

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021319\
 Data File : VL033185.D
 Acq On : 13 Feb 2019 12:14
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 2/20/2019 12:23:21 PM

Quant Time: Feb 20 07:11:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 20 07:11:22 2019
 QLast Update : Wed Feb 20 06:00:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1104031	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2765384	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2740144m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2169881	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	2005769	9.503	ppbv	95
3) Chlorodifluoromethane	3.02	51	1225143	9.216	ppbv	98
4) Chloromethane	3.17	50	667380	9.508	ppbv	94
5) Vinyl Chloride	3.29	62	648185	8.844	ppbv	99
6) Bromomethane	3.52	94	392814	9.751	ppbv	96
7) Chloroethane	3.60	64	239733	10.005	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	1514436	9.174	ppbv	99
9) Propene	3.04	41	578054	9.002	ppbv	99
10) Heptane	8.25	43	1532434	7.888	ppbv	99
11) Trichlorofluoromethane	4.00	101	1619037	9.475	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1073955	9.068	ppbv	100
13) Ethanol	3.65	45	125038m	5.729	ppbv	
14) Bromoethene	3.79	108	506237	9.913	ppbv	97
15) Acetone	3.90	43	1099722	8.841	ppbv	100
16) 1,3-Butadiene	3.36	39	530897	8.992	ppbv	96
17) tert-Butyl alcohol	4.35	59	265134	11.097	ppbv	100
18) 1,1-Dichloroethene	4.35	96	498329	9.400	ppbv	98
19) Isopropyl Alcohol	4.02	45	809548	9.596	ppbv #	98
20) Methylene Chloride	4.41	84	431125	8.714	ppbv	97
21) Allyl Chloride	4.48	41	801137	9.755	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	495960	9.633	ppbv	97
23) Vinyl Acetate	5.16	43	2055929	9.537	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1393202	9.137	ppbv	100
25) Ethyl Acetate	5.77	43	2411589	8.623	ppbv	100
26) Hexane	5.78	57	1104378	8.412	ppbv	100
27) Carbon Disulfide	4.62	76	1236335	10.279	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1715456	9.562	ppbv	100
29) Chloroform	5.85	83	1781423	8.854	ppbv	94
30) Cyclohexane	7.25	84	978564	8.033	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1164712	8.863	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1808649	8.164	ppbv	100
34) 2-Butanone	5.33	43	1642738	9.365	ppbv	99
35) Carbon Tetrachloride	7.14	117	1852159	8.770	ppbv	98
36) Benzene	7.01	78	2433171	8.682	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1397409	8.997	ppbv	100
38) Trichloroethene	7.97	130	886862	7.405	ppbv	99
39) 1,2-Dichloropropane	7.74	63	956975	8.646	ppbv	98
40) 1,4-Dioxane	7.96	88	317402	8.076	ppbv	97
41) Tetrahydrofuran	6.15	42	993099	9.158	ppbv	99
42) Bromodichloromethane	7.92	83	2027248	9.007	ppbv	99
43) Methyl Methacrylate	8.14	69	1002728	8.912	ppbv	99

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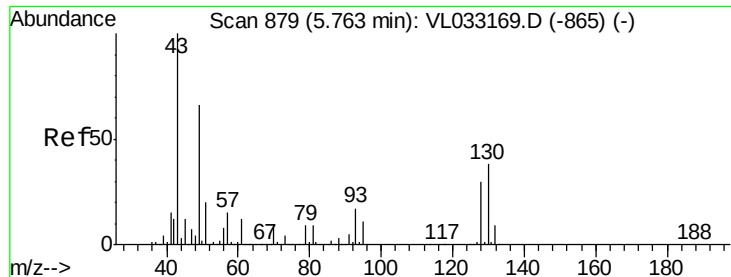
Manual Integrations
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Quant Time: Feb 20 07:11:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 20 07:11:22 2019
 QLast Update : Wed Feb 20 06:00:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3980316	8.381	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1297049	10.410	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1508914	9.477	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	979309	8.532	ppbv	96
48) Dibromochloromethane	10.46	129	1741147	9.628	ppbv	100
49) Bromoform	13.21	173	1474877	9.478	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2456035	8.732	ppbv	99
51) 2-Hexanone	10.27	43	2019678	9.107	ppbv #	100
52) Tetrachloroethene	11.38	164	861681	8.003	ppbv	97
53) Toluene	9.95	91	2926551	8.818	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1568688	8.709	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1135888	8.901	ppbv #	61
57) Chlorobenzene	12.31	112	1961623	8.090	ppbv	98
58) Ethyl Benzene	12.87	91	3806200	8.462	ppbv	99
59) m/p-Xylene	13.15	91	6324089m	16.903	ppbv	
60) o-Xylene	13.86	91	3026167	8.295	ppbv	99
61) Styrene	13.69	104	2364425	8.585	ppbv	100
62) Isopropylbenzene	14.83	105	4413595	8.574	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2089198	7.335	ppbv	99
64) n-propylbenzene	15.73	120	1131628	8.648	ppbv	100
65) tert-Butylbenzene	16.91	119	3787342	8.450	ppbv	99
66) Benzyl Chloride	17.16	91	2008550	12.539	ppbv	100
67) sec-Butylbenzene	17.47	105	5369143	8.252	ppbv	100
69) p-Isopropyltoluene	17.82	119	4431711	8.178	ppbv	100
70) n-Butylbenzene	18.72	91	4712599	8.061	ppbv	100
71) 2-Chlorotoluene	15.62	91	3463032	8.564	ppbv	100
72) 4-Ethyltoluene	16.01	105	3661626	8.702	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3510637	8.724	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3428875	8.215	ppbv #	89
75) 1,3-Dichlorobenzene	17.17	146	1955335	8.123	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	2008554	8.421	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1962902	8.252	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1472142	12.446	ppbv	100
79) Naphthalene	22.42	128	3518191	7.843	ppbv	99
80) Naphthalene,2-methyl-	25.12	142	1414997	6.237	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1745233	7.660	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

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Instrument :

MSVOA_L

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VSTDCCC010

Tgt Ion: 49 Resp: 1104031

Ion Ratio Lower Upper

49 100

128 48.1 23.6 71.0

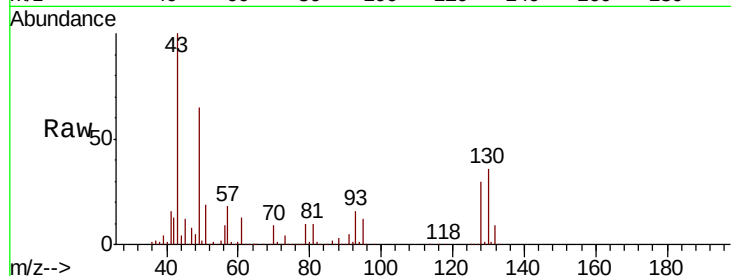
130 60.6 30.3 91.0

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

400000

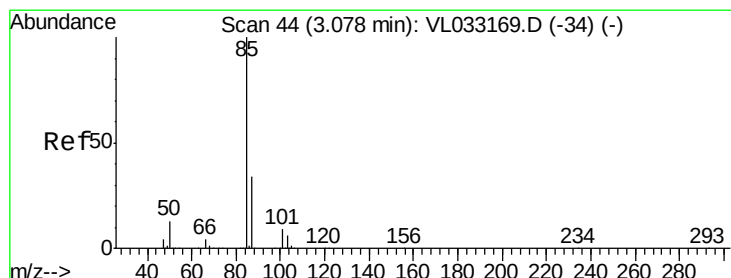
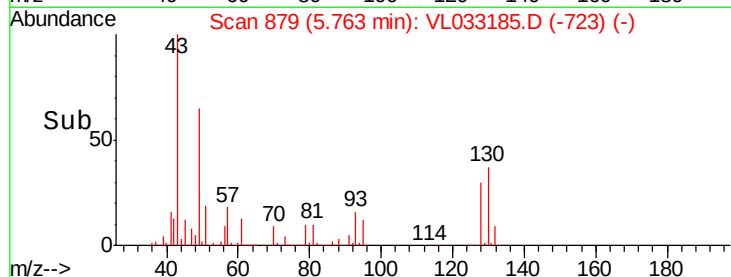
200000

0

5.76

5.70 5.75 5.80 5.85

Time-->



#2

Dichlorodifluoromethane

Concen: 9.503 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033185.D

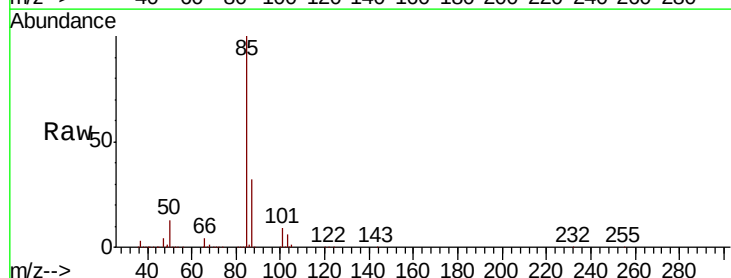
Acq: 13 Feb 2019 12:14

Tgt Ion: 85 Resp: 2005769

Ion Ratio Lower Upper

85 100

87 31.6 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

1500000

1000000

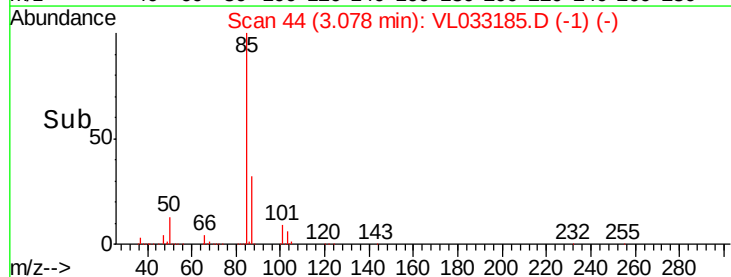
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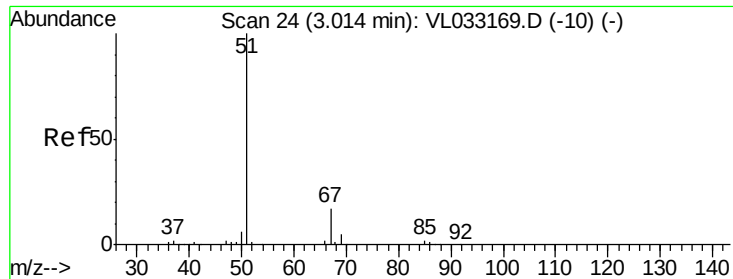
0

3.08

3.05 3.10

Time-->





#3

Chlorodifluoromethane

Concen: 9.216 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 51 Resp: 1225143

Ion Ratio Lower Upper

51 100

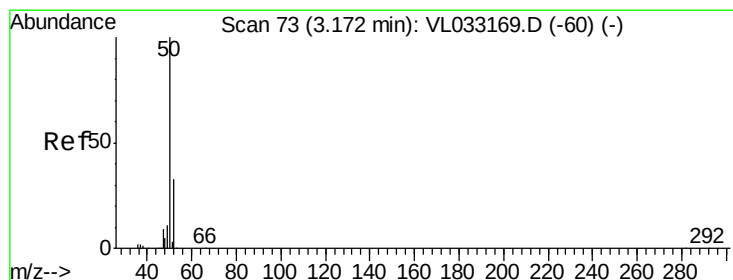
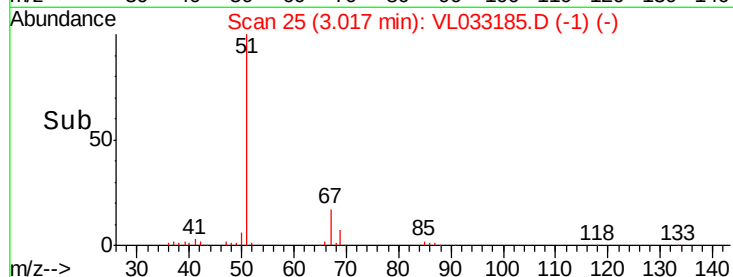
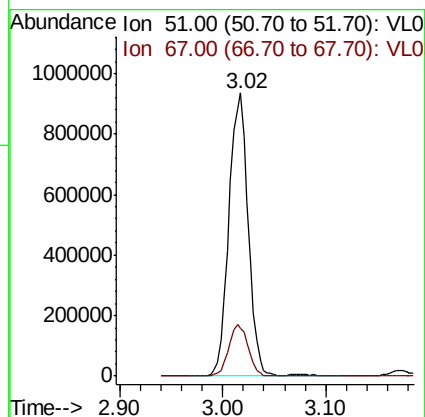
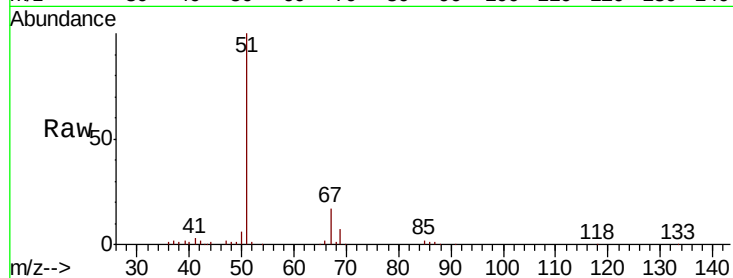
67 18.2 14.0 21.0

Manual Integrations

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2/20/2019 12:23:21 PM



#4

Chloromethane

Concen: 9.508 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033185.D

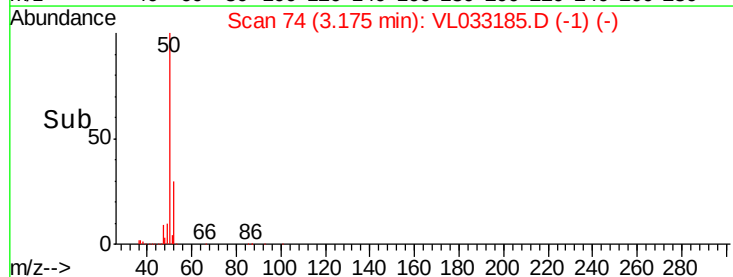
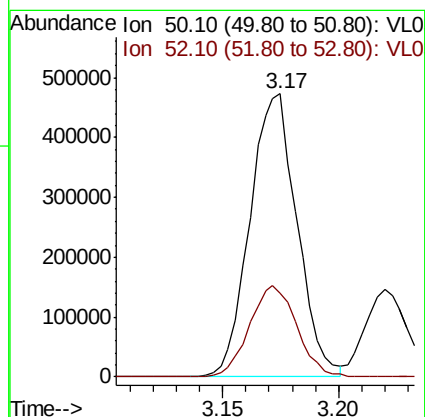
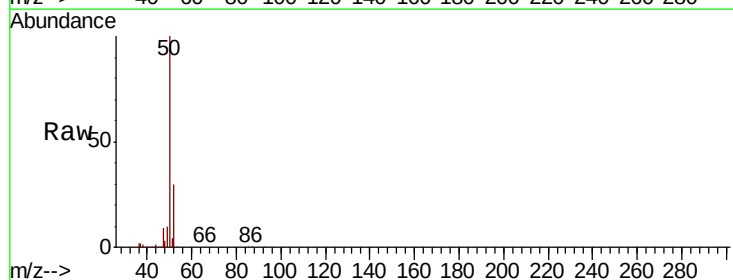
Acq: 13 Feb 2019 12:14

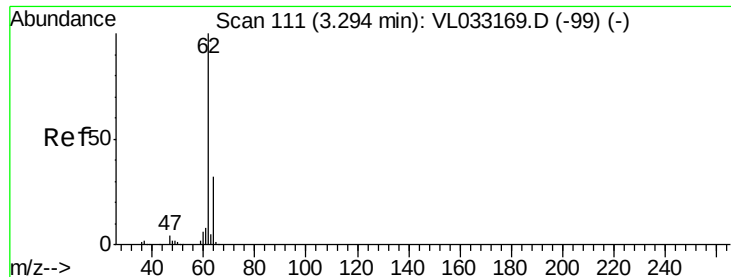
Tgt Ion: 50 Resp: 667380

Ion Ratio Lower Upper

50 100

52 29.6 26.5 39.7





#5

Vinyl Chloride

Concen: 8.844 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 62 Resp: 648185

Ion Ratio Lower Upper

62 100

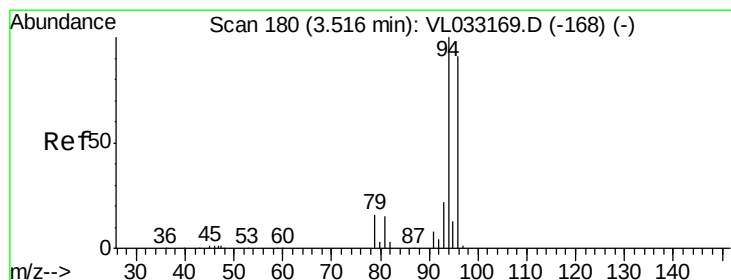
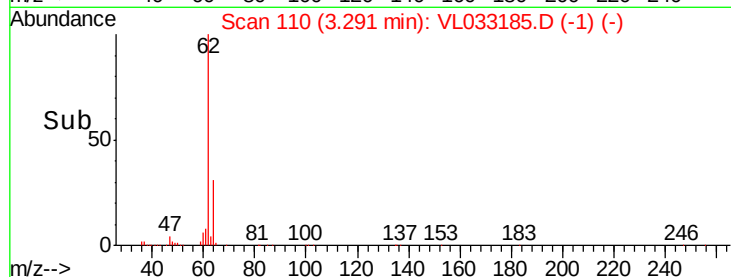
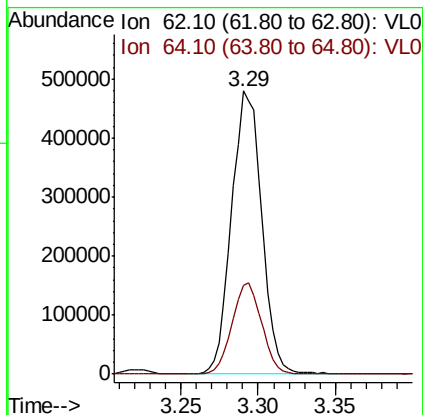
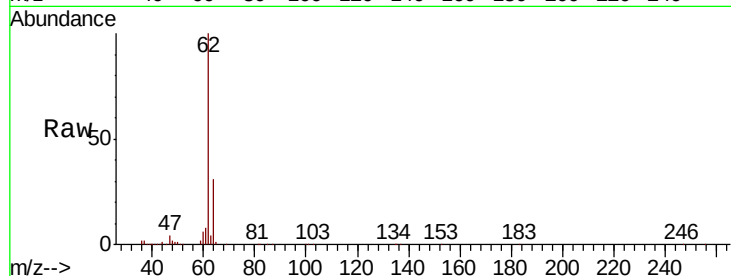
64 31.4 25.6 38.4

Manual Integrations

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2/20/2019 12:23:21 PM



#6

Bromomethane

Concen: 9.751 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033185.D

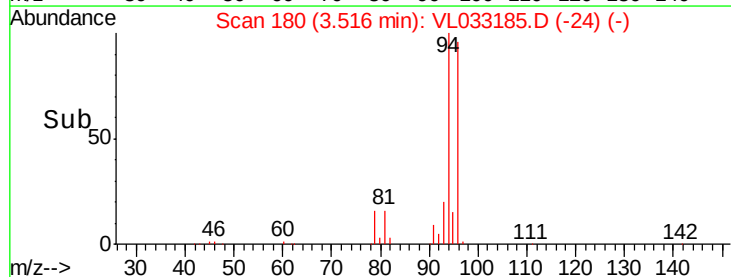
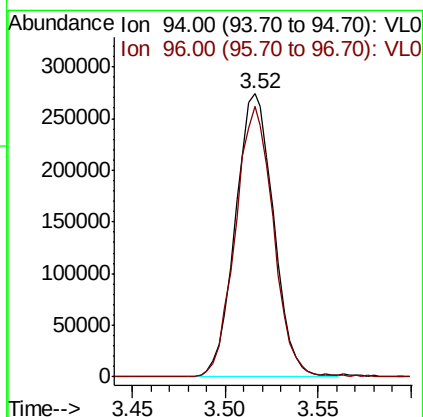
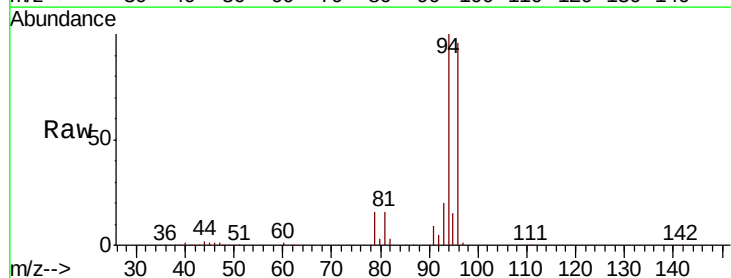
Acq: 13 Feb 2019 12:14

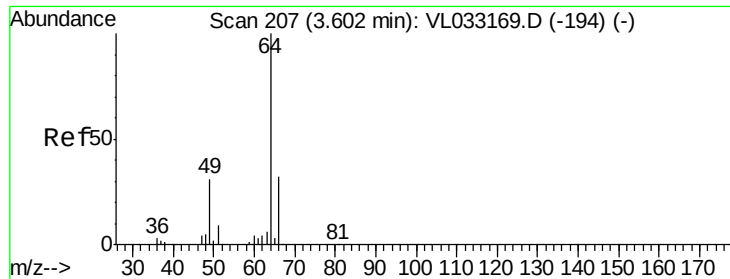
Tgt Ion: 94 Resp: 392814

Ion Ratio Lower Upper

94 100

96 95.6 73.2 109.8





#7

Chloroethane

Concen: 10.005 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 64 Resp: 239733

Ion Ratio Lower Upper

64 100

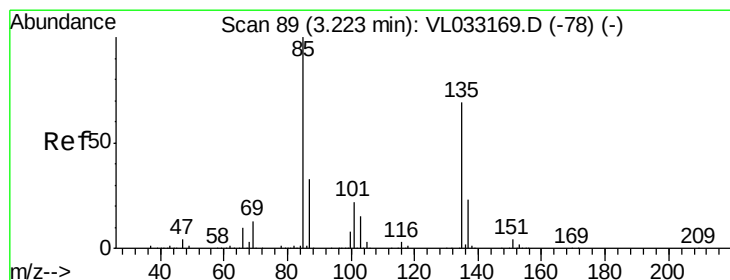
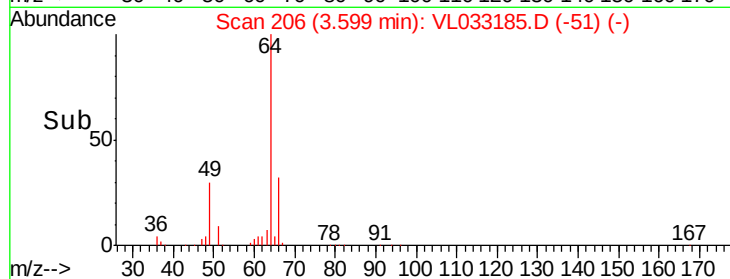
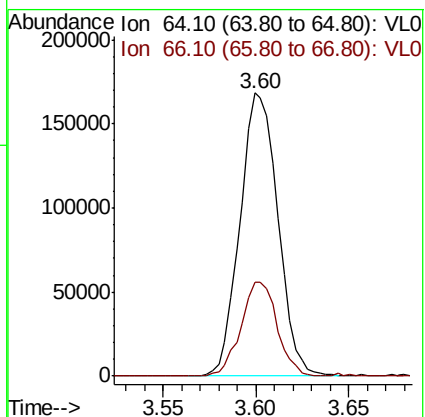
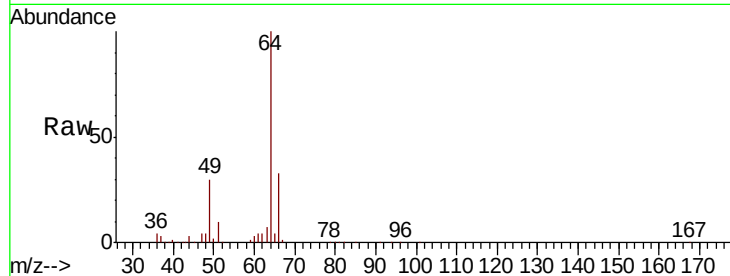
66 33.3 26.0 39.0

Manual Integrations

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2/20/2019 12:23:21 PM



#8

Dichlorotetrafluoroethane

Concen: 9.174 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033185.D

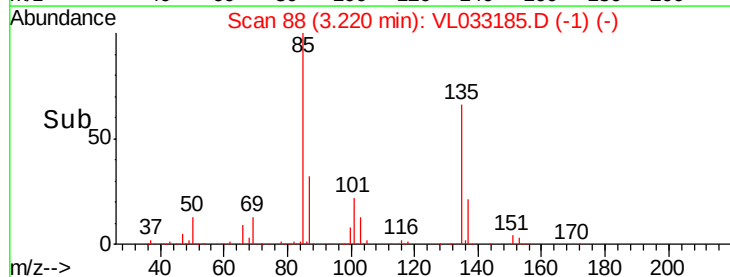
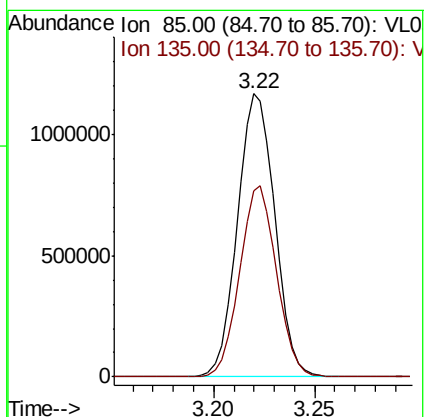
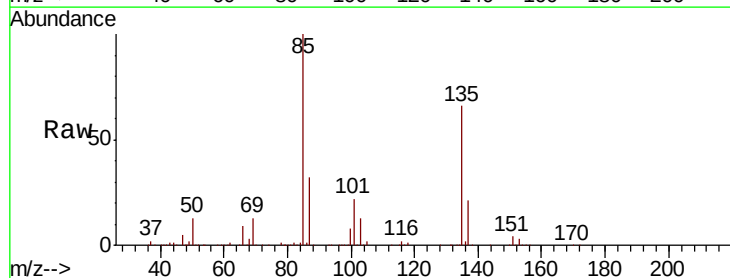
Acq: 13 Feb 2019 12:14

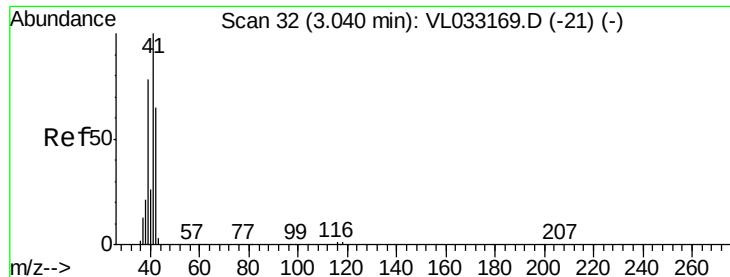
Tgt Ion: 85 Resp: 1514436

Ion Ratio Lower Upper

85 100

135 66.9 54.3 81.5





#9

Propene

Concen: 9.002 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 41 Resp: 578054

Ion Ratio Lower Upper

41 100

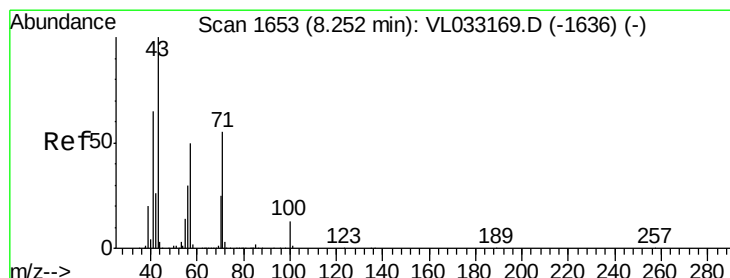
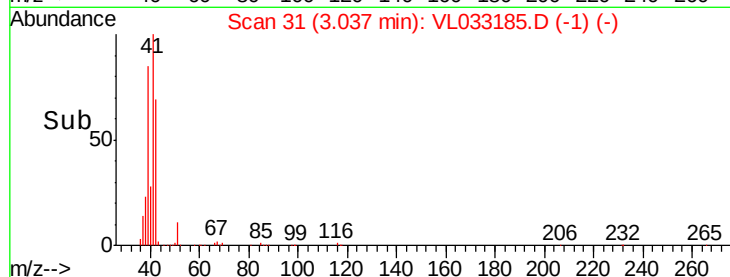
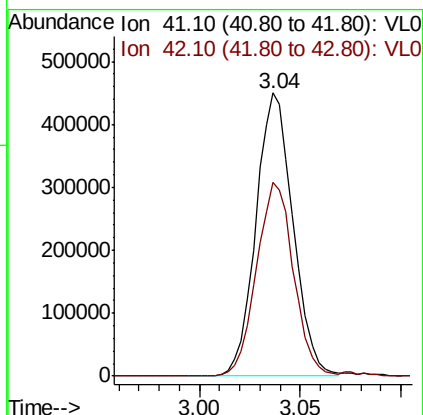
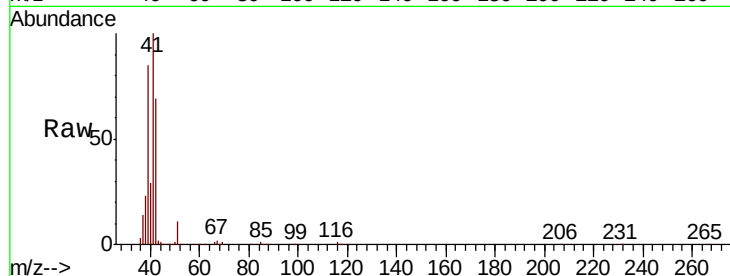
42 69.5 55.0 82.6

Manual Integrations

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#10

Heptane

Concen: 7.888 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VL033185.D

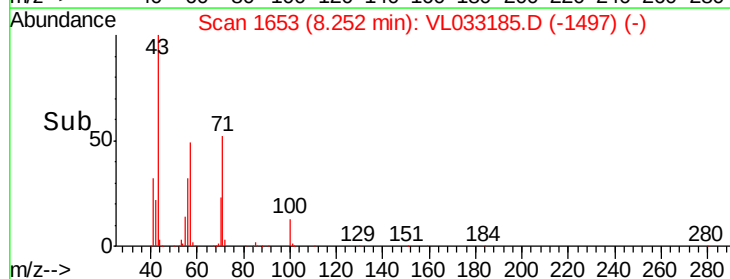
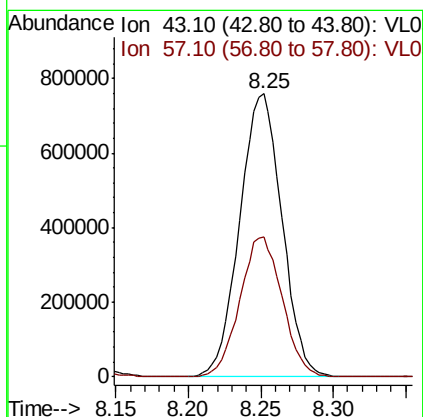
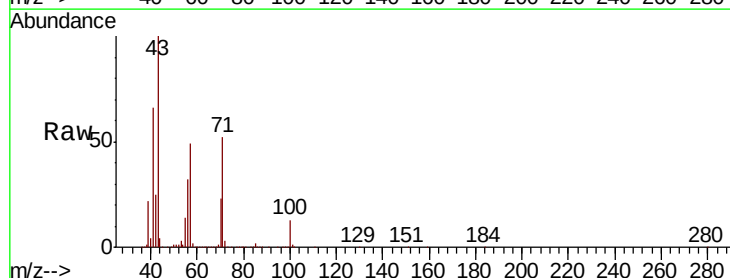
Acq: 13 Feb 2019 12:14

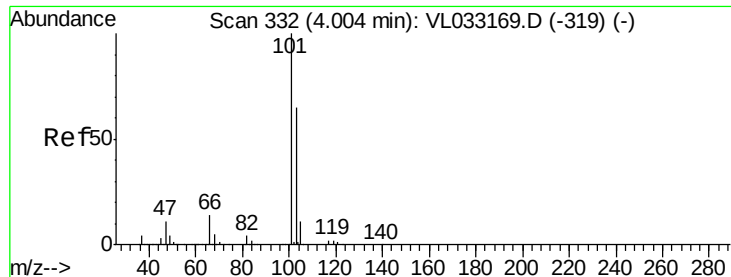
Tgt Ion: 43 Resp: 1532434

Ion Ratio Lower Upper

43 100

57 49.8 39.5 59.3





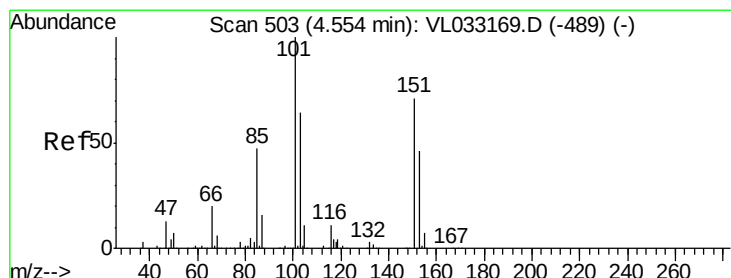
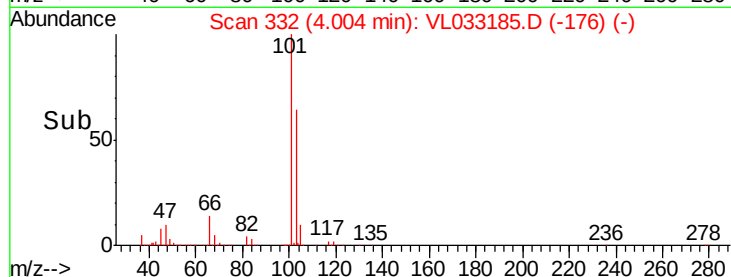
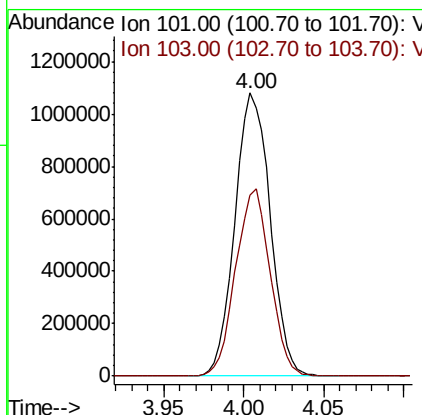
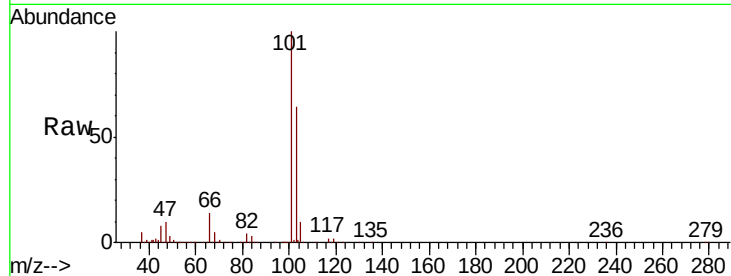
#11
 Trichlorofluoromethane
 Concen: 9.475 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion:101 Resp: 1619037
 Ion Ratio Lower Upper
 101 100
 103 63.7 51.7 77.5

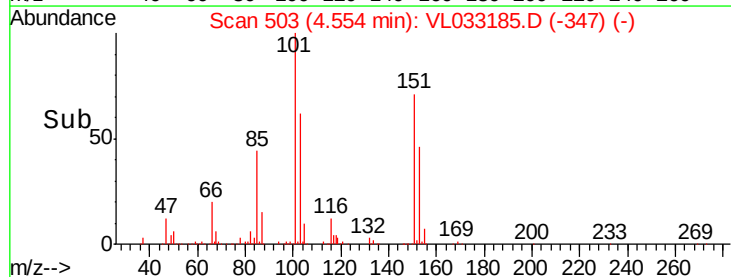
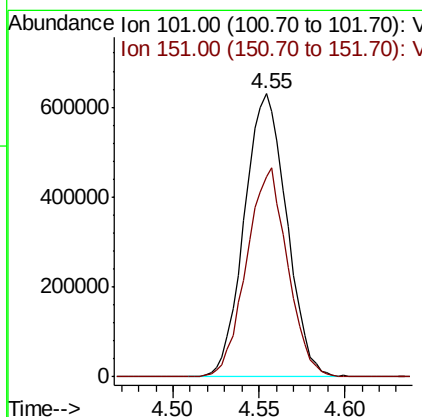
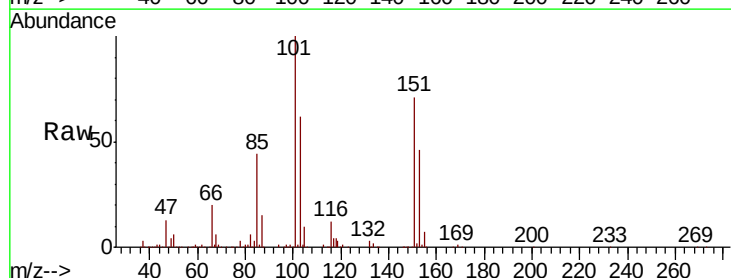
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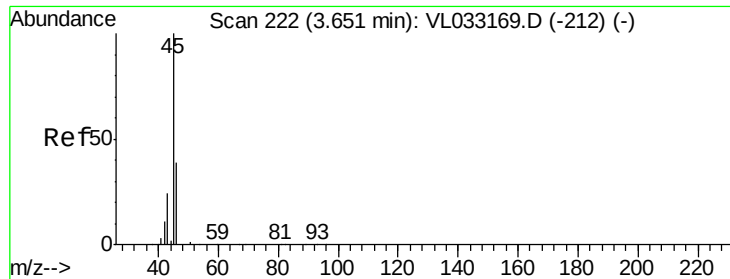
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.068 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Tgt Ion:101 Resp: 1073955
 Ion Ratio Lower Upper
 101 100
 151 71.8 57.4 86.0





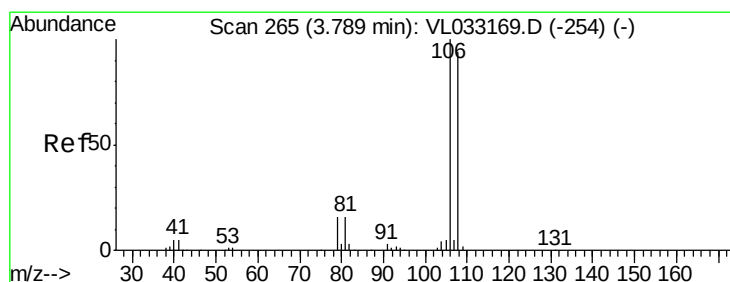
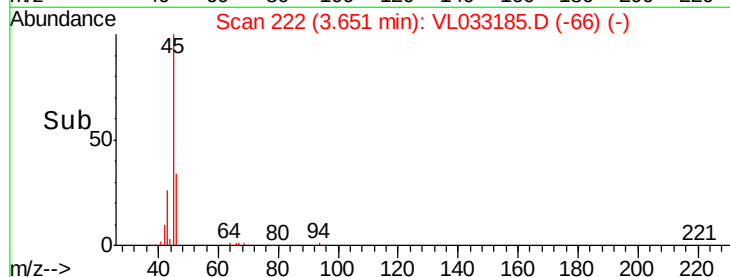
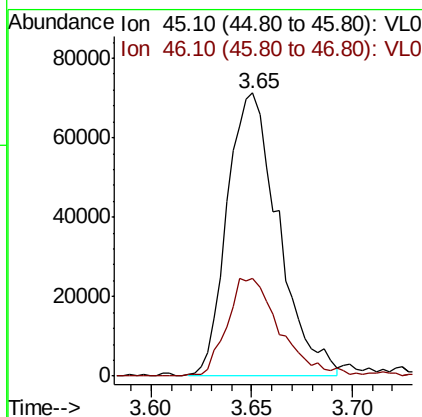
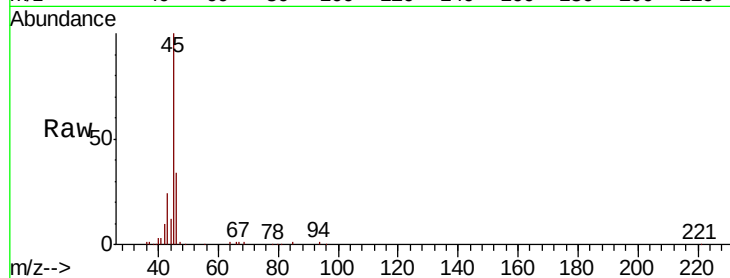
#13
Ethanol
Concen: 5.729 ppbv m
RT: 3.65 min Scan# 222
Delta R.T. 0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 45 Resp: 125038
Ion Ratio Lower Upper
45 100
46 36.7 15.0 60.2

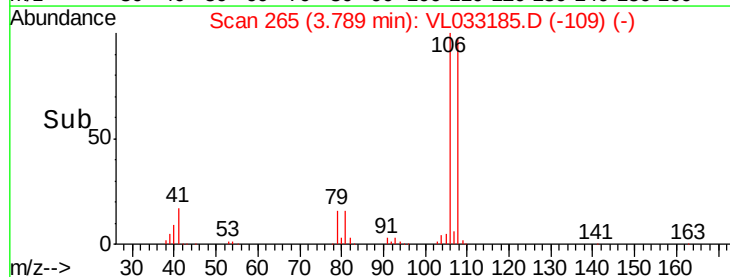
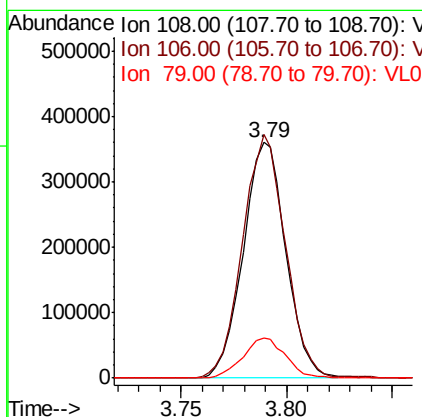
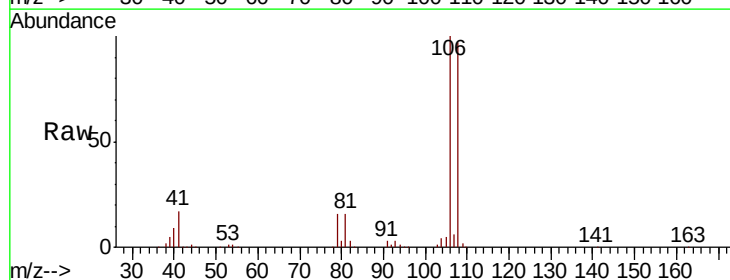
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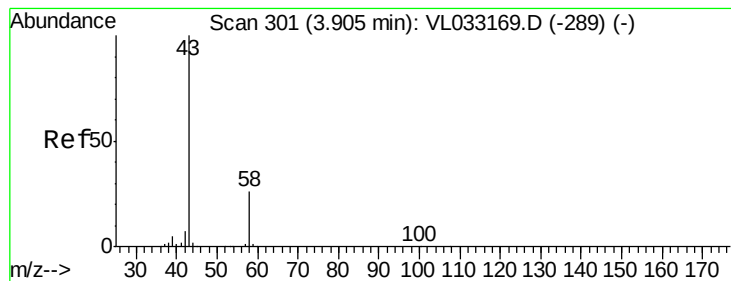
MMDadoda
2/20/2019 12:23:21 PM



#14
Bromoethene
Concen: 9.913 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Tgt Ion: 108 Resp: 506237
Ion Ratio Lower Upper
108 100
106 104.1 86.0 129.0
79 17.2 14.5 21.7





#15

Acetone

Concen: 8.841 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 43 Resp: 1099722

Ion Ratio Lower Upper

43 100

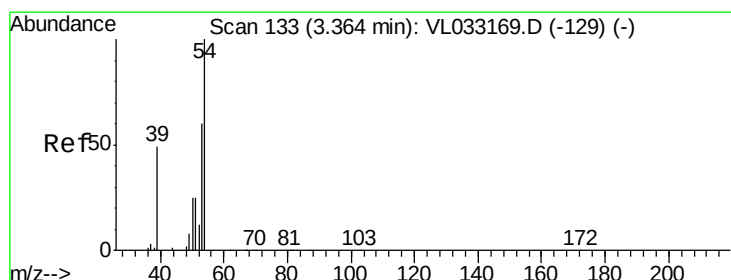
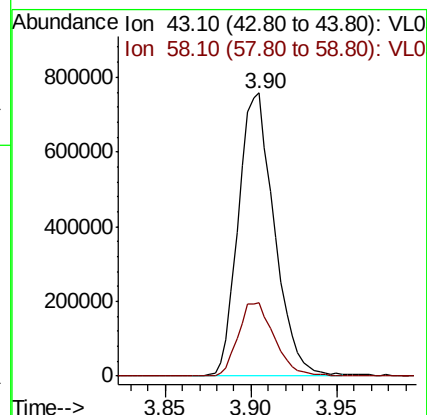
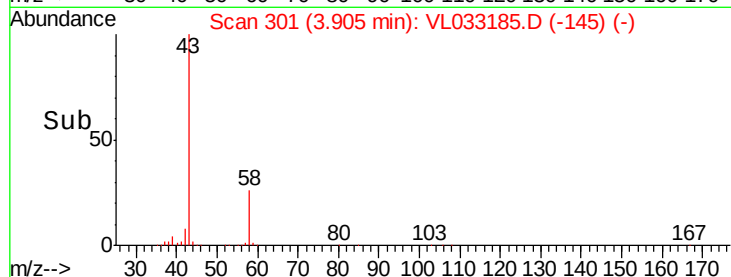
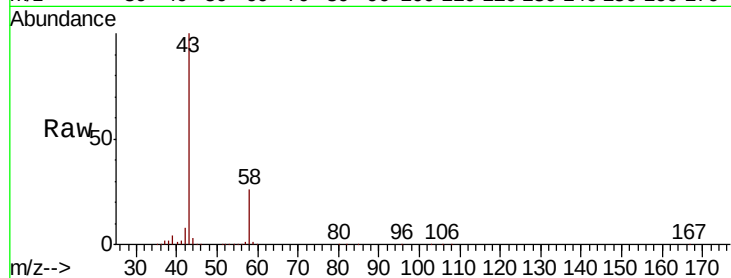
58 26.4 21.1 31.7

Manual Integrations

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2/20/2019 12:23:21 PM



#16

1,3-Butadiene

Concen: 8.992 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033185.D

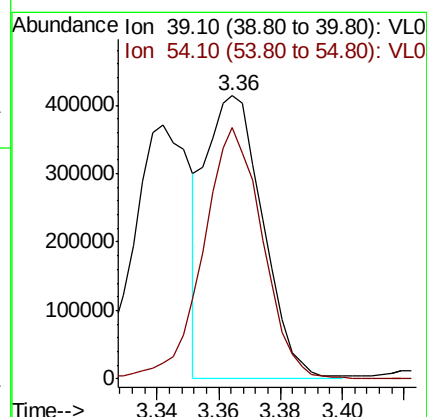
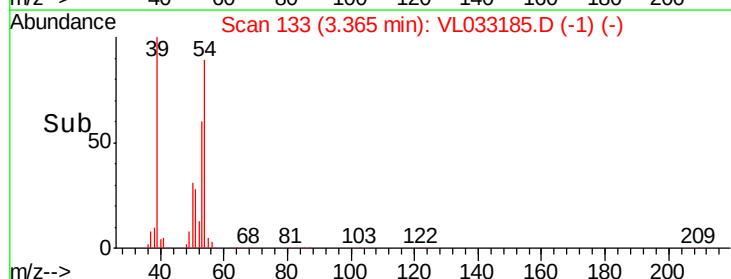
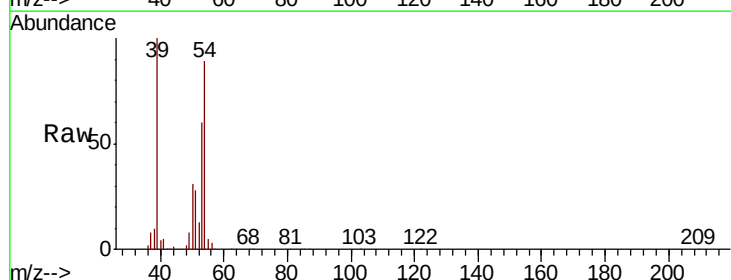
Acq: 13 Feb 2019 12:14

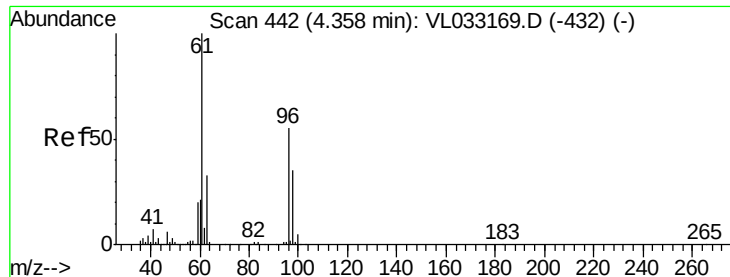
Tgt Ion: 39 Resp: 530897

Ion Ratio Lower Upper

39 100

54 93.1 71.3 106.9





#17

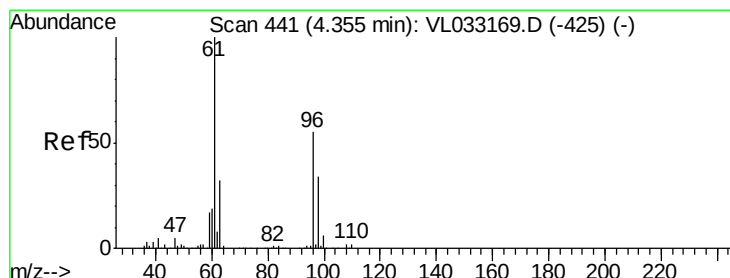
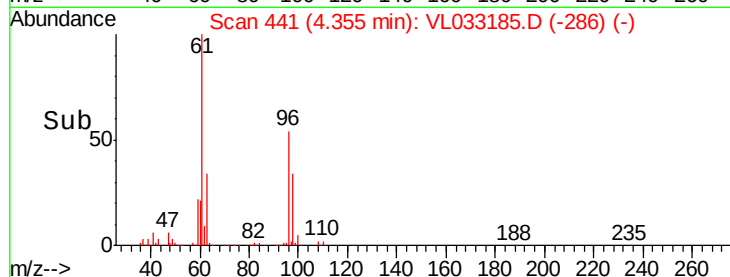
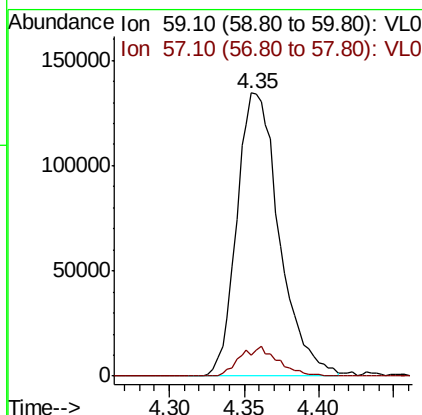
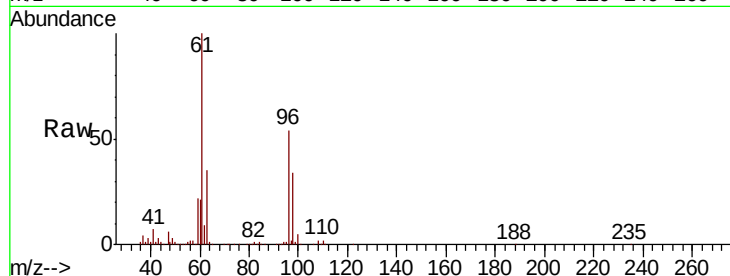
tert-Butyl alcohol
Concen: 11.097 ppbv
RT: 4.35 min Scan# 441
Delta R.T. -0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 59 Resp: 265134
Ion Ratio Lower Upper
59 100
57 9.6 7.6 11.4

Manual Integrations
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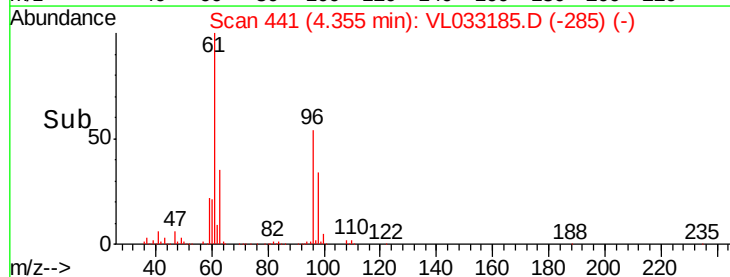
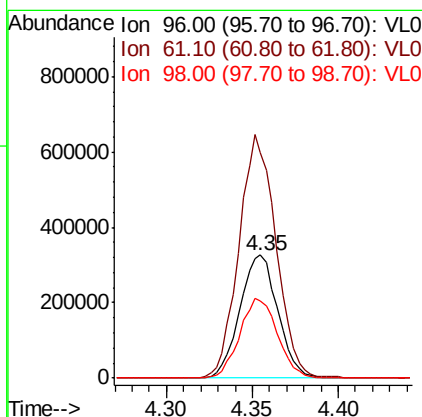
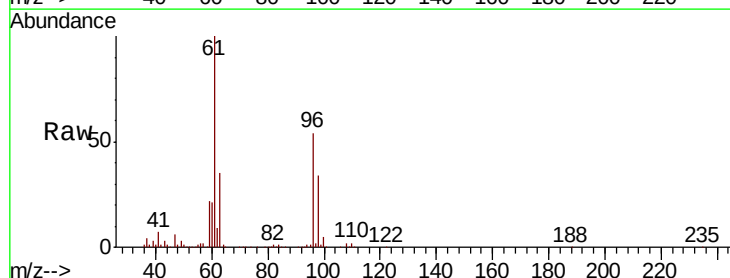
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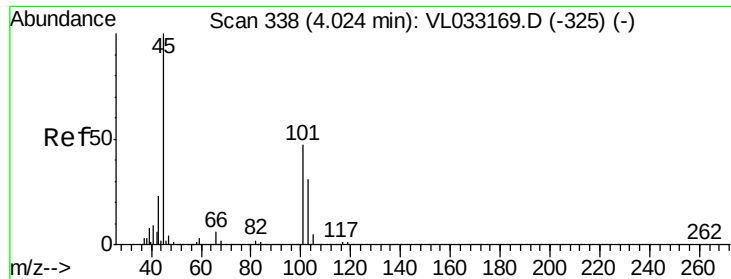


#18

1,1-Dichloroethene
Concen: 9.400 ppbv
RT: 4.35 min Scan# 441
Delta R.T. 0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Tgt Ion: 96 Resp: 498329
Ion Ratio Lower Upper
96 100
61 184.1 145.0 217.6
98 63.2 50.0 75.0





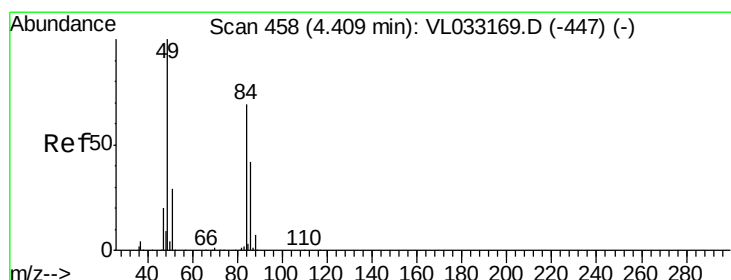
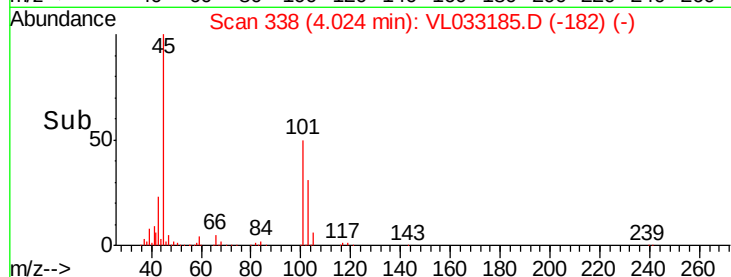
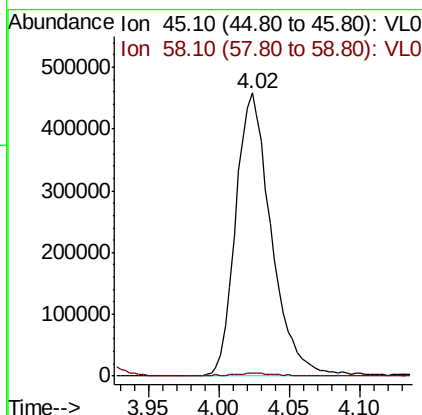
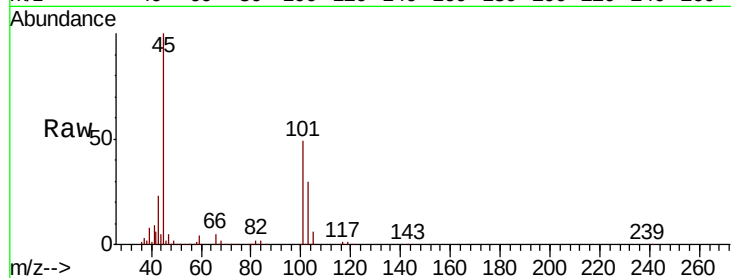
#19
Isopropyl Alcohol
Concen: 9.596 ppbv
RT: 4.02 min Scan# 338
Delta R.T. 0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

Tgt Ion: 45 Resp: 809548
Ion Ratio Lower Upper
45 100
58 1.3 1.5 2.3#

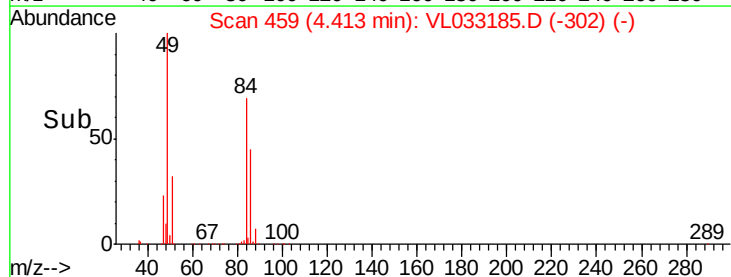
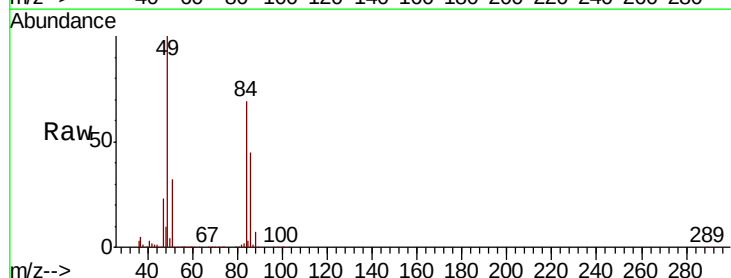
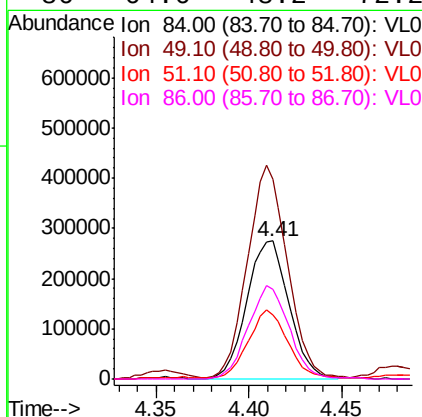
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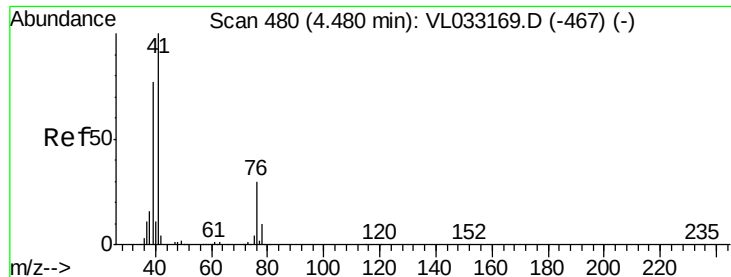
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2/20/2019 12:23:21 PM



#20
Methylene Chloride
Concen: 8.714 ppbv
RT: 4.41 min Scan# 459
Delta R.T. 0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Tgt Ion: 84 Resp: 431125
Ion Ratio Lower Upper
84 100
49 143.7 115.8 173.8
51 45.6 33.0 49.6
86 64.6 48.2 72.2





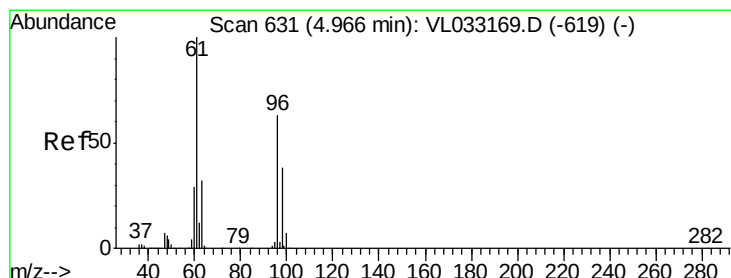
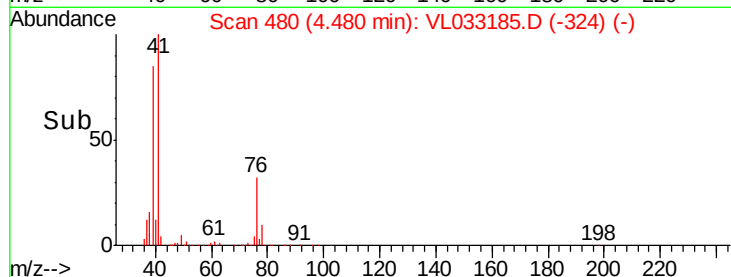
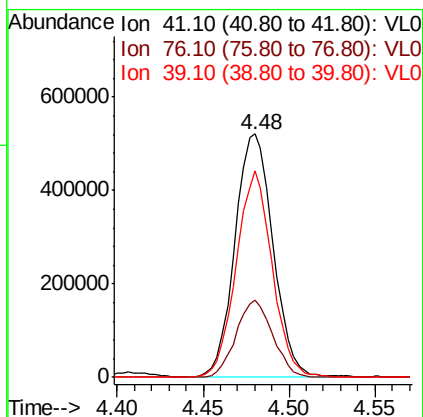
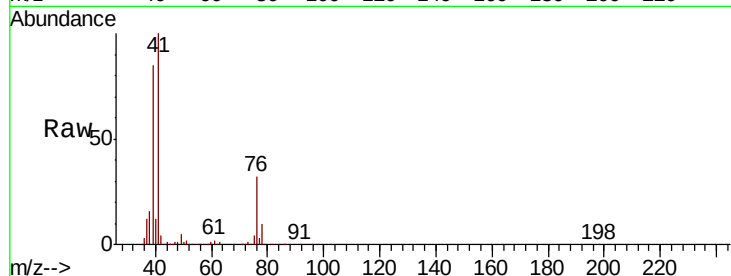
#21
 Allyl Chloride
 Concen: 9.755 ppbv
 RT: 4.48 min Scan# 480
 Delta R.T. 0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion:	41	Resp:	801137
Ion	Ratio	Lower	Upper
41	100		
76	30.9	24.5	36.7
39	80.3	64.1	96.1

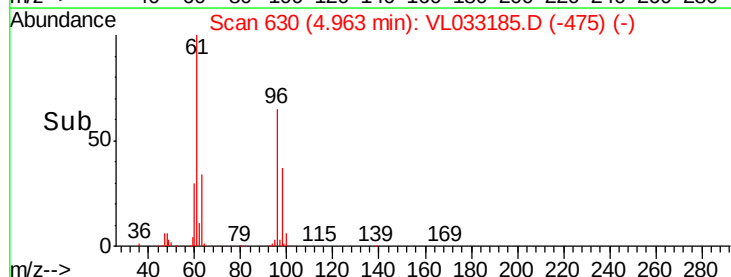
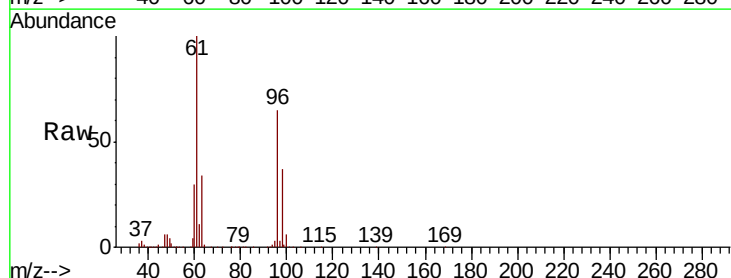
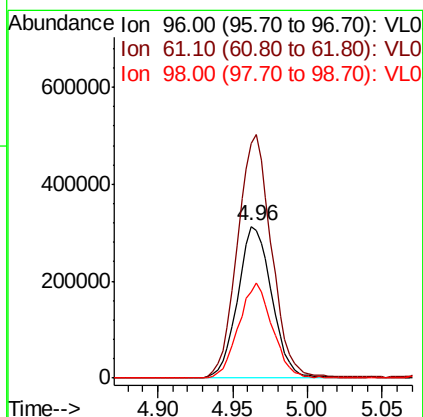
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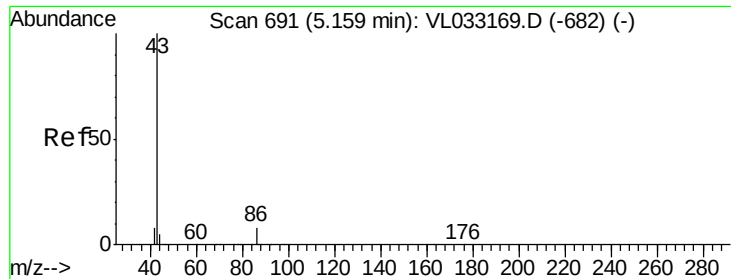
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#22
 trans-1,2-Dichloroethene
 Concen: 9.633 ppbv
 RT: 4.96 min Scan# 630
 Delta R.T. -0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Tgt Ion:	96	Resp:	495960
Ion	Ratio	Lower	Upper
96	100		
61	155.0	126.4	189.6
98	56.9	48.4	72.6





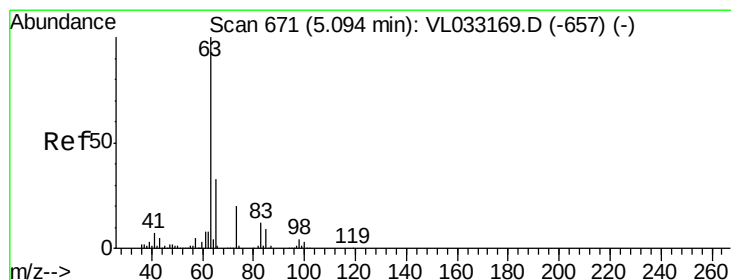
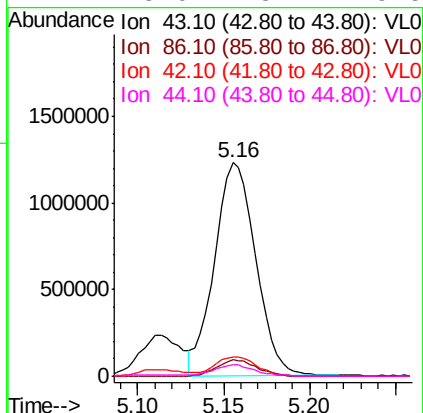
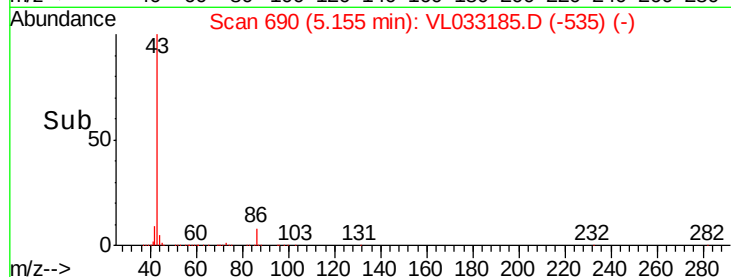
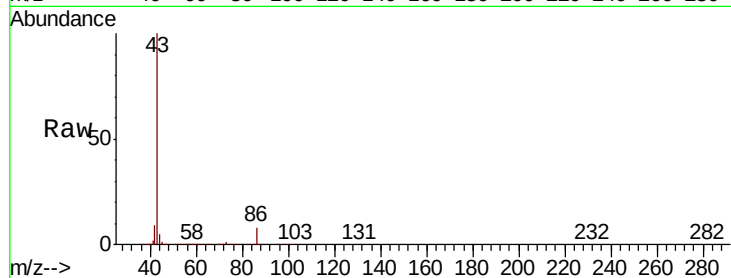
#23
 Vinyl Acetate
 Concen: 9.537 ppbv
 RT: 5.16 min Scan# 690
 Delta R.T. -0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion	Ratio	Lower	Upper
43	100		
86	7.8	5.8	8.8
42	9.1	7.4	11.0
44	5.0	3.7	5.5

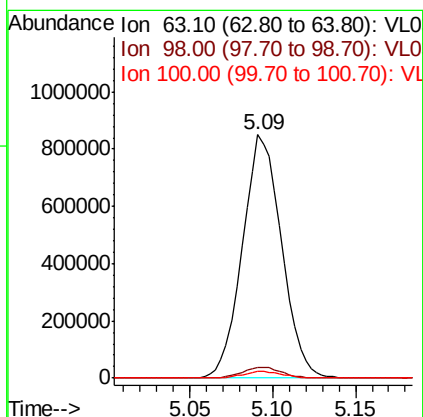
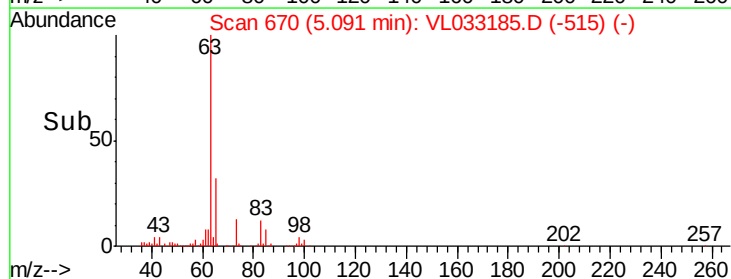
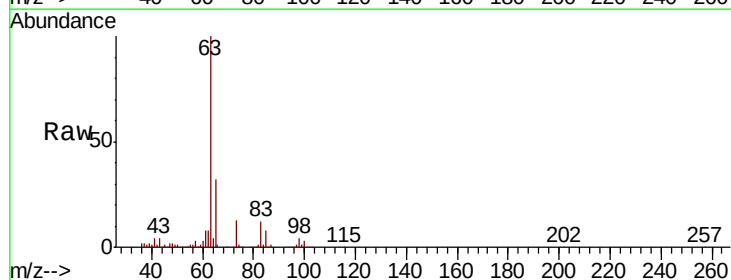
Manual Integrations
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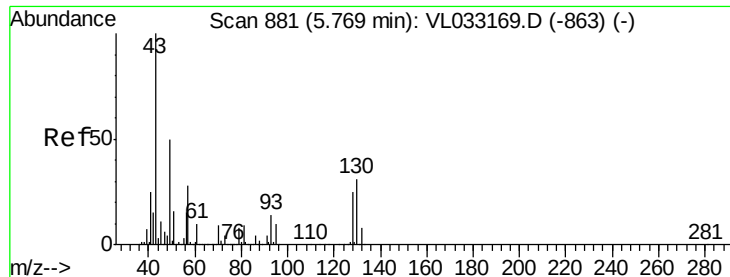
MMDadoda
 2/20/2019 12:23:21 PM



#24
 1,1-Dichloroethane
 Concen: 9.137 ppbv
 RT: 5.09 min Scan# 670
 Delta R.T. -0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Tgt Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.1	6.5
100	2.8	1.4	4.2





#25

Ethyl Acetate

Concen: 8.623 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 43 Resp: 2411589

Ion Ratio Lower Upper

43 100

45 9.9 7.9 11.9

61 9.5 7.5 11.3

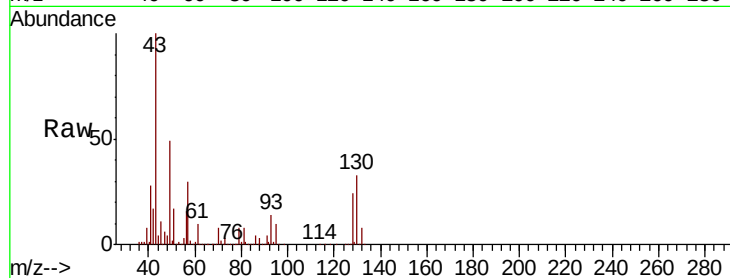
70 7.2 5.8 8.8

Manual Integrations

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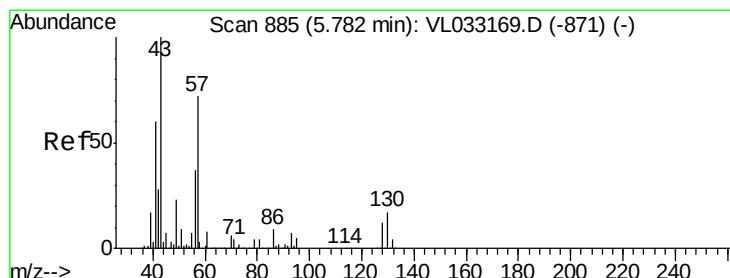
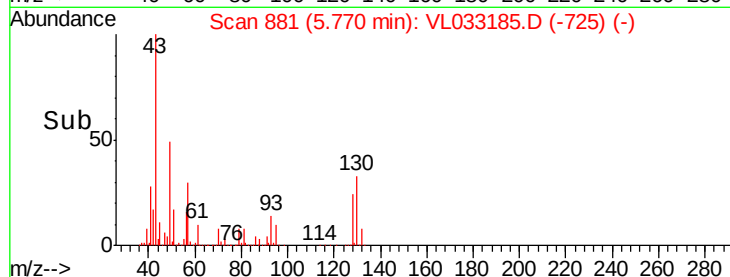
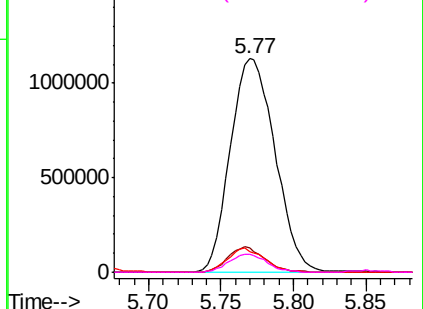


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.412 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Tgt Ion: 57 Resp: 1104378

Ion Ratio Lower Upper

57 100

41 87.1 69.4 104.2

43 219.9 176.7 265.1

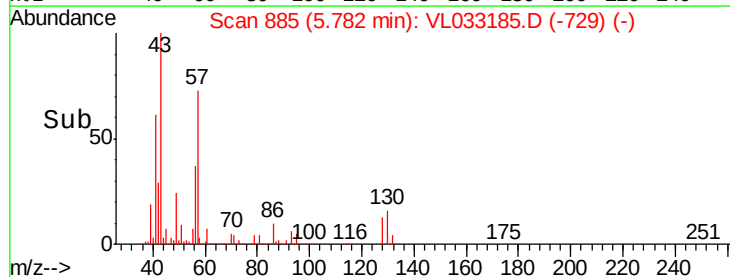
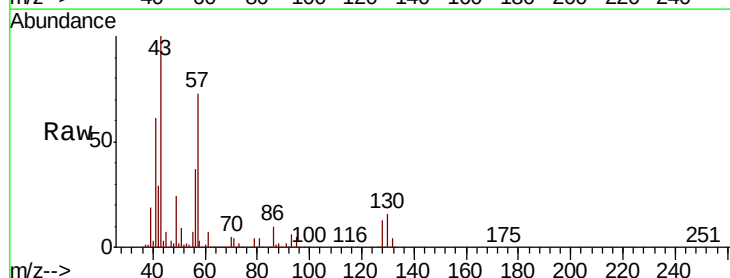
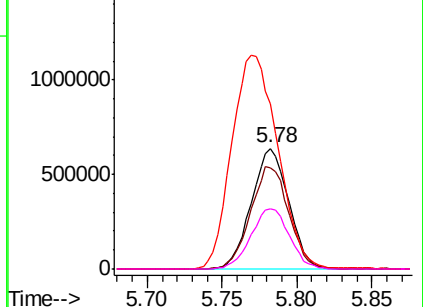
56 51.8 41.4 62.0

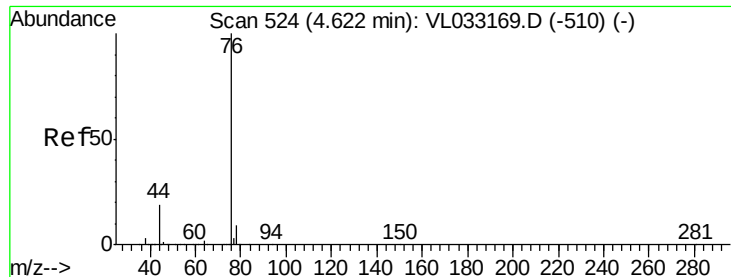
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 10.279 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 76 Resp: 1236335

Ion Ratio Lower Upper

76 100

44 18.9 15.0 22.4

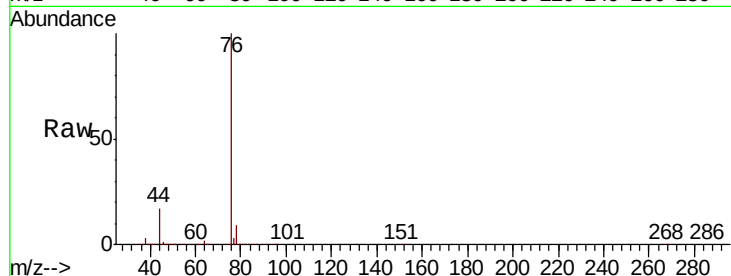
78 9.1 7.4 11.0

Manual Integrations

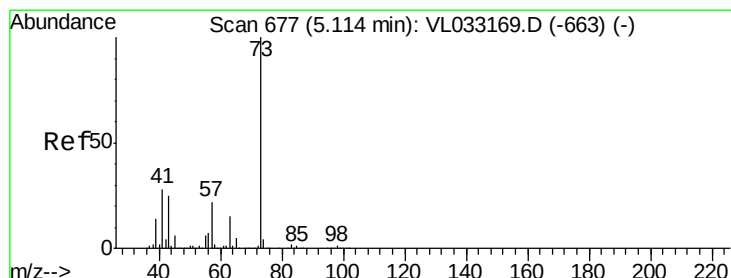
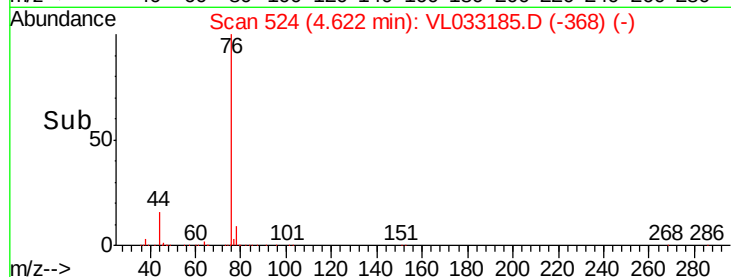
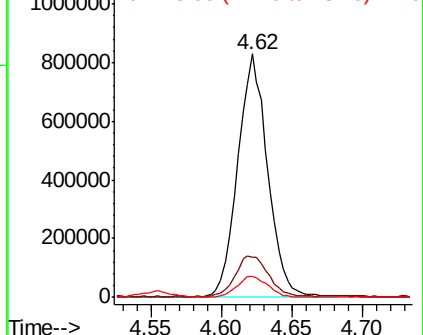
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.562 ppbv

RT: 5.11 min Scan# 677

Delta R.T. 0.00 min

Lab File: VL033185.D

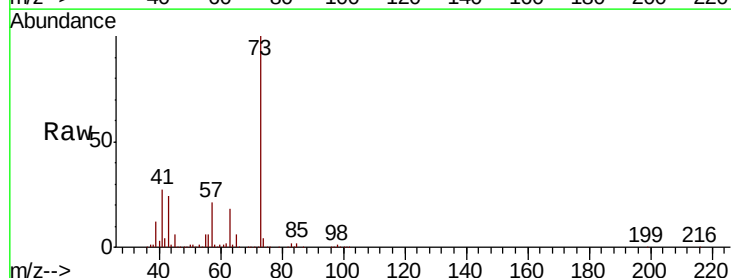
Acq: 13 Feb 2019 12:14

Tgt Ion: 73 Resp: 1715456

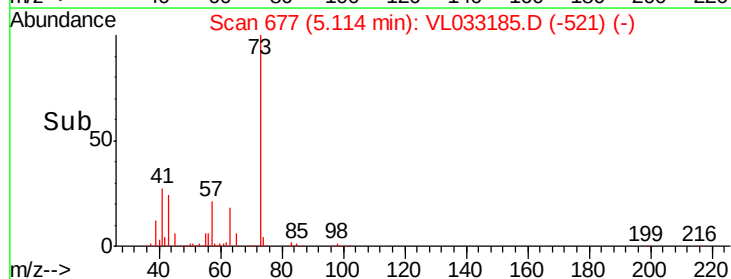
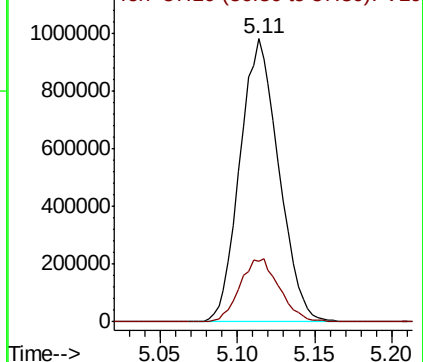
Ion Ratio Lower Upper

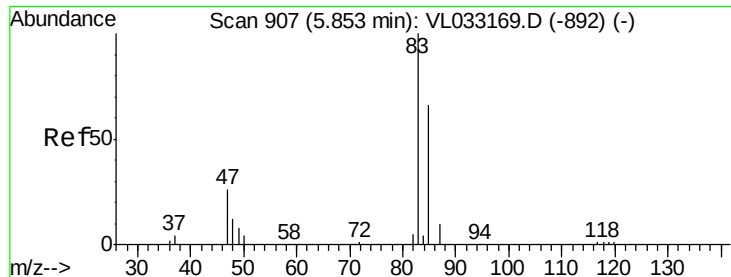
73 100

57 22.6 17.9 26.9



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





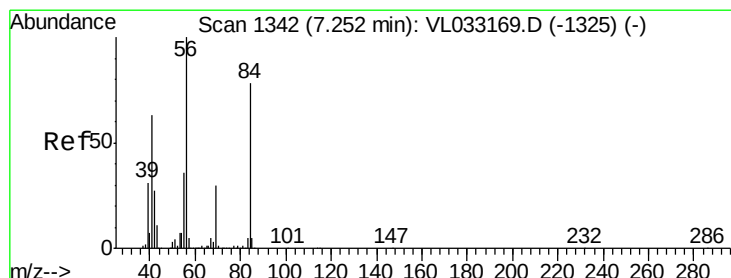
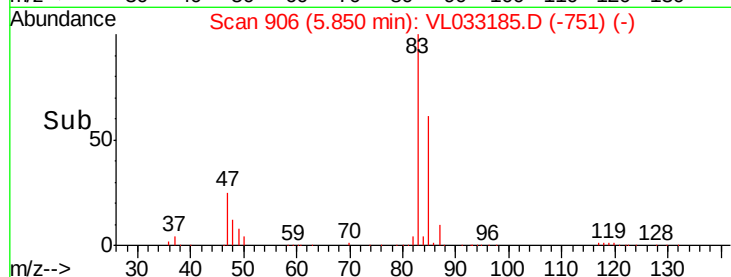
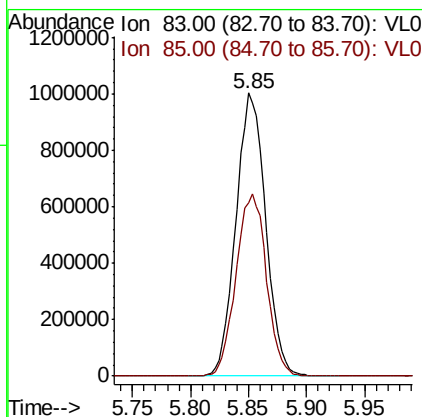
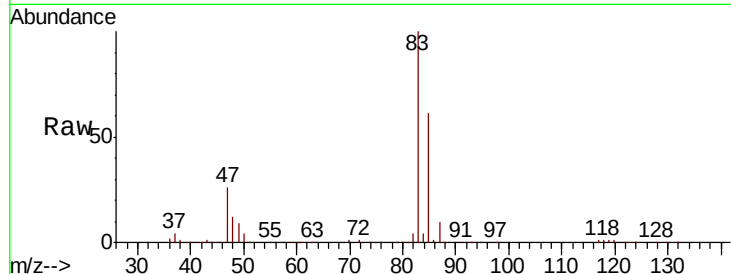
#29
Chloroform
Concen: 8.854 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 83 Resp: 1781423
Ion Ratio Lower Upper
83 100
85 60.9 52.6 78.8

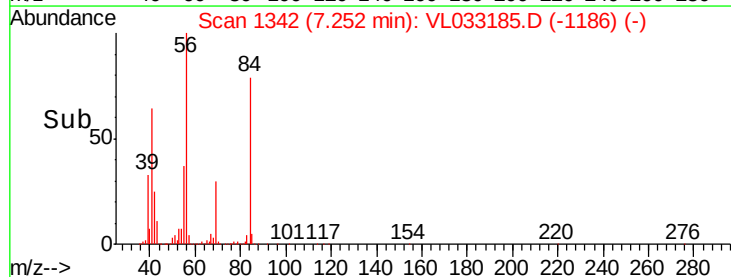
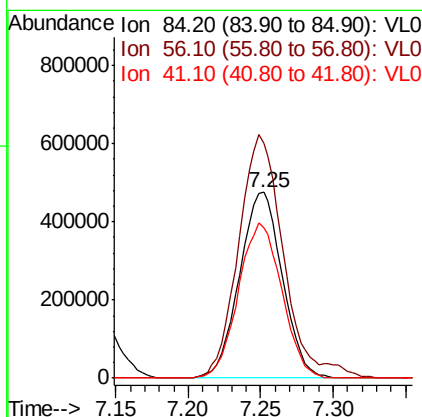
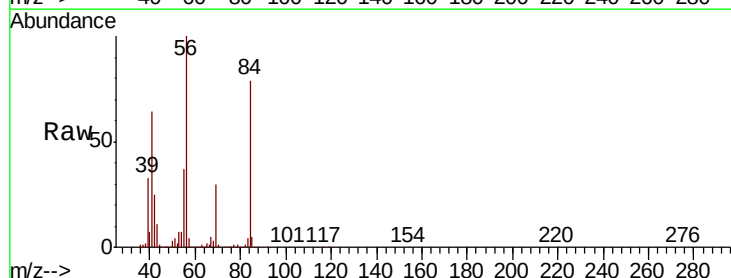
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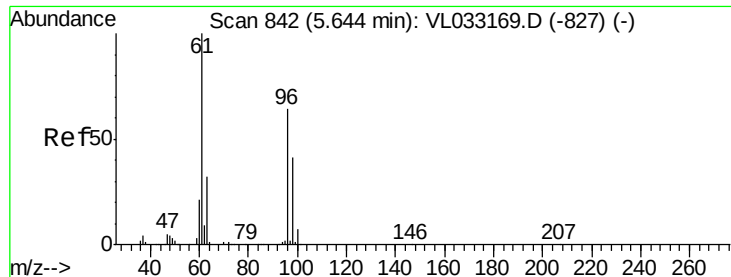
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2/20/2019 12:23:21 PM



#30
Cyclohexane
Concen: 8.033 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Tgt Ion: 84 Resp: 978564
Ion Ratio Lower Upper
84 100
56 137.7 109.5 164.3
41 84.5 66.6 100.0





#31

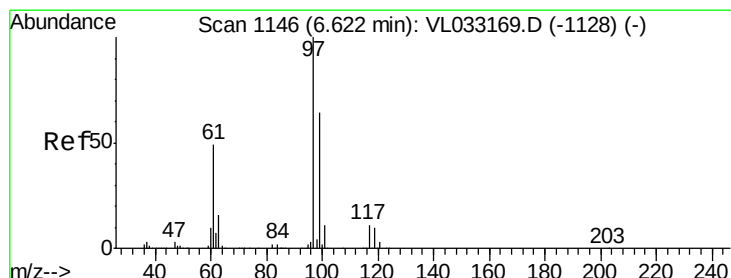
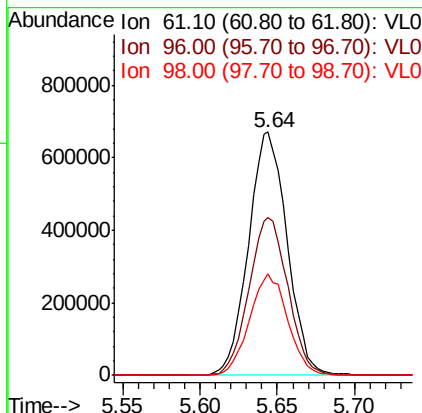
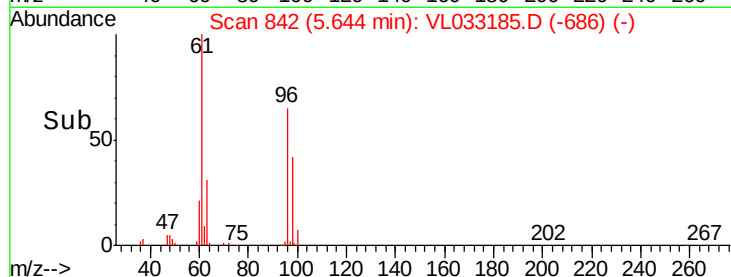
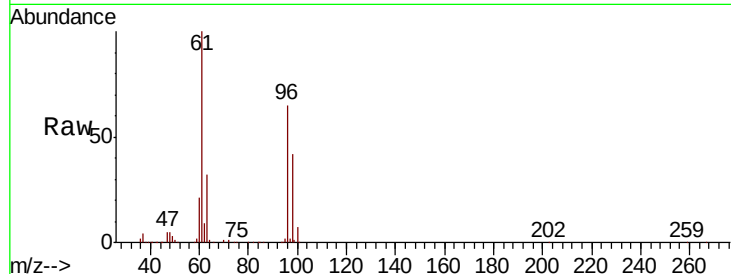
cis-1,2-Dichloroethene
Concen: 8.863 ppbv
RT: 5.64 min Scan# 842
Delta R.T. 0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 61 Resp: 1164712
Ion Ratio Lower Upper
61 100
96 65.1 51.2 76.8
98 41.7 32.8 49.2

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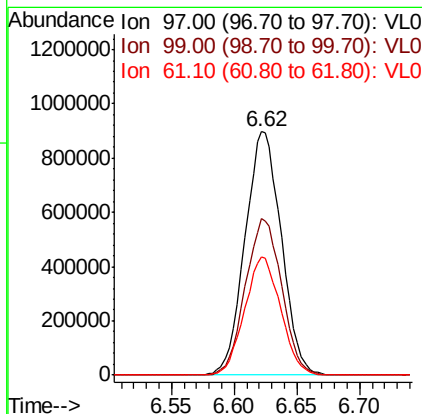
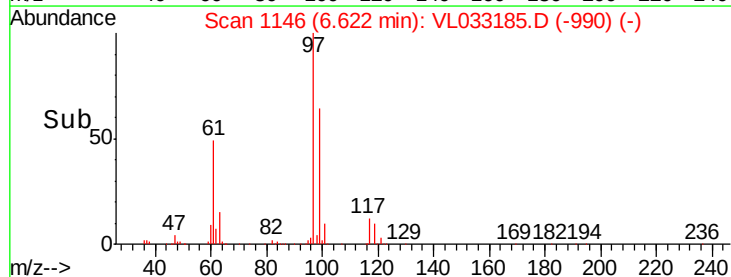
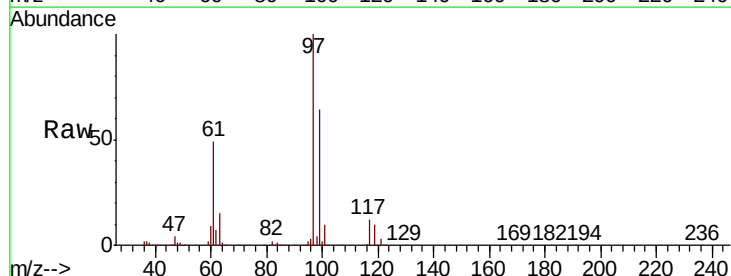
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2/20/2019 12:23:21 PM

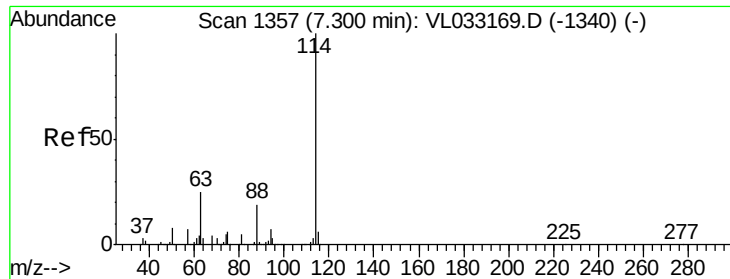


#32

1,1,1-Trichloroethane
Concen: 8.164 ppbv
RT: 6.62 min Scan# 1146
Delta R.T. 0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Tgt Ion: 97 Resp: 1808649
Ion Ratio Lower Upper
97 100
99 64.3 51.4 77.2
61 48.2 38.8 58.2





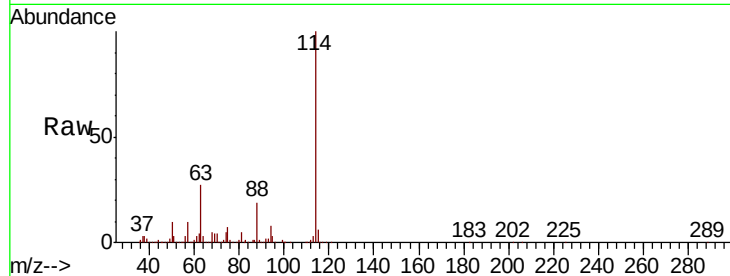
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

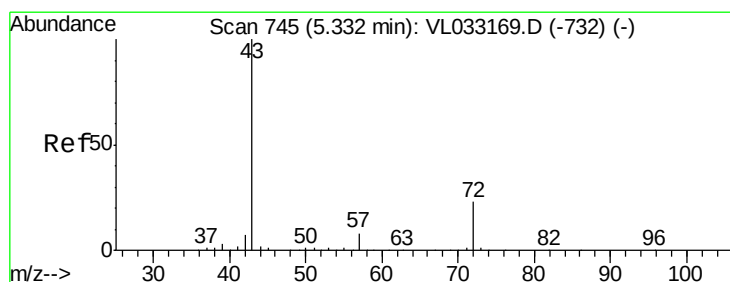
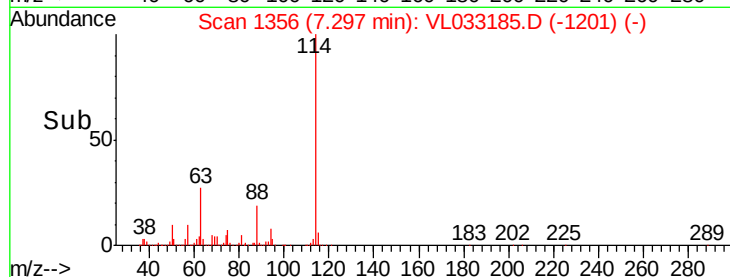
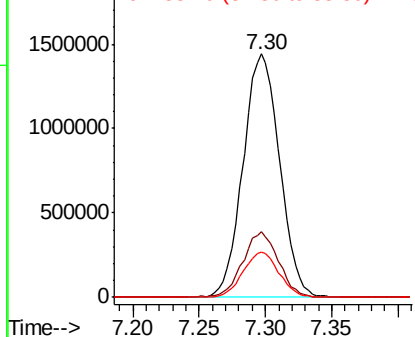
Tgt Ion: 114 Resp: 2765384
 Ion Ratio Lower Upper
 114 100
 63 26.6 20.8 31.2
 88 18.3 14.6 22.0

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 2/20/2019 12:23:21 PM

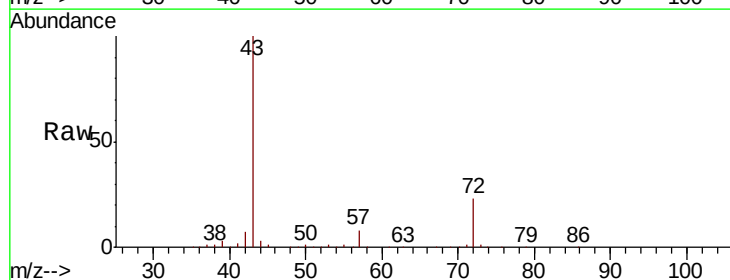


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

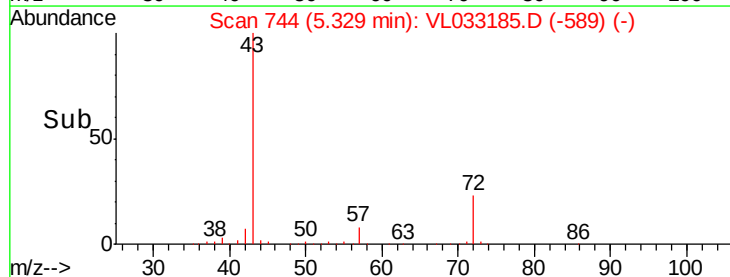
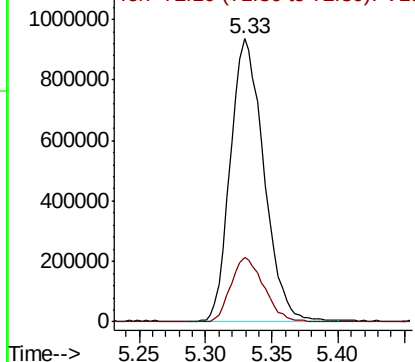


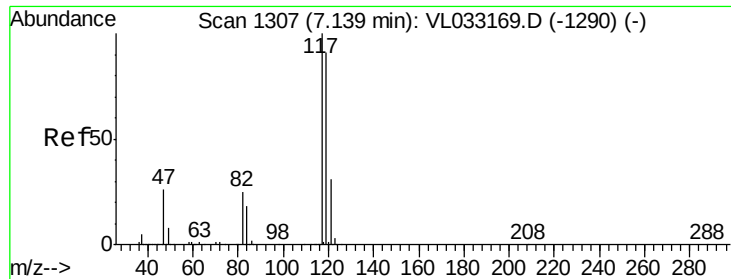
#34
 2-Butanone
 Concen: 9.365 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. -0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Tgt Ion: 43 Resp: 1642738
 Ion Ratio Lower Upper
 43 100
 72 22.5 17.8 26.6



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





#35

Carbon Tetrachloride

Concen: 8.770 ppbv

RT: 7.14 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 117 Resp: 1852159

Ion Ratio Lower Upper

117 100

119 94.2 73.0 109.6

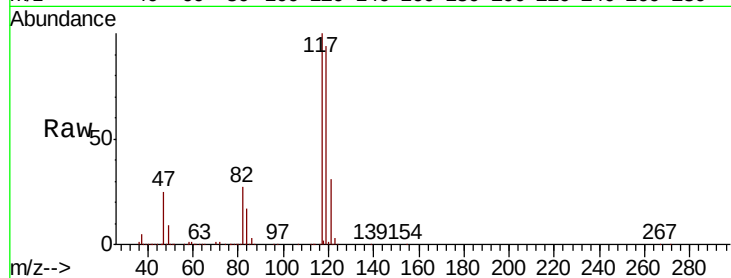
121 31.0 25.1 37.7

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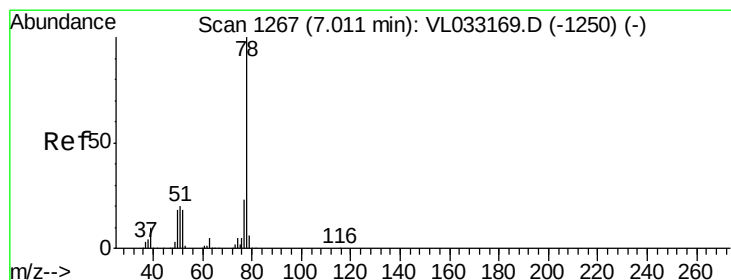
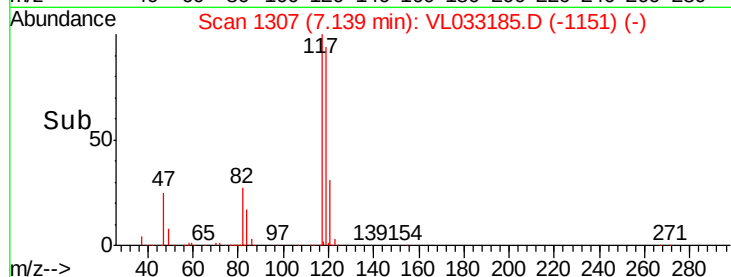
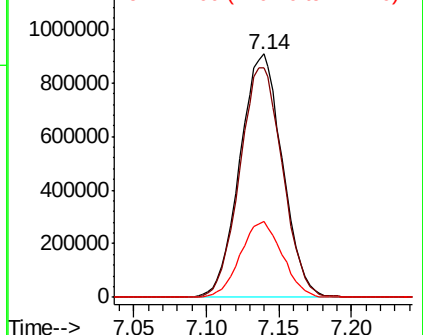


Abundance

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: 8.682 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

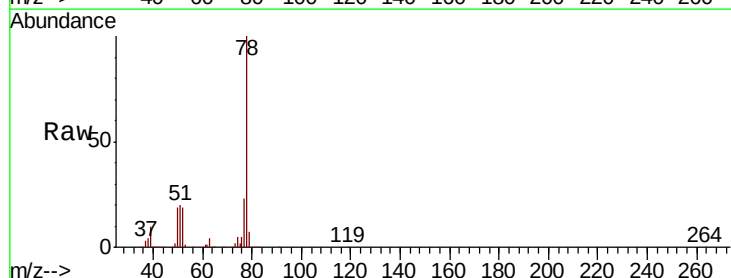
Tgt Ion: 78 Resp: 2433171

Ion Ratio Lower Upper

78 100

77 22.9 18.0 27.0

50 18.6 14.2 21.2

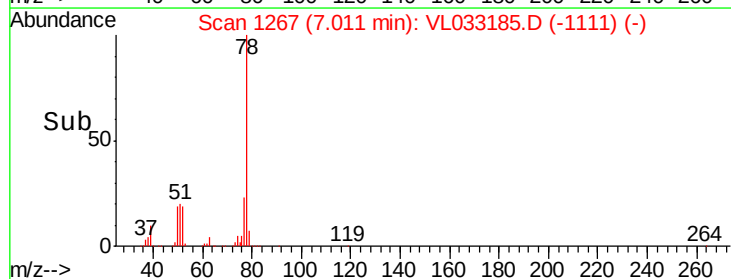
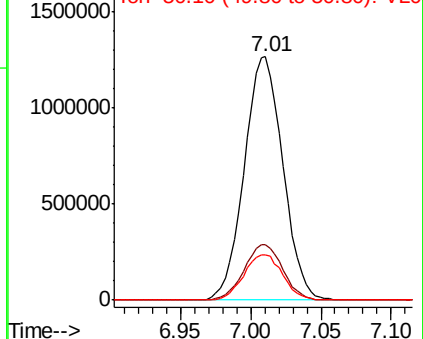


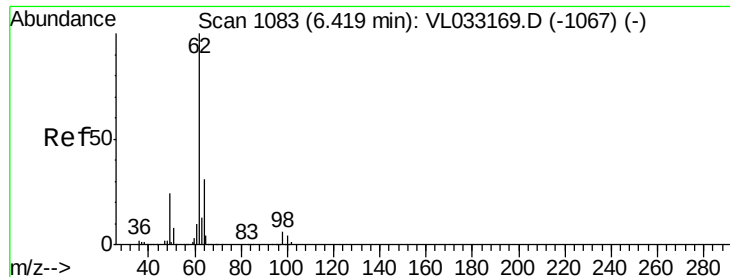
Abundance

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: 8.997 ppbv

RT: 6.42 min Scan# 1083

Delta R.T. 0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 62 Resp: 1397409

Ion Ratio Lower Upper

62 100

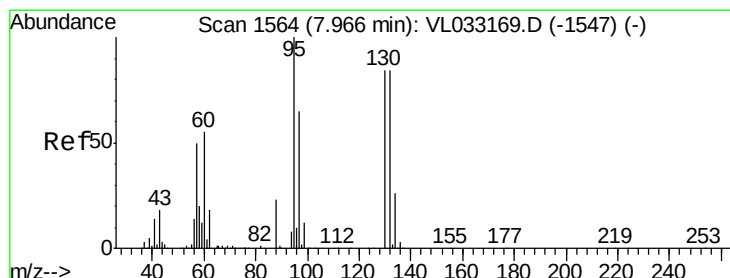
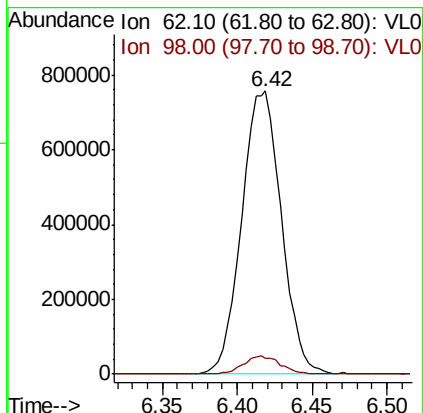
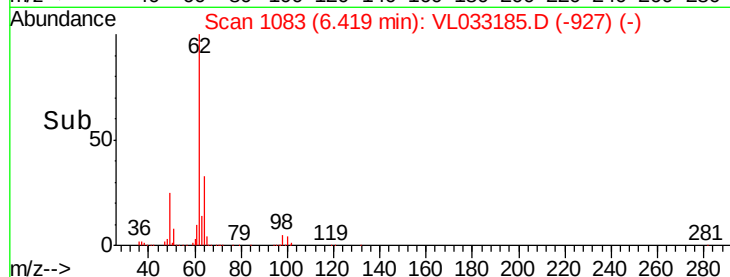
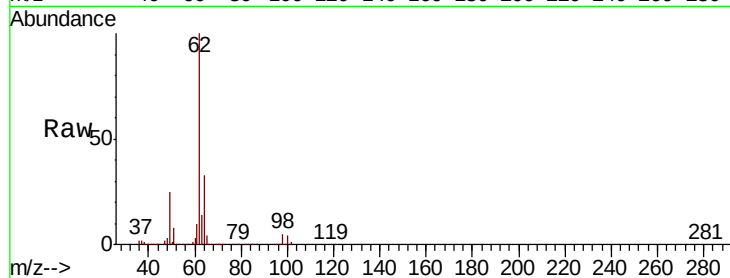
98 6.1 4.7 7.1

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2/20/2019 12:23:21 PM



#38

Trichloroethene

Concen: 7.405 ppbv

RT: 7.97 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Tgt Ion: 130 Resp: 886862

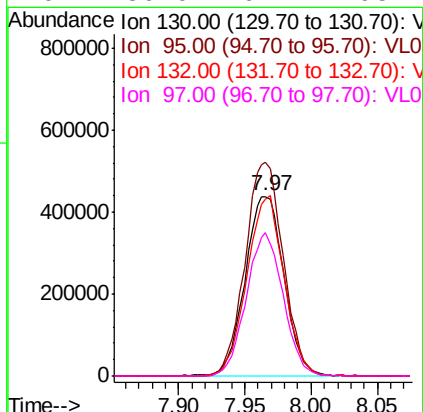
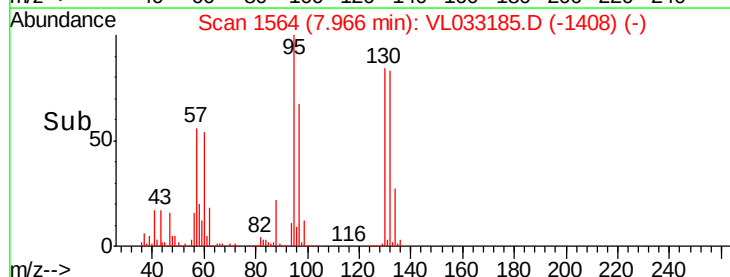
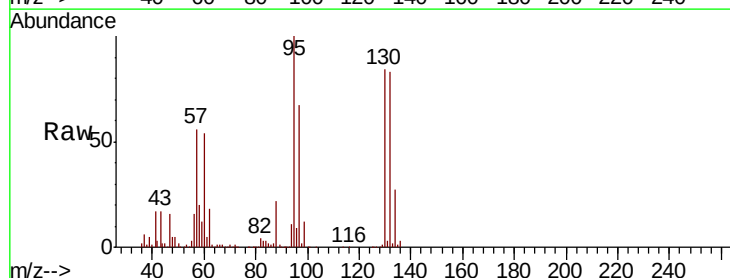
Ion Ratio Lower Upper

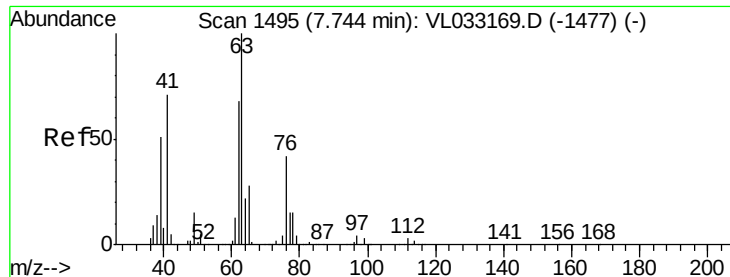
130 100

95 119.0 95.5 143.3

132 98.5 80.0 120.0

97 80.0 62.2 93.2





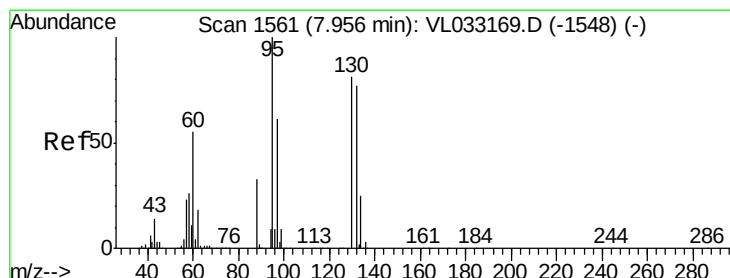
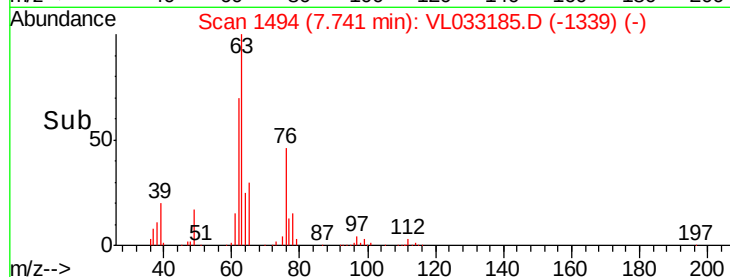
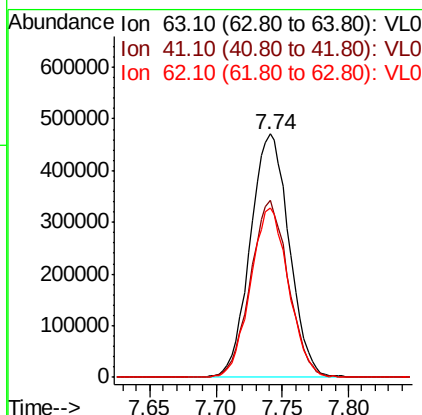
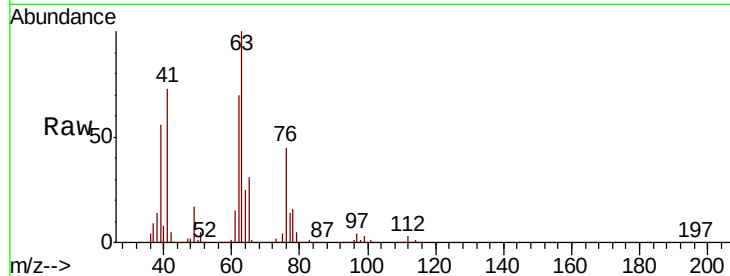
#39
 1,2-Dichloropropane
 Concen: 8.646 ppbv
 RT: 7.74 min Scan# 1494
 Delta R.T. -0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion	Ratio	Lower	Upper
63	100		
41	72.6	56.4	84.6
62	69.8	54.2	81.4

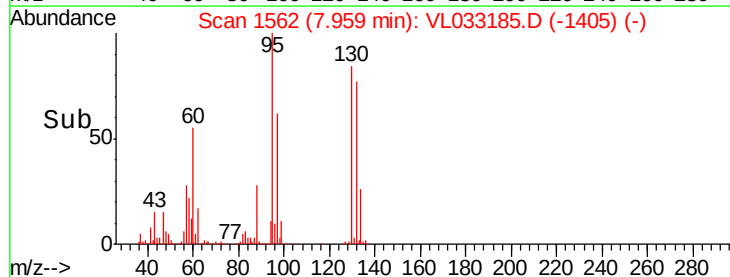
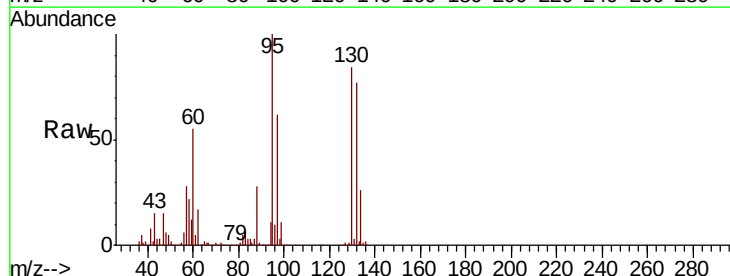
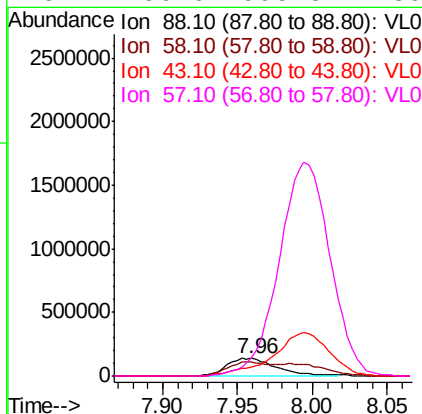
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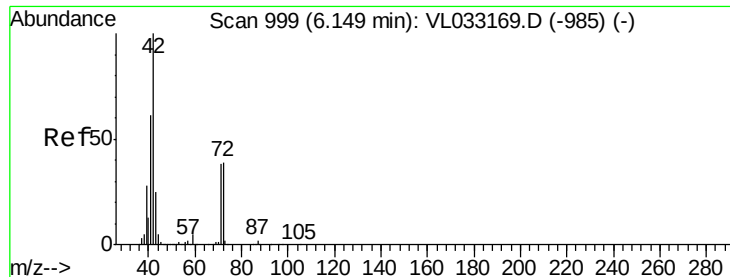
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#40
 1,4-Dioxane
 Concen: 8.076 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. 0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Tgt Ion	Ratio	Lower	Upper
88	100		
58	135.6	106.4	159.6
43	278.3	219.6	329.4
57	1256.0	993.3	1489.9





#41

Tetrahydrofuran

Concen: 9.158 ppbv

RT: 6.15 min Scan# 999

Delta R.T. 0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Instrument :

MSVOA_L

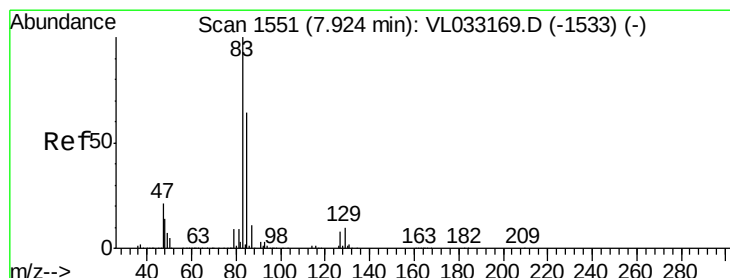
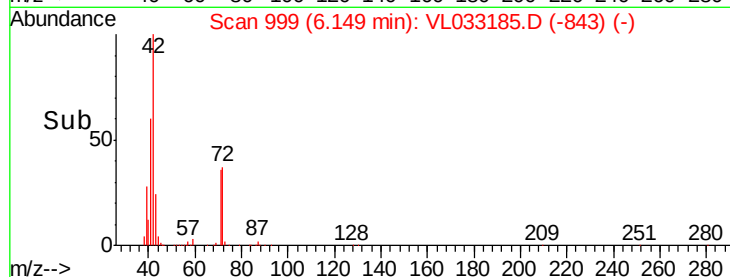
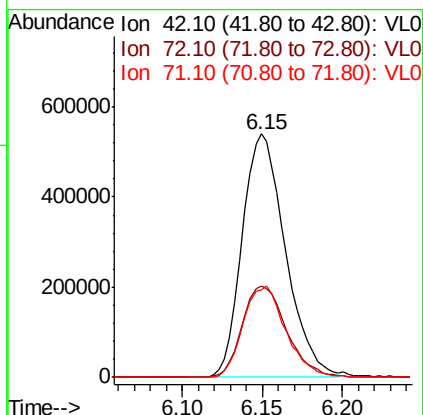
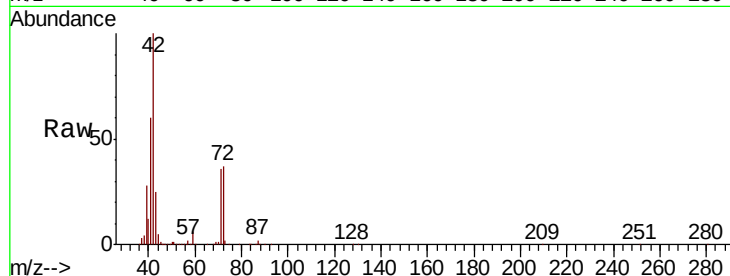
ClientSampleId :

VSTDCCC010

Tgt Ion:	42	Resp:	993099
Ion Ratio		Lower	Upper
42	100		
72	38.9	31.4	47.2
71	37.5	30.2	45.2

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#42

Bromodichloromethane

Concen: 9.007 ppbv

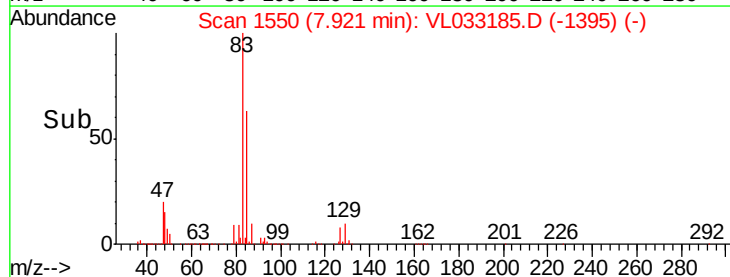
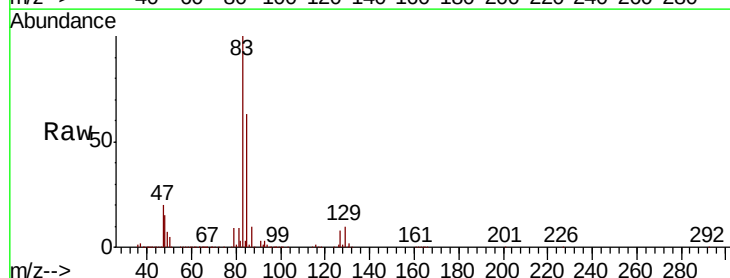
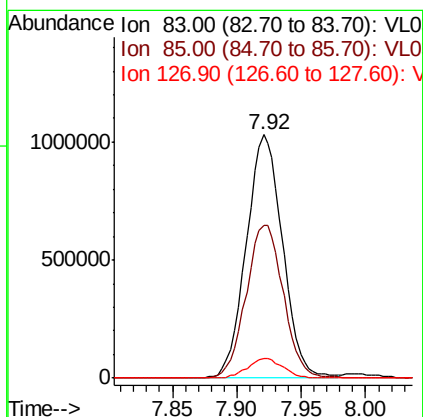
RT: 7.92 min Scan# 1550

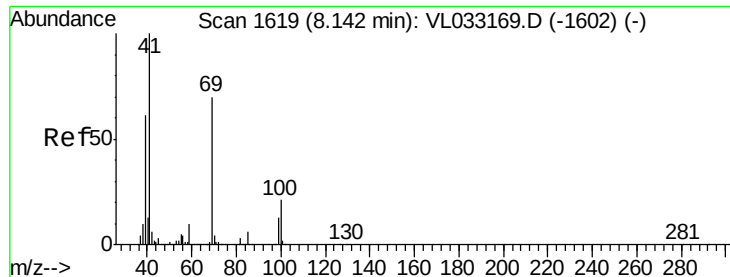
Delta R.T. -0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Tgt Ion:	83	Resp:	2027248
Ion Ratio		Lower	Upper
83	100		
85	62.9	51.1	76.7
127	7.9	6.4	9.6





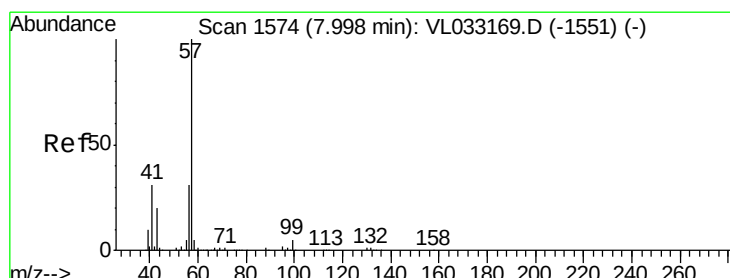
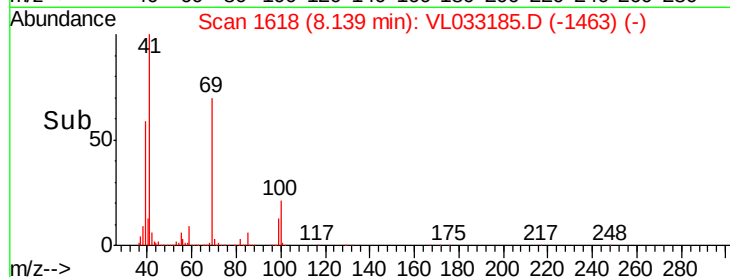
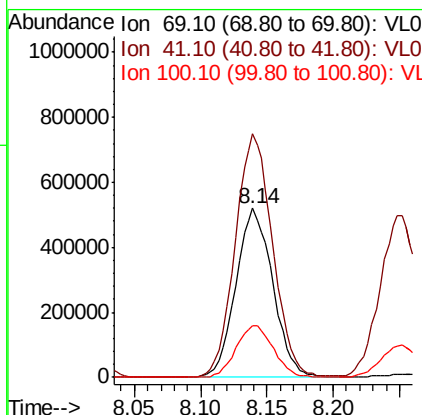
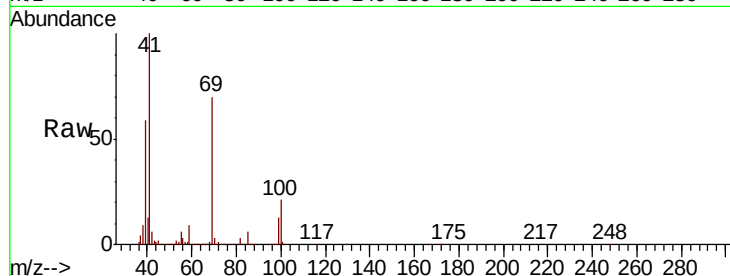
#43
Methyl Methacrylate
Concen: 8.912 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. -0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 69 Resp: 1002728
Ion Ratio Lower Upper
69 100
41 145.7 117.1 175.7
100 30.9 25.0 37.6

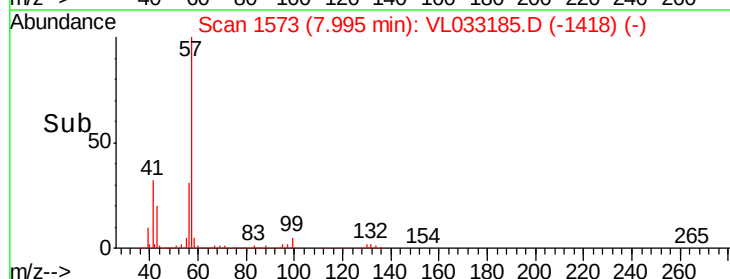
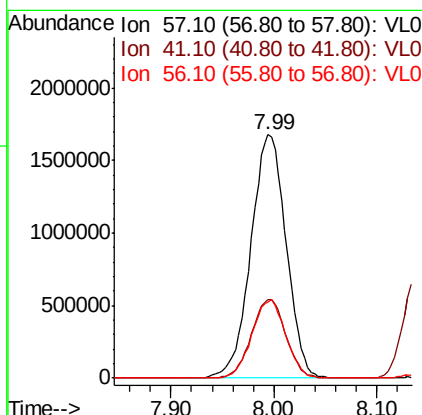
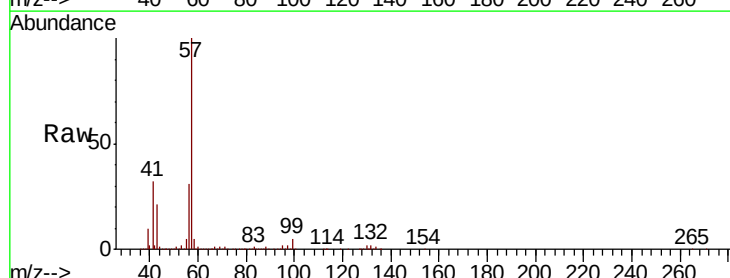
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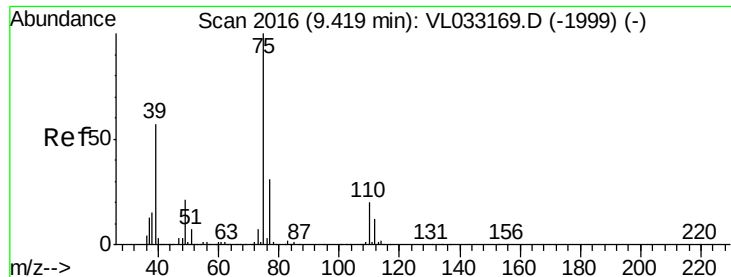
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#44
2,2,4-Trimethylpentane
Concen: 8.381 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Tgt Ion: 57 Resp: 3980316
Ion Ratio Lower Upper
57 100
41 31.7 25.2 37.8
56 30.9 24.5 36.7





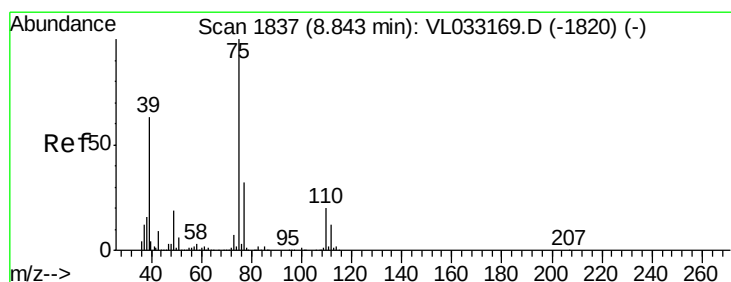
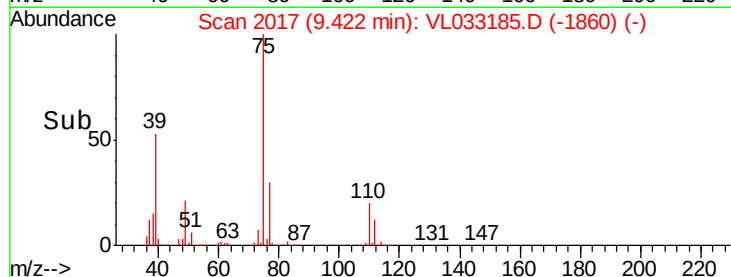
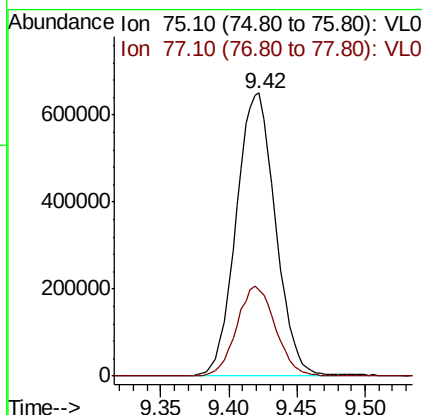
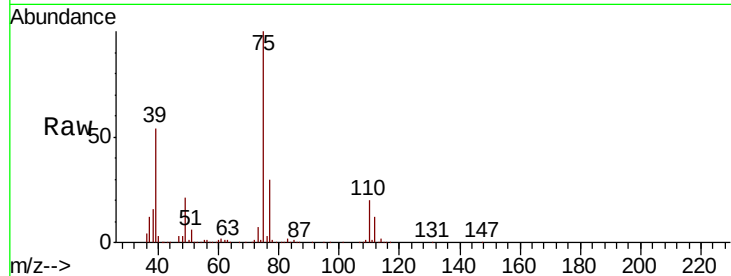
#45
t-1,3-Dichloropropene
Concen: 10.410 ppbv
RT: 9.42 min Scan# 2017
Delta R.T. 0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 75 Resp: 1297049
Ion Ratio Lower Upper
75 100
77 30.5 25.0 37.4

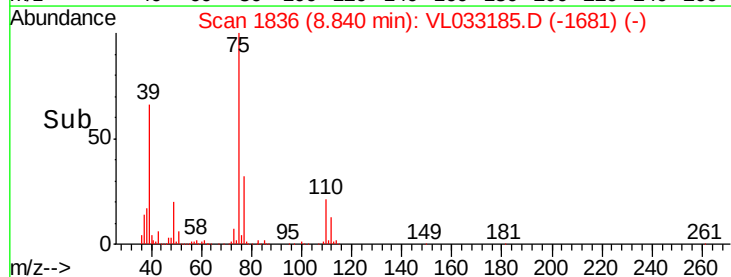
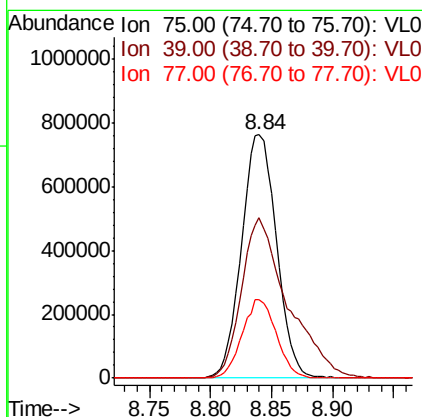
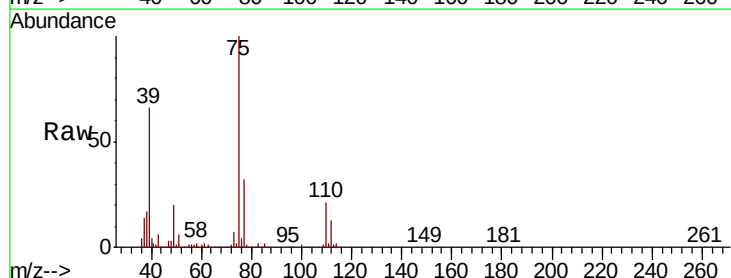
Manual Integrations
APPROVED

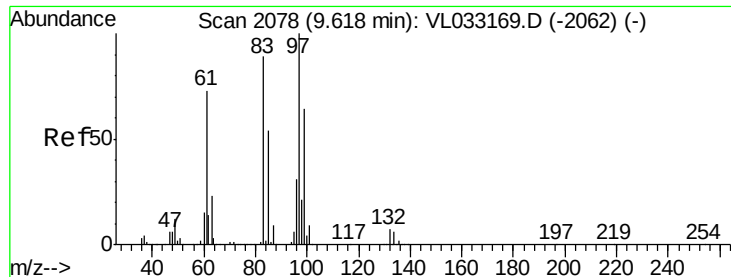
MMDadoda
2/20/2019 12:23:21 PM



#46
cis-1,3-Dichloropropene
Concen: 9.477 ppbv
RT: 8.84 min Scan# 1836
Delta R.T. -0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Tgt Ion: 75 Resp: 1508914
Ion Ratio Lower Upper
75 100
39 65.8 50.1 75.1
77 32.4 25.4 38.2





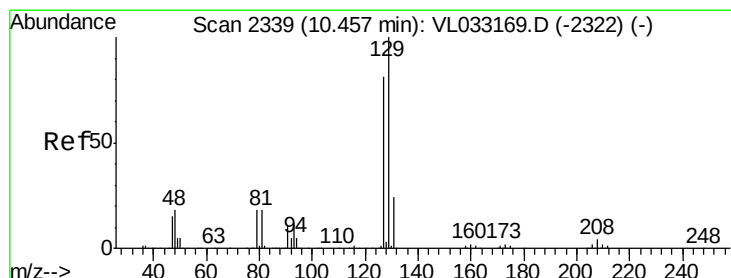
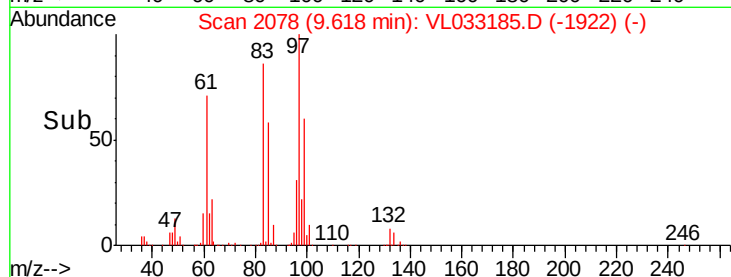
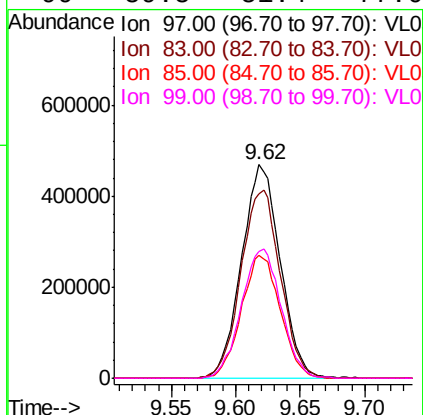
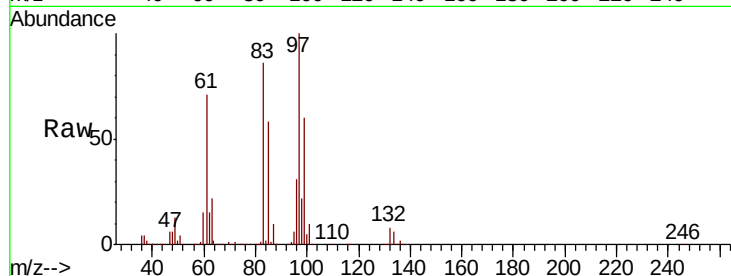
#47
 1,1,2-Trichloroethane
 Concen: 8.532 ppbv
 RT: 9.62 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion	Ratio	Lower	Upper
97	100		
83	86.3	71.4	107.2
85	57.5	43.5	65.3
99	59.5	51.4	77.0

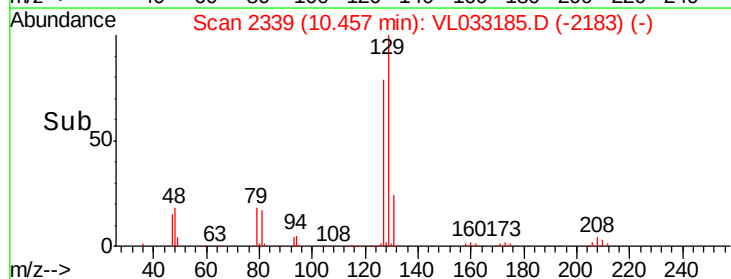
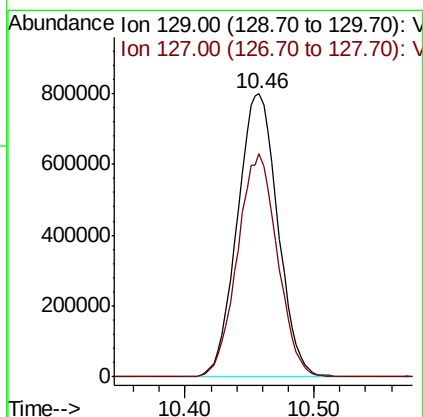
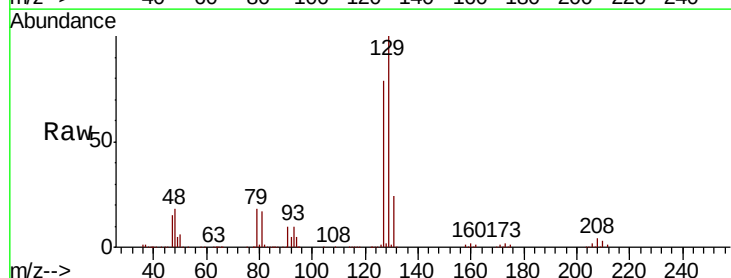
Manual Integrations
 APPROVED

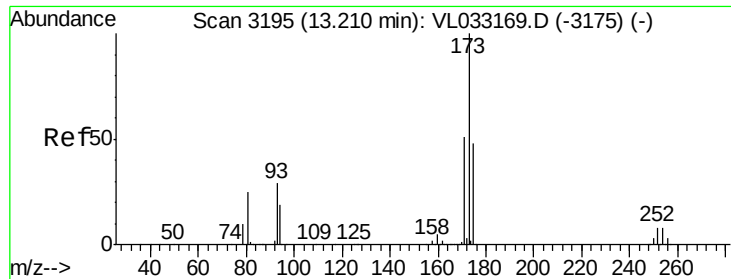
MMDadoda
 2/20/2019 12:23:21 PM



#48
 Dibromochloromethane
 Concen: 9.628 ppbv
 RT: 10.46 min Scan# 2339
 Delta R.T. 0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.8	39.1	117.3





#49

Bromoform

Concen: 9.478 ppbv

RT: 13.21 min Scan# 3195

Delta R.T. 0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:173 Resp: 1474877

Ion Ratio Lower Upper

173 100

175 48.4 38.6 58.0

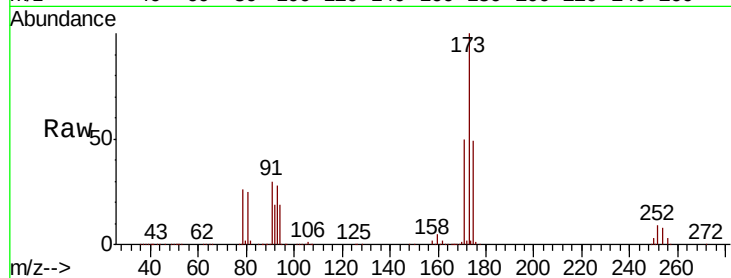
171 51.7 41.6 62.4

Manual Integrations

APPROVED

MMDadoda

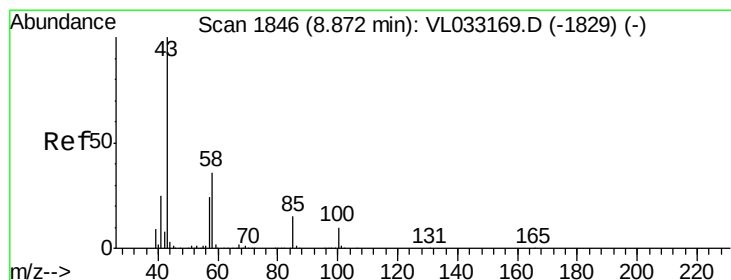
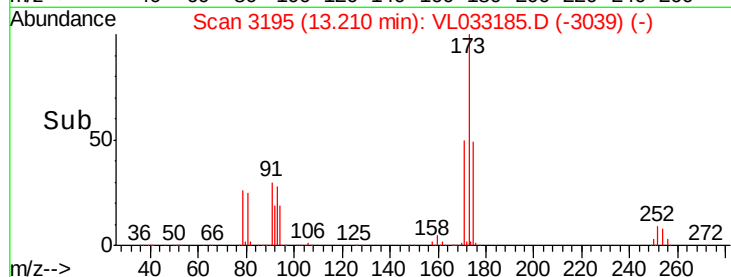
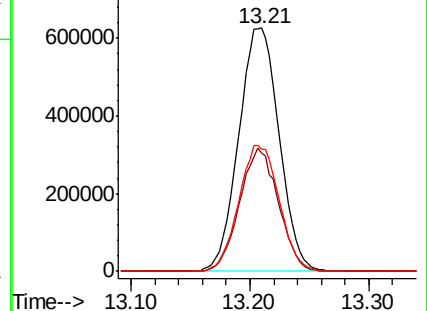
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 8.732 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. 0.00 min

Lab File: VL033185.D

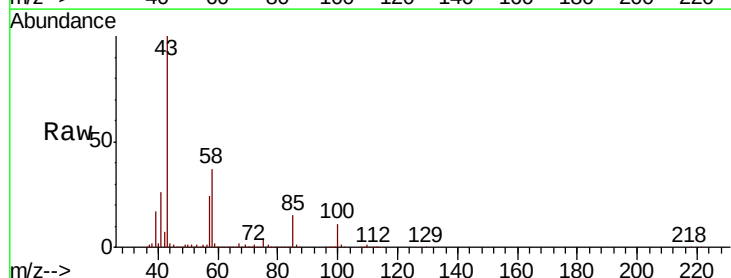
Acq: 13 Feb 2019 12:14

Tgt Ion: 43 Resp: 2456035

Ion Ratio Lower Upper

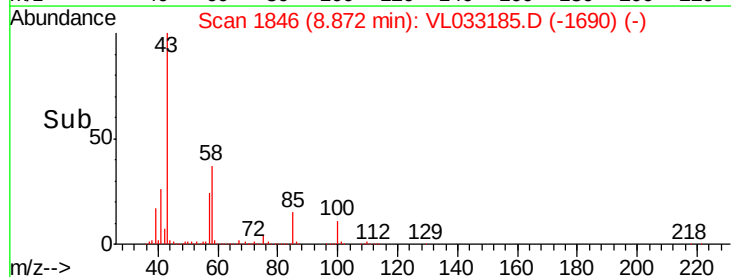
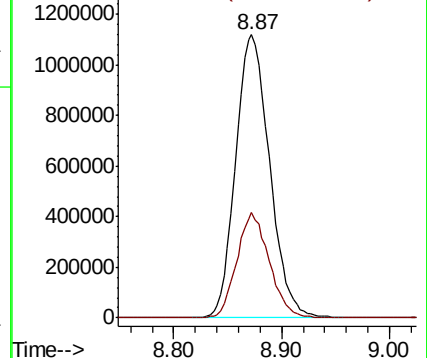
43 100

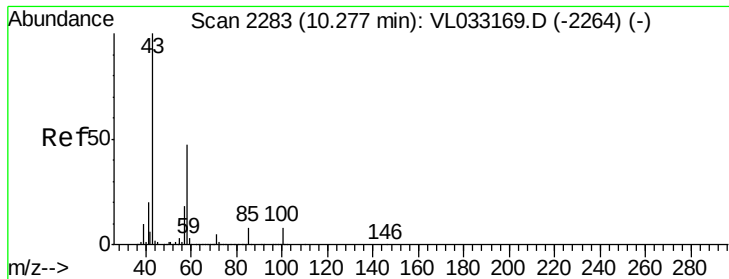
58 35.6 29.0 43.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





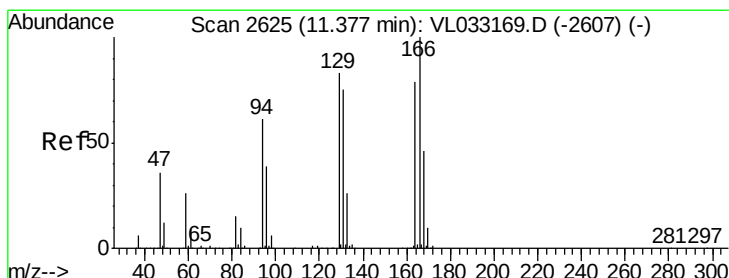
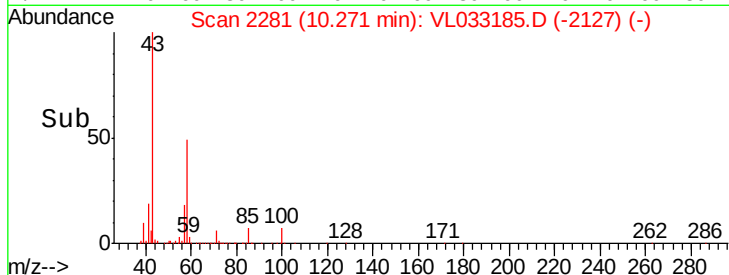
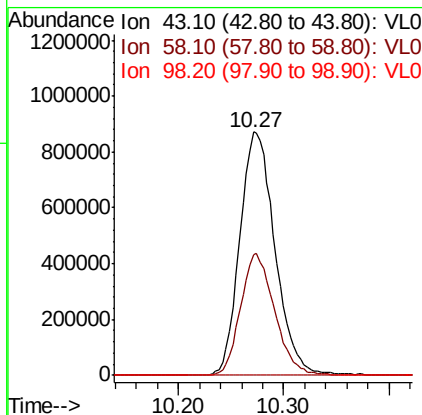
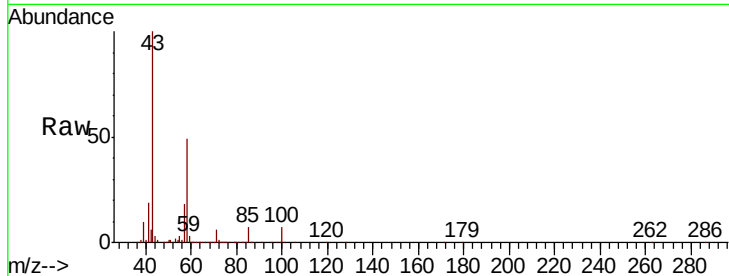
#51
 2-Hexanone
 Concen: 9.107 ppbv
 RT: 10.27 min Scan# 2281
 Delta R.T. -0.01 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 43 Resp: 2019678
 Ion Ratio Lower Upper
 43 100
 58 48.7 39.0 58.6
 98 0.2 0.1 0.1#

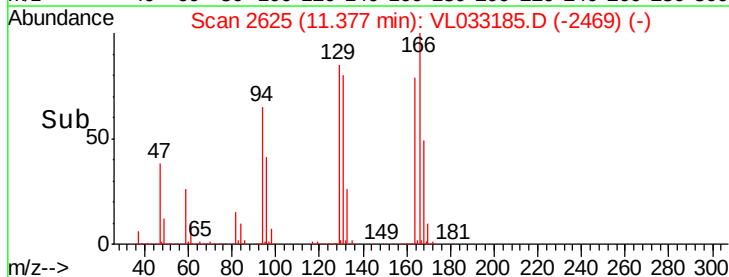
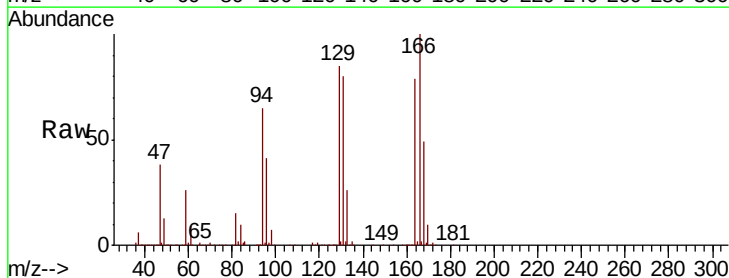
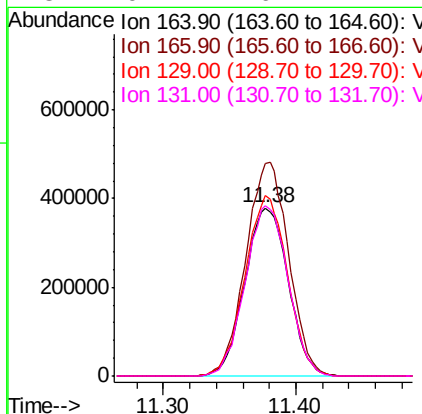
Manual Integrations
 APPROVED

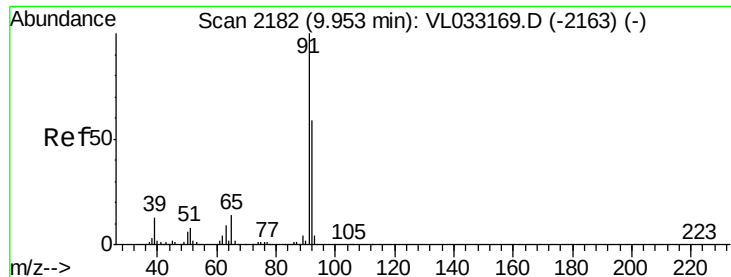
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#52
 Tetrachloroethene
 Concen: 8.003 ppbv
 RT: 11.38 min Scan# 2625
 Delta R.T. 0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Tgt Ion: 164 Resp: 861681
 Ion Ratio Lower Upper
 164 100
 166 126.7 100.9 151.3
 129 107.1 83.9 125.9
 131 101.1 76.2 114.2





#53

Toluene

Concen: 8.818 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. 0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 91 Resp: 2926551

Ion Ratio Lower Upper

91 100

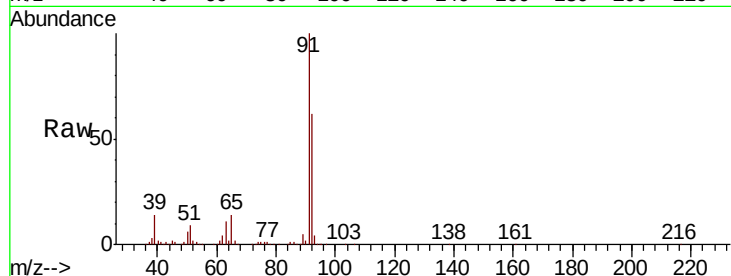
92 59.5 48.0 72.0

Manual Integrations

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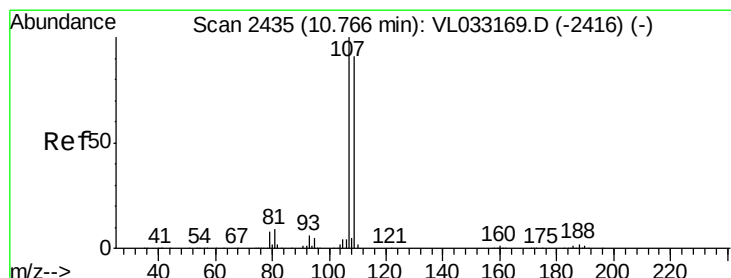
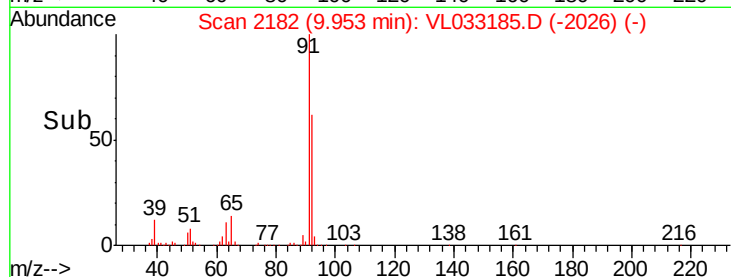
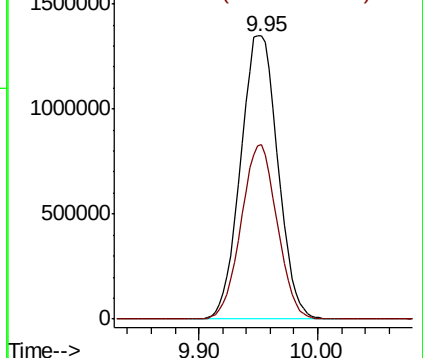
MMDadoda

2/20/2019 12:23:21 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 8.709 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. 0.00 min

Lab File: VL033185.D

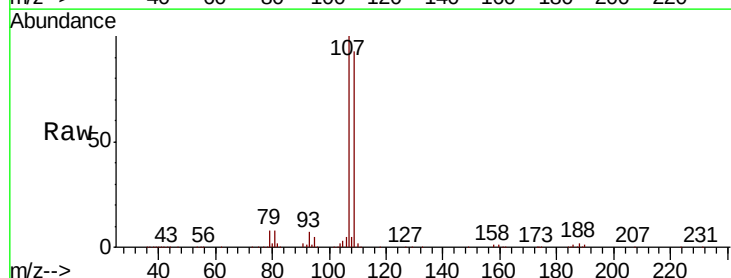
Acq: 13 Feb 2019 12:14

Tgt Ion: 107 Resp: 1568688

Ion Ratio Lower Upper

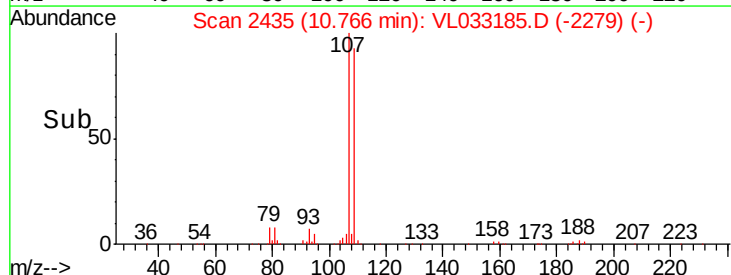
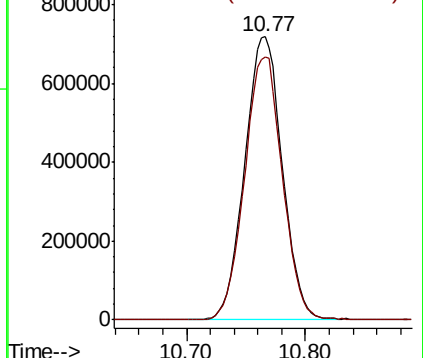
107 100

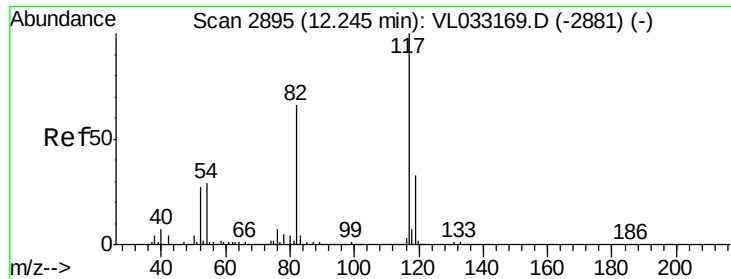
109 92.9 73.2 109.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





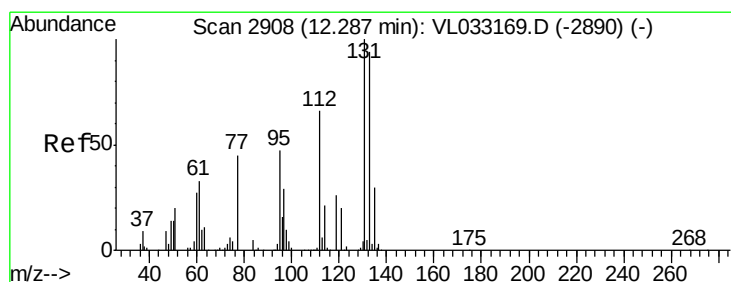
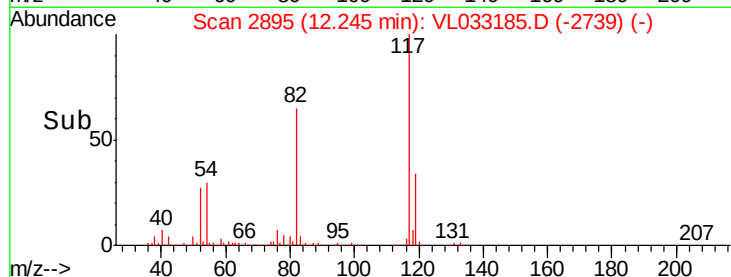
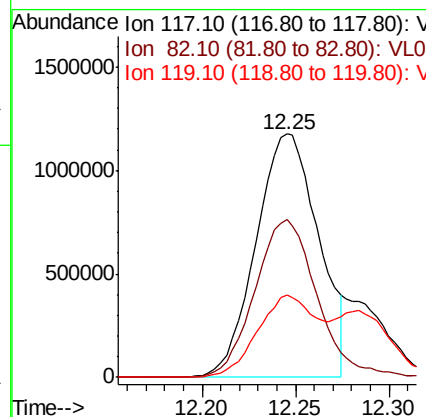
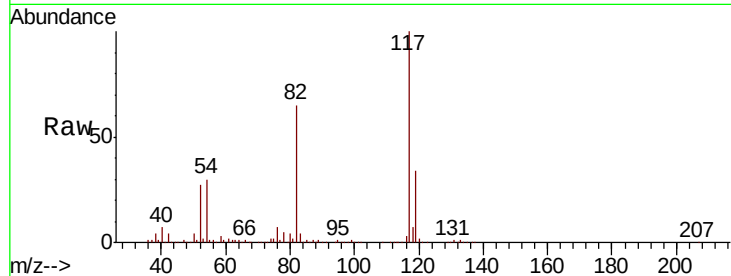
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2895
Delta R.T. 0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:117 Resp: 2740144
Ion Ratio Lower Upper
117 100
82 64.4 53.8 80.8
119 56.3 46.9 70.3

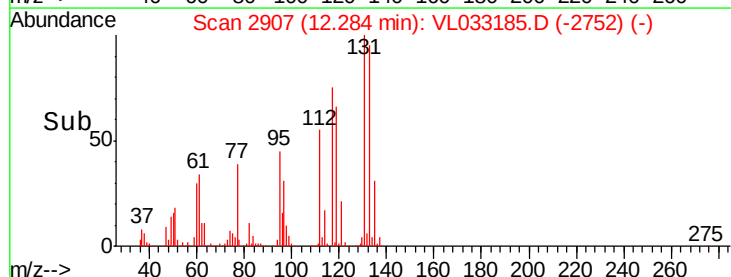
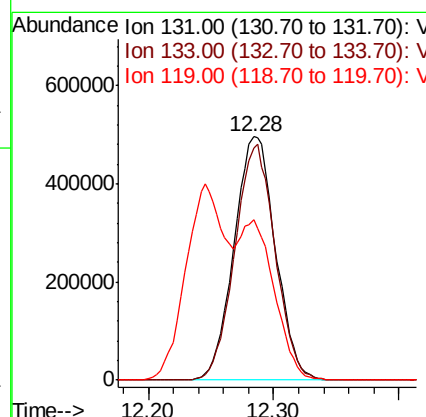
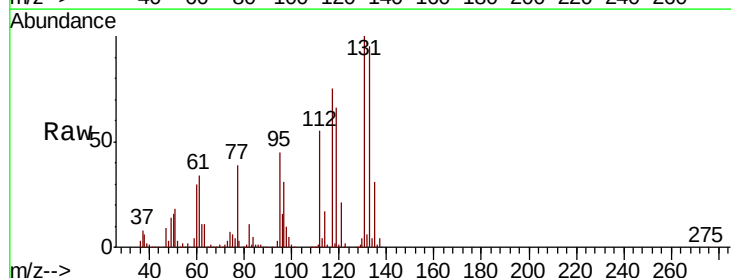
Manual Integrations
APPROVED

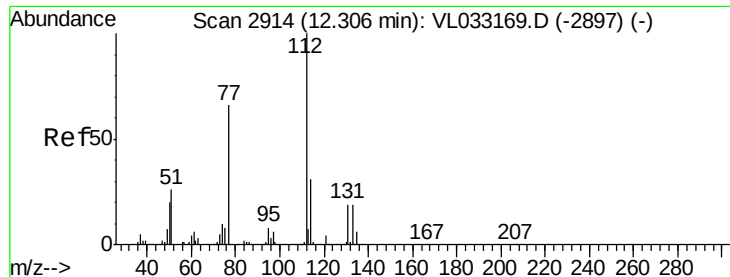
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.901 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. -0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Tgt Ion:131 Resp: 1135888
Ion Ratio Lower Upper
131 100
133 94.4 75.8 113.6
119 135.9 48.1 72.1#





#57

Chlorobenzene

Concen: 8.090 ppbv

RT: 12.31 min Scan# 2914

Delta R.T. 0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 112 Resp: 1961623

Ion Ratio Lower Upper

112 100

77 68.5 54.0 81.0

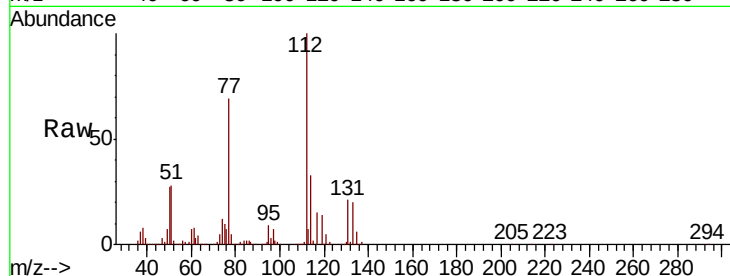
114 33.4 27.9 34.1

Manual Integrations

APPROVED

MMDadoda

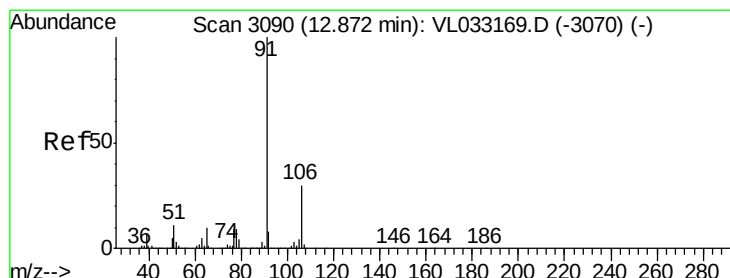
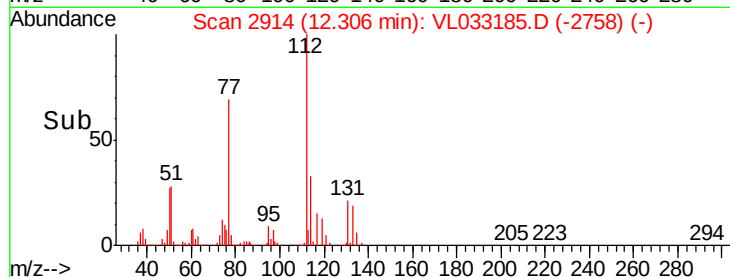
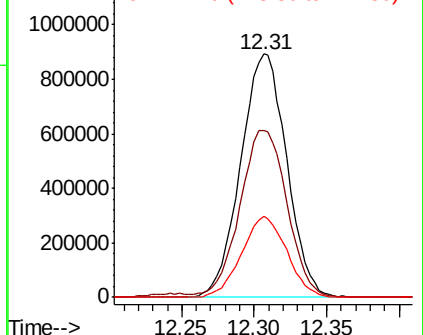
2/20/2019 12:23:21 PM



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: 8.462 ppbv

RT: 12.87 min Scan# 3089

Delta R.T. -0.00 min

Lab File: VL033185.D

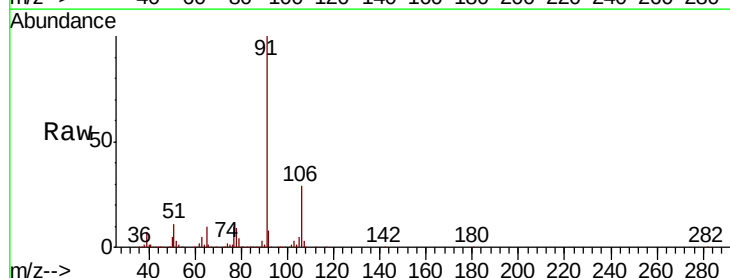
Acq: 13 Feb 2019 12:14

Tgt Ion: 91 Resp: 3806200

Ion Ratio Lower Upper

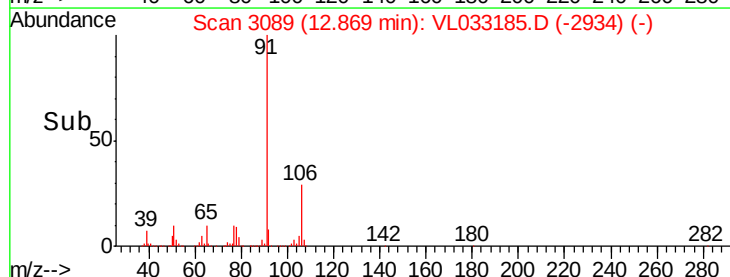
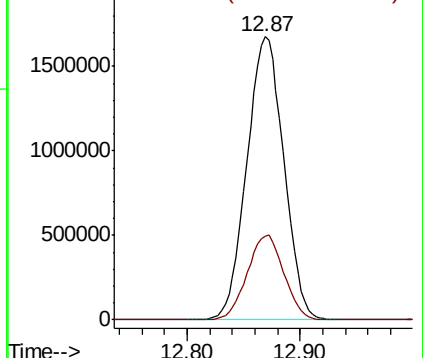
91 100

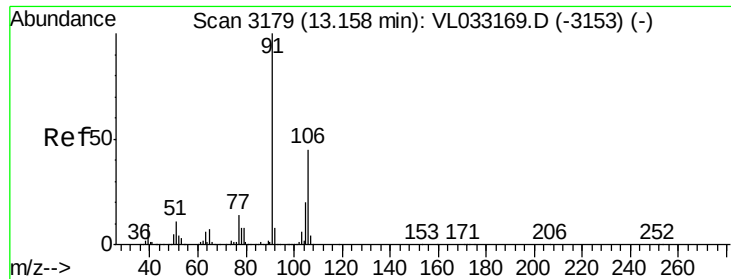
106 29.5 23.8 35.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





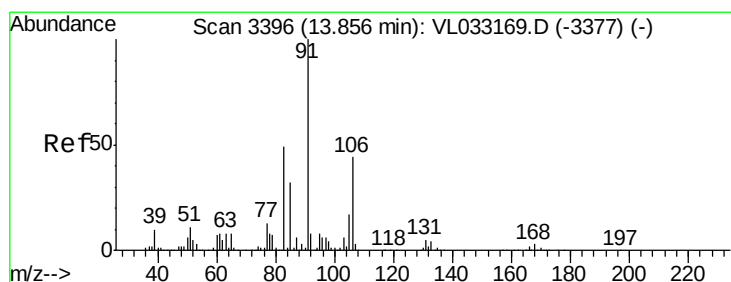
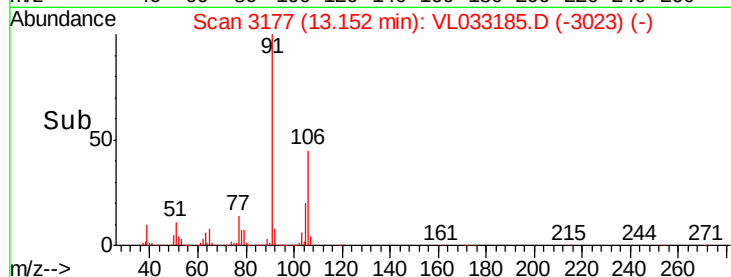
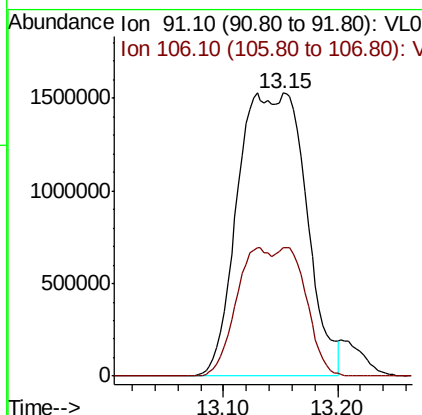
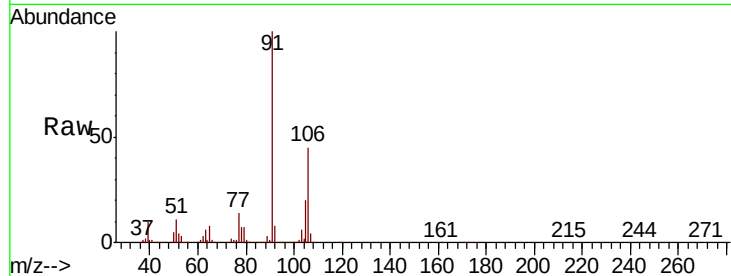
#59
m/p-Xylene
Concen: 16.903 ppbv m
RT: 13.15 min Scan# 3177
Delta R.T. -0.01 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 6324089
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#

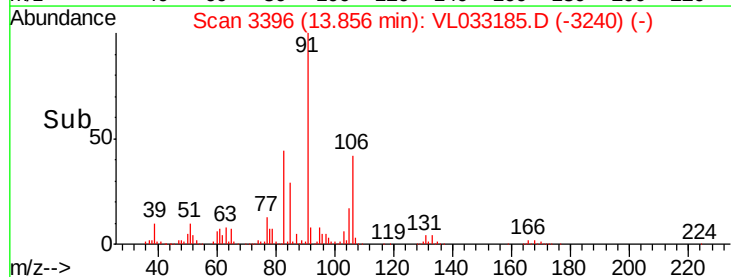
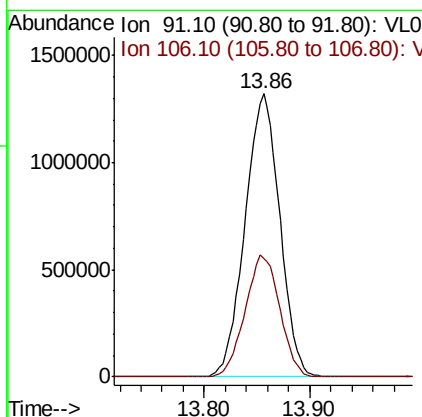
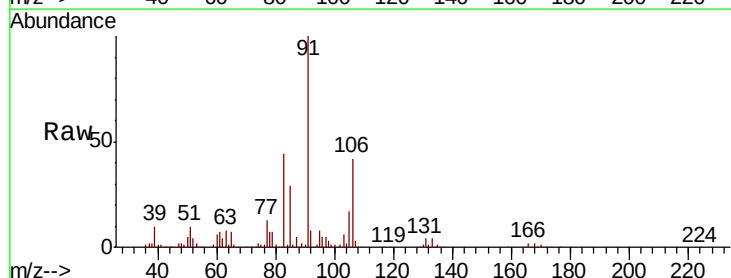
Manual Integrations
APPROVED

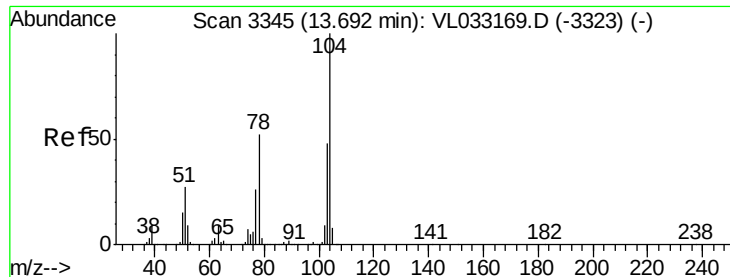
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#60
o-Xylene
Concen: 8.295 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. 0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Tgt Ion: 91 Resp: 3026167
Ion Ratio Lower Upper
91 100
106 43.1 21.8 65.3





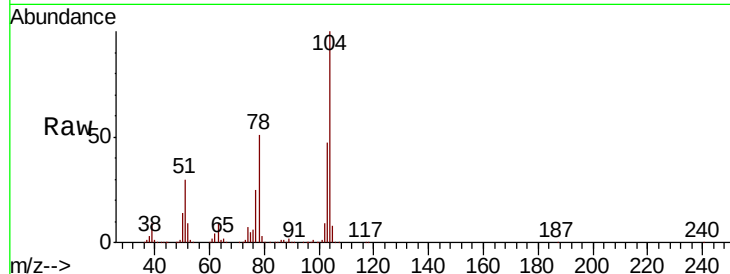
#61
 Styrene
 Concen: 8.585 ppbv
 RT: 13.69 min Scan# 3344
 Delta R.T. -0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

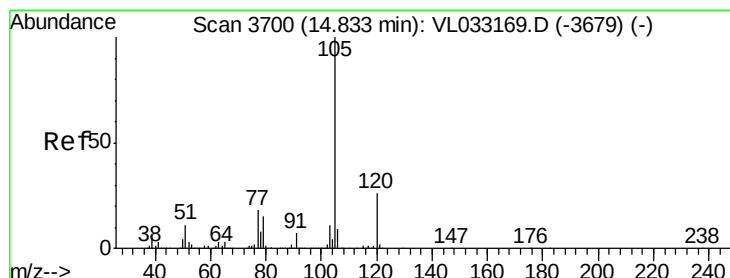
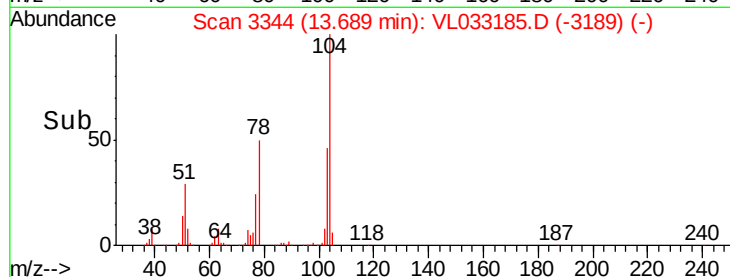
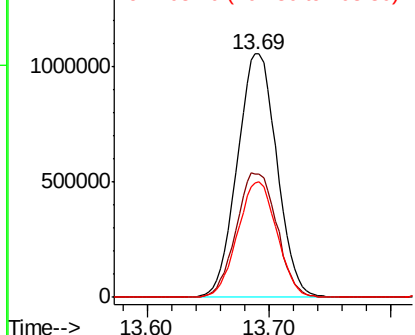
Tgt Ion	Ratio	Lower	Upper
104	100		
78	52.6	41.9	62.9
103	47.2	37.9	56.9

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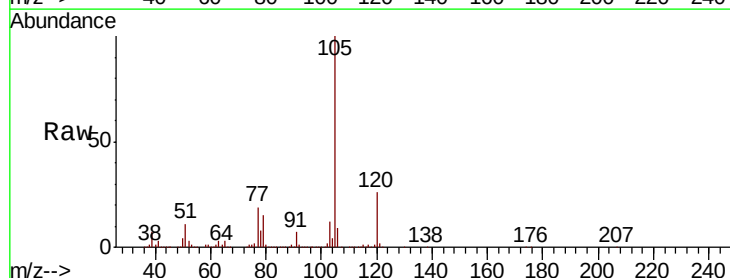


Abundance Ion 104.10 (103.80 to 104.80): V
 Ion 78.10 (77.80 to 78.80): VL0
 Ion 103.10 (102.80 to 103.80): V

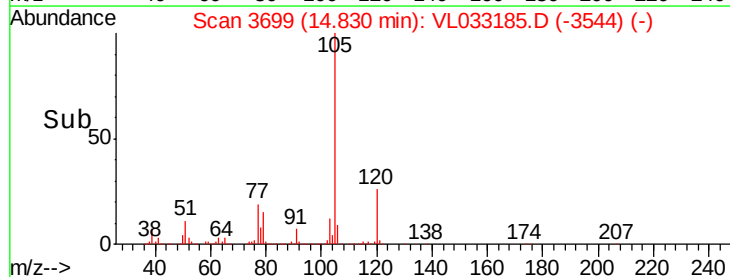
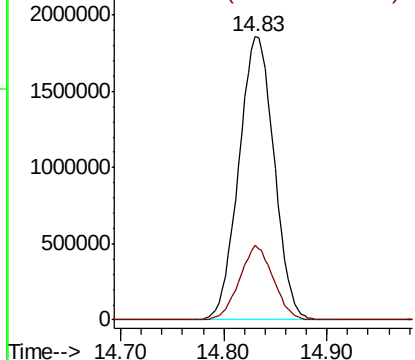


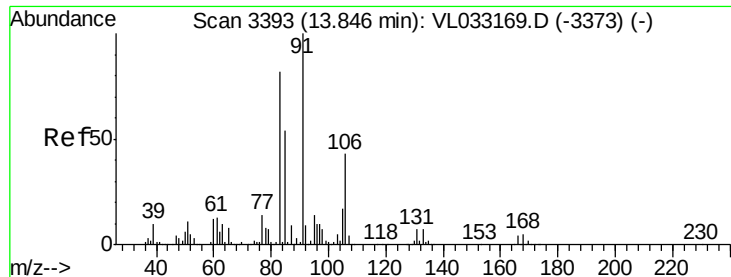
#62
 Isopropylbenzene
 Concen: 8.574 ppbv
 RT: 14.83 min Scan# 3699
 Delta R.T. -0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.2	20.3	30.5



Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 7.335 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. -0.01 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 83 Resp: 2089198

Ion Ratio Lower Upper

83 100

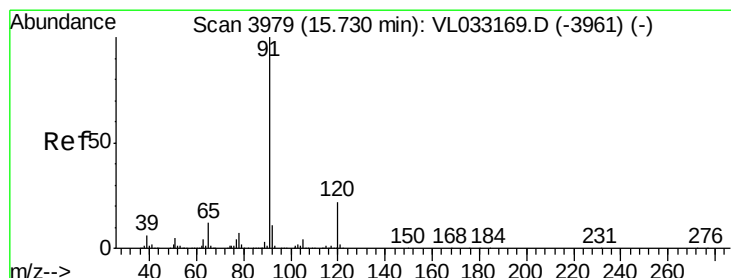
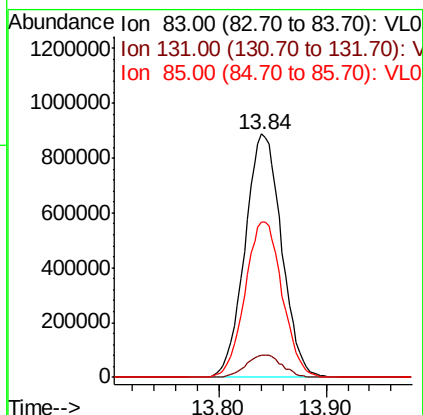
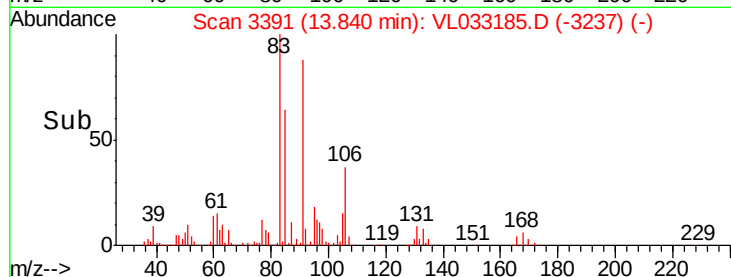
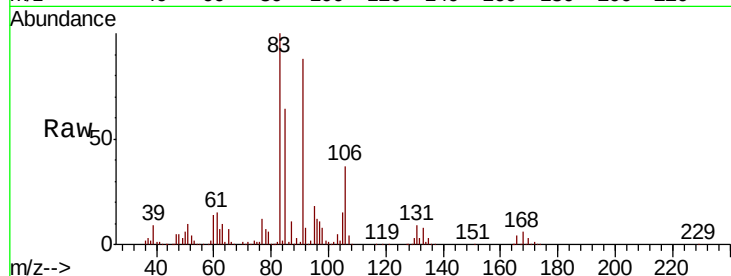
131 9.2 4.8 14.3

85 65.0 32.8 98.3

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2/20/2019 12:23:21 PM



#64

n-propylbenzene

Concen: 8.648 ppbv

RT: 15.73 min Scan# 3978

Delta R.T. -0.00 min

Lab File: VL033185.D

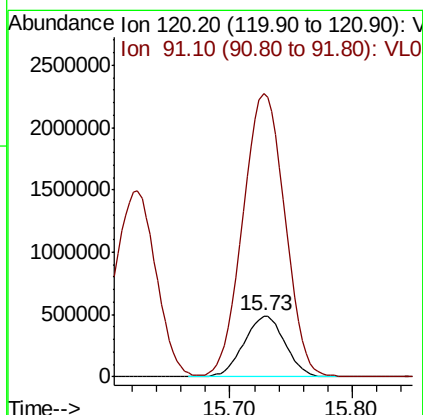
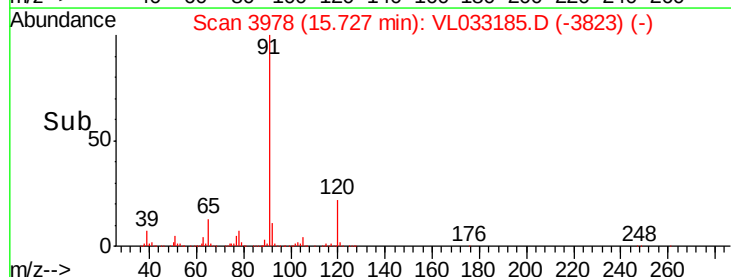
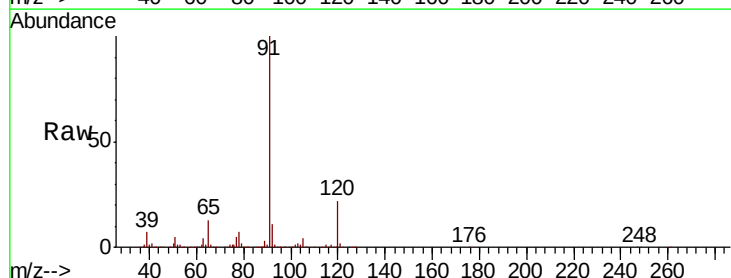
Acq: 13 Feb 2019 12:14

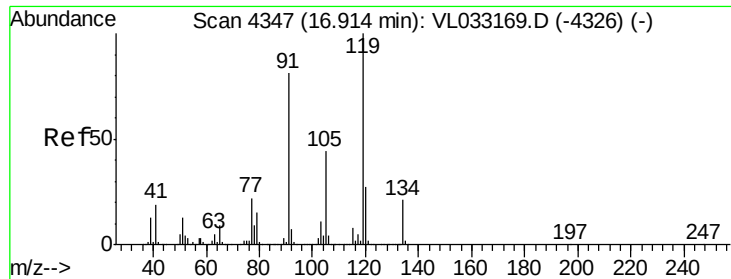
Tgt Ion: 120 Resp: 1131628

Ion Ratio Lower Upper

120 100

91 480.5 383.9 575.9





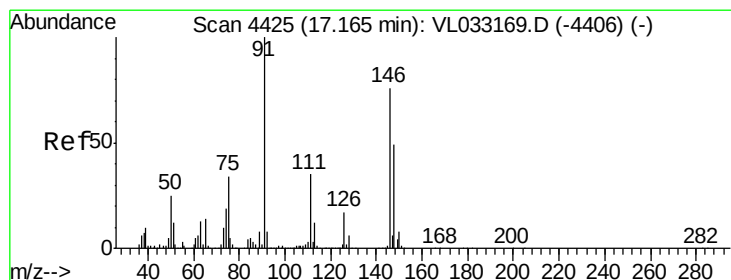
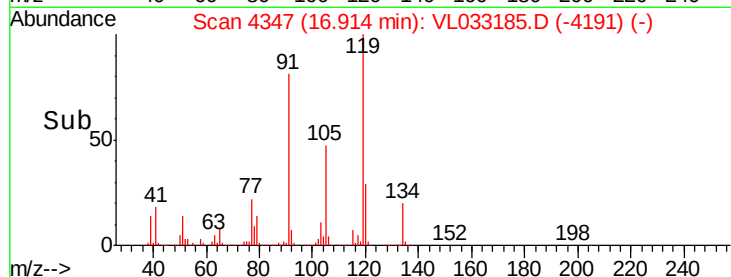
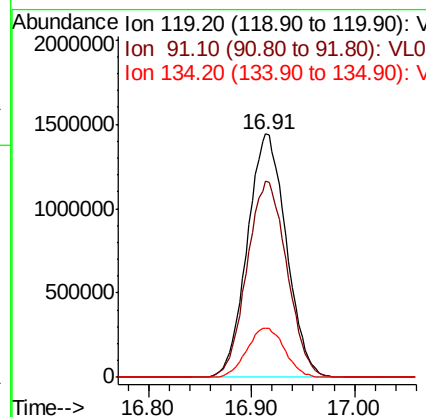
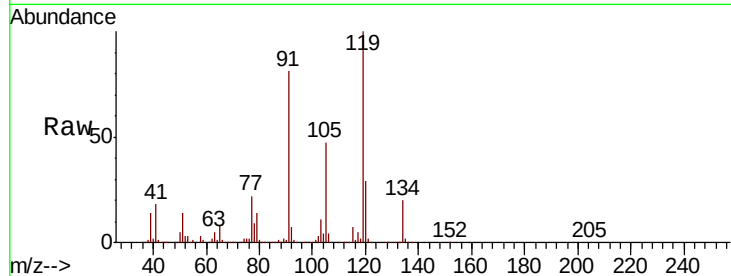
#65
 tert-Butylbenzene
 Concen: 8.450 ppbv
 RT: 16.91 min Scan# 4347
 Delta R.T. 0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 119 Resp: 3787342
 Ion Ratio Lower Upper
 119 100
 91 82.6 65.6 98.4
 134 19.7 15.8 23.8

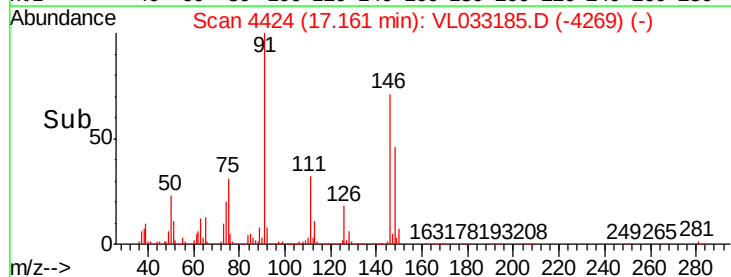
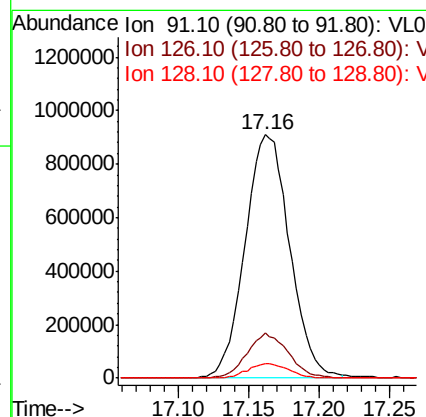
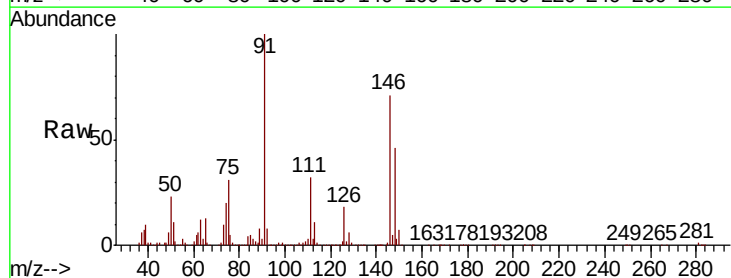
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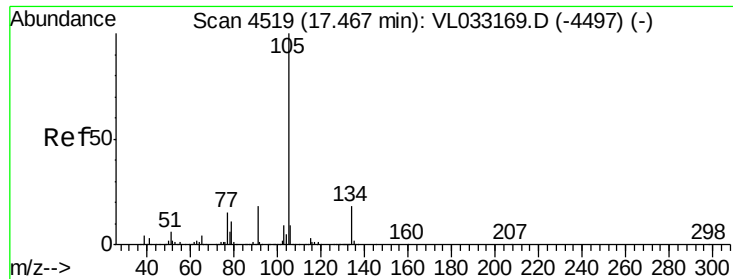
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 2/20/2019 12:23:21 PM



#66
 Benzyl Chloride
 Concen: 12.539 ppbv
 RT: 17.16 min Scan# 4424
 Delta R.T. -0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Tgt Ion: 91 Resp: 2008550
 Ion Ratio Lower Upper
 91 100
 126 17.3 13.8 20.6
 128 5.5 4.5 6.7





#67

sec-Butylbenzene

Concen: 8.252 ppbv

RT: 17.47 min Scan# 4519

Delta R.T. 0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 105 Resp: 5369143

Ion Ratio Lower Upper

105 100

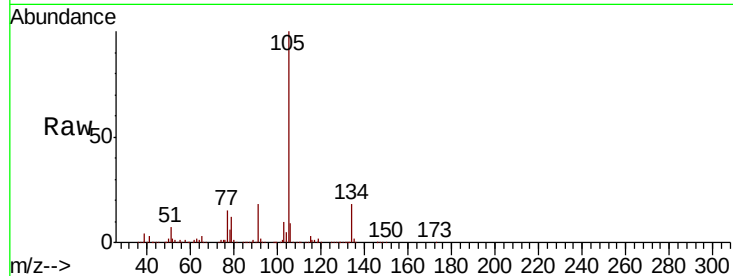
134 18.1 14.6 22.0

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

2500000

2000000

1500000

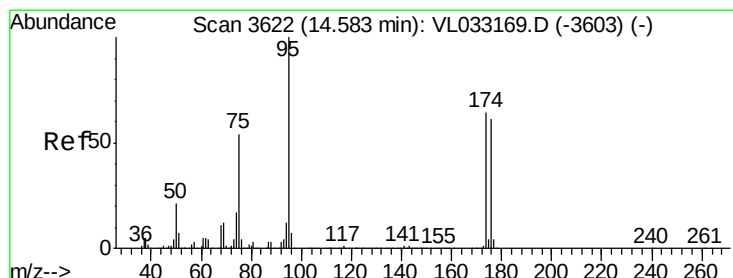
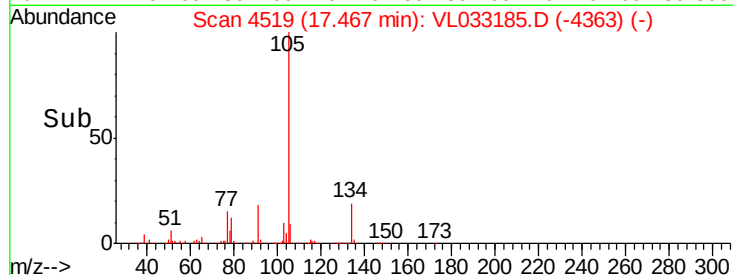
1000000

500000

0

17.40 17.50 17.60

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.161 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. 0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

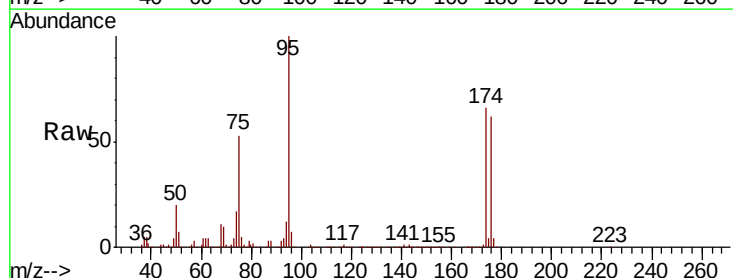
Tgt Ion: 95 Resp: 2169881

Ion Ratio Lower Upper

95 100

174 64.0 51.1 76.7

175 4.7 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

1200000

1000000

800000

600000

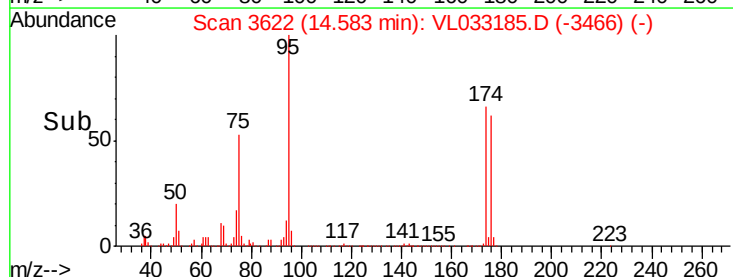
400000

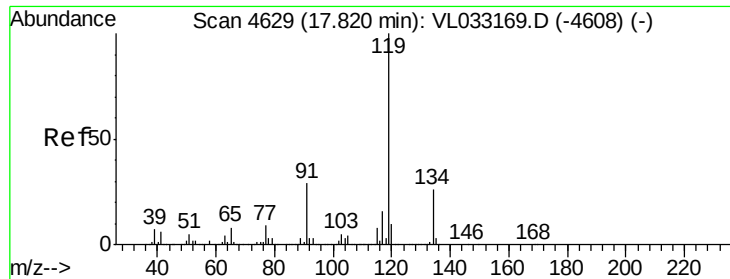
200000

0

14.50 14.60

Time-->





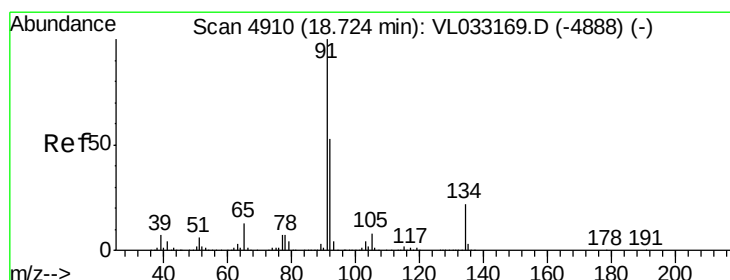
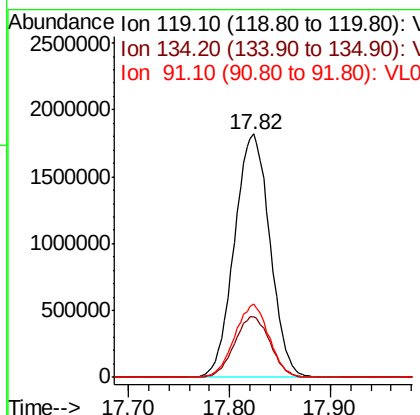
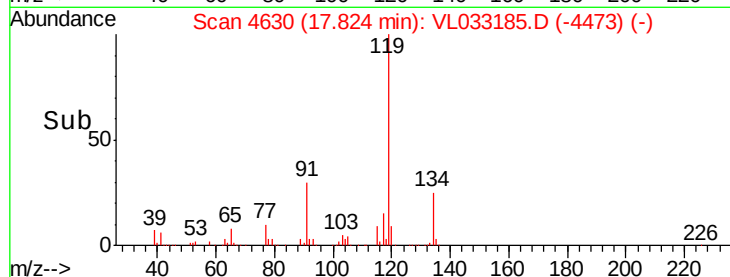
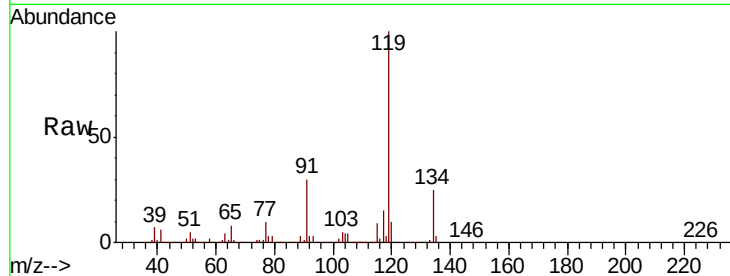
#69
p-Isopropyltoluene
Concen: 8.178 ppbv
RT: 17.82 min Scan# 4630
Delta R.T. 0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 119 Resp: 4431711
Ion Ratio Lower Upper
119 100
134 25.1 20.4 30.6
91 29.2 23.4 35.0

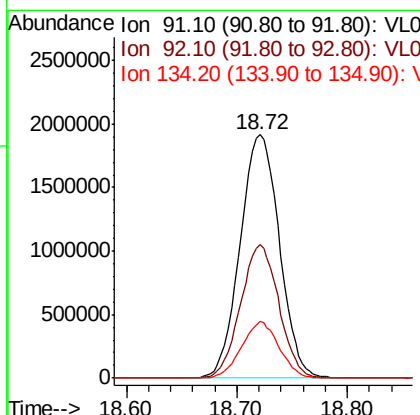
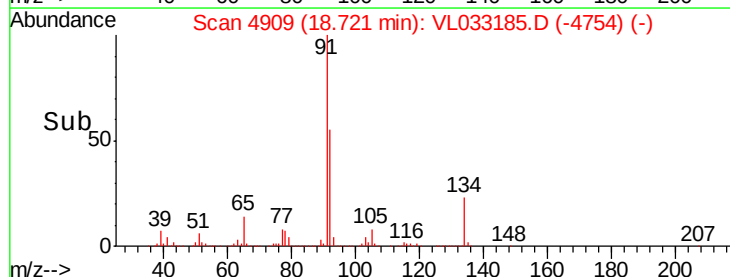
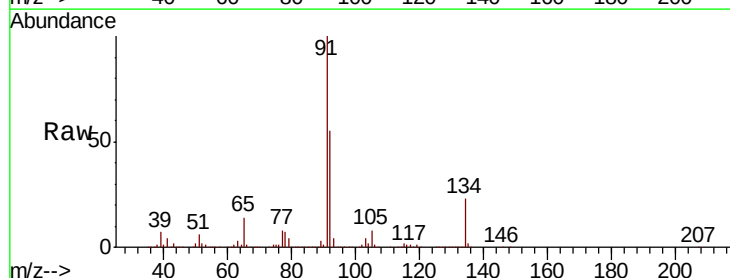
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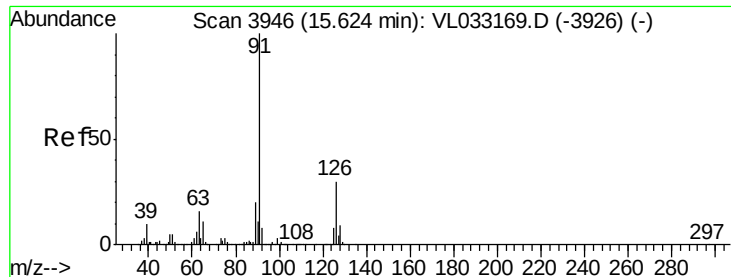
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2/20/2019 12:23:21 PM



#70
n-Butylbenzene
Concen: 8.061 ppbv
RT: 18.72 min Scan# 4909
Delta R.T. -0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Tgt Ion: 91 Resp: 4712599
Ion Ratio Lower Upper
91 100
92 53.6 43.0 64.4
134 22.3 17.5 26.3





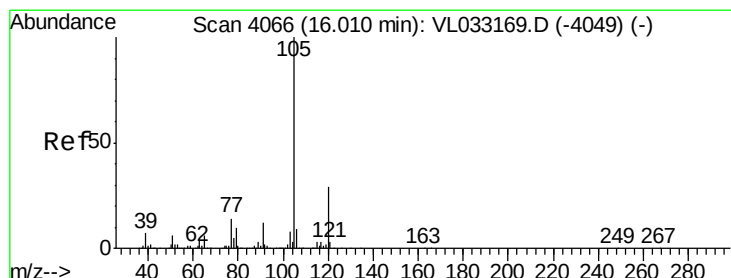
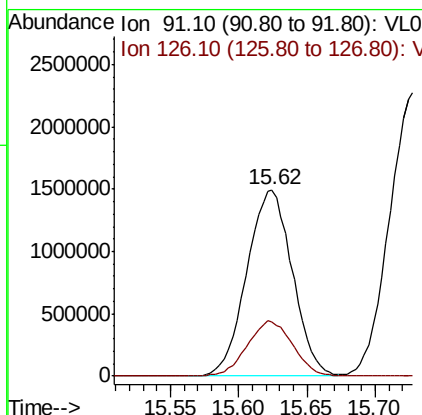
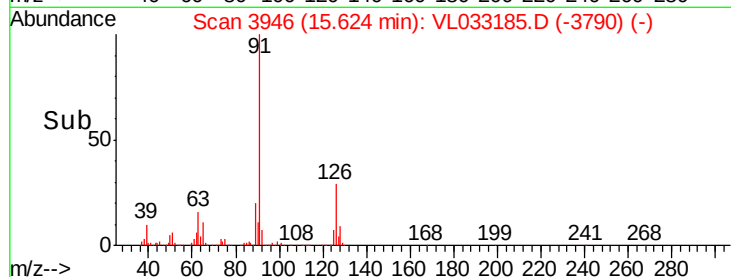
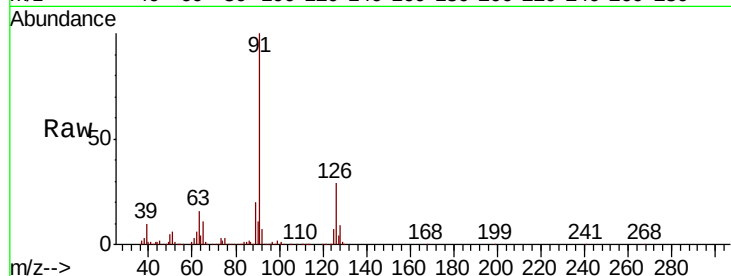
#71
2-Chlorotoluene
Concen: 8.564 ppbv
RT: 15.62 min Scan# 3946
Delta R.T. 0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 3463032
Ion Ratio Lower Upper
91 100
126 29.5 11.8 47.4

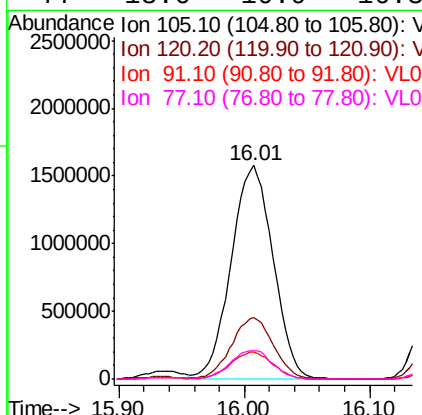
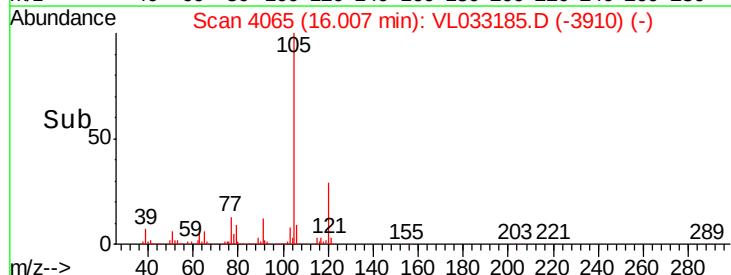
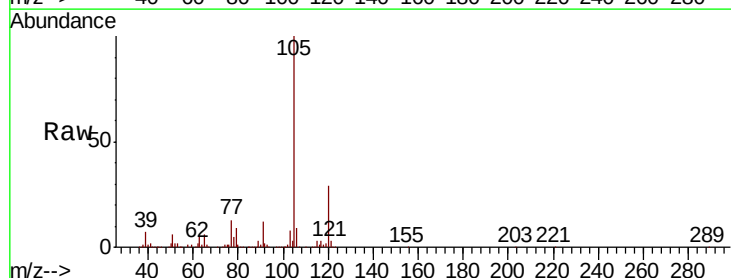
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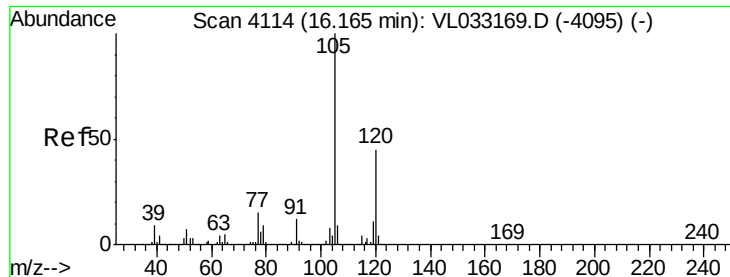
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2/20/2019 12:23:21 PM



#72
4-Ethyltoluene
Concen: 8.702 ppbv
RT: 16.01 min Scan# 4065
Delta R.T. -0.00 min
Lab File: VL033185.D
Acq: 13 Feb 2019 12:14

Tgt Ion: 105 Resp: 3661626
Ion Ratio Lower Upper
105 100
120 28.7 23.1 34.7
91 12.5 9.8 14.6
77 13.6 10.9 16.3





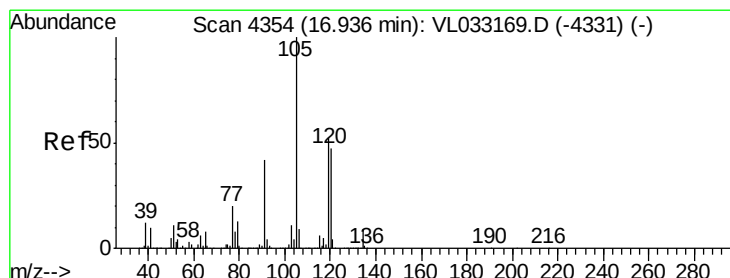
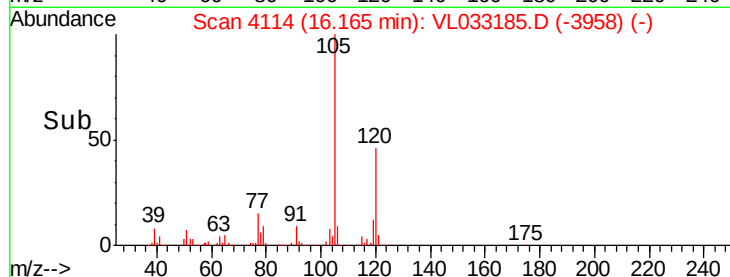
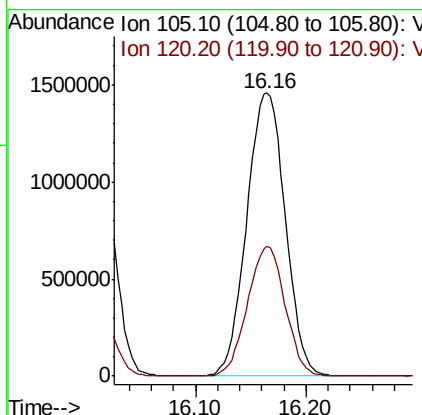
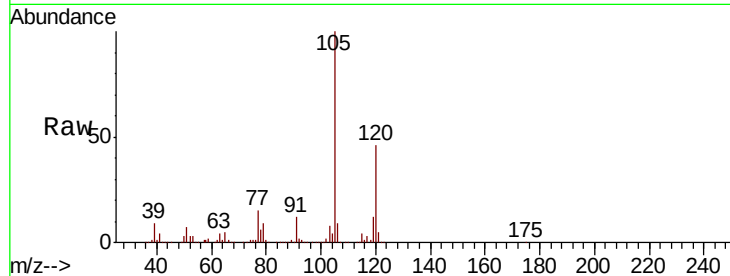
#73
 1,3,5-Trimethylbenzene
 Concen: 8.724 ppbv
 RT: 16.16 min Scan# 4114
 Delta R.T. 0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion:105 Resp: 3510637
 Ion Ratio Lower Upper
 105 100
 120 45.8 36.2 54.4

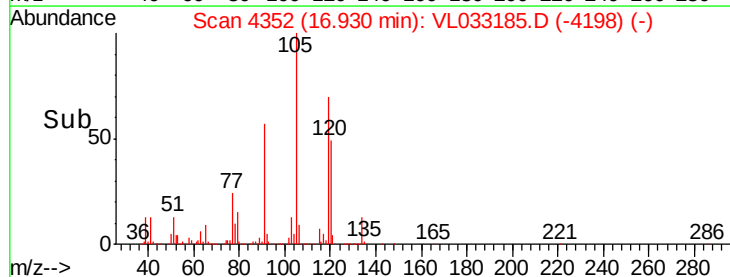
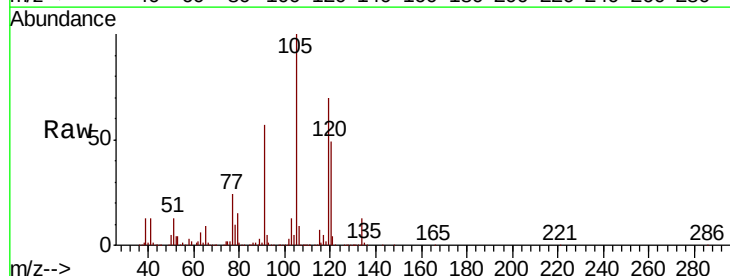
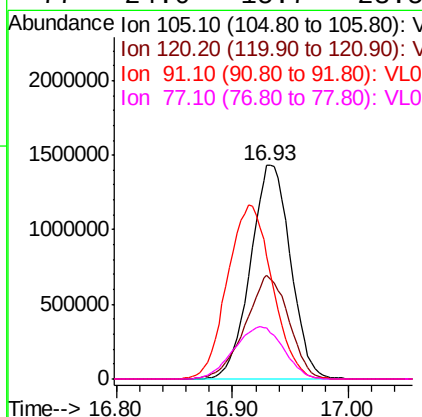
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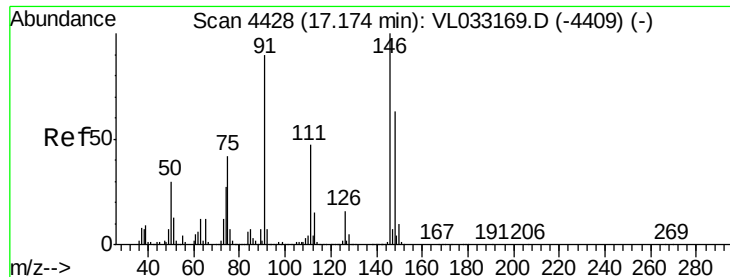
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#74
 1,2,4-Trimethylbenzene
 Concen: 8.215 ppbv
 RT: 16.93 min Scan# 4352
 Delta R.T. -0.01 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Tgt Ion:105 Resp: 3428875
 Ion Ratio Lower Upper
 105 100
 120 48.5 37.9 56.9
 91 57.3 34.0 51.0#
 77 24.0 15.7 23.5#





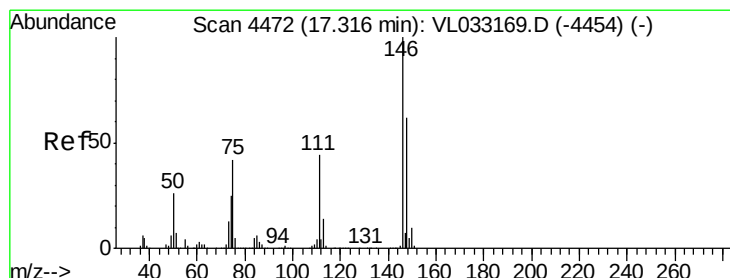
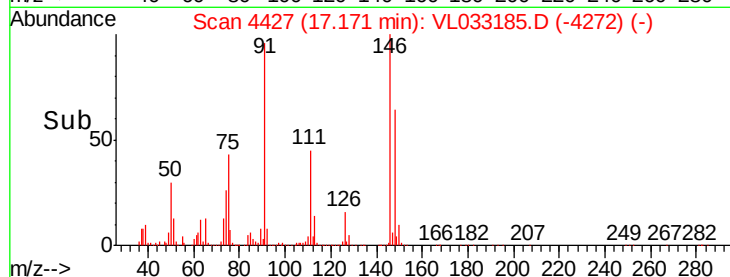
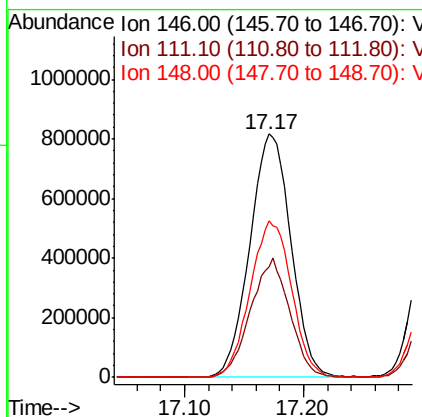
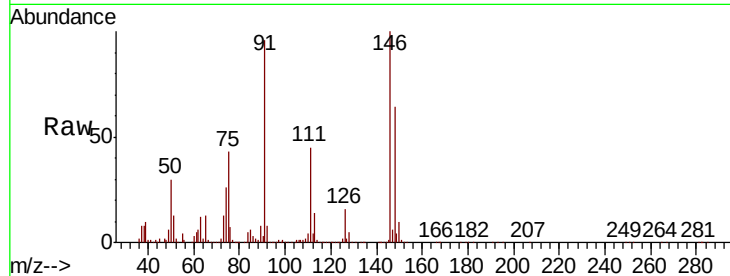
#75
 1,3-Dichlorobenzene
 Concen: 8.123 ppbv
 RT: 17.17 min Scan# 4427
 Delta R.T. -0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion:146 Resp: 1955335
 Ion Ratio Lower Upper
 146 100
 111 46.6 23.2 69.6
 148 64.7 31.8 95.4

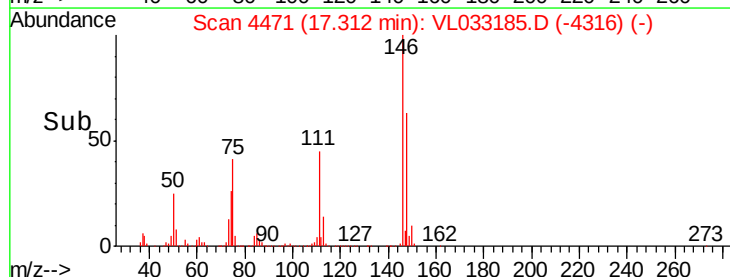
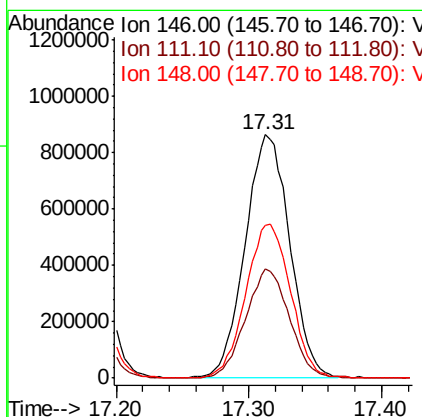
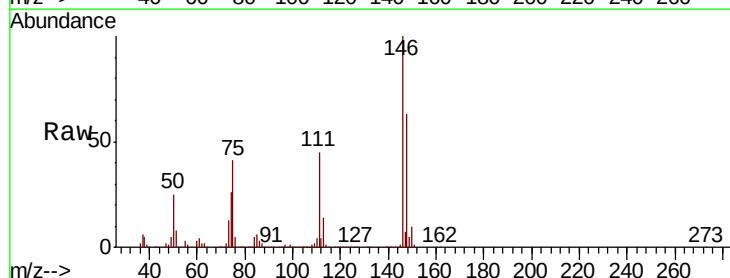
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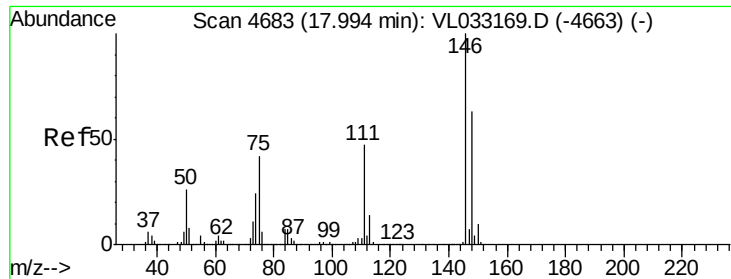
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 2/20/2019 12:23:21 PM



#76
 1,4-Dichlorobenzene
 Concen: 8.421 ppbv
 RT: 17.31 min Scan# 4471
 Delta R.T. -0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Tgt Ion:146 Resp: 2008554
 Ion Ratio Lower Upper
 146 100
 111 44.3 22.3 66.9
 148 64.0 32.0 96.0





#77

1,2-Dichlorobenzene

Concen: 8.252 ppbv

RT: 17.99 min Scan# 4683

Delta R.T. 0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Instrument :

MSVOA_L

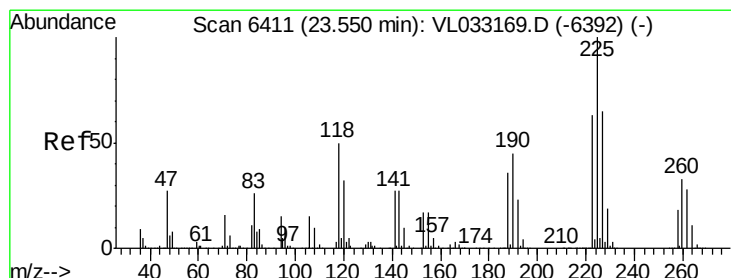
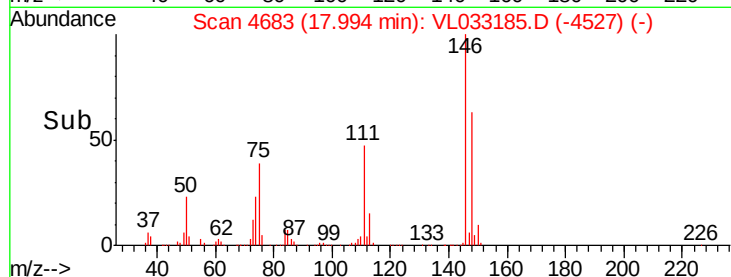
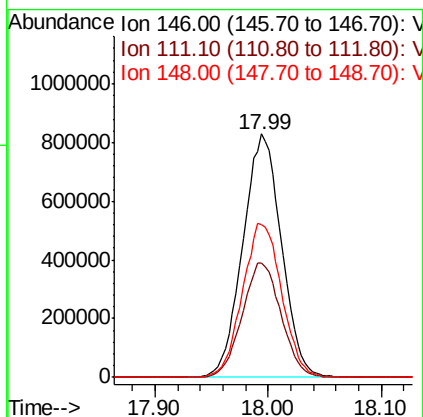
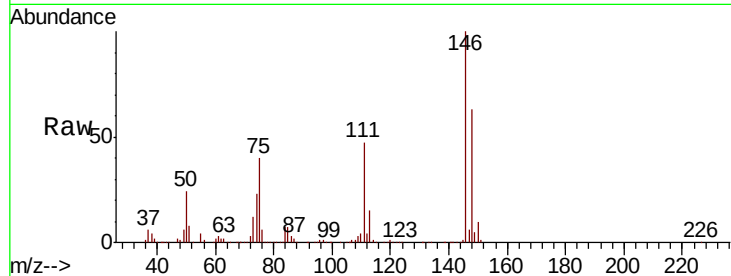
ClientSampleId :

VSTDCCC010

Tgt Ion:	146	Resp:	1962902
Ion	Ratio	Lower	Upper
146	100		
111	47.4	23.5	70.6
148	64.4	31.9	95.7

Manual Integrations
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#78

Hexachloro-1,3-Butadiene

Concen: 12.446 ppbv

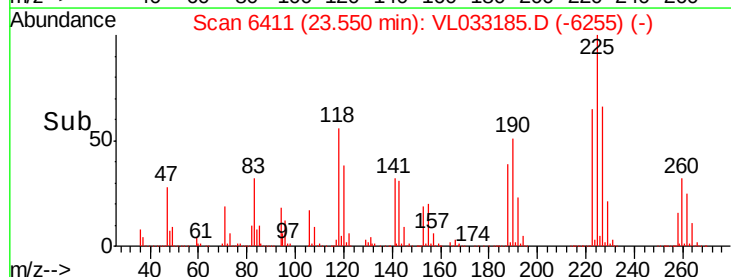
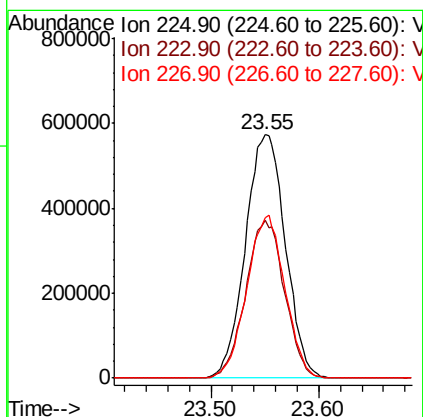
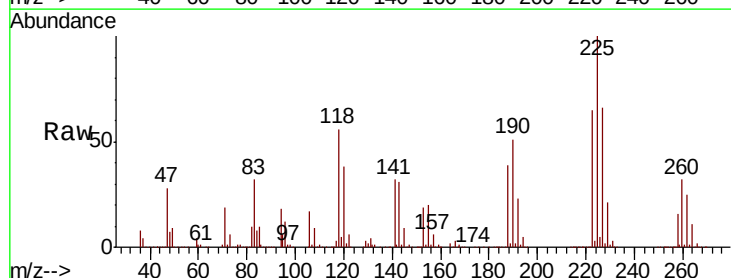
RT: 23.55 min Scan# 6411

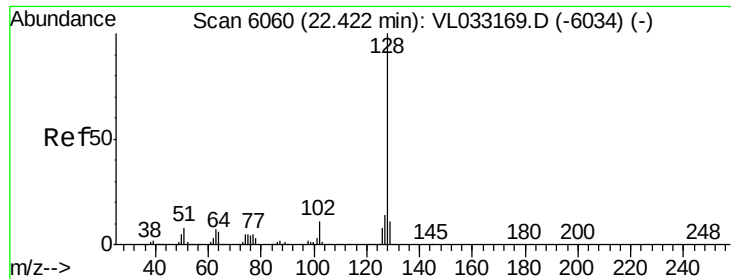
Delta R.T. 0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Tgt Ion:	225	Resp:	1472142
Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.6	75.8
227	64.0	51.4	77.2





#79

Naphthalene

Concen: 7.843 ppbv

RT: 22.42 min Scan# 6059

Delta R.T. -0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Instrument :

MSVOA_L

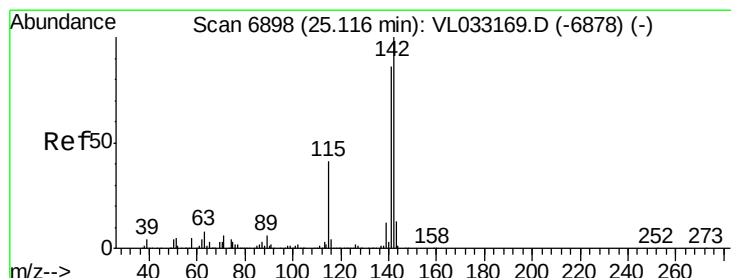
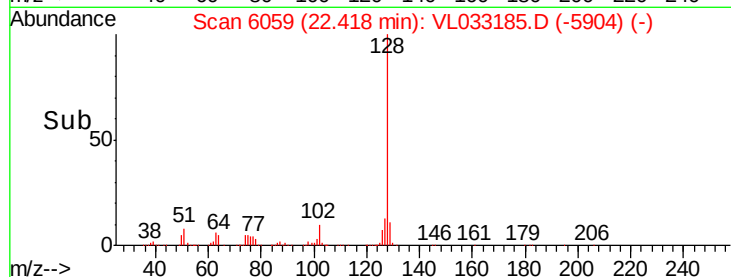
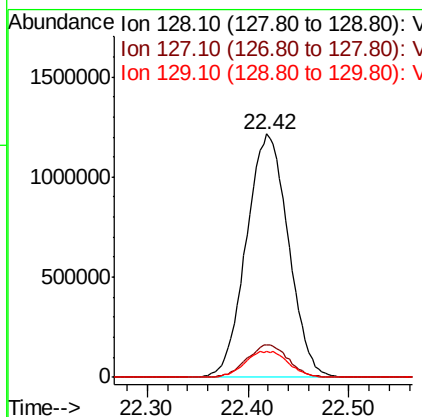
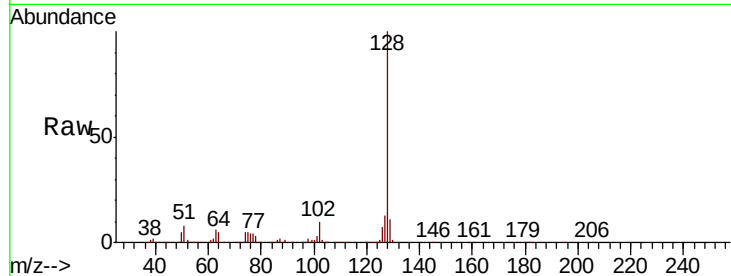
ClientSampleId :

VSTDCCC010

Tgt Ion:	128	Resp:	3518191
Ion	Ratio	Lower	Upper
128	100		
127	13.2	11.0	16.4
129	10.5	8.6	12.8

Manual Integrations
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2/20/2019 12:23:21 PM



#80

Naphthalene, 2-methyl-

Concen: 6.237 ppbv

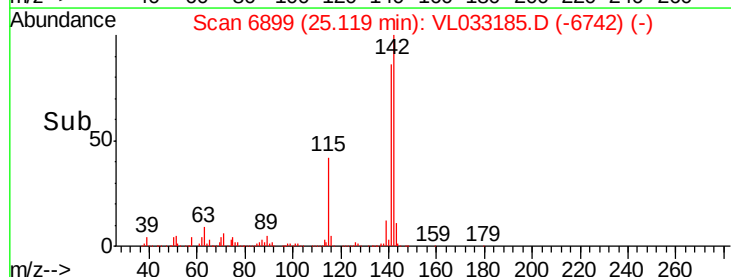
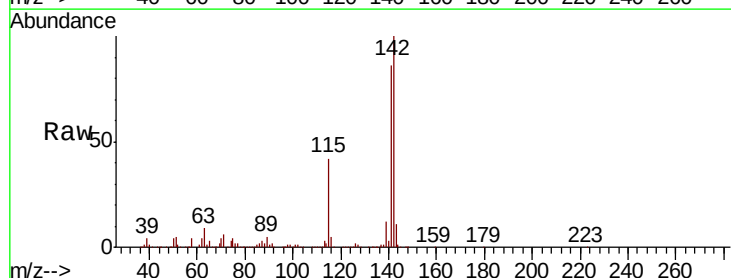
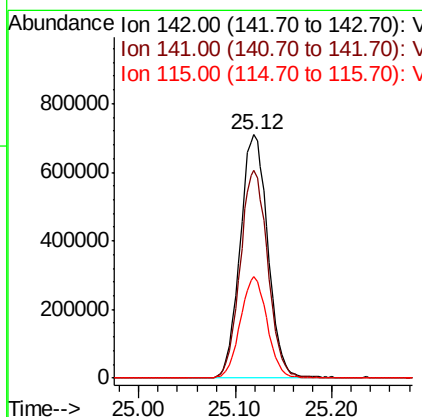
RT: 25.12 min Scan# 6899

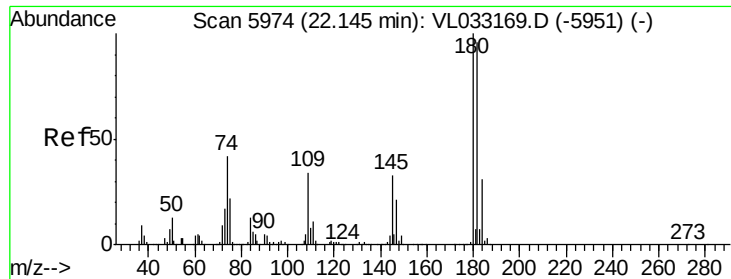
Delta R.T. 0.00 min

Lab File: VL033185.D

Acq: 13 Feb 2019 12:14

Tgt Ion:	142	Resp:	1414997
Ion	Ratio	Lower	Upper
142	100		
141	85.2	67.7	101.5
115	40.6	32.7	49.1





#81
 1,2,4-Trichlorobenzene
 Concen: 7.660 ppbv
 RT: 22.14 min Scan# 5973
 Delta R.T. -0.00 min
 Lab File: VL033185.D
 Acq: 13 Feb 2019 12:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	75.8	113.8
184	30.5	24.3	36.5

Manual Integrations
 APPROVED

MMDadoda
 2/20/2019 12:23:21 PM

