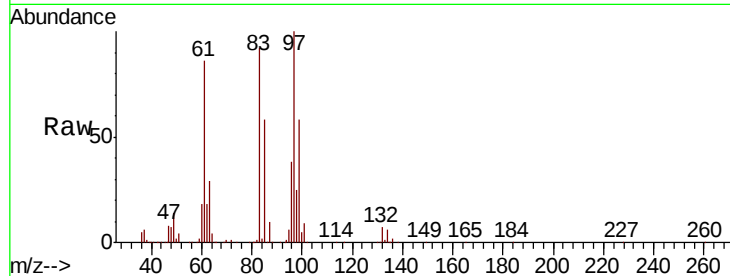
#47
 1,1,2-Trichloroethane
 Concen: 9.385 ppbv
 RT: 9.52 min Scan# 2094
 Delta R.T. -0.00 min
 Lab File: VL034399.D
 Acq: 20 Nov 2019 4:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
97	100		
83	92.3	74.6	112.0
85	57.8	43.8	65.8
99	58.0	45.6	68.4

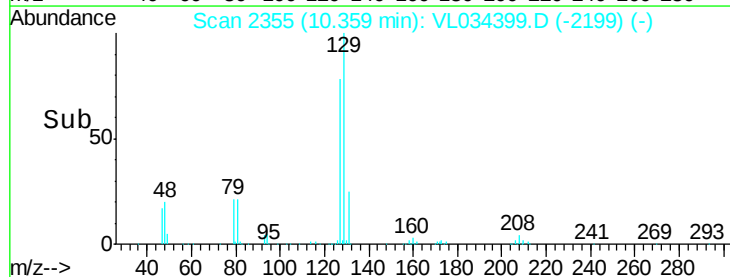
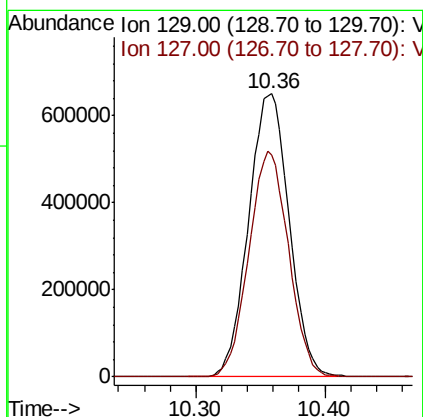
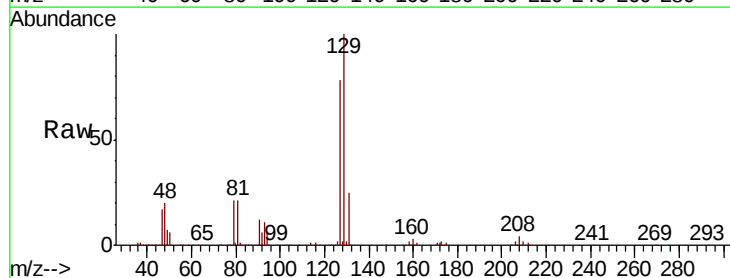
Manual Integrations
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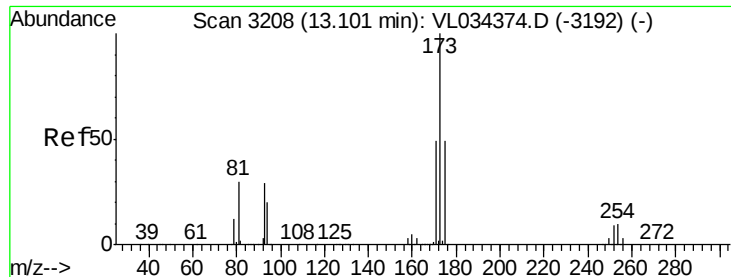
MMDadoda
 11/20/2019 3:54:33 PM



#48
 Dibromochloromethane
 Concen: 10.007 ppbv
 RT: 10.36 min Scan# 2355
 Delta R.T. 0.00 min
 Lab File: VL034399.D
 Acq: 20 Nov 2019 4:06

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.1	117.5





#49

Bromoform

Concen: 9.785 ppbv

RT: 13.10 min Scan# 3208

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1244895

Ion Ratio Lower Upper

173 100

175 49.0 39.3 58.9

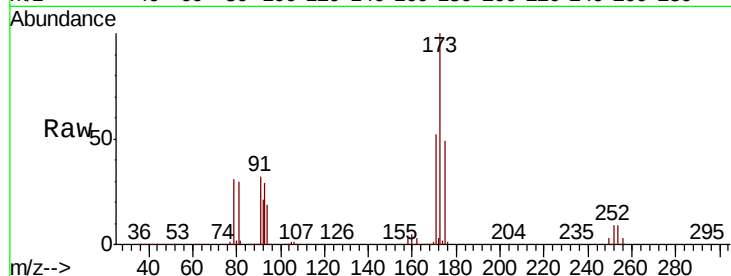
171 52.8 42.4 63.6

Manual Integrations

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MMDadoda

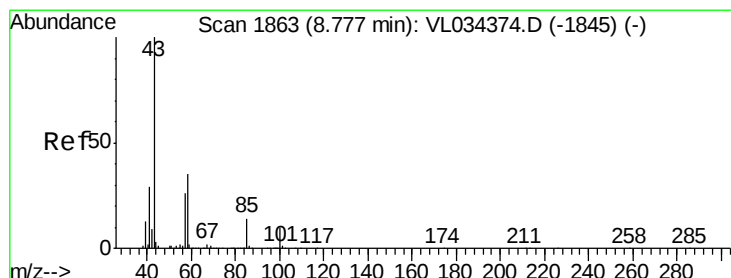
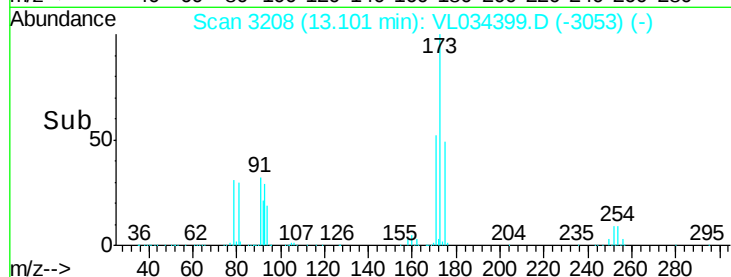
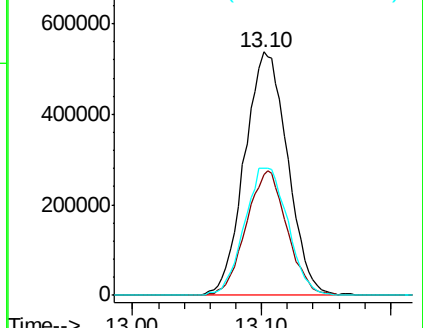
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.838 ppbv

RT: 8.78 min Scan# 1863

Delta R.T. -0.00 min

Lab File: VL034399.D

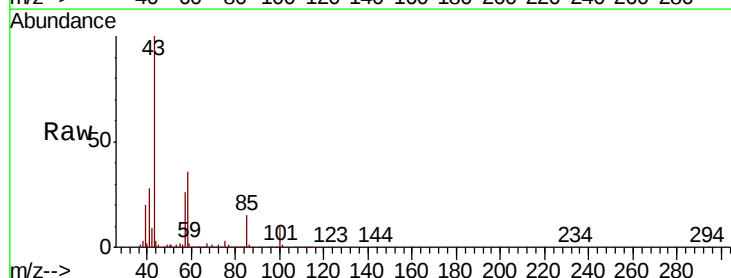
Acq: 20 Nov 2019 4:06

Tgt Ion: 43 Resp: 2270178

Ion Ratio Lower Upper

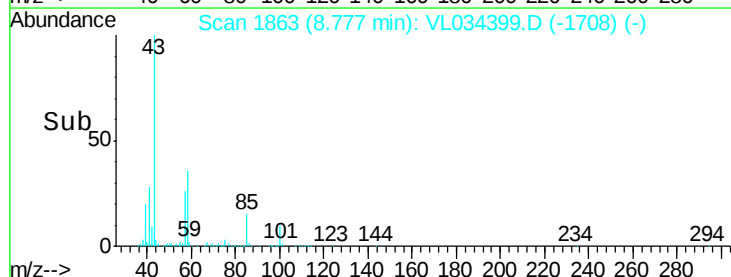
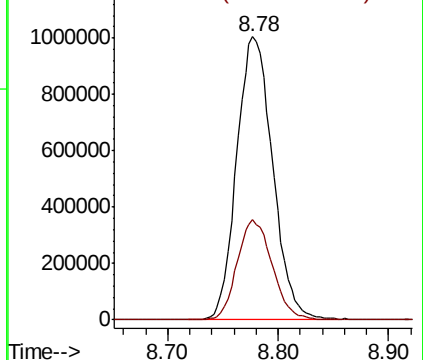
43 100

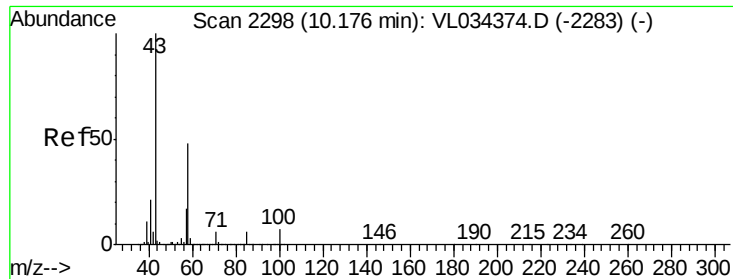
58 34.6 27.9 41.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





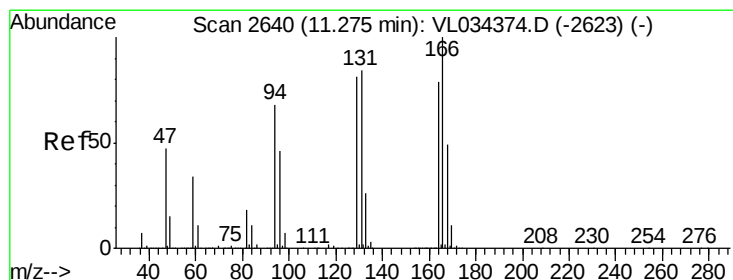
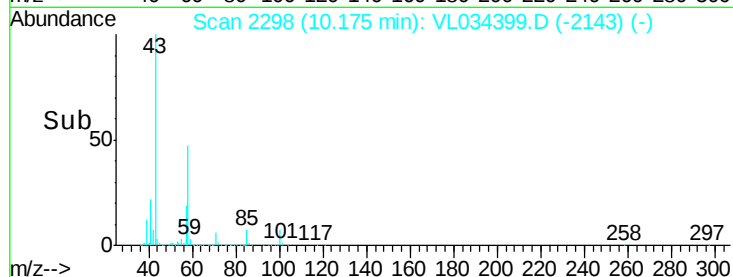
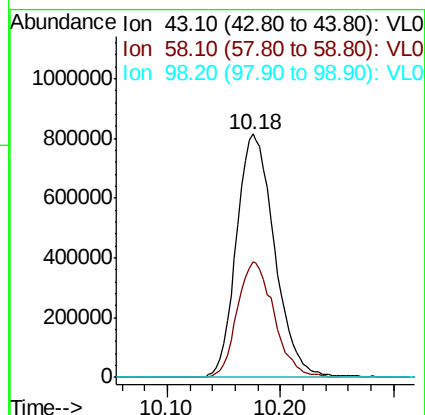
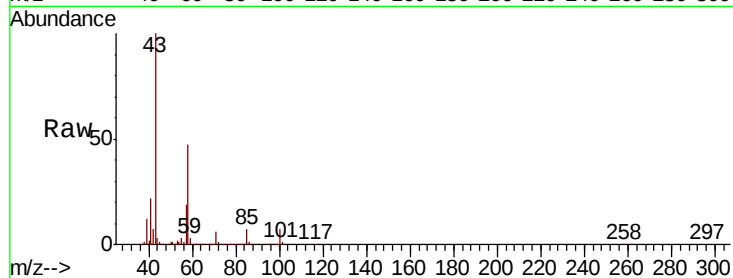
#51
2-Hexanone
Concen: 9.842 ppbv
RT: 10.18 min Scan# 2298
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1902307
Ion Ratio Lower Upper
43 100
58 46.3 38.2 57.4
98 0.3 0.2 0.2#

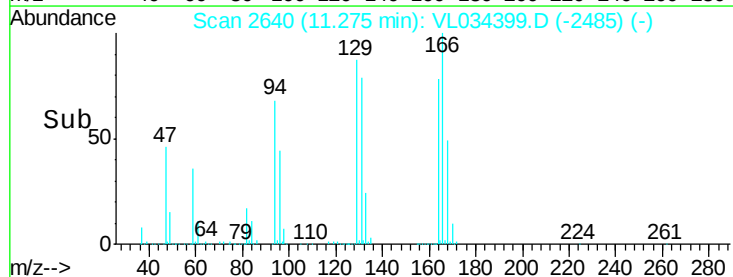
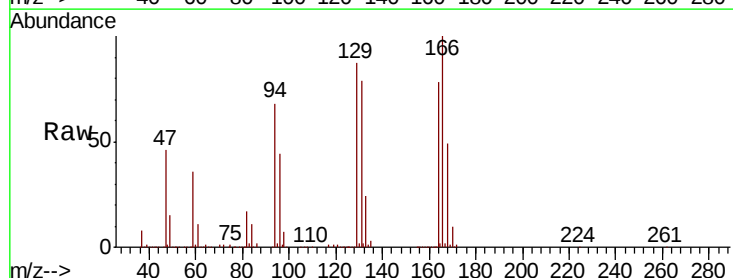
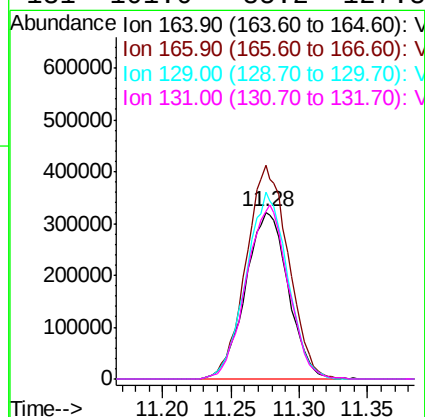
Manual Integrations
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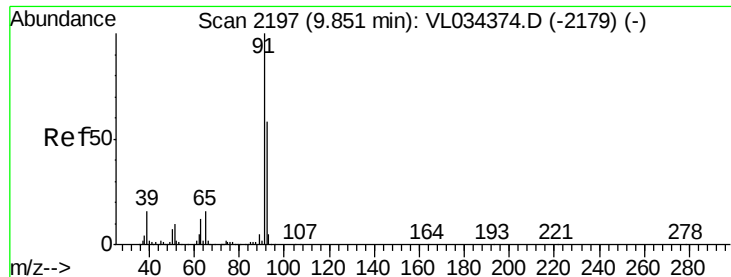
MMDadoda
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#52
Tetrachloroethene
Concen: 8.324 ppbv
RT: 11.28 min Scan# 2640
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Tgt Ion: 164 Resp: 697541
Ion Ratio Lower Upper
164 100
166 128.3 101.7 152.5
129 112.2 82.6 123.8
131 101.0 85.2 127.8





#53

Toluene

Concen: 9.730 ppbv

RT: 9.85 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2140576

Ion Ratio Lower Upper

91 100

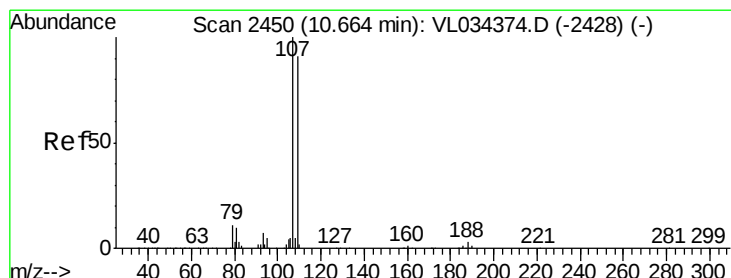
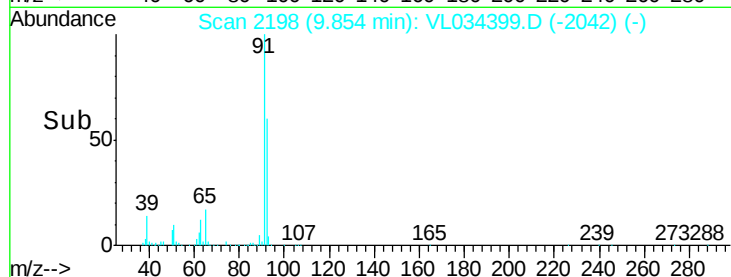
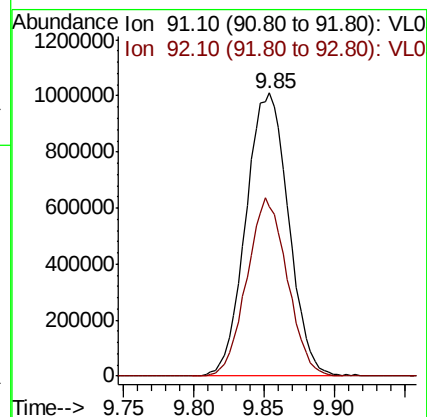
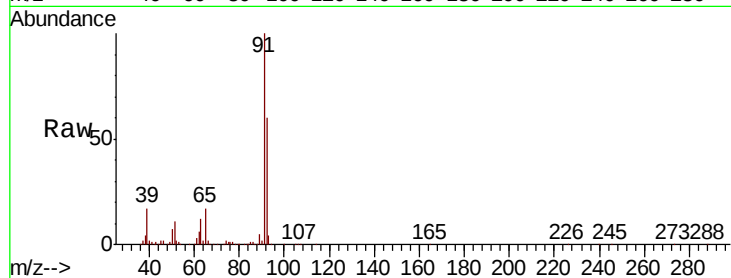
92 59.6 47.9 71.9

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#54

1,2-Dibromoethane

Concen: 9.364 ppbv

RT: 10.66 min Scan# 2449

Delta R.T. -0.00 min

Lab File: VL034399.D

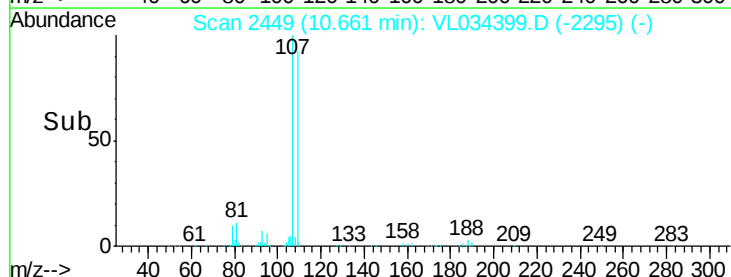
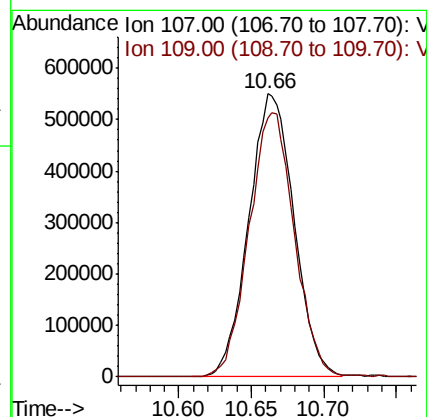
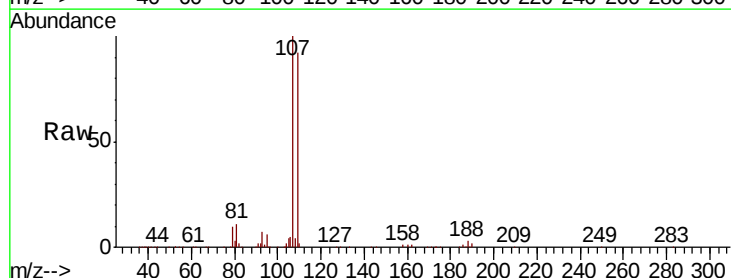
Acq: 20 Nov 2019 4:06

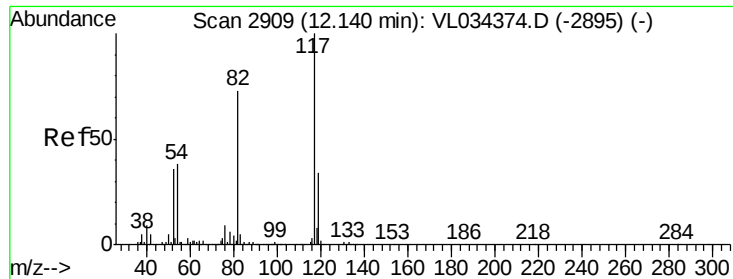
Tgt Ion: 107 Resp: 1191589

Ion Ratio Lower Upper

107 100

109 91.7 73.0 109.4





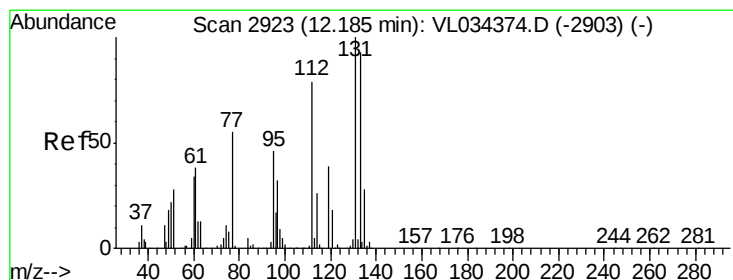
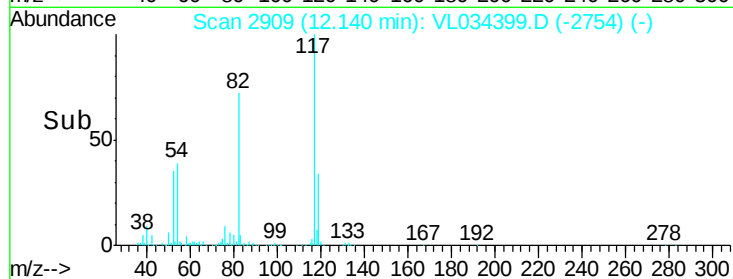
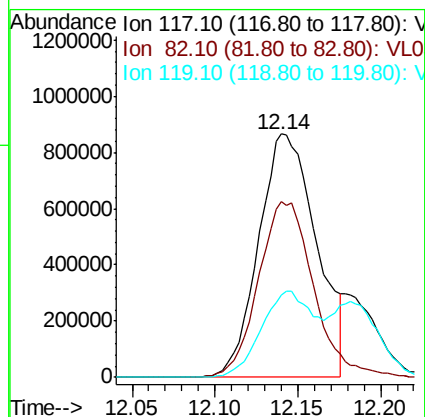
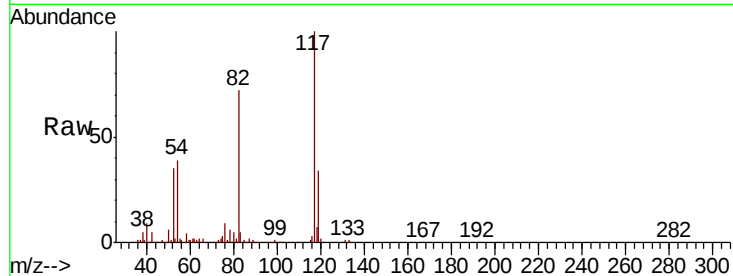
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2909
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.3	57.5	86.3
119	32.9	25.4	38.2

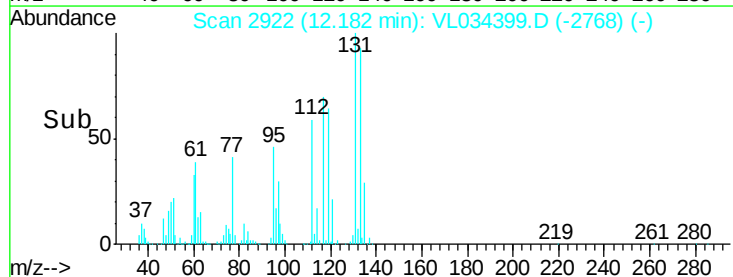
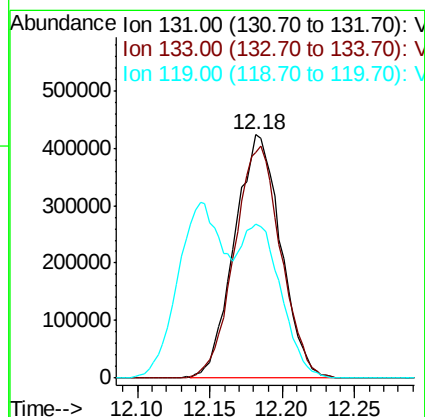
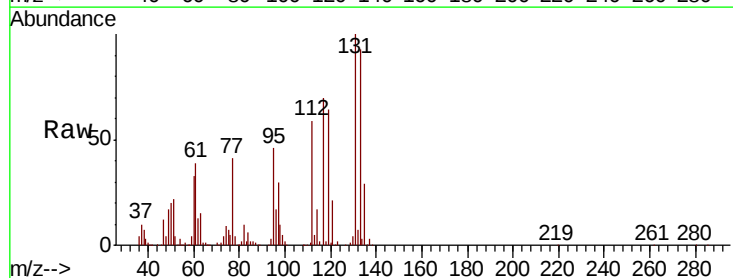
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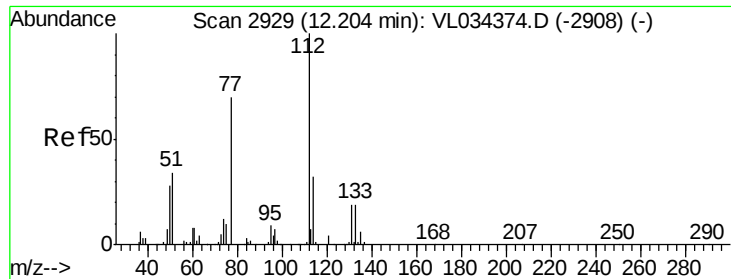
MMDadoda
11/20/2019 3:54:33 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.087 ppbv
RT: 12.18 min Scan# 2922
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.4	76.2	114.2
119	66.1	44.6	67.0





#57

Chlorobenzene

Concen: 8.566 ppbv

RT: 12.20 min Scan# 2928

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 112 Resp: 1626384

Ion Ratio Lower Upper

112 100

77 70.2 57.1 85.7

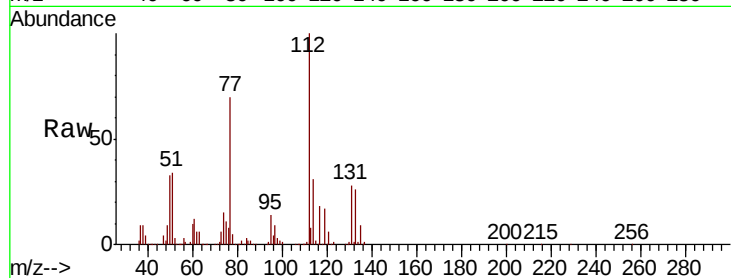
114 31.1 28.5 34.9

Manual Integrations

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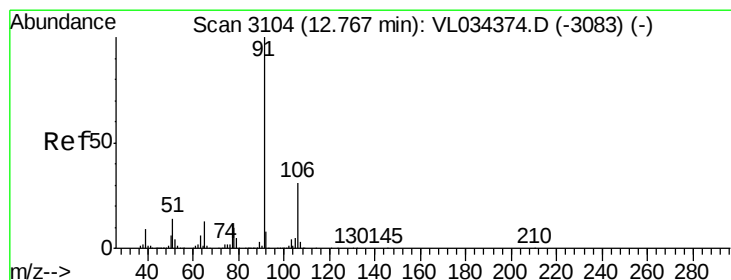
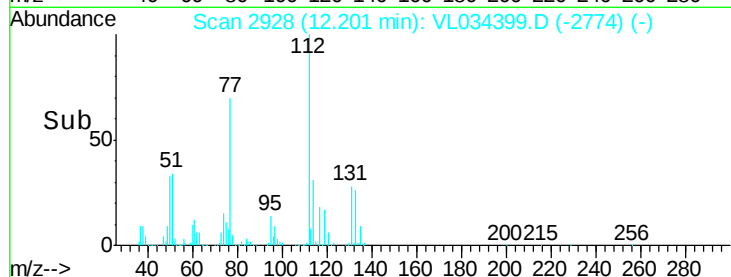
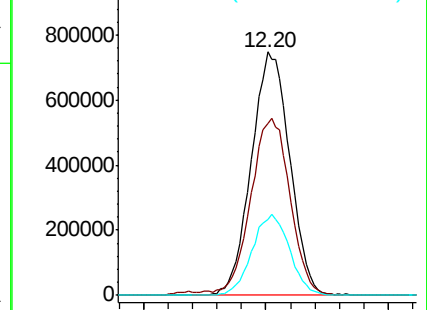
11/20/2019 3:54:33 PM



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: 8.995 ppbv

RT: 12.76 min Scan# 3103

Delta R.T. -0.00 min

Lab File: VL034399.D

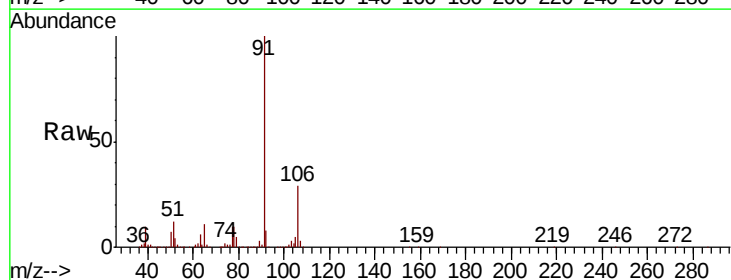
Acq: 20 Nov 2019 4:06

Tgt Ion: 91 Resp: 2931819

Ion Ratio Lower Upper

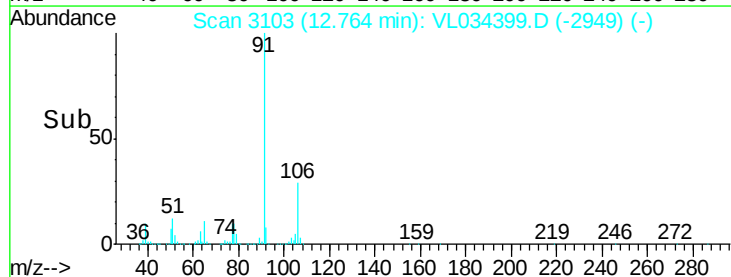
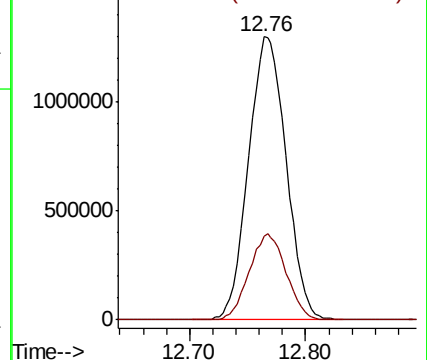
91 100

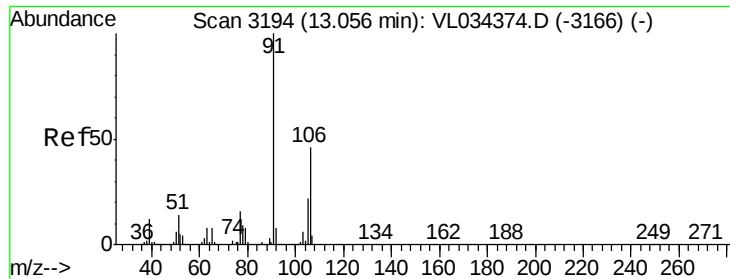
106 29.4 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





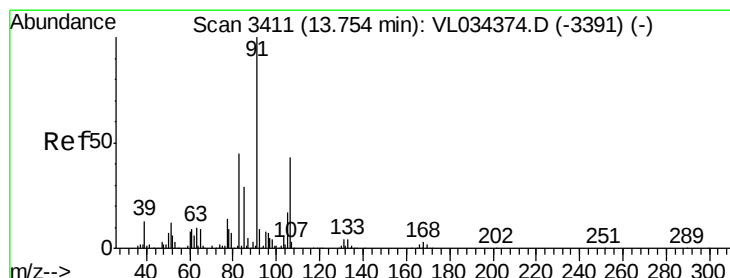
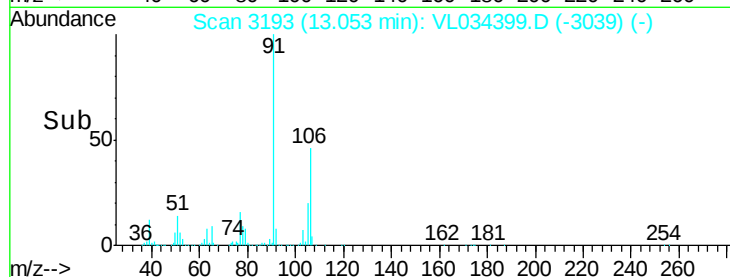
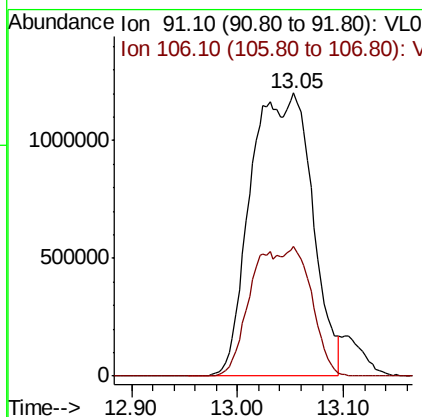
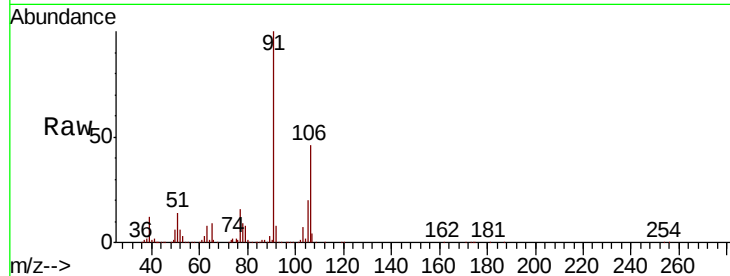
#59
m/p-Xylene
Concen: 17.138 ppbv m
RT: 13.05 min Scan# 3193
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 4828652
Ion Ratio Lower Upper
91 100
106 44.3 34.6 51.8

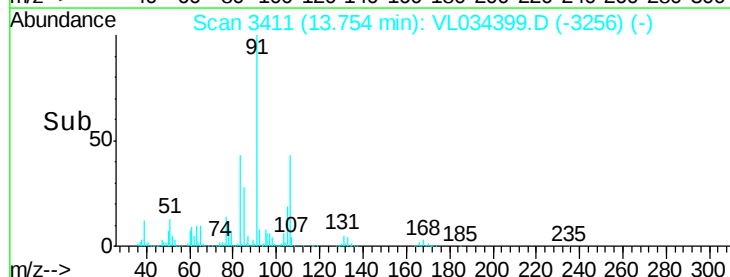
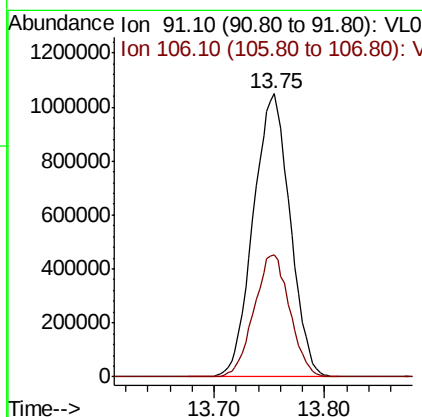
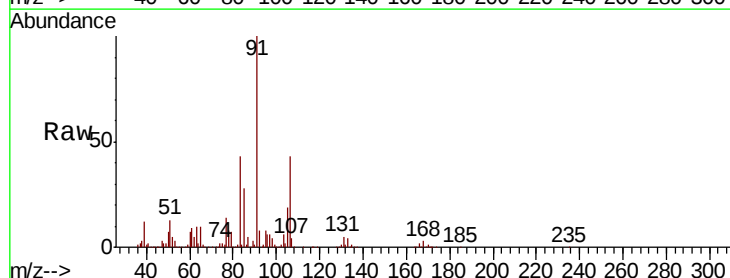
Manual Integrations
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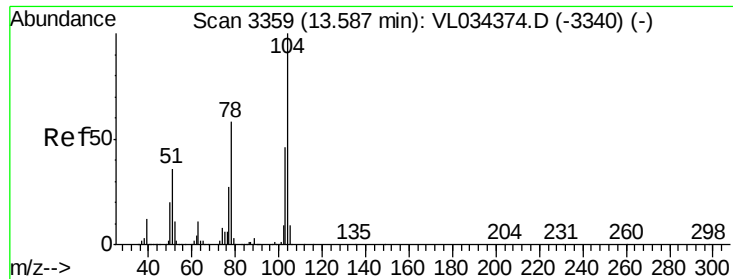
MMDadoda
11/20/2019 3:54:33 PM



#60
o-Xylene
Concen: 8.699 ppbv
RT: 13.75 min Scan# 3411
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Tgt Ion: 91 Resp: 2423402
Ion Ratio Lower Upper
91 100
106 42.0 21.3 64.0





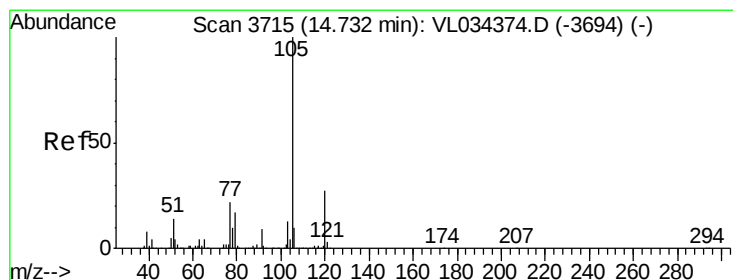
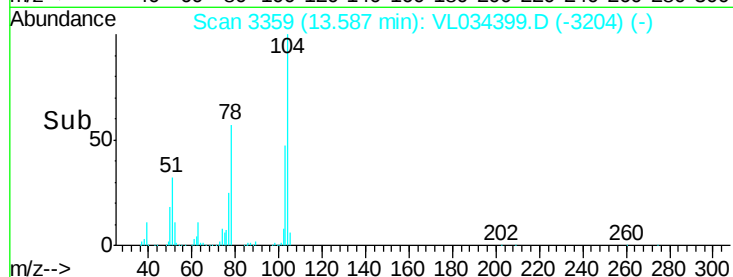
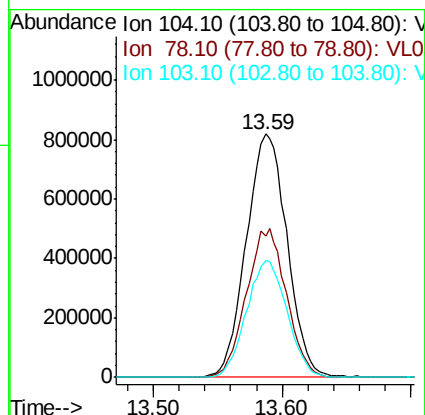
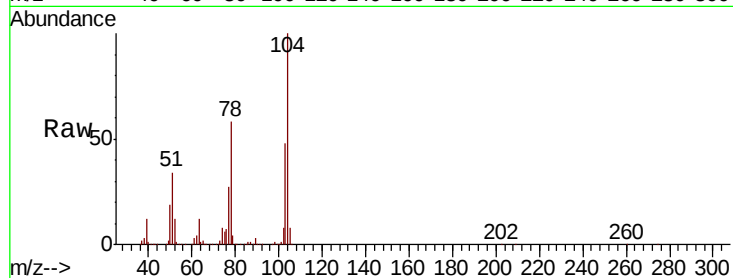
#61
Stvrene
Concen: 8.979 ppbv
RT: 13.59 min Scan# 3359
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	60.2	47.6	71.4
103	48.0	38.6	57.8

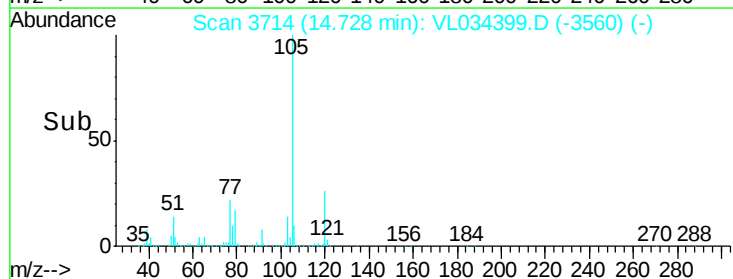
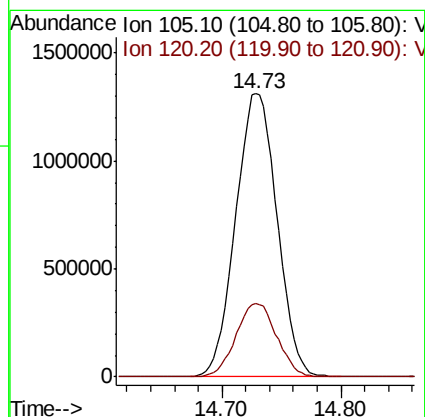
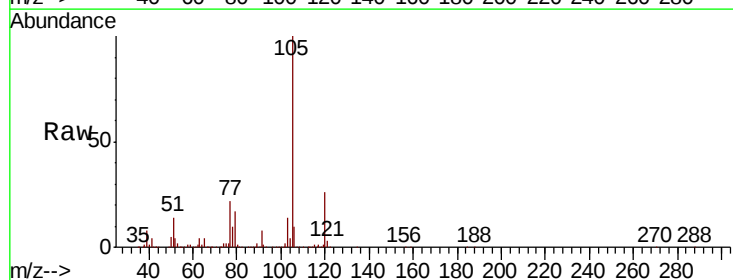
Manual Integrations
APPROVED

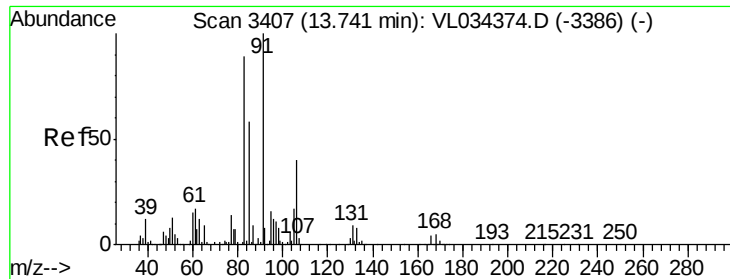
MMDadoda
11/20/2019 3:54:33 PM



#62
Isopropylbenzene
Concen: 8.568 ppbv
RT: 14.73 min Scan# 3714
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.5	20.2	30.4





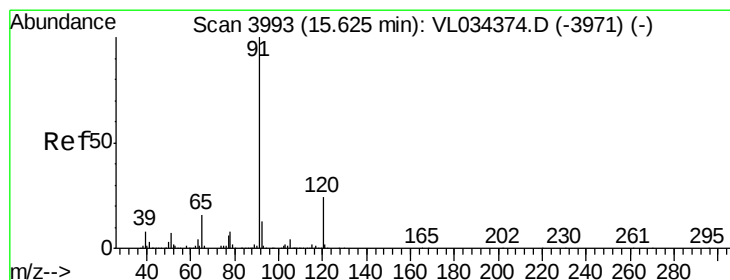
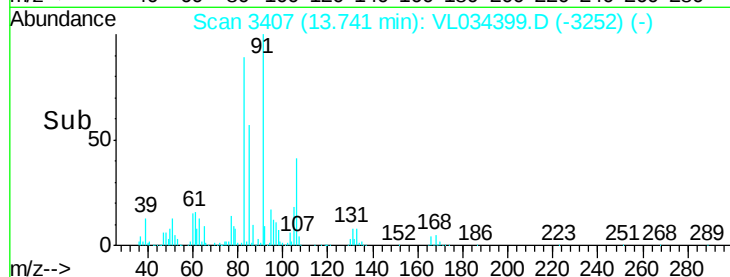
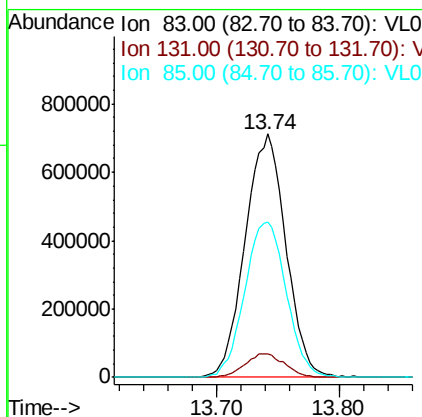
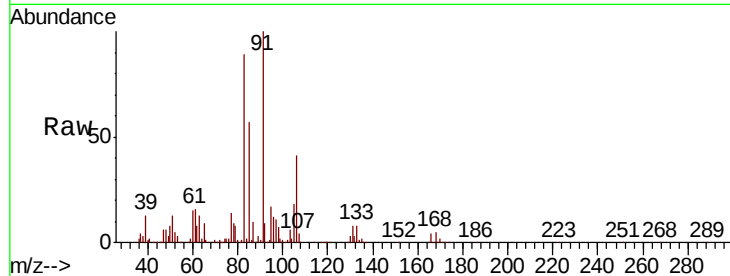
#63
1,1,2,2-Tetrachloroethane
Concen: 7.840 ppbv
RT: 13.74 min Scan# 3407
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	83	Resp	1641782
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.9	14.7
85	65.4	32.6	97.8

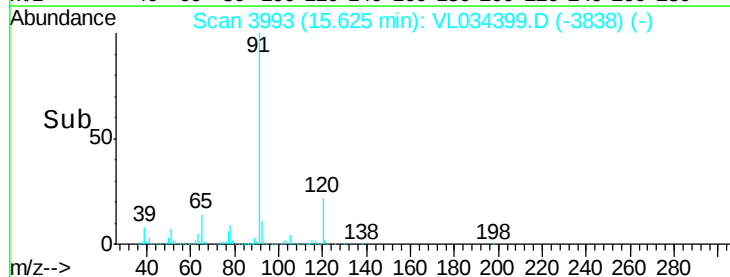
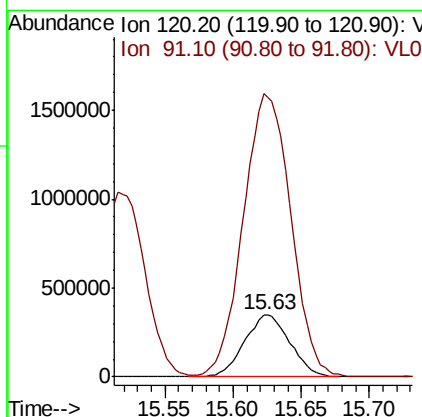
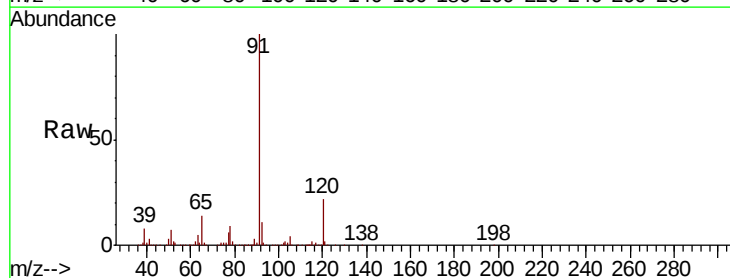
Manual Integrations
APPROVED

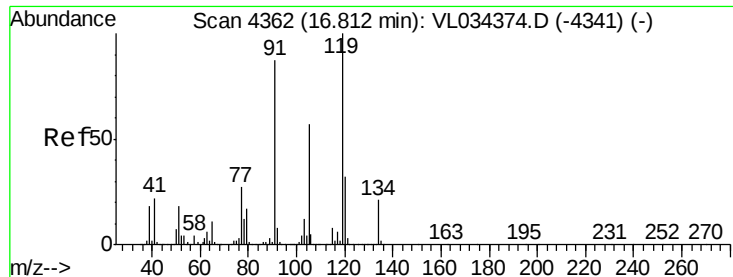
MMDadoda
11/20/2019 3:54:33 PM



#64
n-propylbenzene
Concen: 8.387 ppbv
RT: 15.63 min Scan# 3993
Delta R.T. -0.00 min
Lab File: VL034399.D
Acq: 20 Nov 2019 4:06

Tgt Ion	120	Resp	802465
Ion	Ratio	Lower	Upper
120	100		
91	482.4	370.9	556.3





#65

tert-Butylbenzene

Concen: 8.332 ppbv

RT: 16.82 min Scan# 4363

Delta R.T. 0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 2757548

Ion Ratio Lower Upper

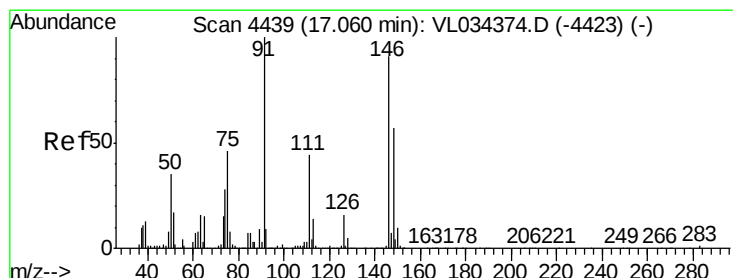
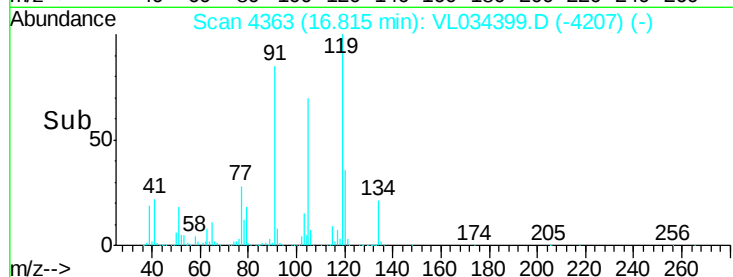
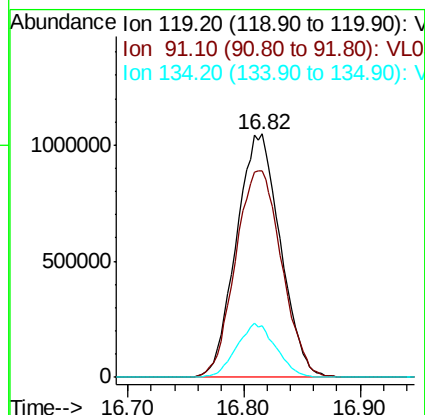
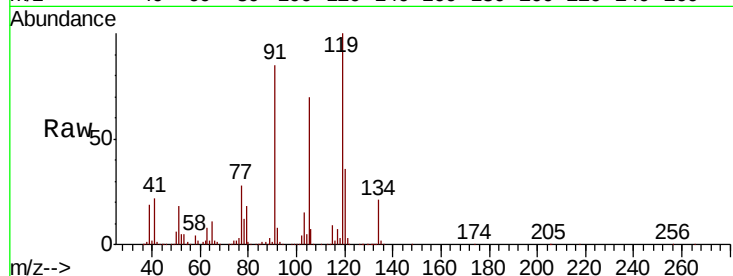
119 100

91 89.5 71.6 107.4

134 19.9 15.9 23.9

Manual Integrations
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#66

Benzyl Chloride

Concen: 10.014 ppbv

RT: 17.06 min Scan# 4439

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

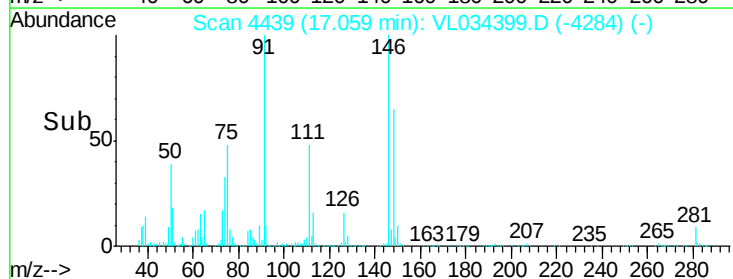
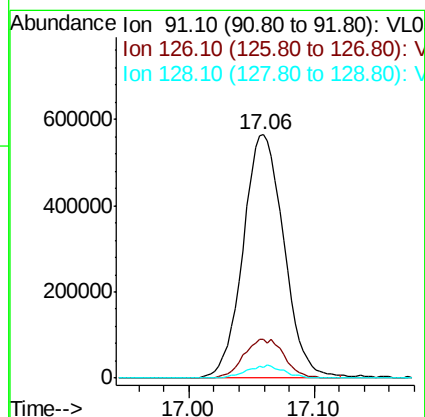
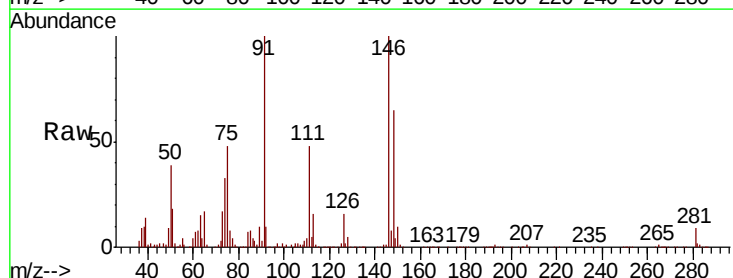
Tgt Ion: 91 Resp: 1274882

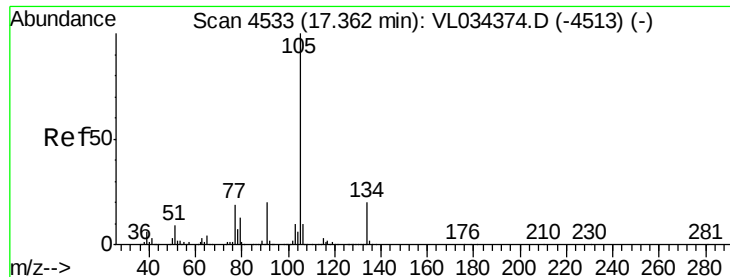
Ion Ratio Lower Upper

91 100

126 16.1 12.9 19.3

128 4.9 4.3 6.5





#67

sec-Butylbenzene

Concen: 8.335 ppbv

RT: 17.36 min Scan# 4533

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 3858522

Ion Ratio Lower Upper

105 100

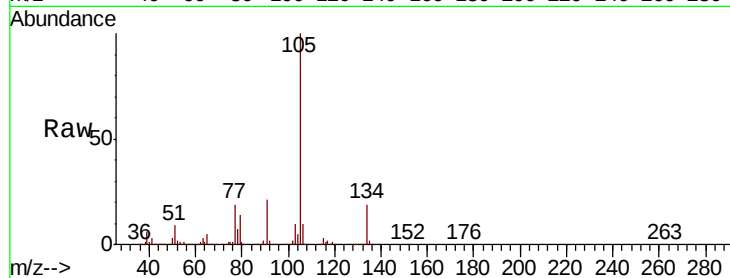
134 18.5 15.0 22.6

Manual Integrations

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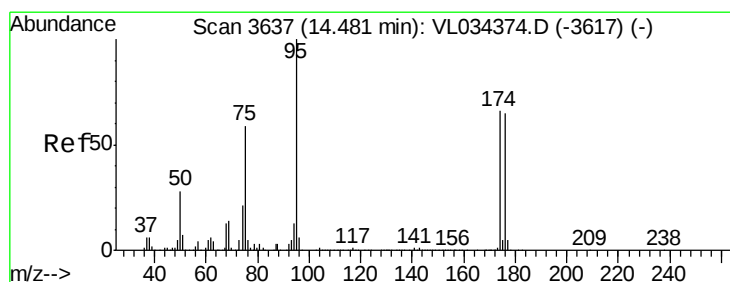
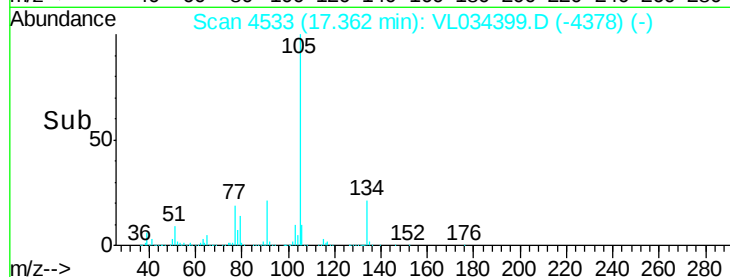
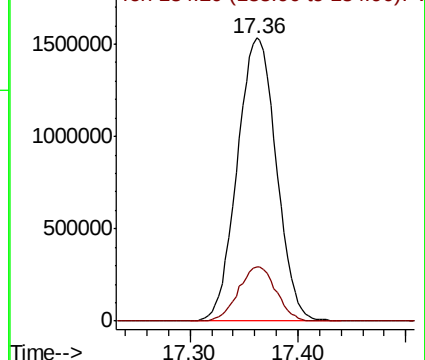
MMDadoda

11/20/2019 3:54:33 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.816 ppbv

RT: 14.48 min Scan# 3636

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

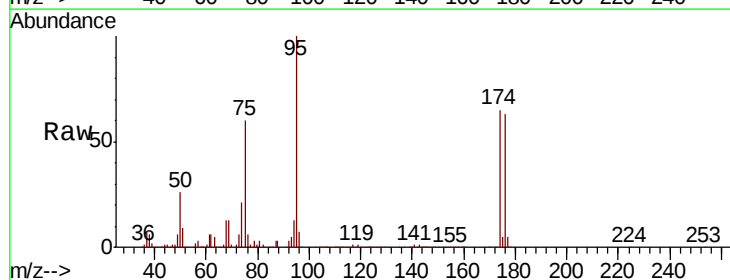
Tgt Ion: 95 Resp: 1734518

Ion Ratio Lower Upper

95 100

174 64.3 52.2 78.2

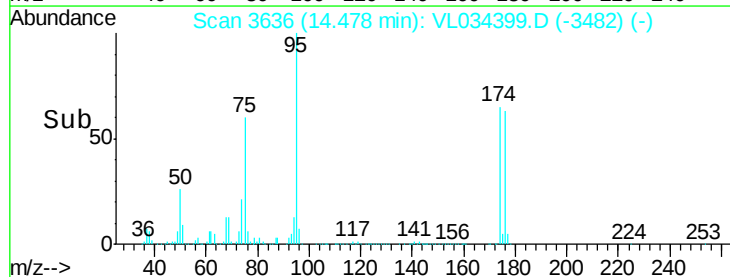
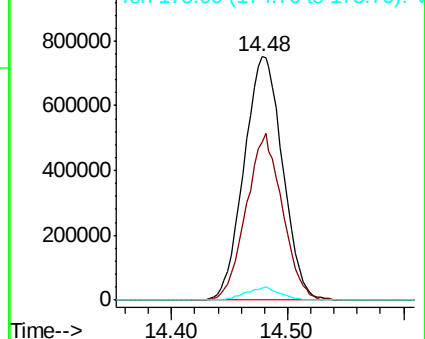
175 4.8 3.8 5.8

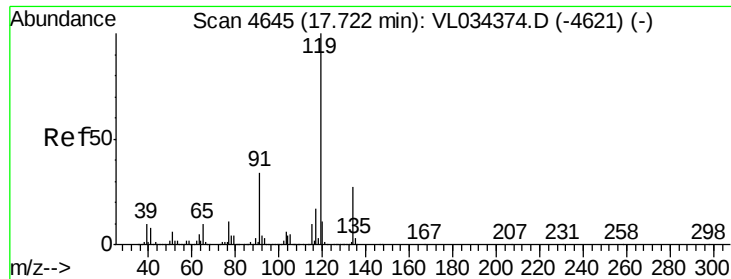


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





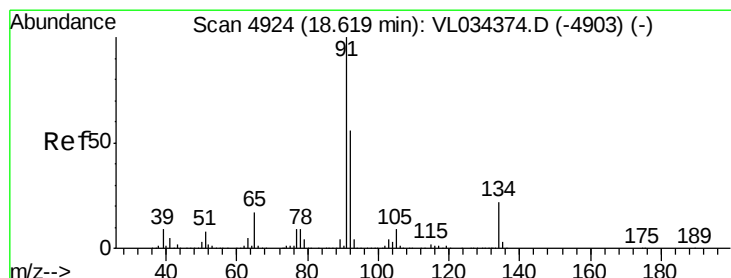
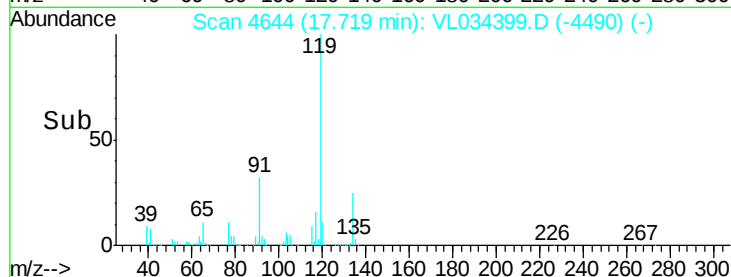
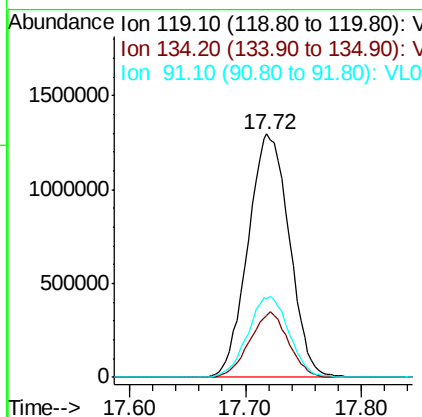
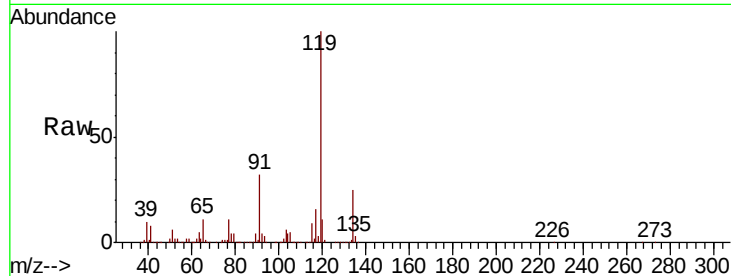
#69
 p-Isopropyltoluene
 Concen: 8.345 ppbv
 RT: 17.72 min Scan# 4644
 Delta R.T. -0.00 min
 Lab File: VL034399.D
 Acq: 20 Nov 2019 4:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.6	31.0
91	33.1	26.3	39.5

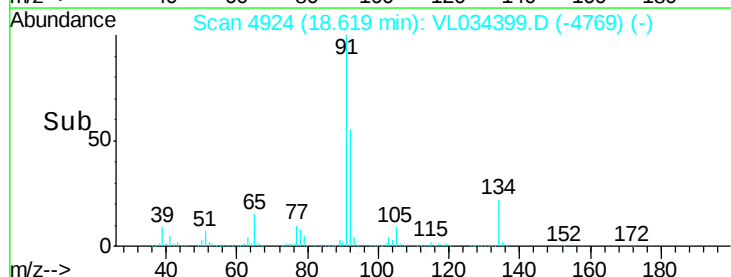
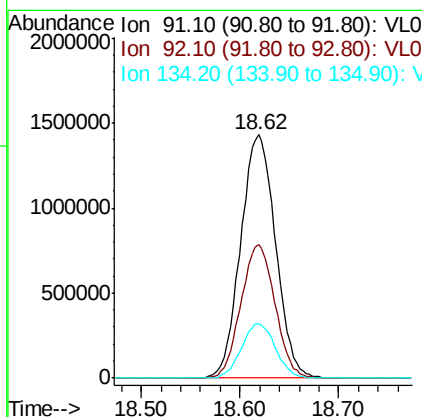
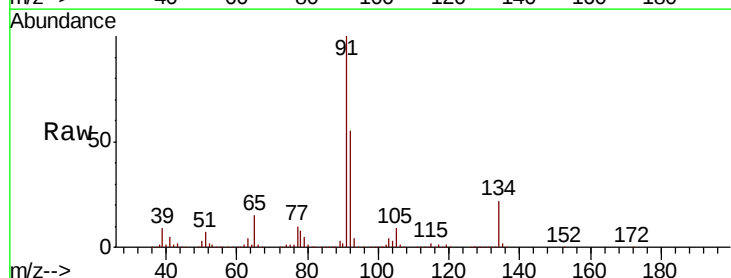
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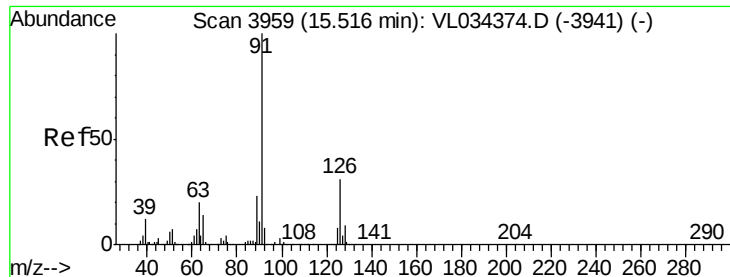
MMDadoda
 11/20/2019 3:54:33 PM



#70
 n-Butylbenzene
 Concen: 8.440 ppbv
 RT: 18.62 min Scan# 4924
 Delta R.T. -0.00 min
 Lab File: VL034399.D
 Acq: 20 Nov 2019 4:06

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.8	43.8	65.6
134	21.9	17.9	26.9





#71

2-Chlorotoluene

Concen: 8.384 ppbv

RT: 15.52 min Scan# 3959

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2462874

Ion Ratio Lower Upper

91 100

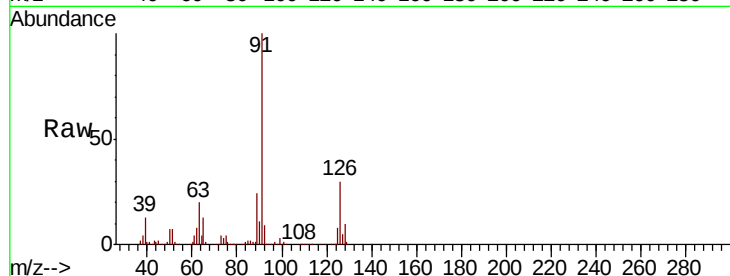
126 29.4 11.8 47.4

Manual Integrations

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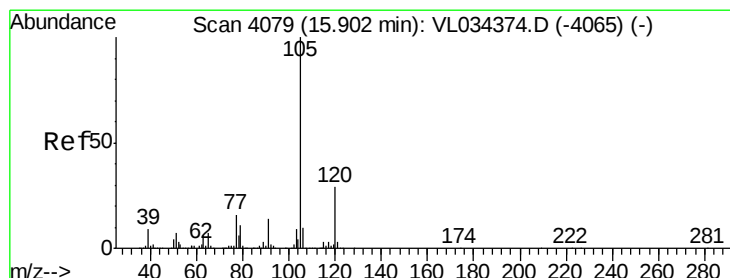
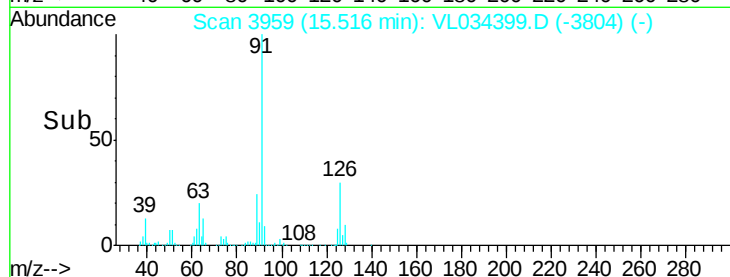
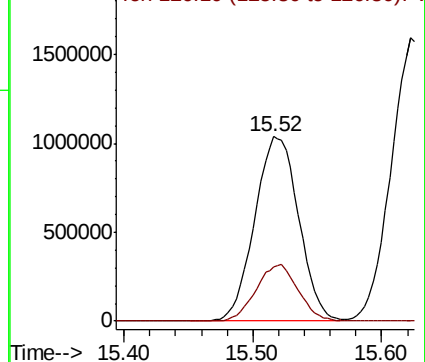
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 8.616 ppbv

RT: 15.90 min Scan# 4079

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Tgt Ion: 105 Resp: 2773320

Ion Ratio Lower Upper

105 100

120 28.5 23.5 35.3

91 14.5 11.4 17.0

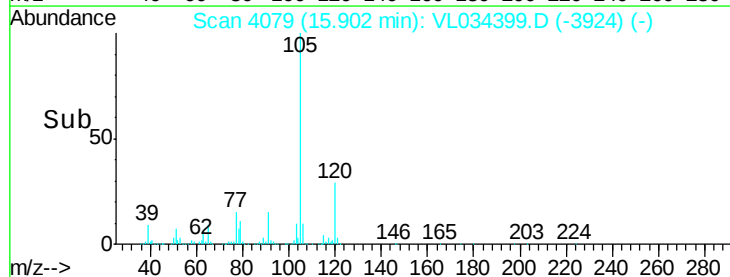
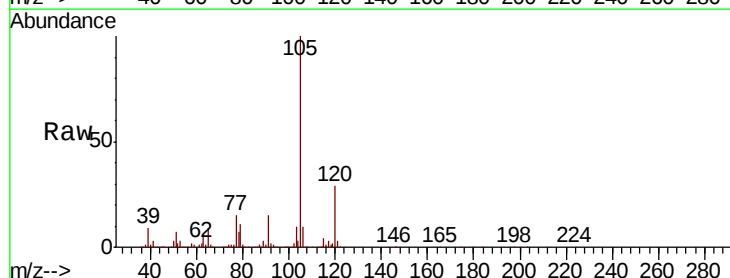
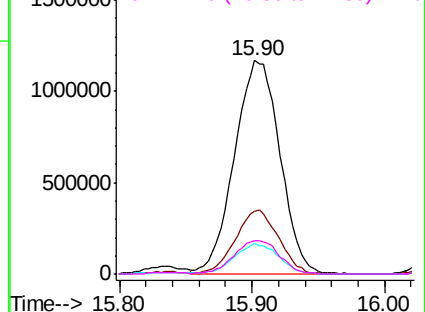
77 15.7 12.6 19.0

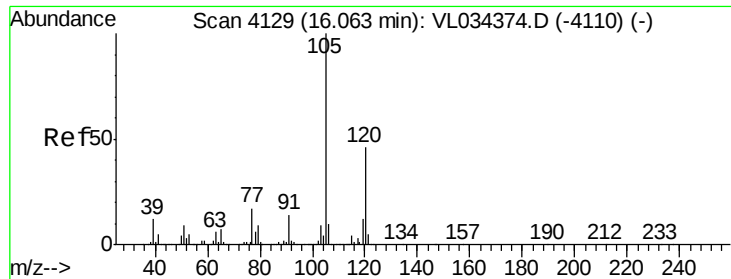
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





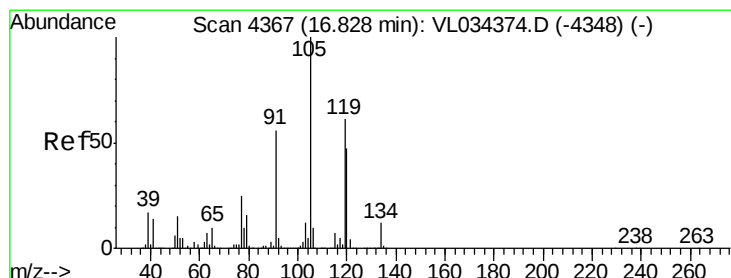
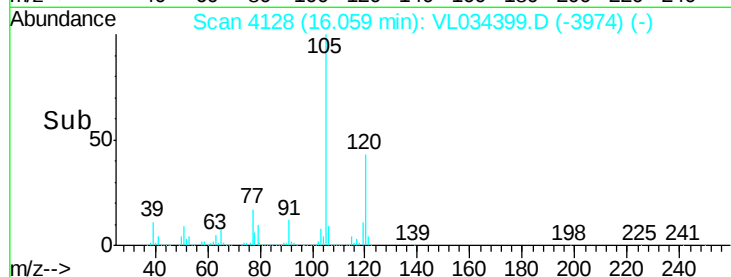
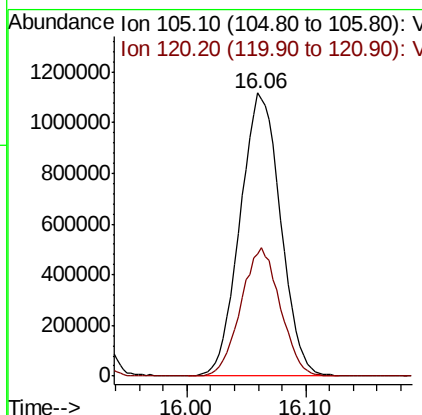
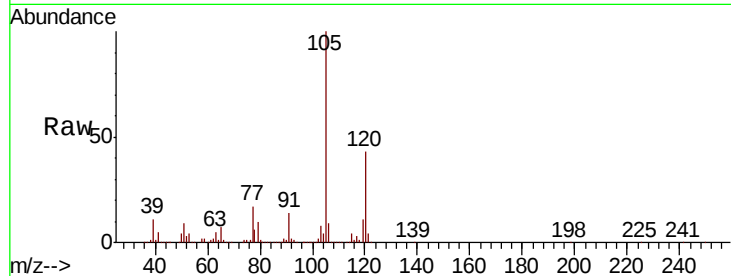
#73
 1,3,5-Trimethylbenzene
 Concen: 8.347 ppbv
 RT: 16.06 min Scan# 4128
 Delta R.T. -0.00 min
 Lab File: VL034399.D
 Acq: 20 Nov 2019 4:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:105 Resp: 2629865
 Ion Ratio Lower Upper
 105 100
 120 43.3 37.1 55.7

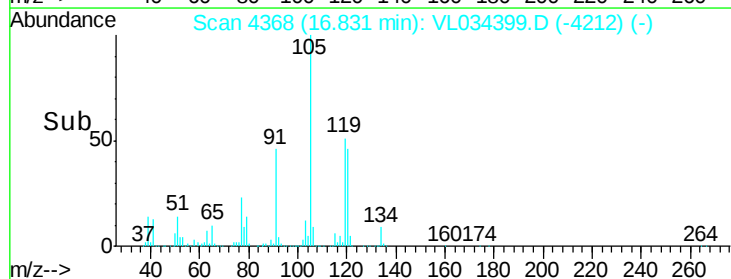
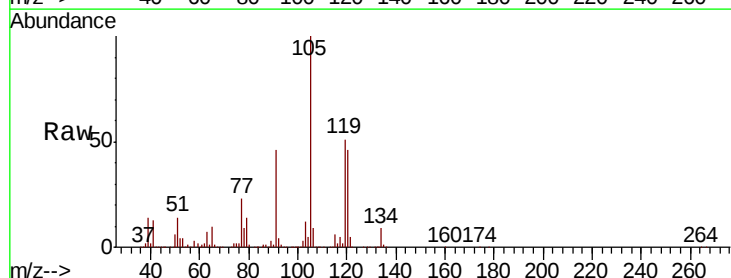
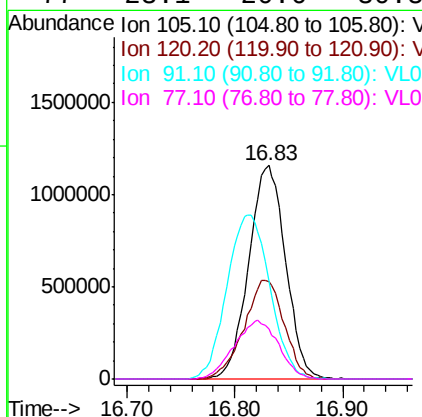
Manual Integrations
 APPROVED

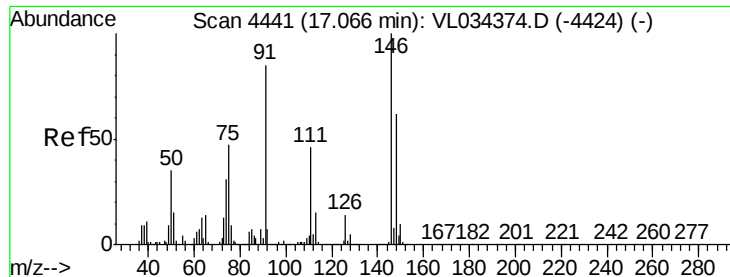
MMDadoda
 11/20/2019 3:54:33 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 8.194 ppbv
 RT: 16.83 min Scan# 4368
 Delta R.T. 0.00 min
 Lab File: VL034399.D
 Acq: 20 Nov 2019 4:06

Tgt Ion:105 Resp: 2742404
 Ion Ratio Lower Upper
 105 100
 120 45.7 37.4 56.0
 91 45.4 46.3 69.5#
 77 23.1 20.6 30.8





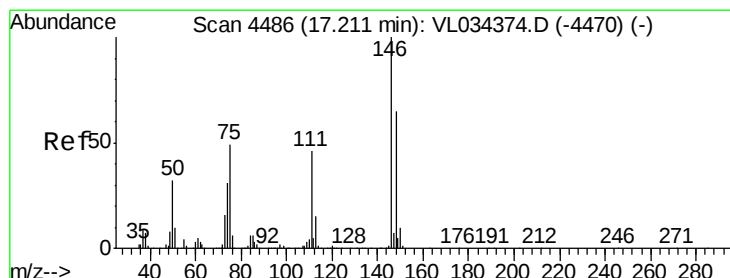
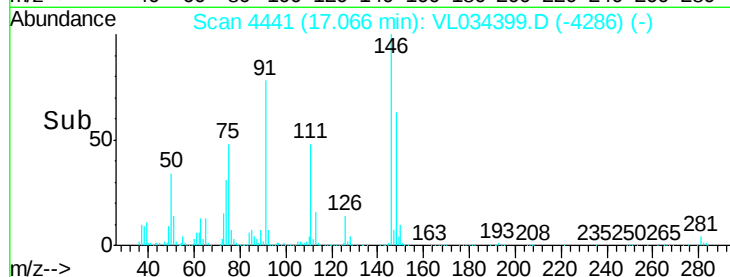
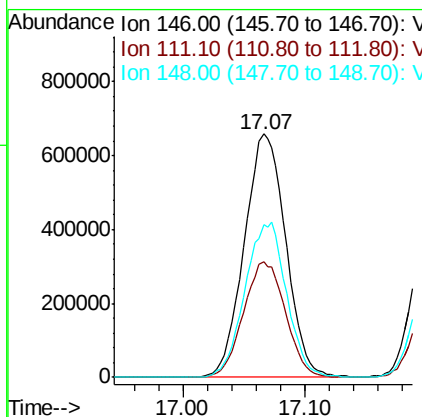
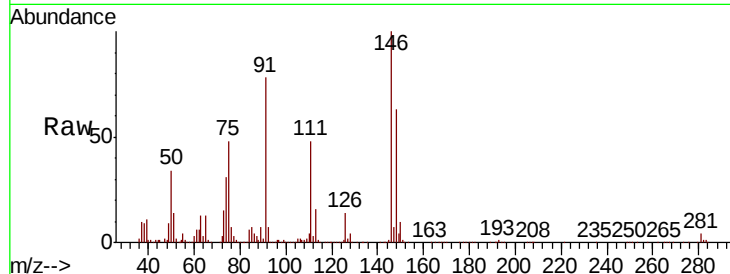
#75
 1,3-Dichlorobenzene
 Concen: 8.031 ppbv
 RT: 17.07 min Scan# 4441
 Delta R.T. -0.00 min
 Lab File: VL034399.D
 Acq: 20 Nov 2019 4:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1544949
 Ion Ratio Lower Upper
 146 100
 111 48.2 24.4 73.4
 148 64.0 32.4 97.0

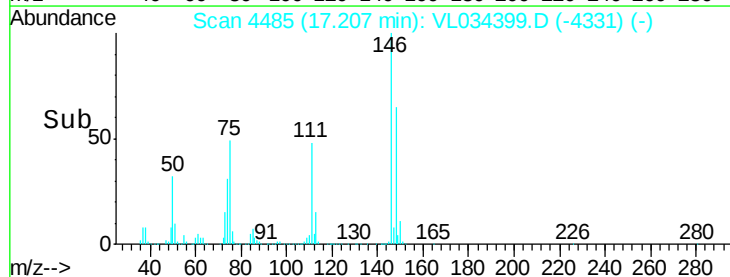
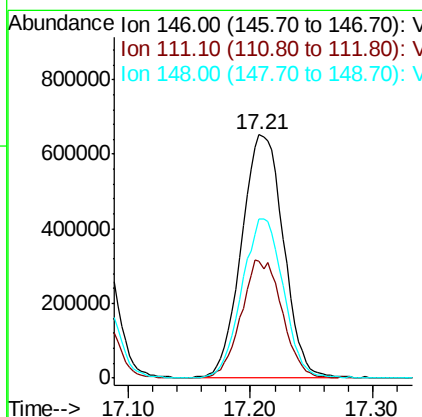
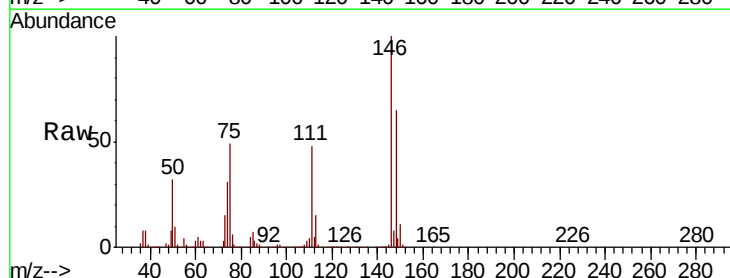
Manual Integrations
 APPROVED

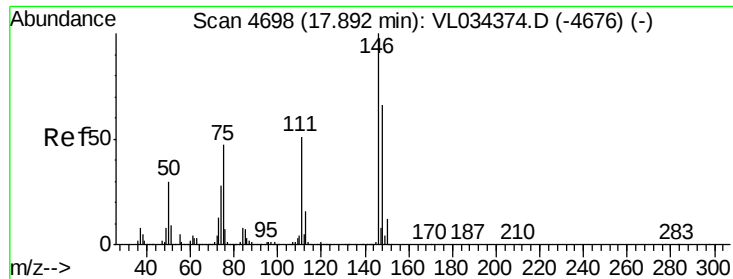
MMDadoda
 11/20/2019 3:54:33 PM



#76
 1,4-Dichlorobenzene
 Concen: 8.256 ppbv
 RT: 17.21 min Scan# 4485
 Delta R.T. -0.00 min
 Lab File: VL034399.D
 Acq: 20 Nov 2019 4:06

Tgt Ion:146 Resp: 1542212
 Ion Ratio Lower Upper
 146 100
 111 47.8 24.1 72.3
 148 65.3 32.9 98.6





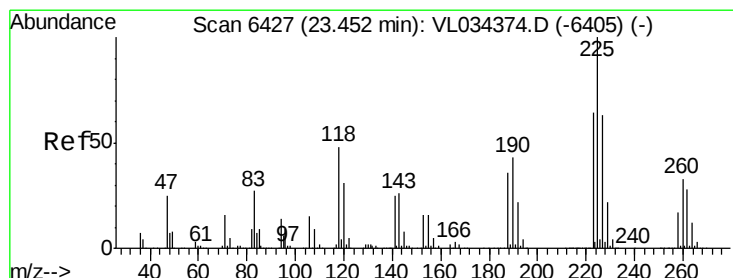
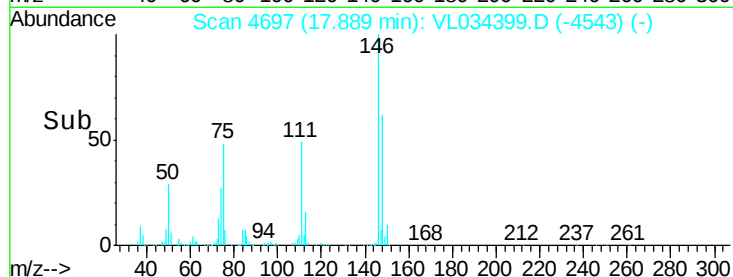
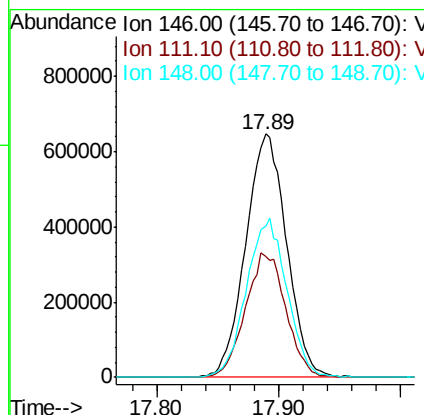
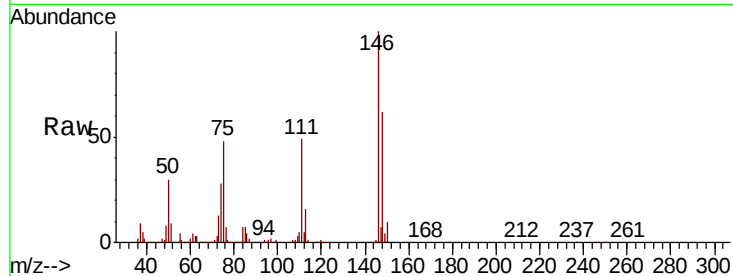
#77
 1,2-Dichlorobenzene
 Concen: 8.066 ppbv
 RT: 17.89 min Scan# 4697
 Delta R.T. -0.00 min
 Lab File: VL034399.D
 Acq: 20 Nov 2019 4:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1498737
 Ion Ratio Lower Upper
 146 100
 111 50.5 25.0 75.0
 148 64.7 32.7 98.1

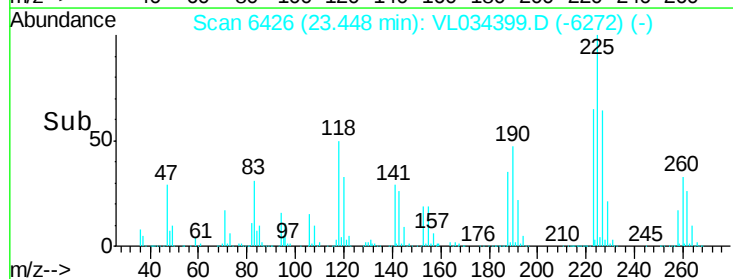
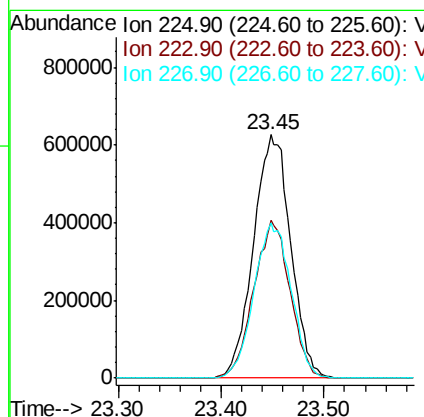
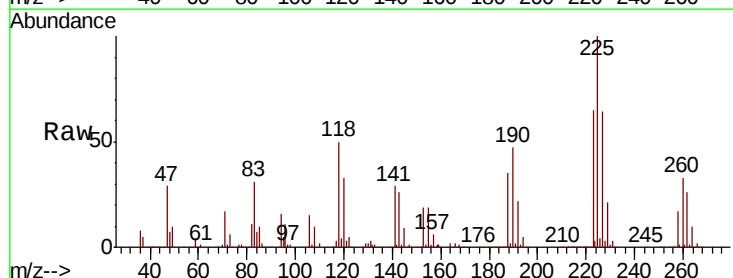
Manual Integrations
 APPROVED

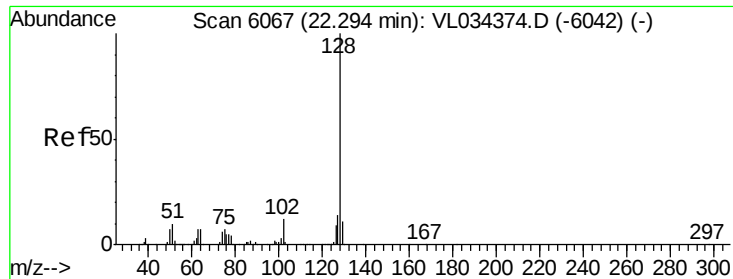
MMDadoda
 11/20/2019 3:54:33 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.809 ppbv m
 RT: 23.45 min Scan# 6426
 Delta R.T. -0.00 min
 Lab File: VL034399.D
 Acq: 20 Nov 2019 4:06

Tgt Ion:225 Resp: 1565964
 Ion Ratio Lower Upper
 225 100
 223 63.0 50.2 75.2
 227 63.8 51.5 77.3





#79

Naphthalene

Concen: 9.997 ppbv

RT: 22.29 min Scan# 6067

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 2900500

Ion Ratio Lower Upper

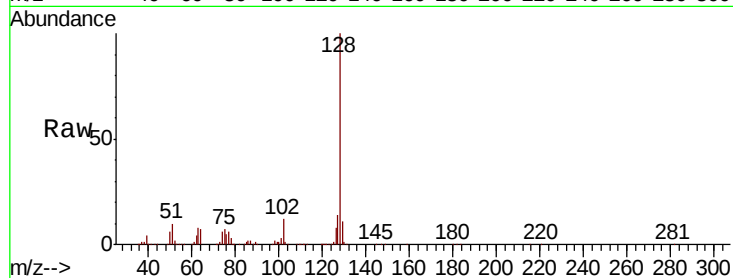
128 100

127 13.6 11.0 16.6

129 11.4 8.9 13.3

Manual Integrations
APPROVED

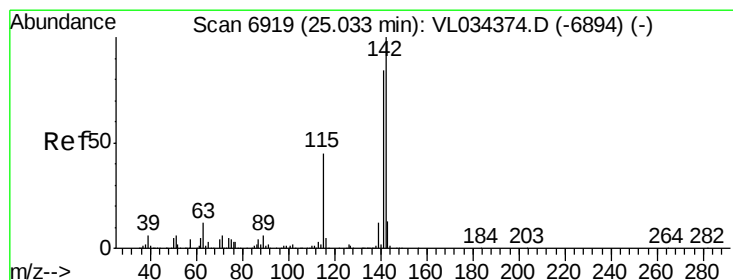
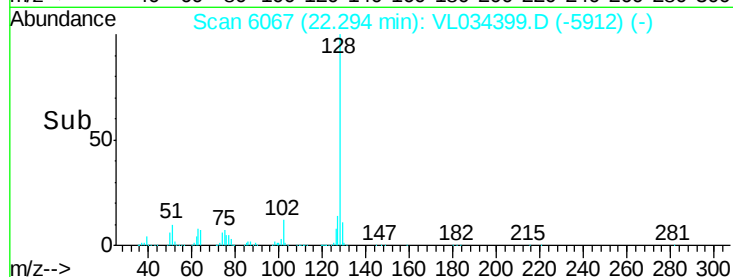
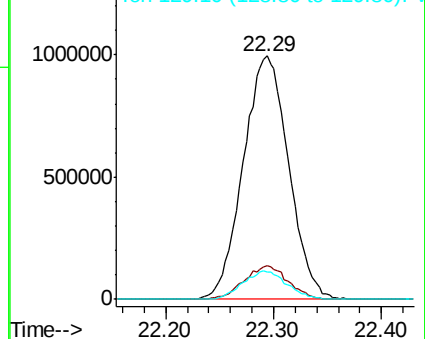
MMDadoda
11/20/2019 3:54:33 PM



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 11.308 ppbv

RT: 25.03 min Scan# 6919

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

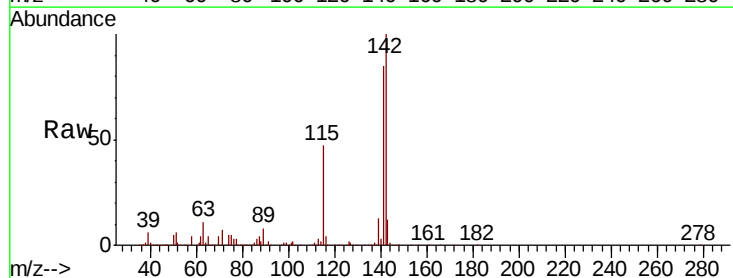
Tgt Ion:142 Resp: 1481455

Ion Ratio Lower Upper

142 100

141 85.1 67.1 100.7

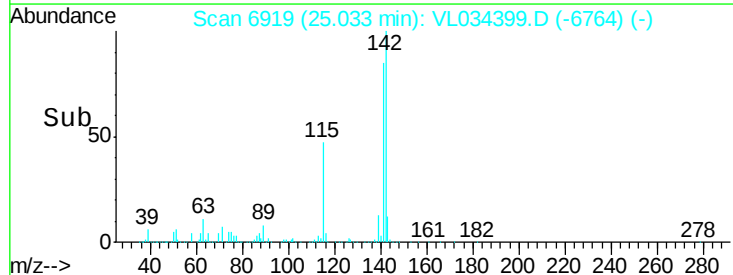
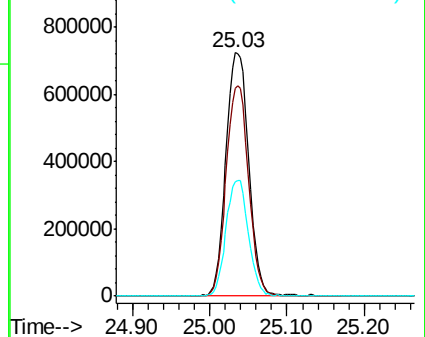
115 46.8 36.6 54.8

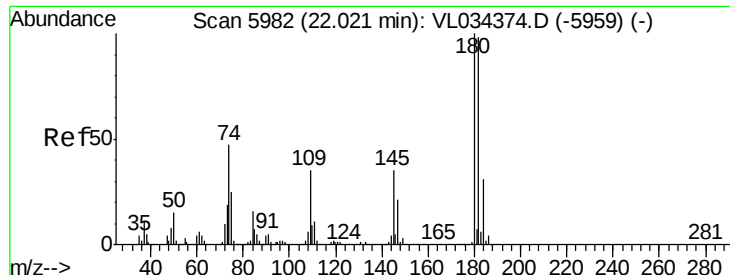


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





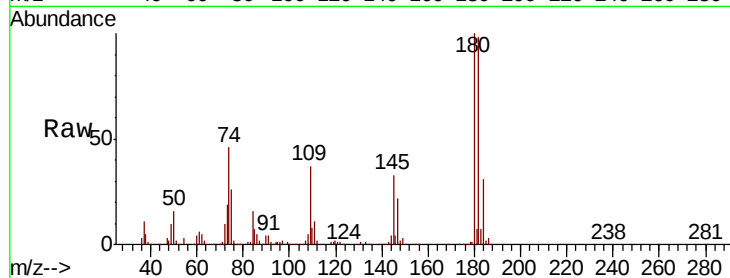
#81
 1,2,4-Trichlorobenzene
 Concen: 9.619 ppbv m
 RT: 22.02 min Scan# 5983
 Delta R.T. 0.00 min
 Lab File: VL034399.D
 Acq: 20 Nov 2019 4:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.8	115.2
184	31.0	24.9	37.3

Manual Integrations
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 11/20/2019 3:54:33 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

