

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081320\
 Data File : VL035399.D
 Acq On : 13 Aug 2020 9:22
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

sam
 8/18/2020 5:51:46 PM

Quant Time: Aug 15 14:57:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081220AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 12 2020
 QLast Update : Wed Aug 12 20:32:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1427465	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3390235	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3169934m	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2757292	10.77	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	1561189	9.081	ppbv	97
3) Chlorodifluoromethane	2.98	51	1558448	9.390	ppbv	99
4) Chloromethane	3.13	50	861525	9.289	ppbv	96
5) Vinyl Chloride	3.25	62	814074	8.881	ppbv	97
6) Bromomethane	3.46	94	483060	9.503	ppbv	96
7) Chloroethane	3.55	64	297327	9.195	ppbv	97
8) Dichlorotetrafluoroethane	3.18	85	1786269	8.951	ppbv	97
9) Propene	3.00	41	748075	8.701	ppbv	99
10) Heptane	8.13	43	1936453	8.696	ppbv	99
11) Trichlorofluoromethane	3.94	101	1927802	9.247	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1281187	9.031	ppbv	97
13) Ethanol	3.60	45	202283	7.175	ppbv	99
14) Bromoethene	3.73	108	580157	9.153	ppbv	98
15) Acetone	3.84	43	1458414	8.112	ppbv	99
16) 1,3-Butadiene	3.32	39	776629	8.413	ppbv	99
17) tert-Butyl alcohol	4.29	59	1777670	8.477	ppbv	99
18) 1,1-Dichloroethene	4.28	96	590093	9.079	ppbv	94
19) Isopropyl Alcohol	3.96	45	1199835	8.551	ppbv	# 45
20) Methylene Chloride	4.34	84	551115	8.118	ppbv	96
21) Allyl Chloride	4.40	41	1043591	8.840	ppbv	98
22) trans-1,2-Dichloroethene	4.88	96	604071	9.251	ppbv	92
23) Vinyl Acetate	5.07	43	2536148	8.836	ppbv	100
24) 1,1-Dichloroethane	5.01	63	1711382	9.054	ppbv	100
25) Ethyl Acetate	5.68	43	3148406	8.484	ppbv	99
26) Hexane	5.69	57	1383137	8.518	ppbv	99
27) Carbon Disulfide	4.54	76	1577155	9.098	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	2319850	8.652	ppbv	99
29) Chloroform	5.75	83	2176067	9.390	ppbv	99
30) Cyclohexane	7.13	84	1193631	8.918	ppbv	98
31) cis-1,2-Dichloroethene	5.55	61	1487285	9.237	ppbv	97
32) 1,1,1-Trichloroethane	6.51	97	2198566	8.697	ppbv	100
34) 2-Butanone	5.24	43	2177458	9.013	ppbv	100
35) Carbon Tetrachloride	7.02	117	2150305	9.124	ppbv	96
36) Benzene	6.89	78	2882707	8.867	ppbv	99
37) 1,2-Dichloroethane	6.31	62	1736786	9.624	ppbv	99
38) Trichloroethene	7.84	130	1017474	7.986	ppbv	97
39) 1,2-Dichloropropane	7.62	63	1160768	9.017	ppbv	98
40) 1,4-Dioxane	7.83	88	457420	8.724	ppbv	96
41) Tetrahydrofuran	6.05	42	1274670	8.843	ppbv	99
42) Bromodichloromethane	7.80	83	2397442	9.431	ppbv	100
43) Methyl Methacrylate	8.02	69	1324259	9.182	ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081320\
 Data File : VL035399.D
 Acq On : 13 Aug 2020 9:22
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

sam
 8/18/2020 5:51:46 PM

Quant Time: Aug 15 14:57:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081220AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 18 2020
 QLast Update : Wed Aug 12 20:32:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	4788383	8.562	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1592931	9.519	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	1802449	9.222	ppbv	99
47) 1,1,2-Trichloroethane	9.48	97	1207232	9.246	ppbv	94
48) Dibromochloromethane	10.32	129	1908085	9.143	ppbv	100
49) Bromoform	13.06	173	1585715	9.269	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	3182674	8.741	ppbv	100
51) 2-Hexanone	10.14	43	2726530	8.894	ppbv #	99
52) Tetrachloroethene	11.23	164	909528	7.890	ppbv	98
53) Toluene	9.82	91	3376181	8.749	ppbv	100
54) 1,2-Dibromoethane	10.62	107	1841581	8.906	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.14	131	1419508	9.216	ppbv	96
57) Chlorobenzene	12.16	112	2430846	8.995	ppbv	97
58) Ethyl Benzene	12.73	91	4565235	9.112	ppbv	98
59) m/p-Xylene	13.01	91	7315773m	17.510	ppbv	
60) o-Xylene	13.71	91	3612798	8.930	ppbv	98
61) Styrene	13.55	104	2753062	9.217	ppbv	99
62) Isopropylbenzene	14.69	105	5335901	8.793	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.69	83	2550409	8.642	ppbv	99
64) n-propylbenzene	15.58	120	1419587	8.868	ppbv	92
65) tert-Butylbenzene	16.76	119	4530684	8.481	ppbv	97
66) Benzyl Chloride	17.01	91	2192764	9.088	ppbv	98
67) sec-Butylbenzene	17.32	105	6584436	8.550	ppbv	99
69) p-Isopropyltoluene	17.67	119	5436873	8.469	ppbv	98
70) n-Butylbenzene	18.57	91	6116872	8.606	ppbv	99
71) 2-Chlorotoluene	15.47	91	4395611	8.998	ppbv	98
72) 4-Ethyltoluene	15.86	105	4393211	8.896	ppbv	98
73) 1,3,5-Trimethylbenzene	16.01	105	4118602	8.895	ppbv	100
74) 1,2,4-Trimethylbenzene	16.78	105	4121231	8.463	ppbv	98
75) 1,3-Dichlorobenzene	17.01	146	2246730	8.454	ppbv	99
76) 1,4-Dichlorobenzene	17.16	146	2352856	8.619	ppbv	98
77) 1,2-Dichlorobenzene	17.84	146	2302937	8.595	ppbv	99
78) Hexachloro-1,3-Butadiene	23.40	225	1768137	8.003	ppbv	100
79) Naphthalene	22.22	128	5041190	8.312	ppbv	99
80) Naphthalene, 2-methyl-	24.99	142	2291474	8.113	ppbv	99
81) 1,2,4-Trichlorobenzene	21.96	180	2326489	8.104	ppbv	99

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

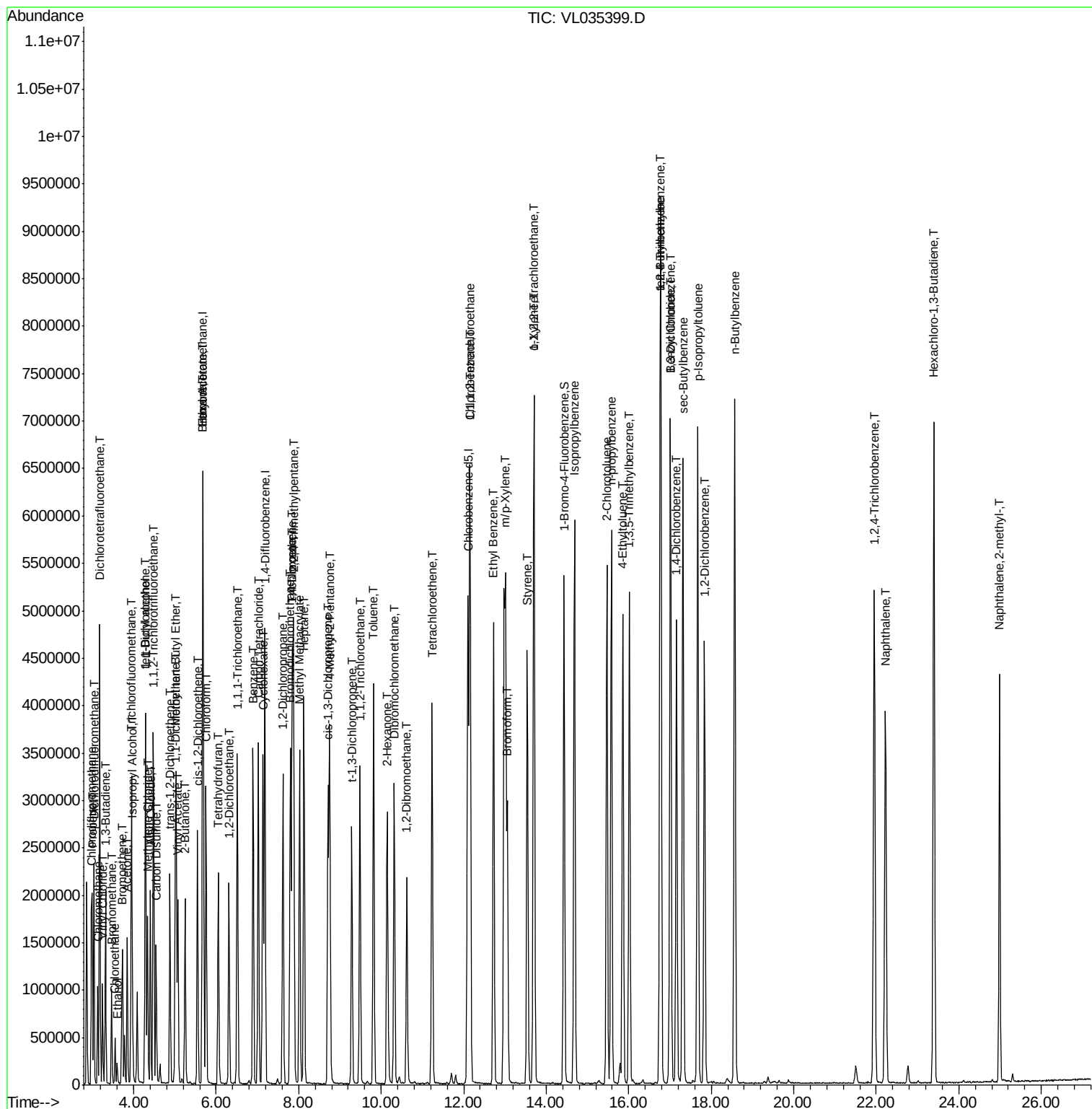
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081320\
Data File : VL035399.D
Acq On : 13 Aug 2020 9:22
Operator : SY/AP
Sample : VSTDCCC010
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

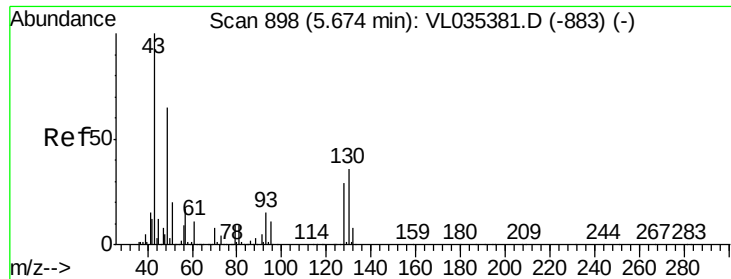
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

sam
8/18/2020 5:51:46 PM

Quant Time: Aug 15 14:57:41 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081220AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 12 20:32:44 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1427465

Ion Ratio Lower Upper

49 100

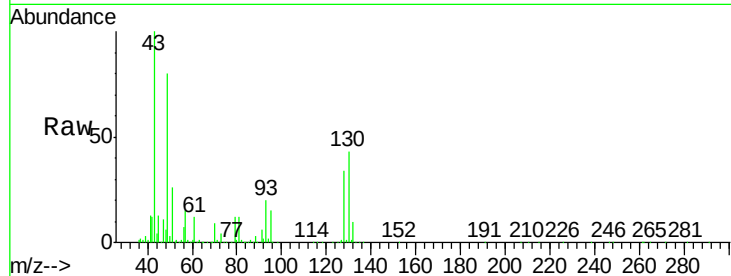
128 42.8 21.8 65.3

130 54.4 27.9 83.6

Manual Integrations
APPROVED

sam

8/18/2020 5:51:46 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.66

800000

600000

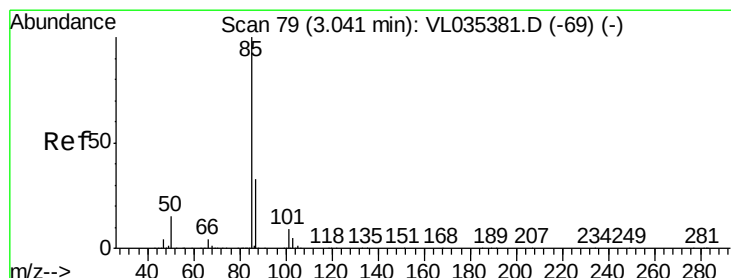
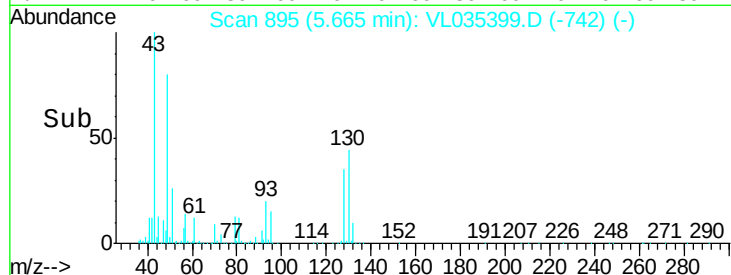
400000

200000

0

5.60 5.65 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 9.081 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.00 min

Lab File: VL035399.D

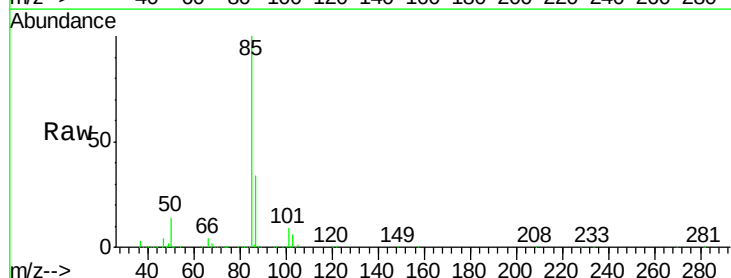
Acq: 13 Aug 2020 9:22

Tgt Ion: 85 Resp: 1561189

Ion Ratio Lower Upper

85 100

87 34.1 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

1500000

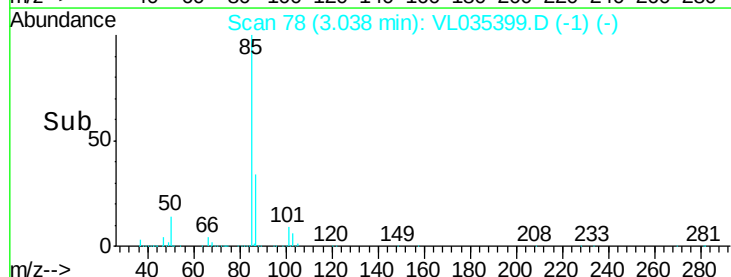
1000000

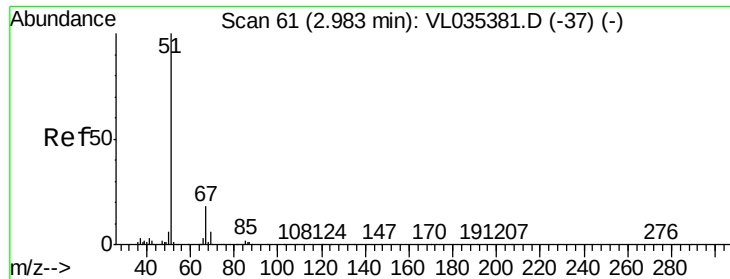
500000

0

3.00 3.05 3.10

Time-->





#3

Chlorodifluoromethane

Concen: 9.390 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Tot Ion: 51 Resp: 1558448

Ion Ratio Lower Upper

51 100

67 18.1 14.1 21.1

Instrument :

MSVOA_L

ClientSampleId :

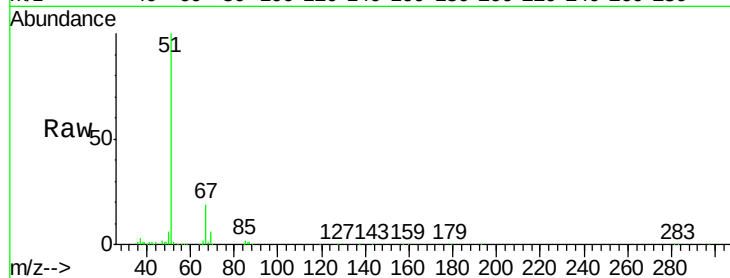
VSTDCCC010

Manual Integrations

APPROVED

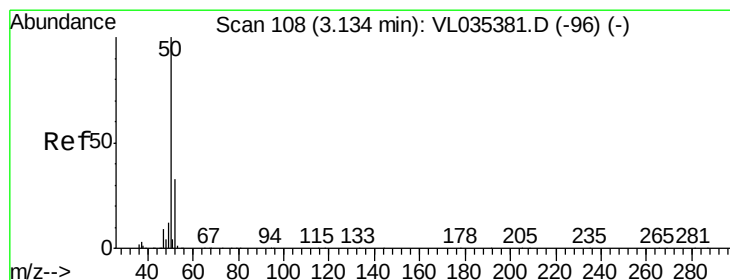
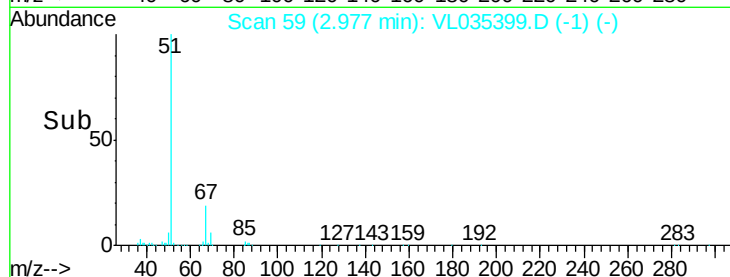
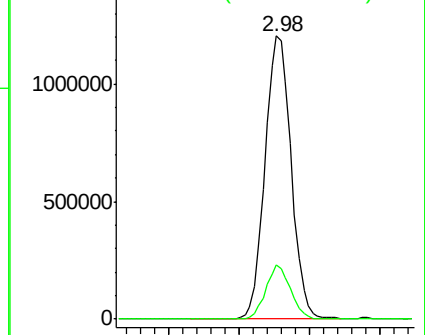
sam

8/18/2020 5:51:46 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.289 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.00 min

Lab File: VL035399.D

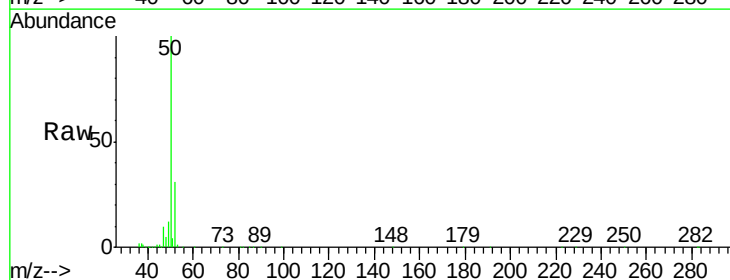
Acq: 13 Aug 2020 9:22

Tgt Ion: 50 Resp: 861525

Ion Ratio Lower Upper

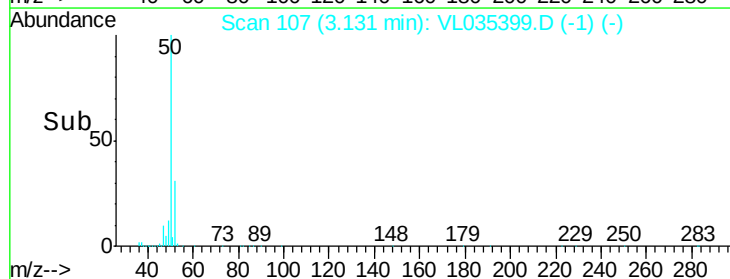
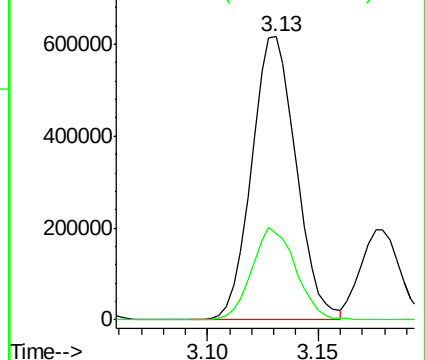
50 100

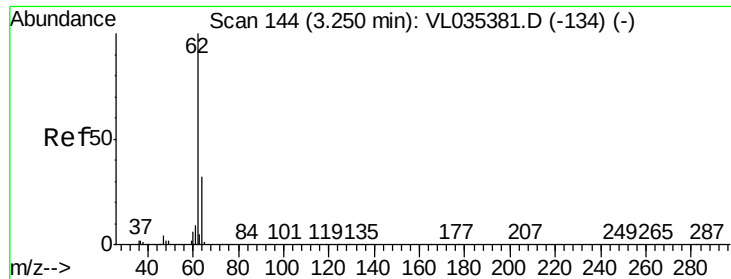
52 30.7 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.881 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.00 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 814074

Ion Ratio Lower Upper

62 100

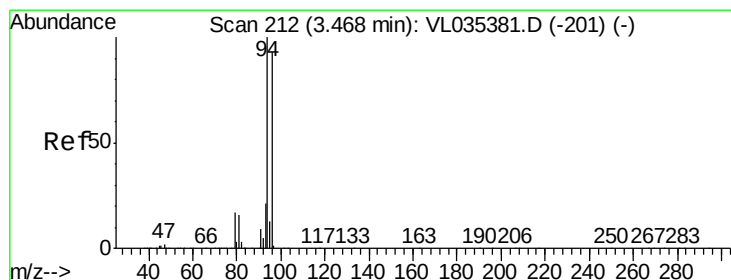
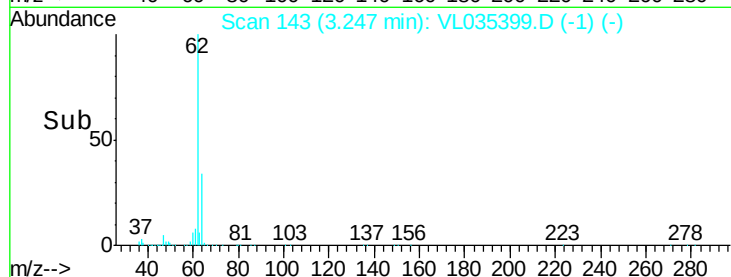
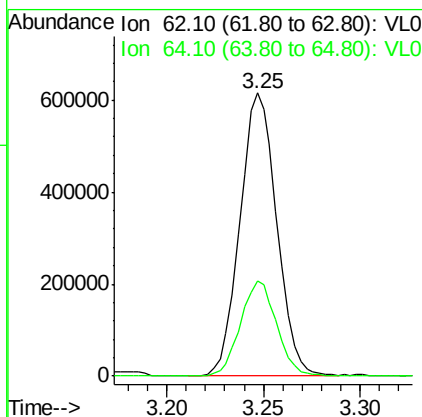
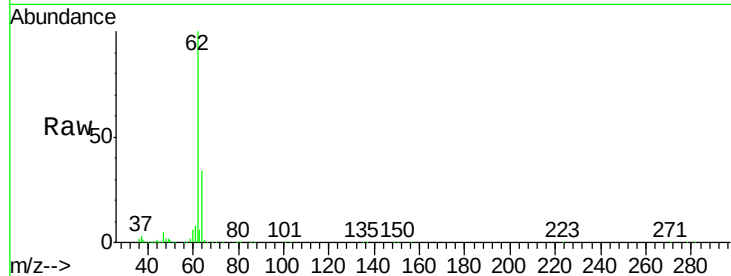
64 33.6 25.7 38.5

Manual Integrations

APPROVED

sam

8/18/2020 5:51:46 PM



#6

Bromomethane

Concen: 9.503 ppbv

RT: 3.46 min Scan# 210

Delta R.T. -0.01 min

Lab File: VL035399.D

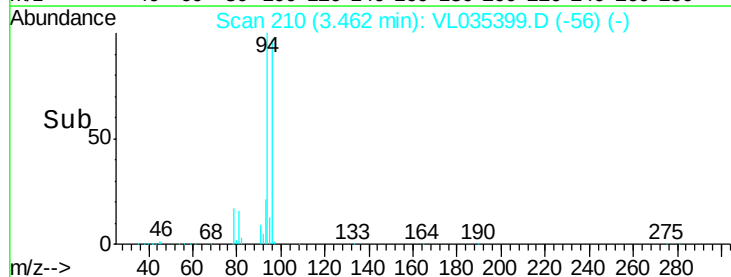
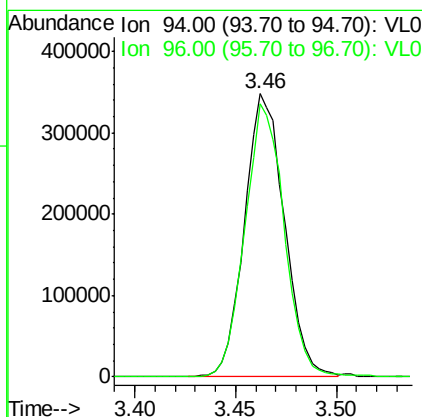
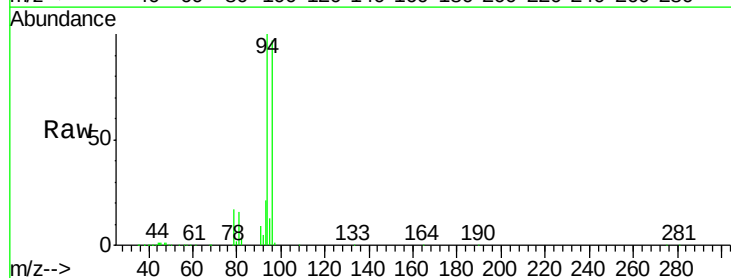
Acq: 13 Aug 2020 9:22

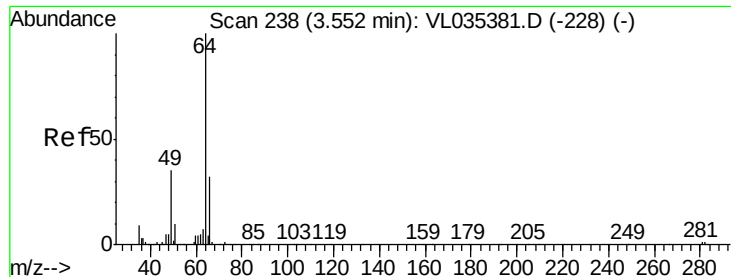
Tgt Ion: 94 Resp: 483060

Ion Ratio Lower Upper

94 100

96 96.5 74.4 111.6





#7

Chloroethane

Concen: 9.195 ppbv

RT: 3.55 min Scan# 237

Delta R.T. -0.00 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 297327

Ion Ratio Lower Upper

64 100

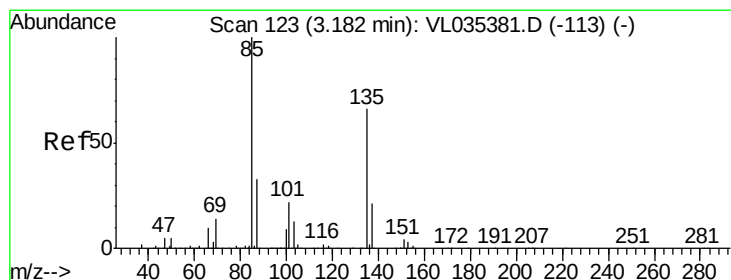
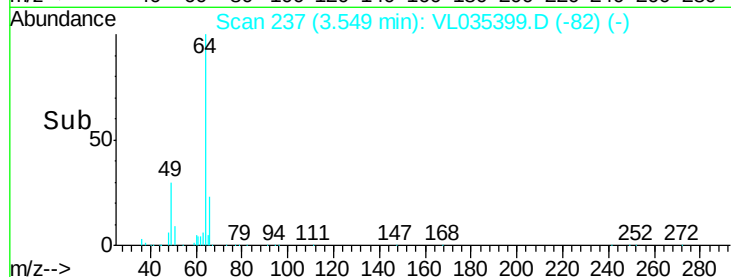
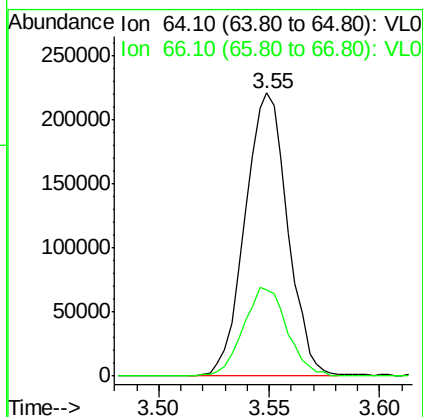
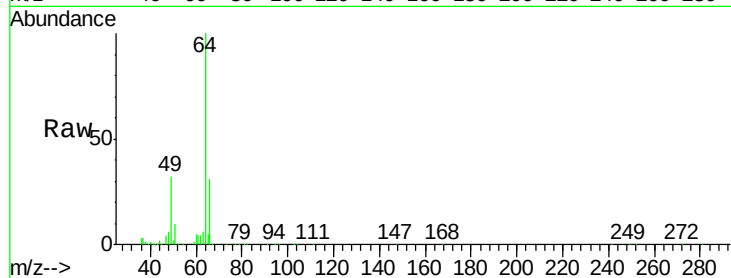
66 30.6 25.7 38.5

Manual Integrations

APPROVED

sam

8/18/2020 5:51:46 PM



#8

Dichlorotetrafluoroethane

Concen: 8.951 ppbv

RT: 3.18 min Scan# 122

Delta R.T. -0.00 min

Lab File: VL035399.D

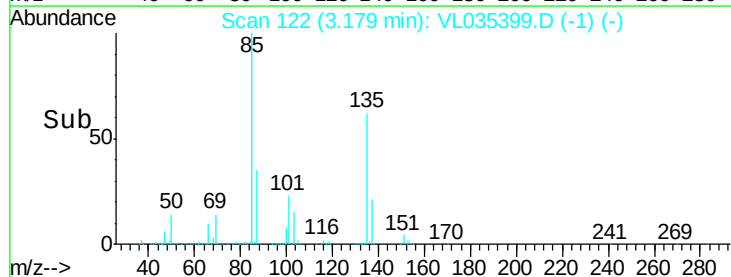
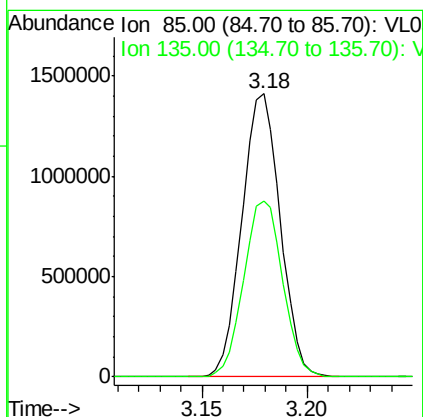
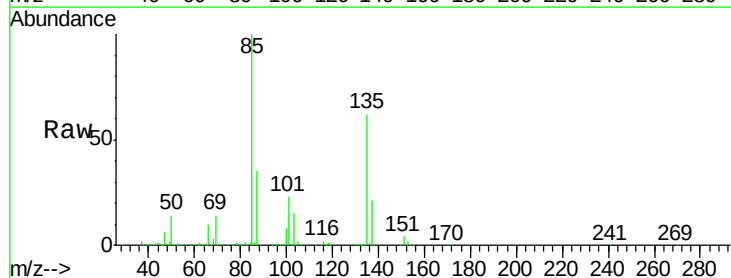
Acq: 13 Aug 2020 9:22

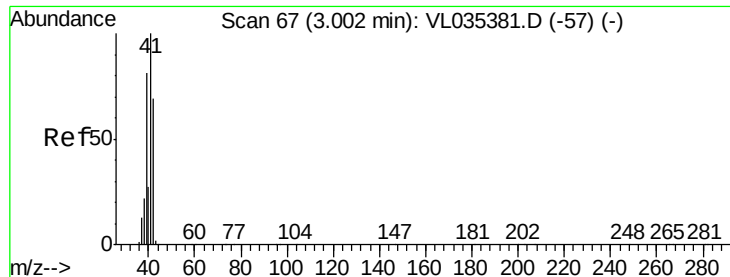
Tgt Ion: 85 Resp: 1786269

Ion Ratio Lower Upper

85 100

135 63.4 52.5 78.7





#9

Propene

Concen: 8.701 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.00 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 748075

Ion Ratio Lower Upper

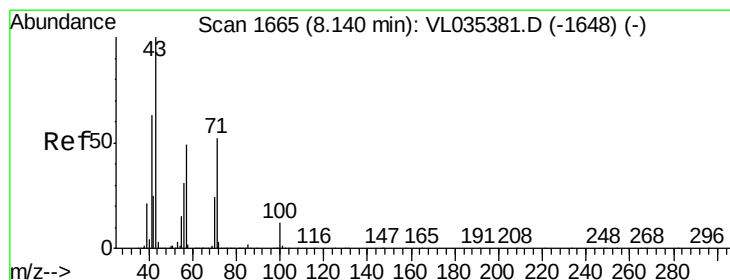
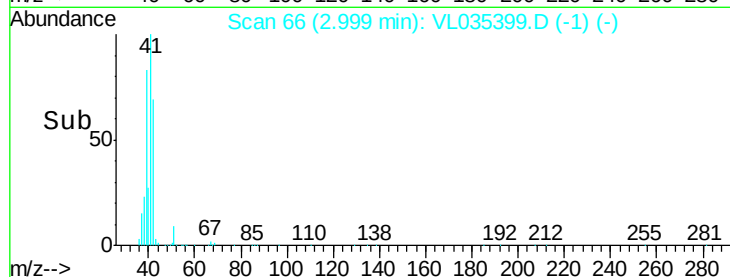
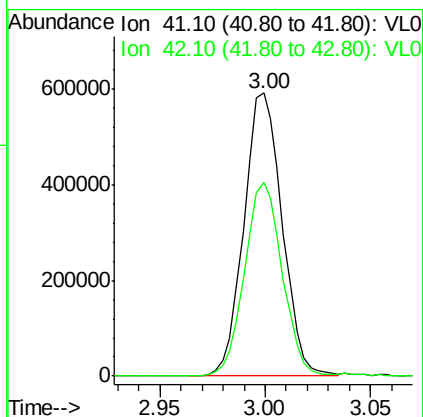
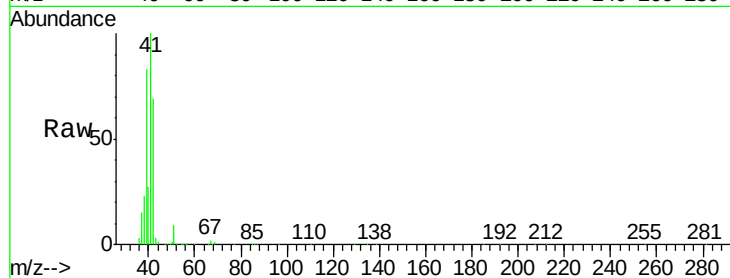
41 100

42 68.1 55.4 83.2

Manual Integrations
APPROVED

sam

8/18/2020 5:51:46 PM



#10

Heptane

Concen: 8.696 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.01 min

Lab File: VL035399.D

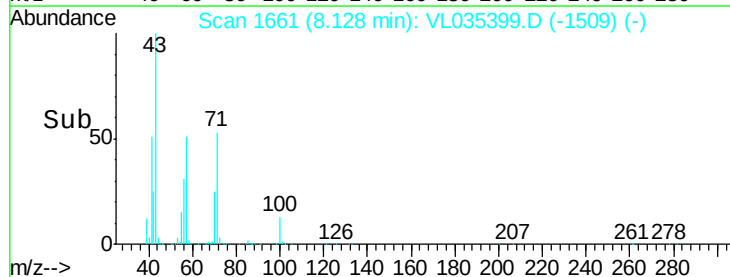
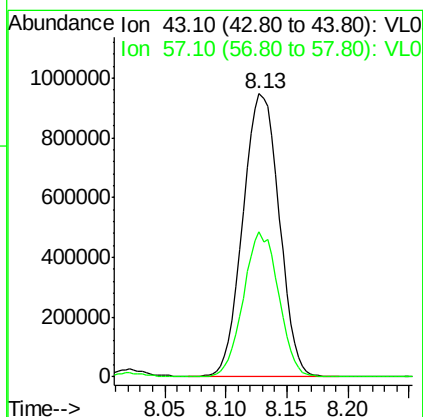
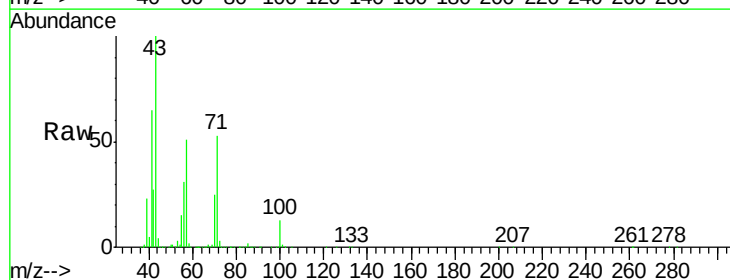
Acq: 13 Aug 2020 9:22

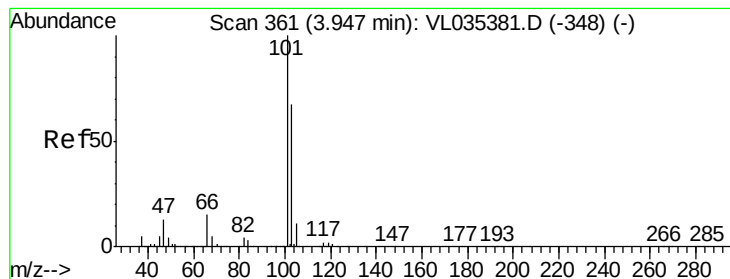
Tgt Ion: 43 Resp: 1936453

Ion Ratio Lower Upper

43 100

57 49.7 39.4 59.2





#11

Trichlorofluoromethane

Concen: 9.247 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.00 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:101 Resp: 1927802

Ion Ratio Lower Upper

101 100

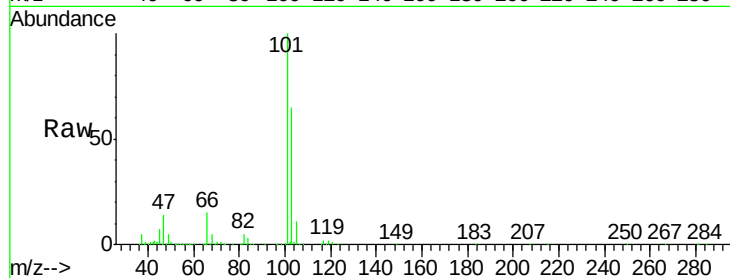
103 64.8 53.3 79.9

Manual Integrations

APPROVED

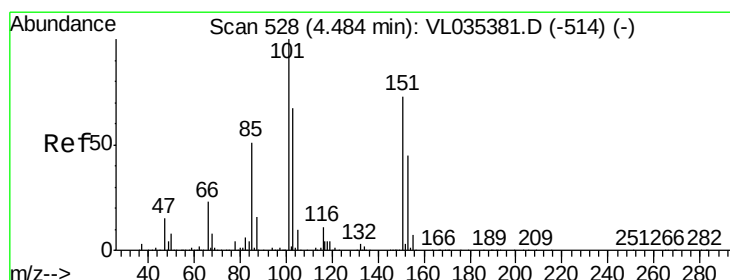
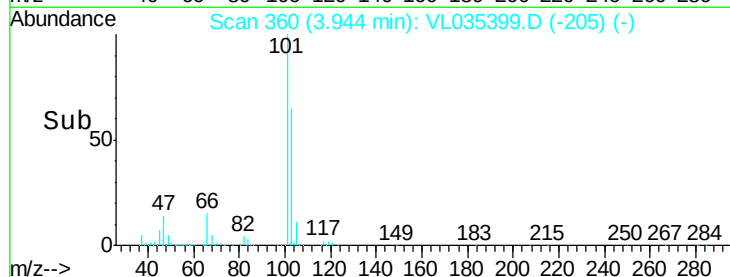
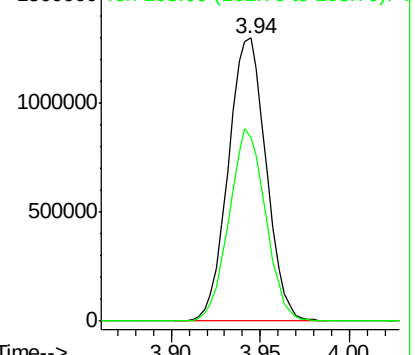
sam

8/18/2020 5:51:46 PM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.031 ppbv

RT: 4.48 min Scan# 526

Delta R.T. -0.01 min

Lab File: VL035399.D

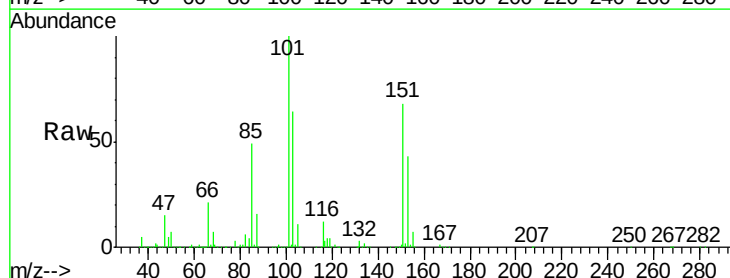
Acq: 13 Aug 2020 9:22

Tgt Ion:101 Resp: 1281187

Ion Ratio Lower Upper

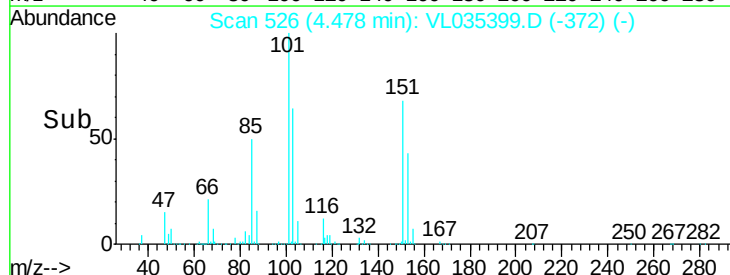
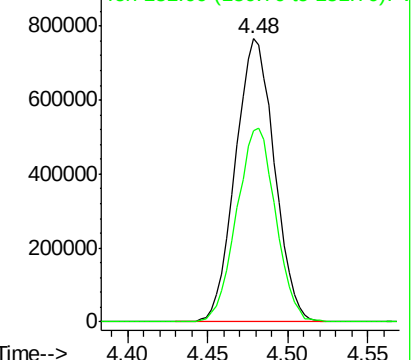
101 100

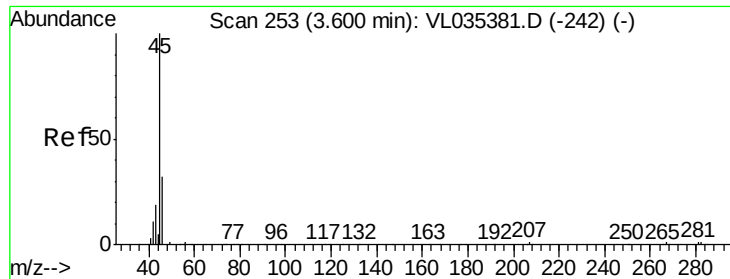
151 68.7 57.0 85.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





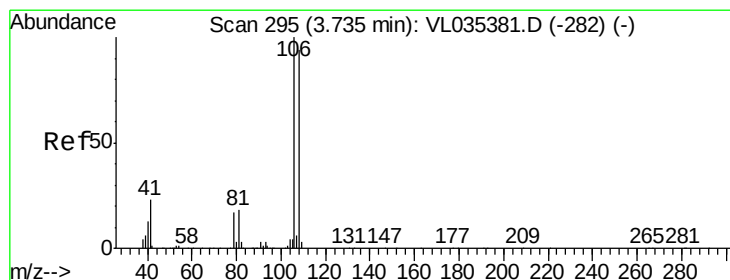
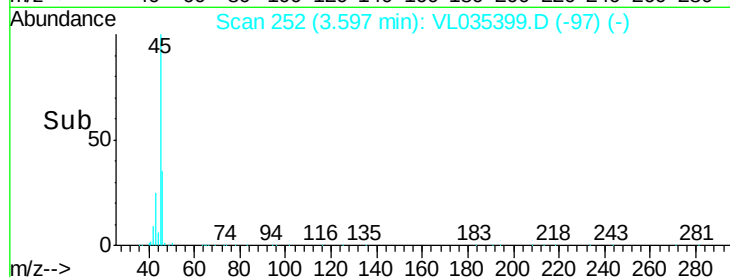
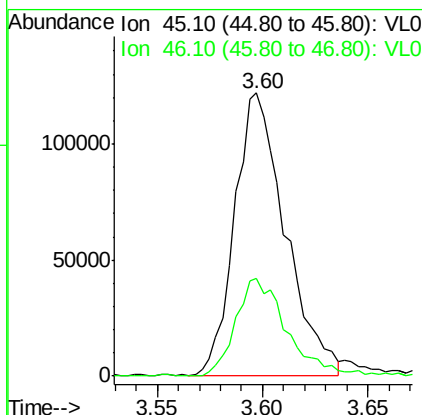
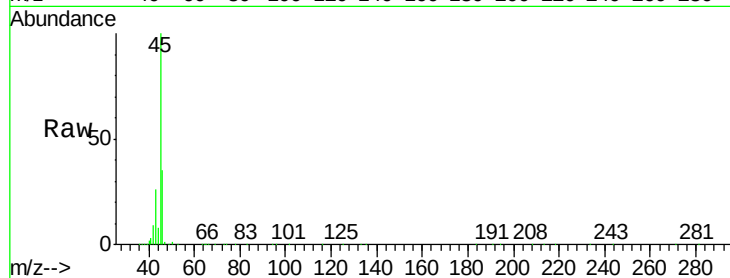
#13
Ethanol
Concen: 7.175 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.00 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
45	100		
46	35.9	14.1	56.3

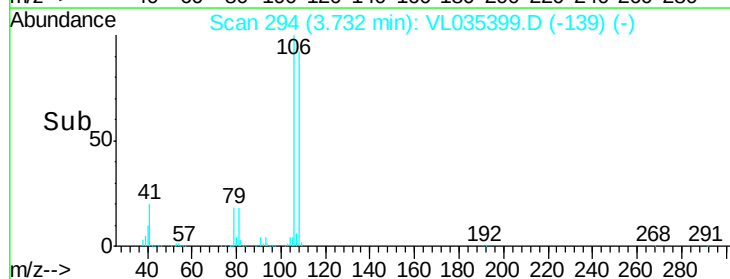
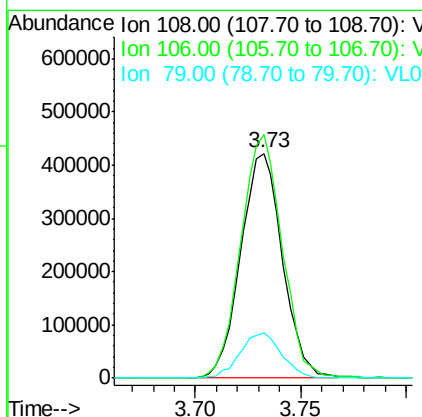
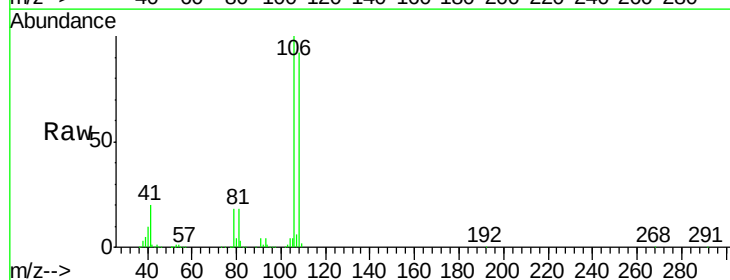
Manual Integrations
APPROVED

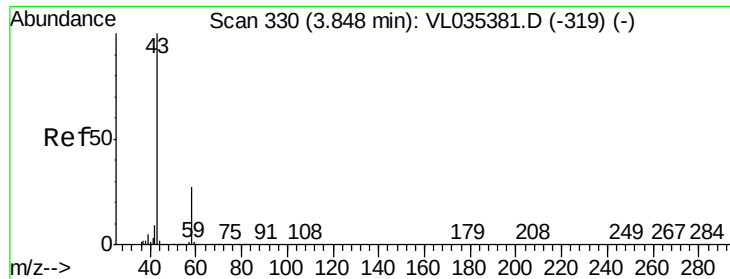
sam
8/18/2020 5:51:46 PM



#14
Bromoethene
Concen: 9.153 ppbv
RT: 3.73 min Scan# 294
Delta R.T. -0.00 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.8	84.9	127.3
79	20.4	15.8	23.8





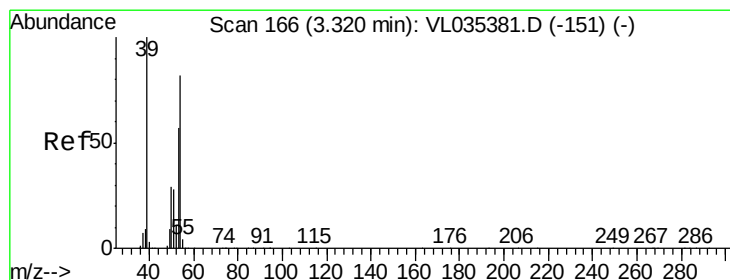
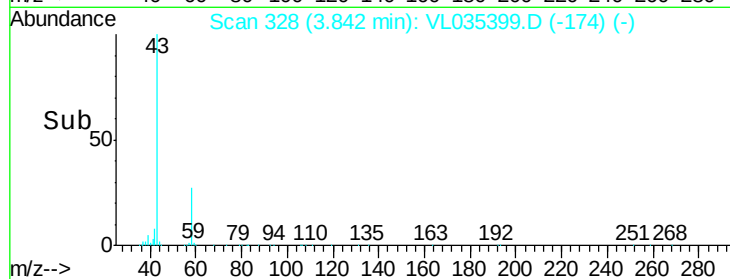
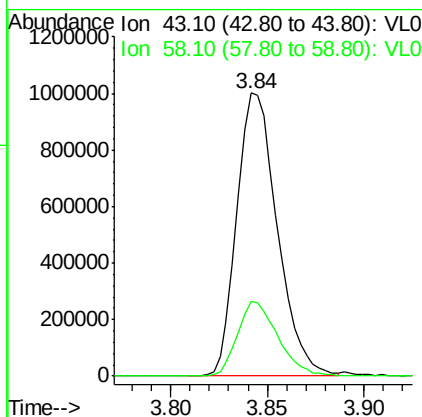
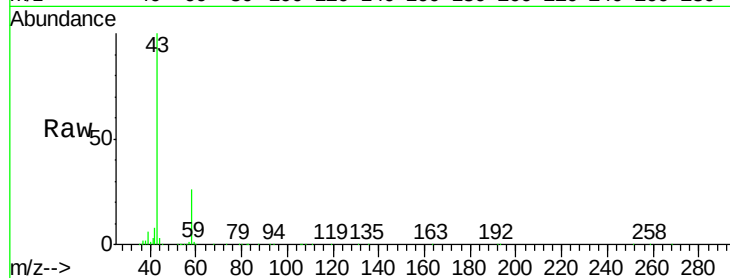
#15
Acetone
Concen: 8.112 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1458414
Ion Ratio Lower Upper
43 100
58 26.5 21.7 32.5

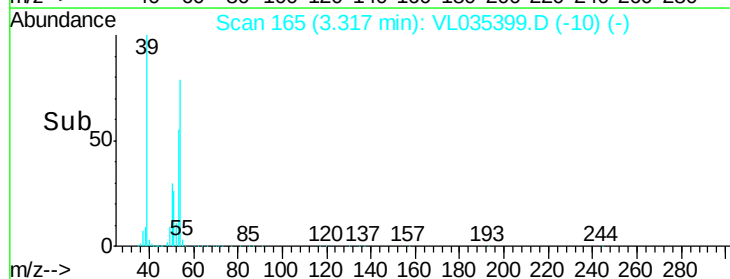
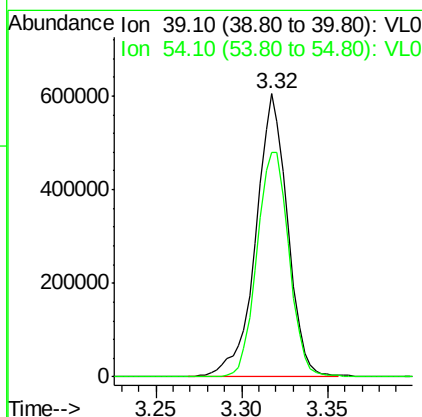
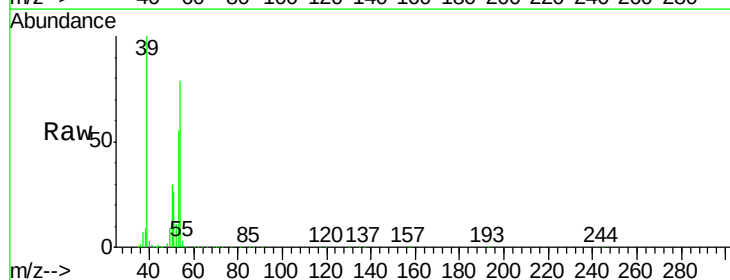
Manual Integrations
APPROVED

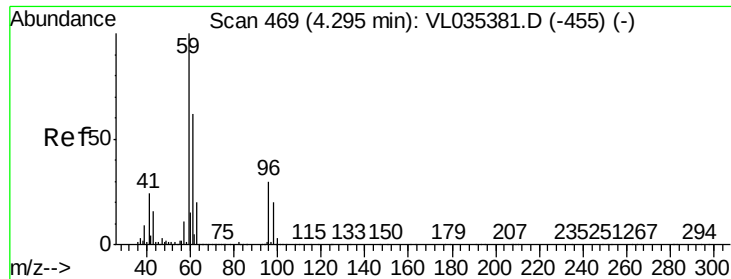
sam
8/18/2020 5:51:46 PM



#16
1,3-Butadiene
Concen: 8.413 ppbv
RT: 3.32 min Scan# 165
Delta R.T. -0.00 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Tgt Ion: 39 Resp: 776629
Ion Ratio Lower Upper
39 100
54 80.2 64.9 97.3





#17

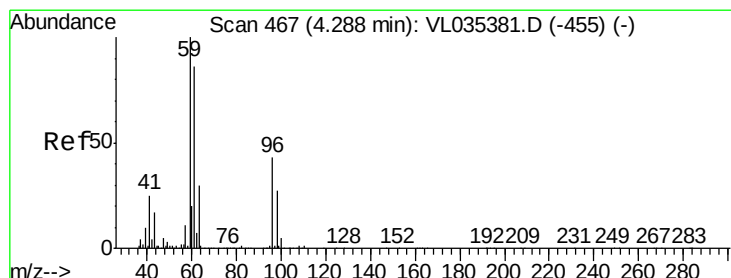
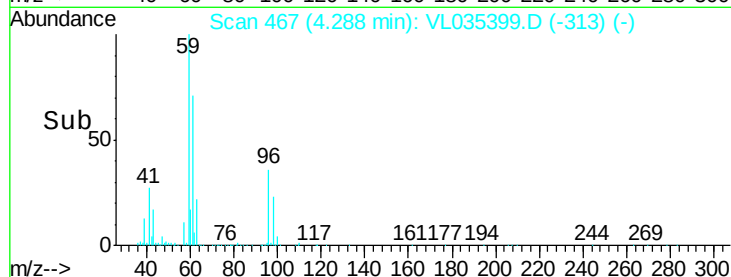
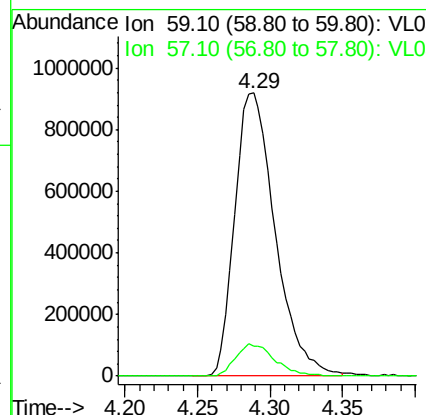
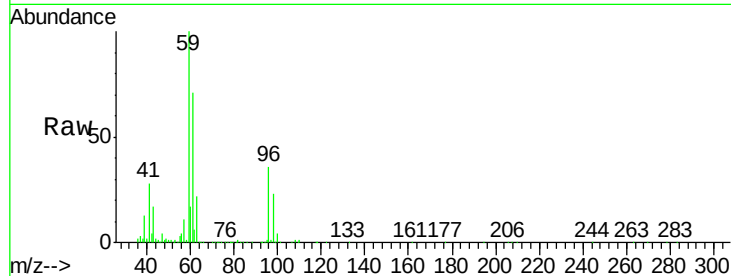
tert-Butyl alcohol
Concen: 8.477 ppbv
RT: 4.29 min Scan# 467
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 59 Resp: 1777670
Ion Ratio Lower Upper
59 100
57 11.2 8.6 13.0

Manual Integrations
APPROVED

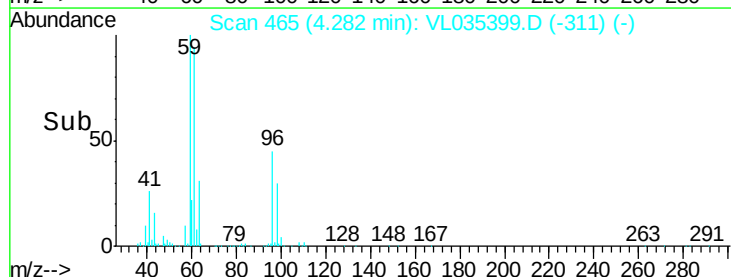
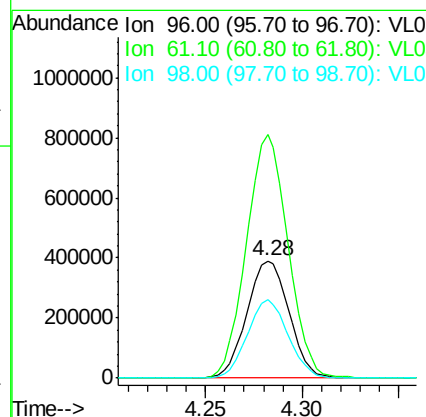
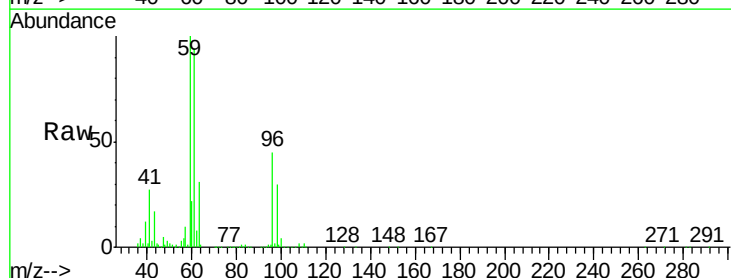
sam
8/18/2020 5:51:46 PM

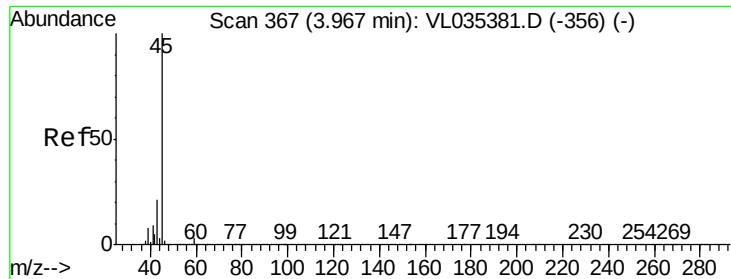


#18

1,1-Dichloroethene
Concen: 9.079 ppbv
RT: 4.28 min Scan# 465
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Tgt Ion: 96 Resp: 590093
Ion Ratio Lower Upper
96 100
61 207.2 159.0 238.4
98 66.9 50.3 75.5





#19

Isopropyl Alcohol

Concen: 8.551 ppbv

RT: 3.96 min Scan# 366

Delta R.T. -0.00 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 1199835

Ion Ratio Lower Upper

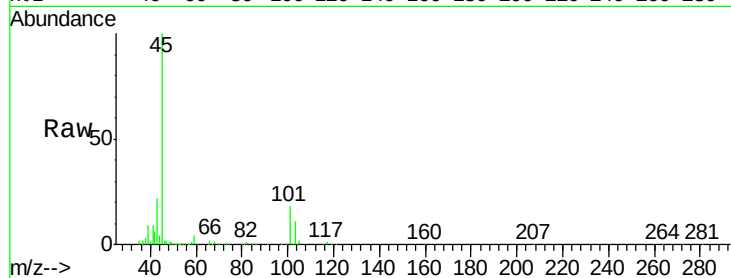
45 100

58 1.0 24.9 37.3#

Manual Integrations
APPROVED

sam

8/18/2020 5:51:46 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

800000

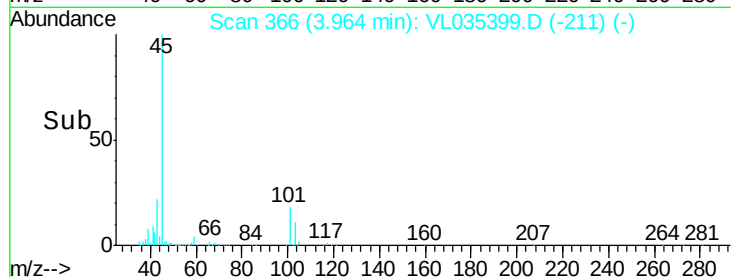
600000

400000

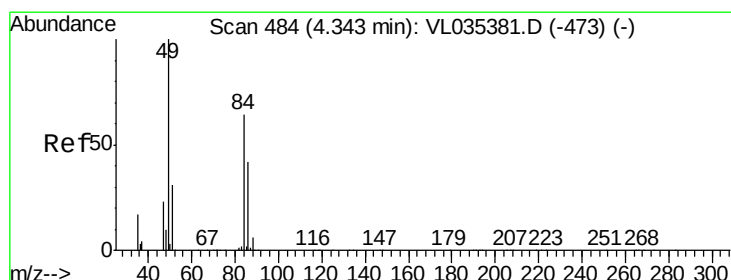
200000

0

Time-->



Time-->



#20

Methylene Chloride

Concen: 8.118 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Tgt Ion: 84 Resp: 551115

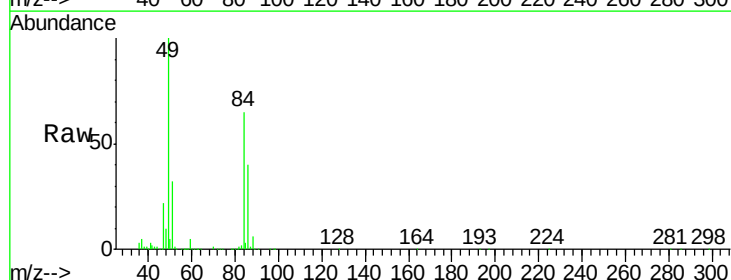
Ion Ratio Lower Upper

84 100

49 152.3 125.7 188.5

51 47.9 38.5 57.7

86 60.8 52.4 78.6



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

800000

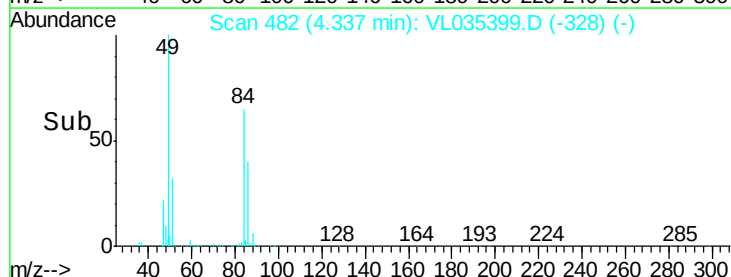
600000

400000

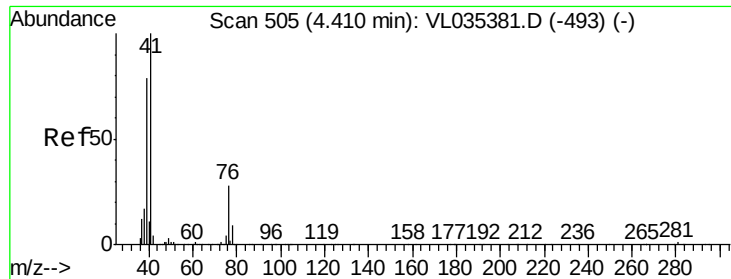
200000

0

Time-->



Time-->



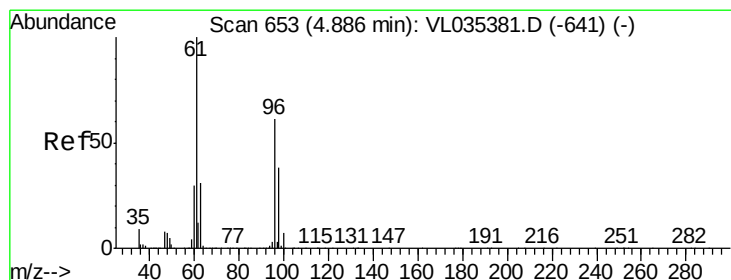
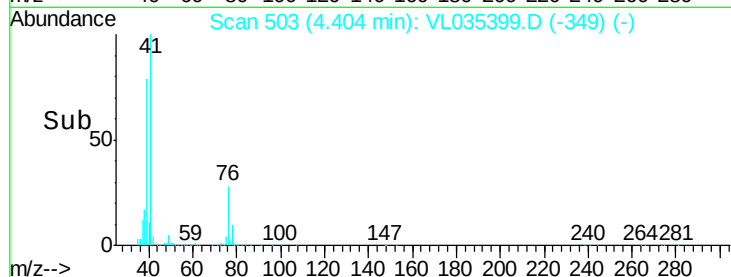
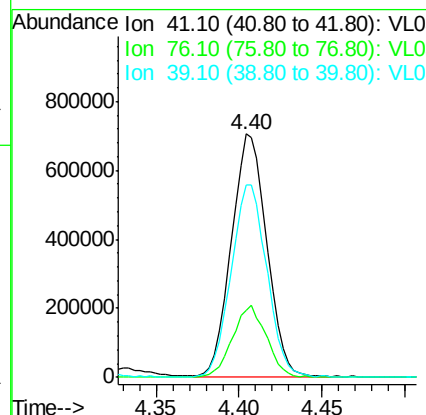
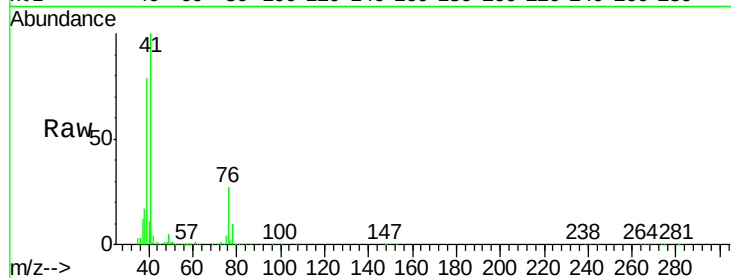
#21
Allvl Chloride
Concen: 8.840 ppbv
RT: 4.40 min Scan# 503
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.6	22.4	33.6
39	80.4	63.0	94.4

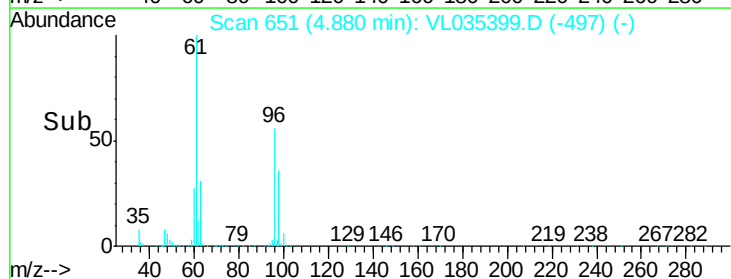
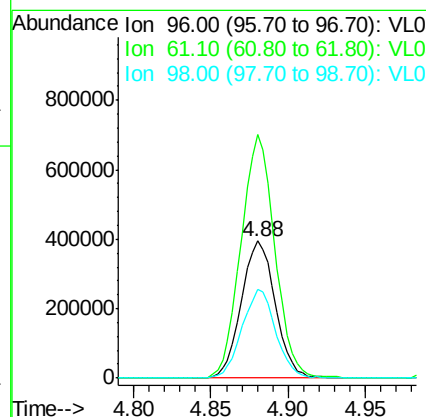
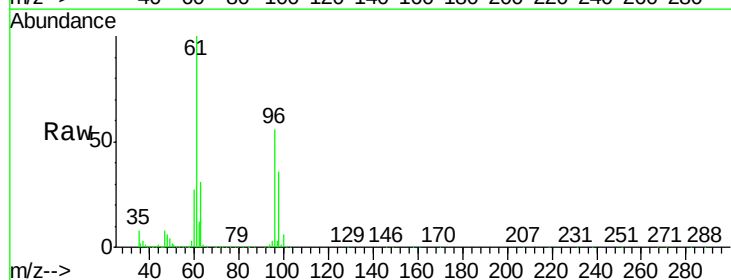
Manual Integrations
APPROVED

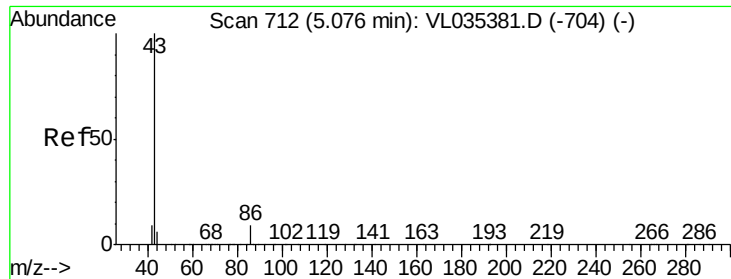
sam
8/18/2020 5:51:46 PM



#22
trans-1,2-Dichloroethene
Concen: 9.251 ppbv
RT: 4.88 min Scan# 651
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Tgt Ion	Ratio	Lower	Upper
96	100		
61	177.9	131.8	197.6
98	64.7	49.6	74.4





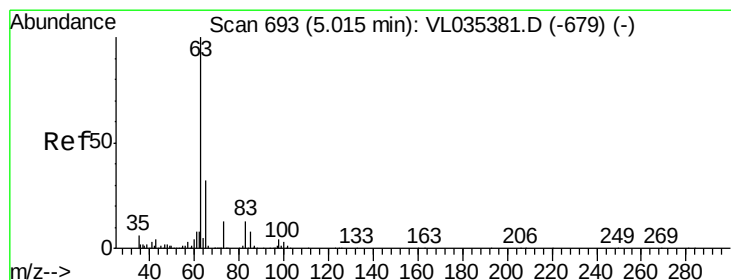
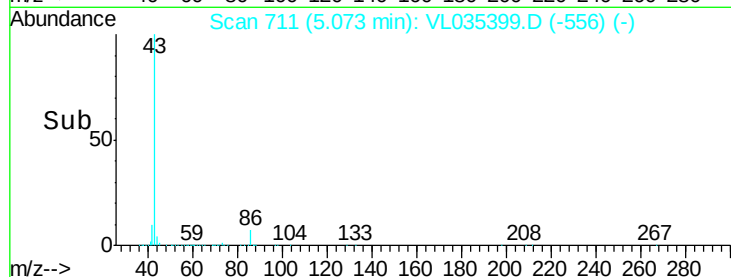
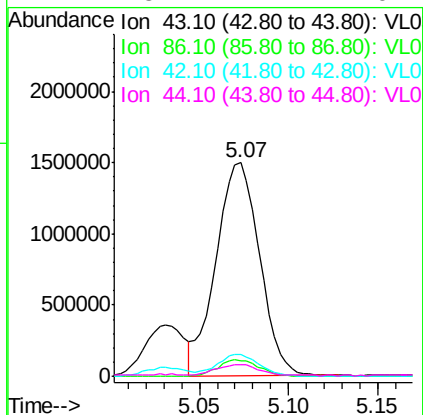
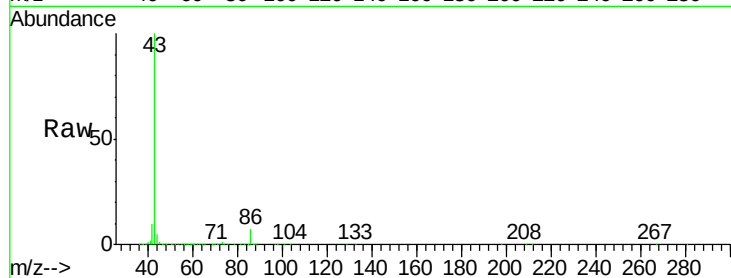
#23
 Vinyl Acetate
 Concen: 8.836 ppbv
 RT: 5.07 min Scan# 711
 Delta R.T. -0.00 min
 Lab File: VL035399.D
 Acq: 13 Aug 2020 9:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	43	Resp	2536148
Ion	Ratio	Lower	Upper
43	100		
86	7.4	5.8	8.8
42	10.1	8.0	12.0
44	5.1	4.2	6.2

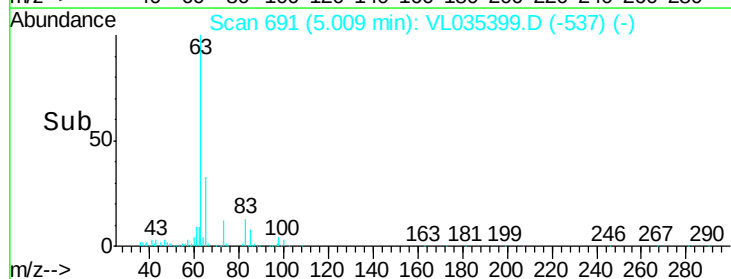
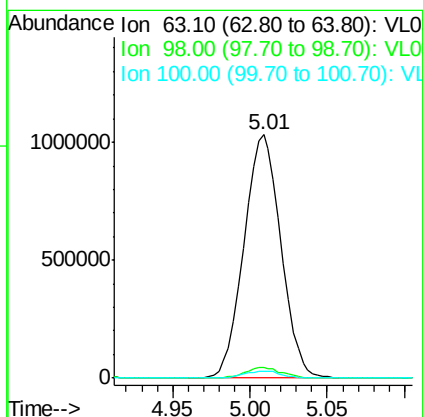
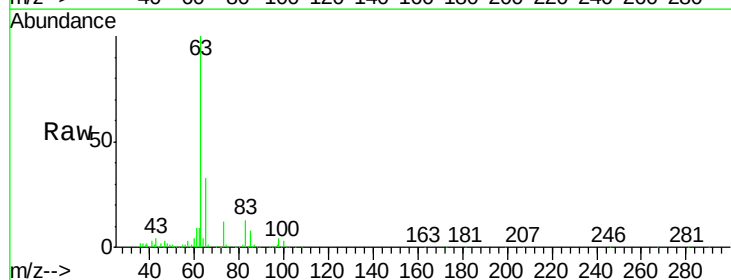
Manual Integrations
 APPROVED

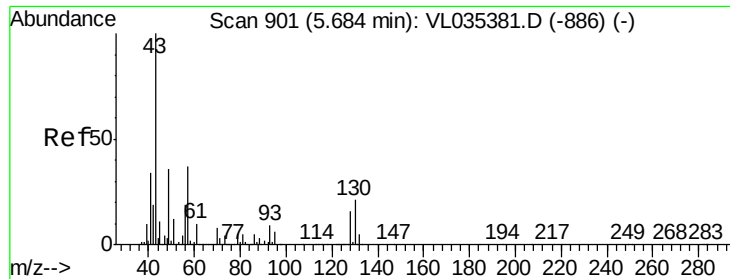
sam
 8/18/2020 5:51:46 PM



#24
 1,1-Dichloroethane
 Concen: 9.054 ppbv
 RT: 5.01 min Scan# 691
 Delta R.T. -0.01 min
 Lab File: VL035399.D
 Acq: 13 Aug 2020 9:22

Tgt Ion	63	Resp	1711382
Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.2	6.6
100	2.6	1.4	4.0





#25

Ethyl Acetate

Concen: 8.484 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 3148406

Ion Ratio Lower Upper

43 100

45 10.3 8.0 12.0

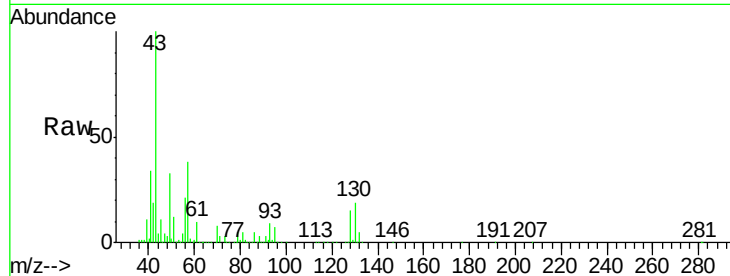
61 9.6 7.4 11.2

70 7.6 5.9 8.9

Manual Integrations
APPROVED

sam

8/18/2020 5:51:46 PM

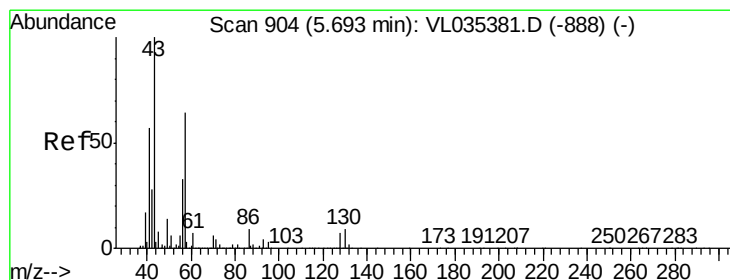
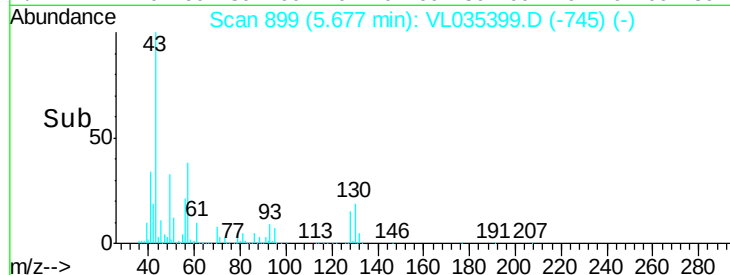
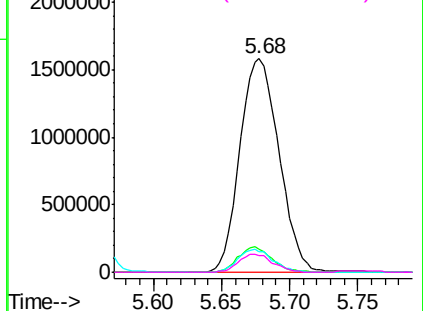


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.518 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Tgt Ion: 57 Resp: 1383137

Ion Ratio Lower Upper

57 100

41 93.7 75.4 113.2

43 228.6 184.1 276.1

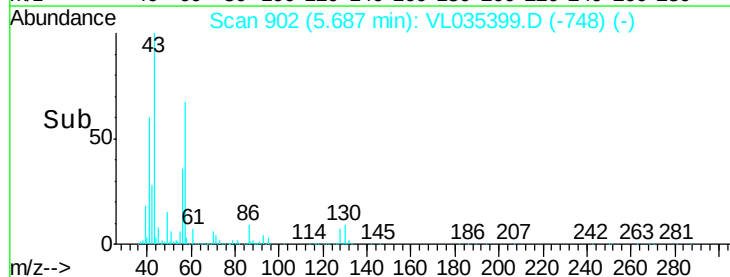
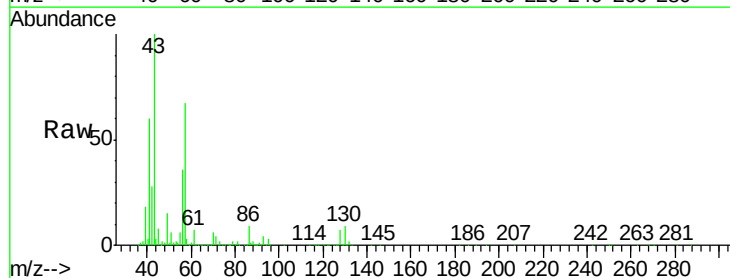
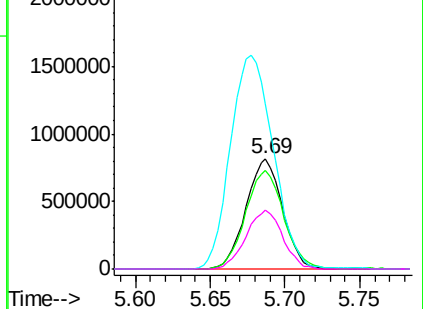
56 53.8 42.2 63.4

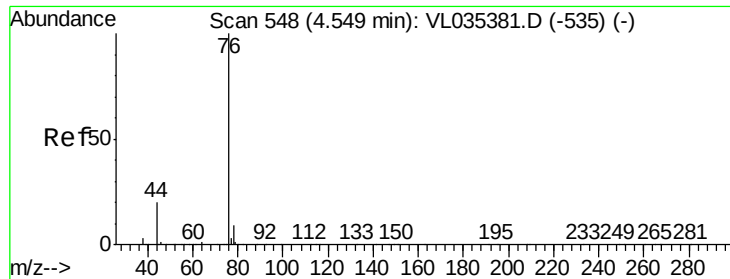
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 9.098 ppbv

RT: 4.54 min Scan# 546

Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Instrument :

MSVOA_L

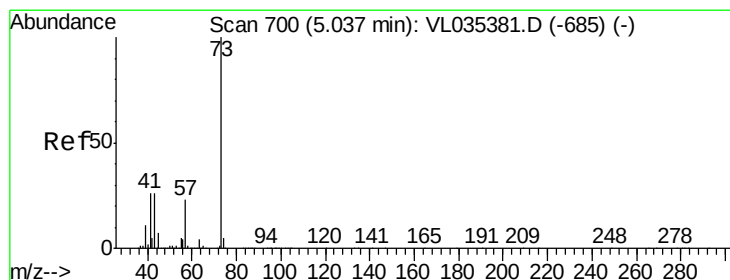
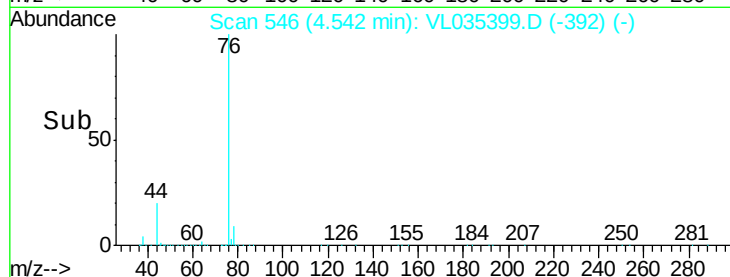
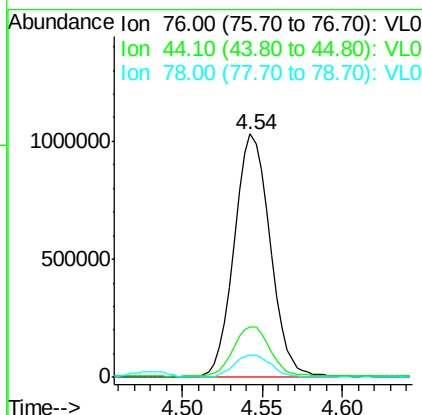
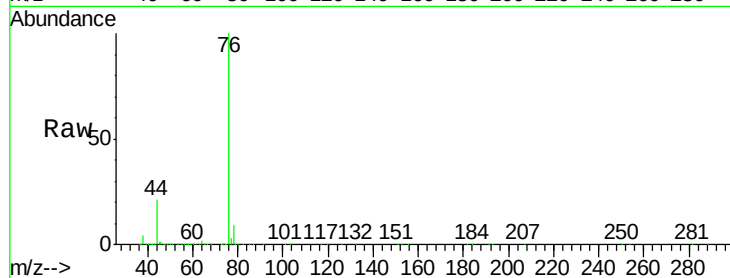
ClientSampleId :

VSTDCCC010

Tot Ion:	76	Resp:	1577155
Ion	Ratio	Lower	Upper
76	100		
44	20.6	17.0	25.4
78	9.7	7.5	11.3

Manual Integrations
APPROVED

sam
8/18/2020 5:51:46 PM



#28

Methyl tert-Butyl Ether

Concen: 8.652 ppbv

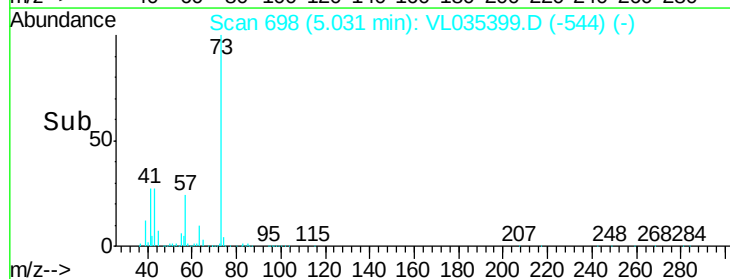
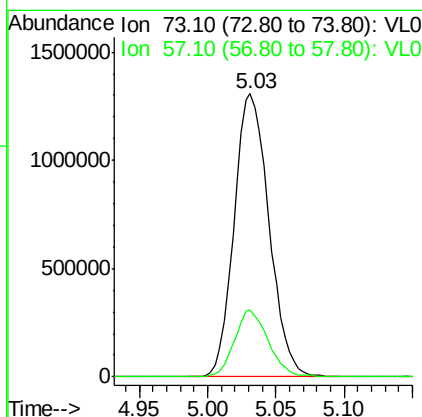
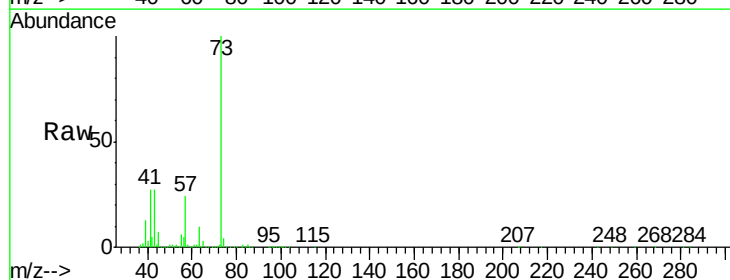
RT: 5.03 min Scan# 698

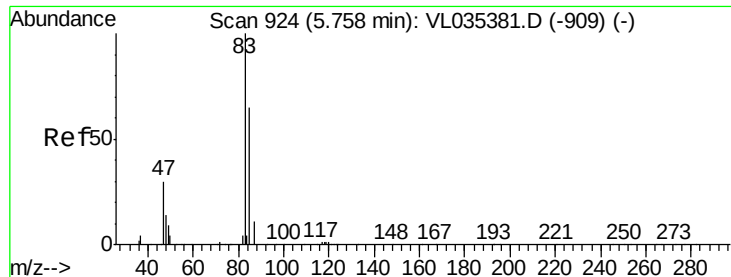
Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Tgt Ion:	73	Resp:	2319850
Ion	Ratio	Lower	Upper
73	100		
57	23.0	19.0	28.4





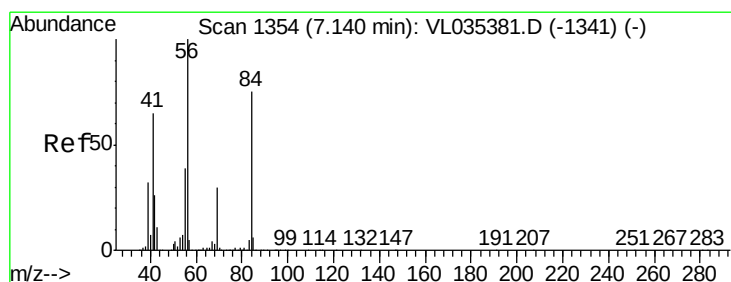
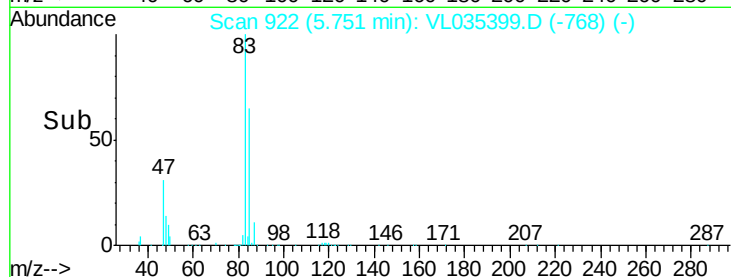
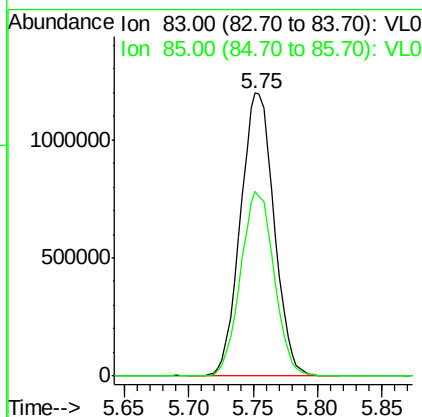
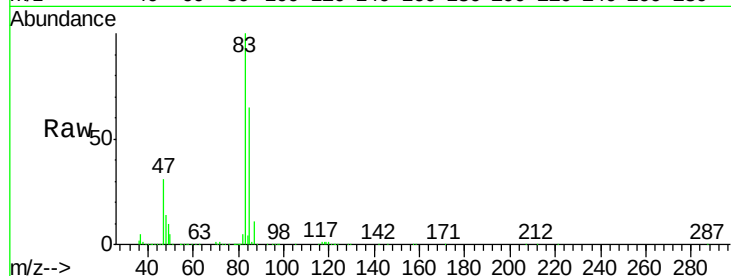
#29
Chloroform
Concen: 9.390 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 2176067
Ion Ratio Lower Upper
83 100
85 65.4 51.7 77.5

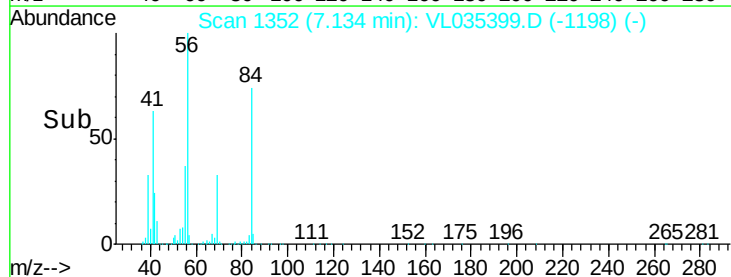
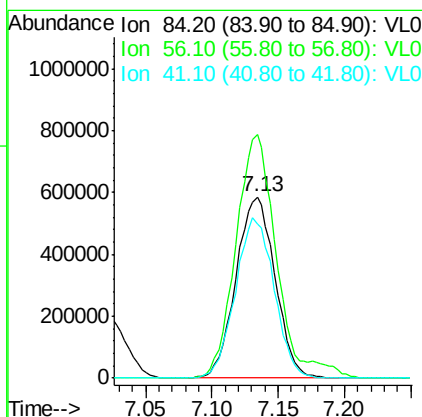
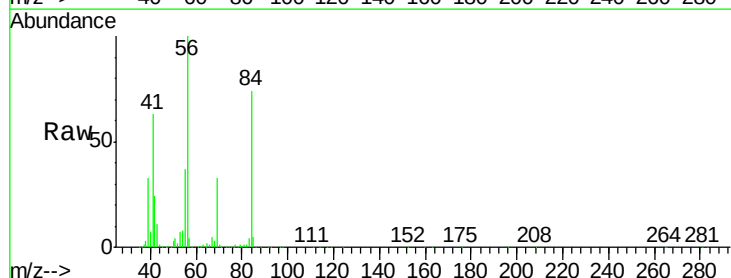
Manual Integrations
APPROVED

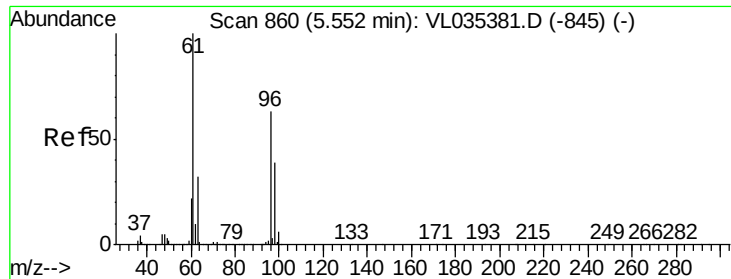
sam
8/18/2020 5:51:46 PM



#30
Cyclohexane
Concen: 8.918 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Tgt Ion: 84 Resp: 1193631
Ion Ratio Lower Upper
84 100
56 141.0 115.8 173.6
41 88.0 71.4 107.0





#31

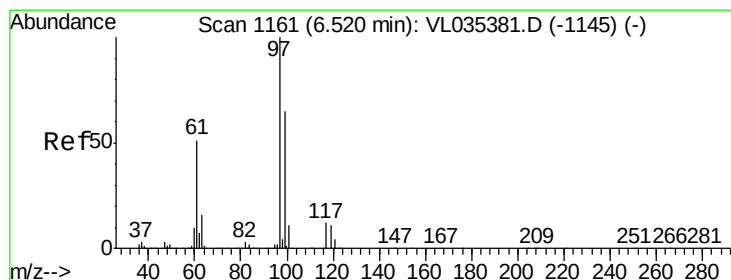
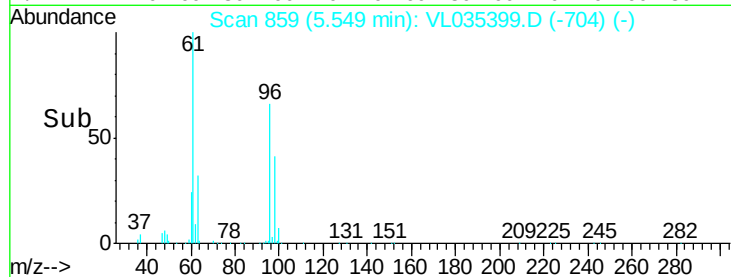
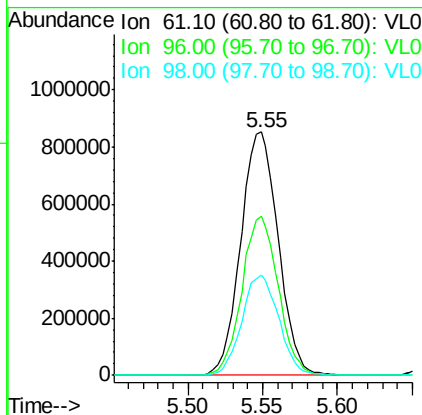
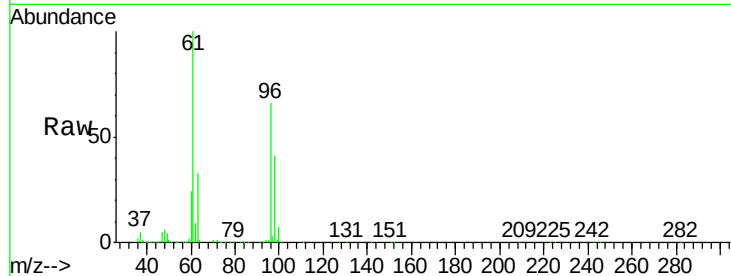
cis-1,2-Dichloroethene
Concen: 9.237 ppbv
RT: 5.55 min Scan# 859
Delta R.T. -0.00 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	65.5	50.5	75.7
98	41.0	31.5	47.3

Manual Integrations
APPROVED

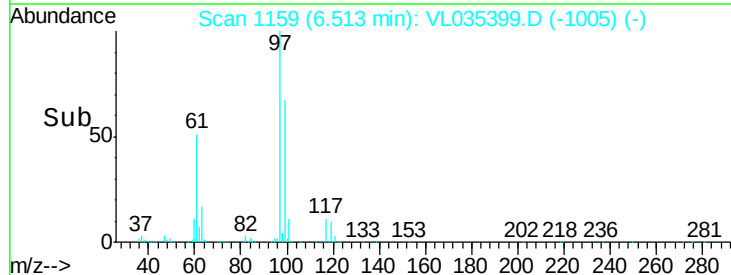
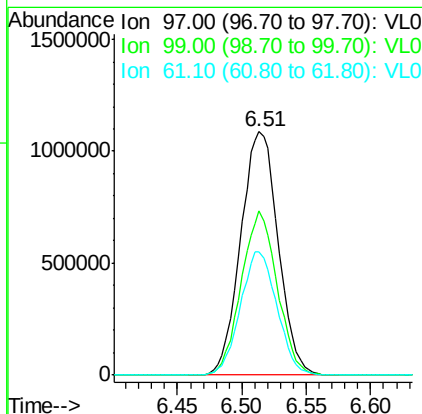
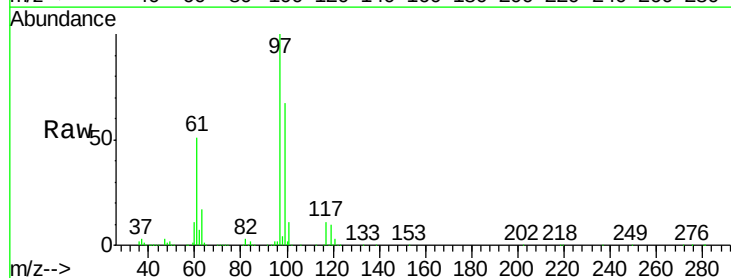
sam
8/18/2020 5:51:46 PM

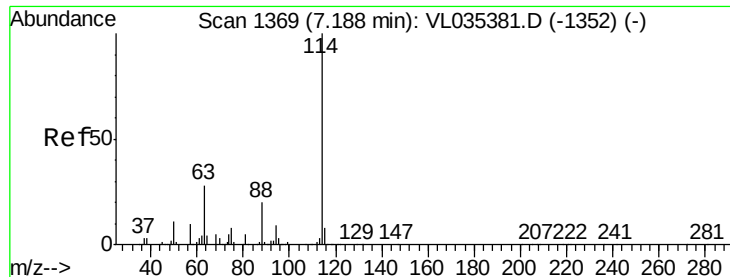


#32

1,1,1-Trichloroethane
Concen: 8.697 ppbv
RT: 6.51 min Scan# 1159
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.8	77.8
61	49.7	39.6	59.4





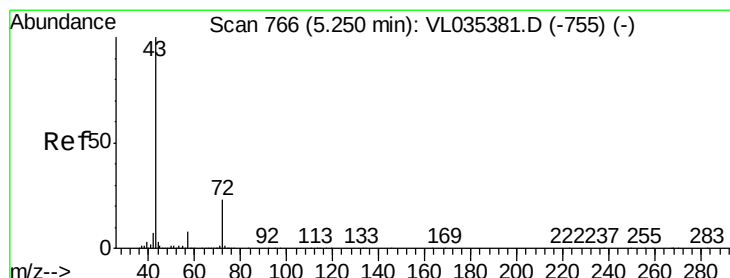
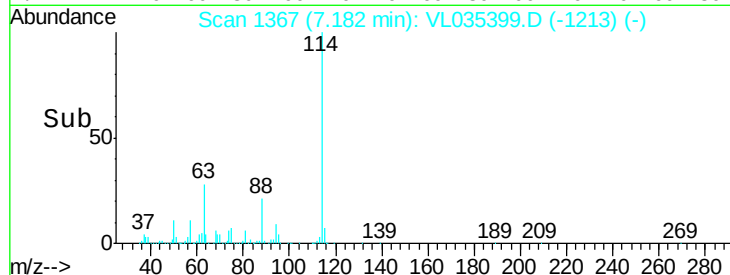
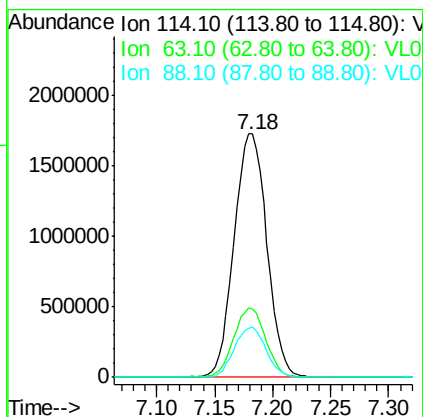
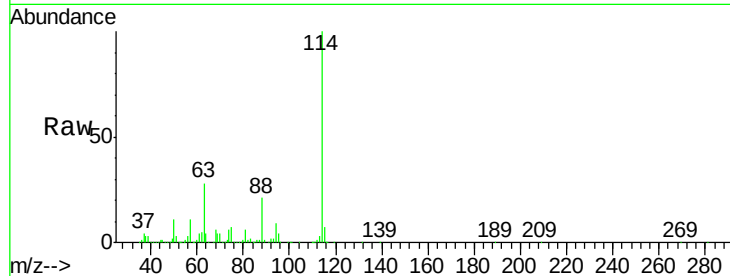
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.01 min
 Lab File: VL035399.D
 Acq: 13 Aug 2020 9:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.1	21.5	32.3
88	20.0	15.6	23.4

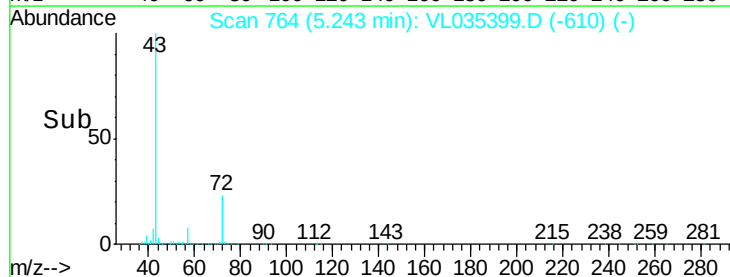
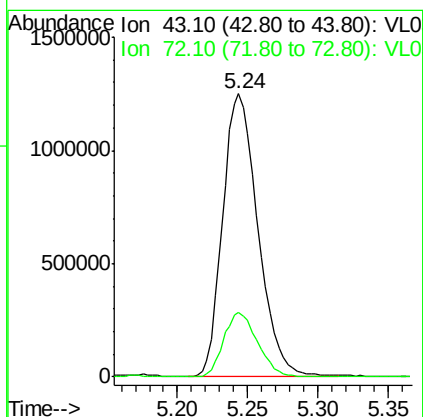
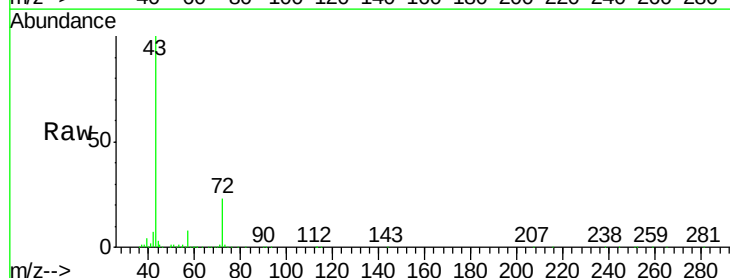
Manual Integrations
 APPROVED

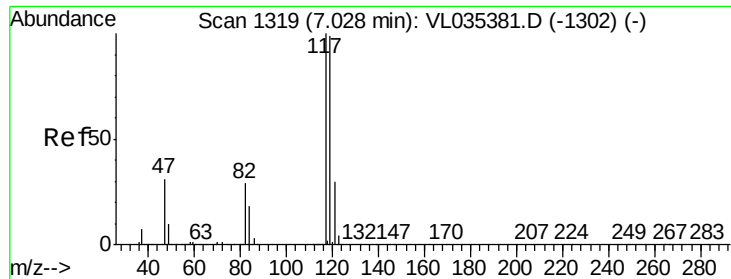
Sam
 8/18/2020 5:51:46 PM



#34
 2-Butanone
 Concen: 9.013 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. -0.01 min
 Lab File: VL035399.D
 Acq: 13 Aug 2020 9:22

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.0	17.7	26.5





#35

Carbon Tetrachloride

Concen: 9.124 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Instrument :

MSVOA_L

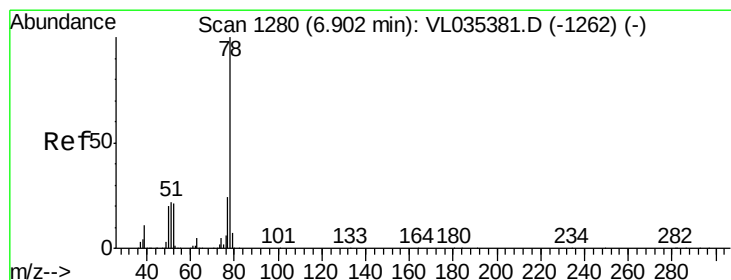
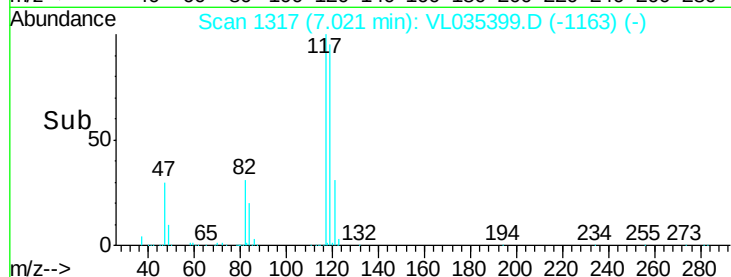
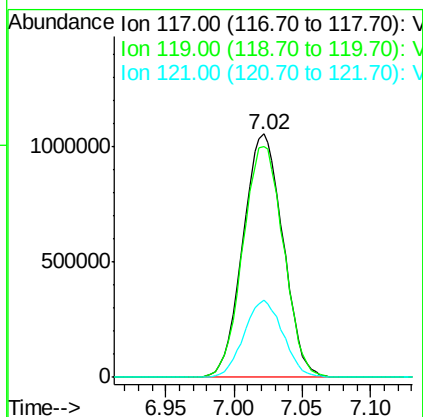
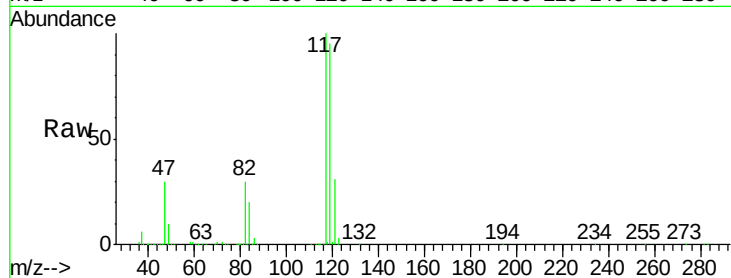
ClientSampleId :

VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.0	79.4	119.0
121	31.4	24.3	36.5

Manual Integrations
APPROVED

sam
8/18/2020 5:51:46 PM



#36

Benzene

Concen: 8.867 ppbv

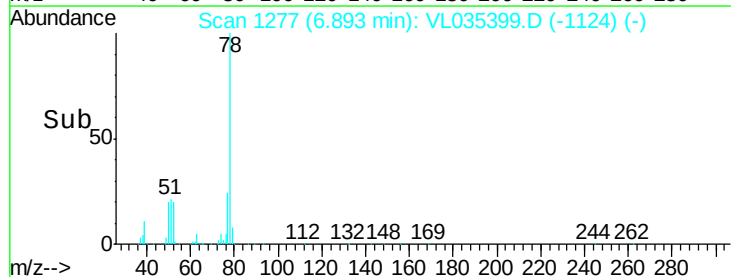
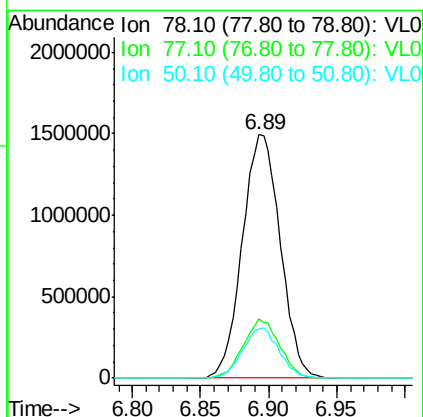
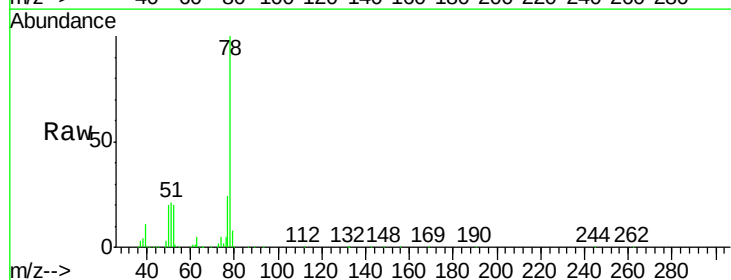
RT: 6.89 min Scan# 1277

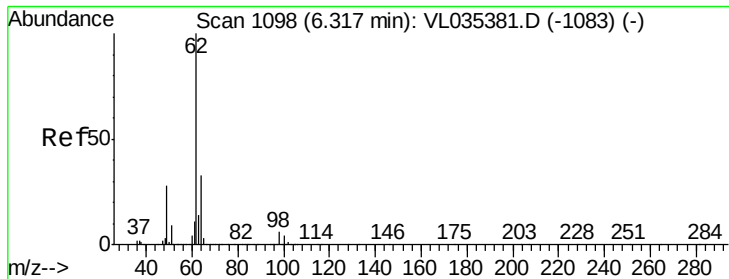
Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.1	28.7
50	20.3	15.8	23.6





#37

1,2-Dichloroethane

Concen: 9.624 ppbv

RT: 6.31 min Scan# 1095

Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 1736786

Ion Ratio Lower Upper

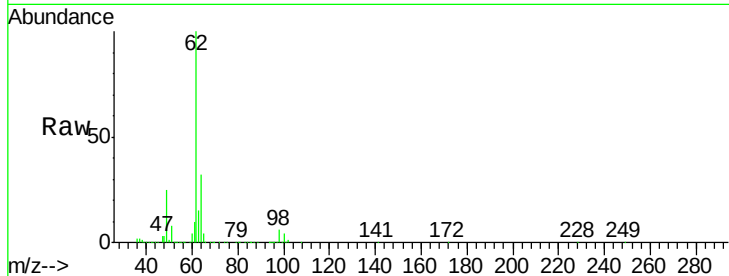
62 100

98 6.0 5.1 7.7

Manual Integrations
APPROVED

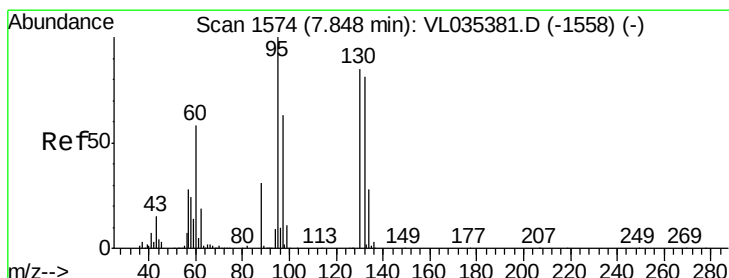
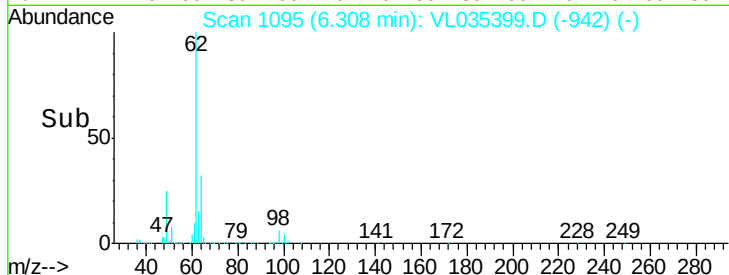
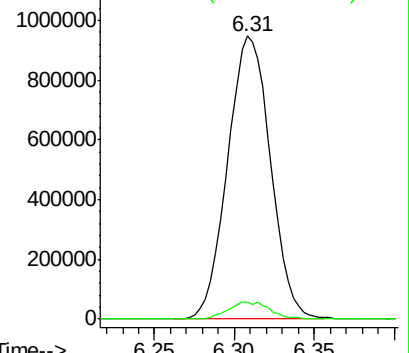
sam

8/18/2020 5:51:46 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 7.986 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Tgt Ion: 130 Resp: 1017474

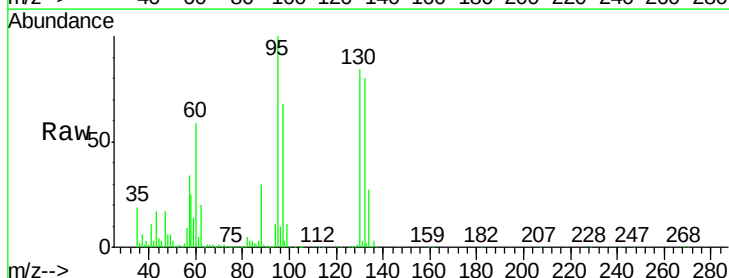
Ion Ratio Lower Upper

130 100

95 119.1 94.2 141.4

132 94.9 76.6 114.8

97 80.6 59.3 88.9

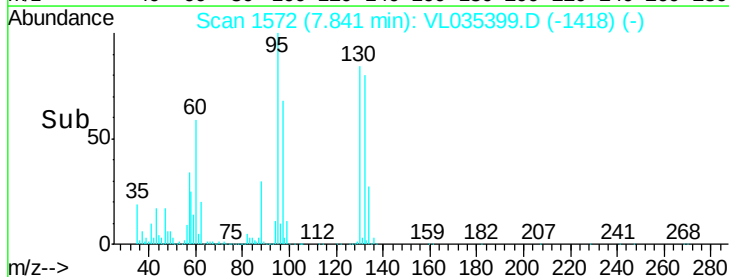
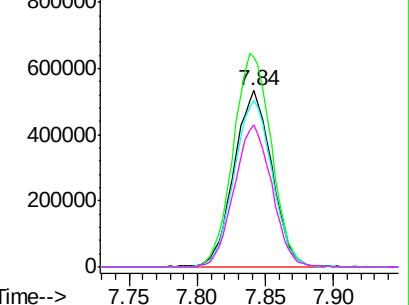


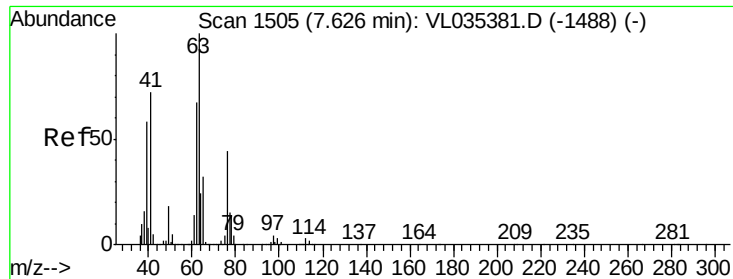
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





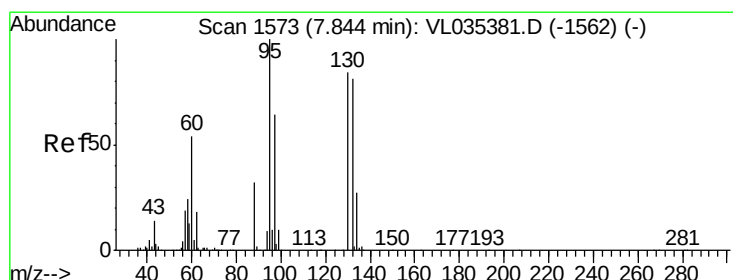
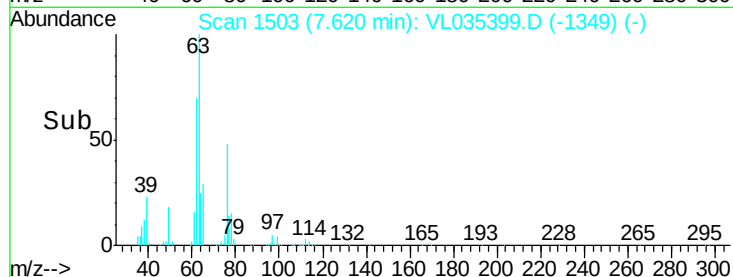
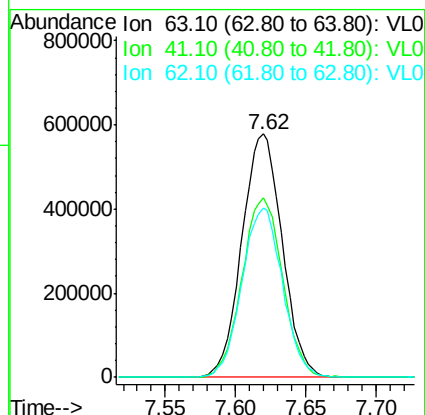
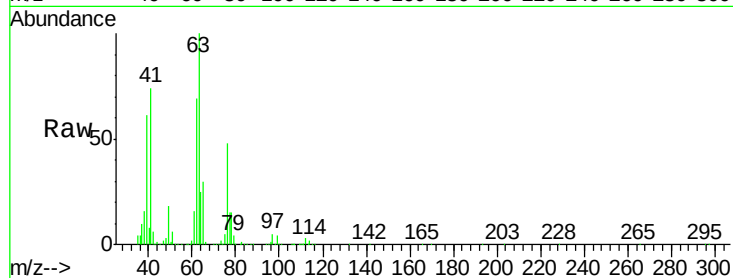
#39
 1,2-Dichloropropane
 Concen: 9.017 ppbv
 RT: 7.62 min Scan# 1503
 Delta R.T. -0.01 min
 Lab File: VL035399.D
 Acq: 13 Aug 2020 9:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	73.5	57.4	86.2
62	69.3	53.6	80.4

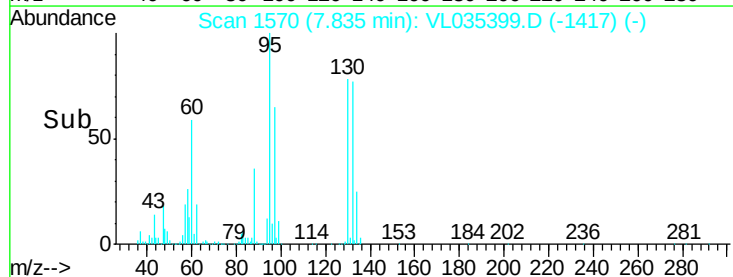
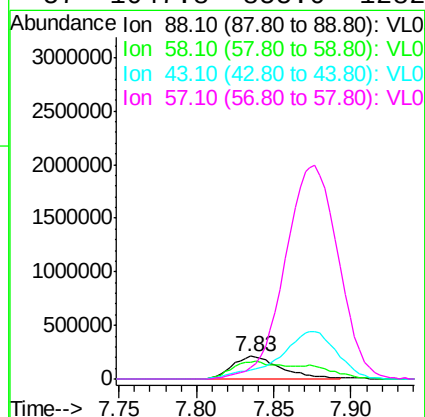
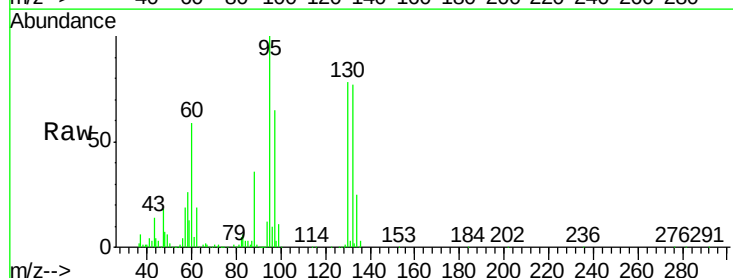
Manual Integrations
 APPROVED

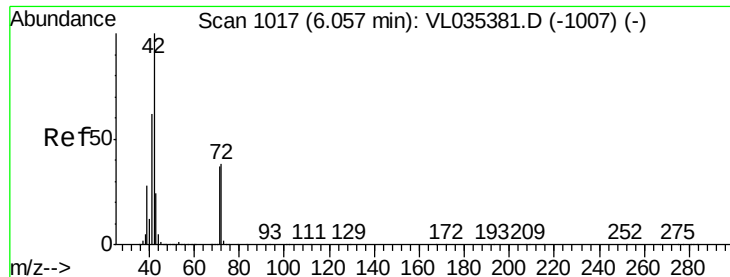
sam
 8/18/2020 5:51:46 PM



#40
 1,4-Dioxane
 Concen: 8.724 ppbv
 RT: 7.83 min Scan# 1570
 Delta R.T. -0.01 min
 Lab File: VL035399.D
 Acq: 13 Aug 2020 9:22

Tgt Ion	Ratio	Lower	Upper
88	100		
58	130.5	105.0	157.6
43	251.6	204.2	306.2
57	1047.8	855.0	1282.4





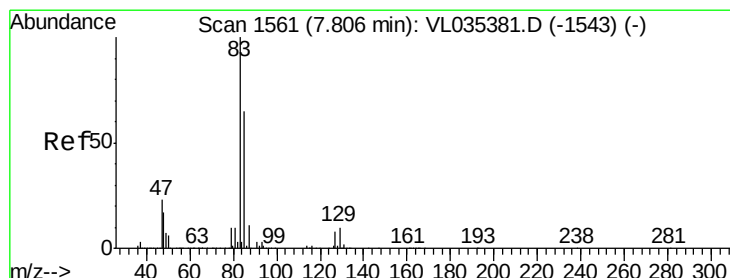
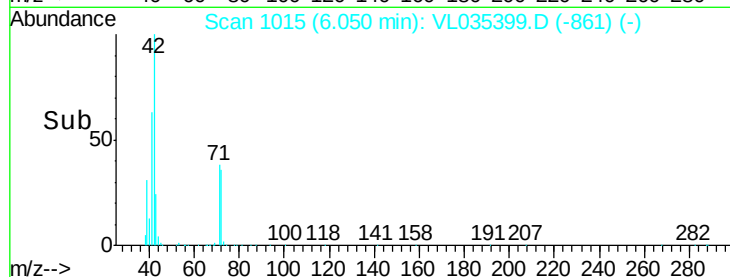
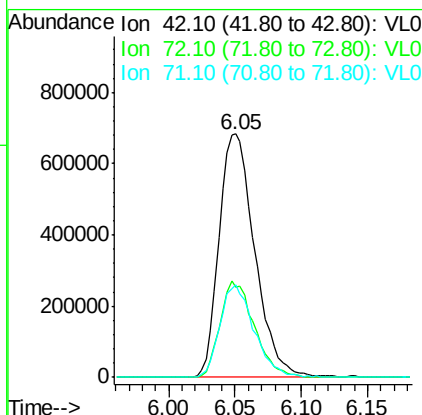
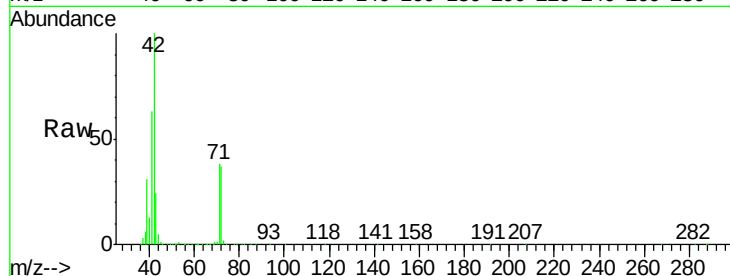
#41
Tetrahydrofuran
Concen: 8.843 ppbv
RT: 6.05 min Scan# 1015
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	42	Resp	1274670
Ion	Ratio	Lower	Upper
42	100		
72	38.3	30.2	45.2
71	36.7	28.6	42.8

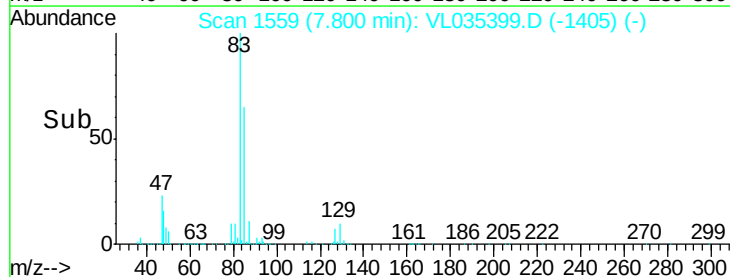
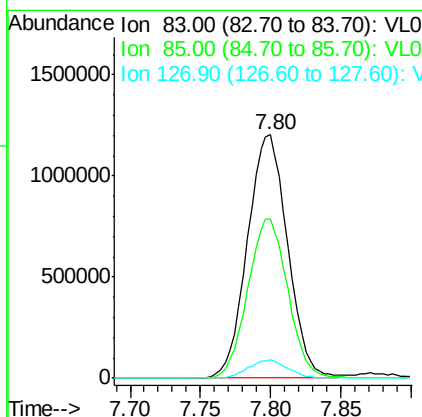
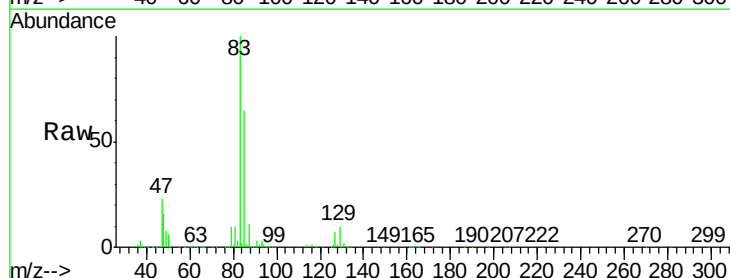
Manual Integrations
APPROVED

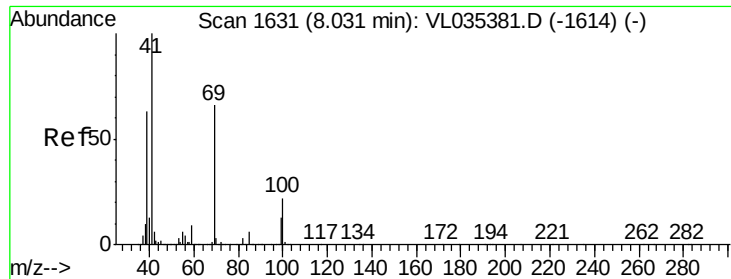
sam
8/18/2020 5:51:46 PM



#42
Bromodichloromethane
Concen: 9.431 ppbv
RT: 7.80 min Scan# 1559
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Tgt Ion	83	Resp	2397442
Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.2	78.4
127	7.3	6.3	9.5





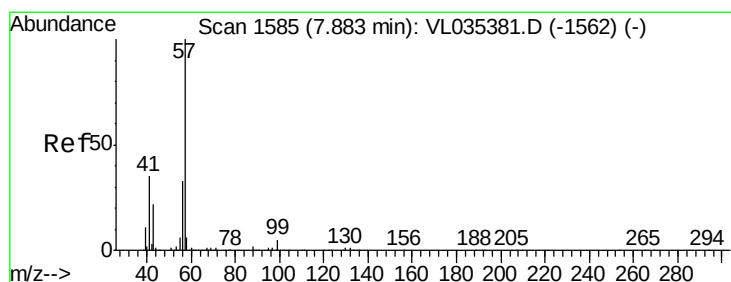
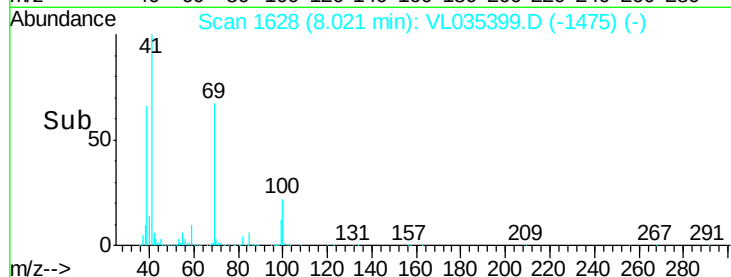
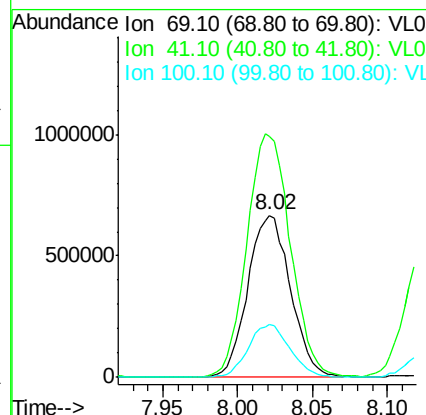
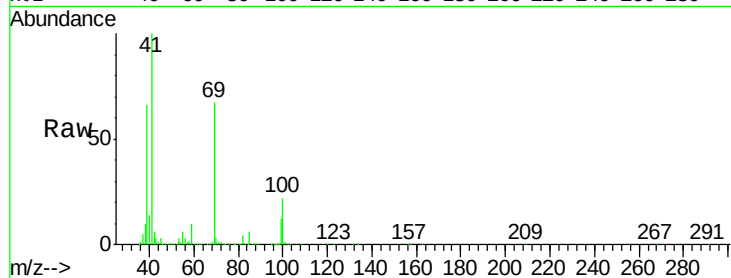
#43
Methvl Methacrylate
Concen: 9.182 ppbv
RT: 8.02 min Scan# 1628
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 69 Resp: 1324259
Ion Ratio Lower Upper
69 100
41 153.2 123.4 185.2
100 31.9 26.7 40.1

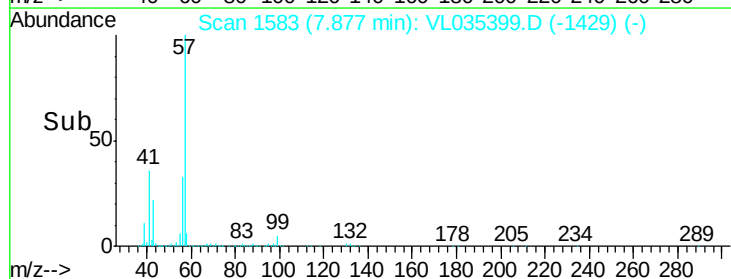
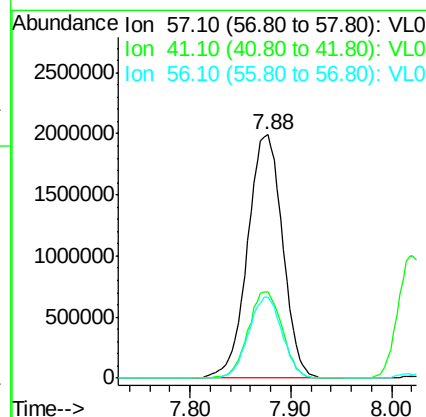
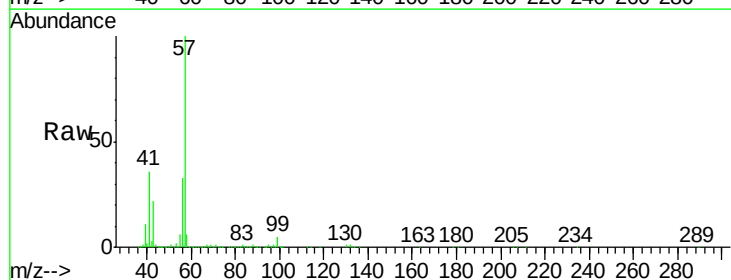
Manual Integrations
APPROVED

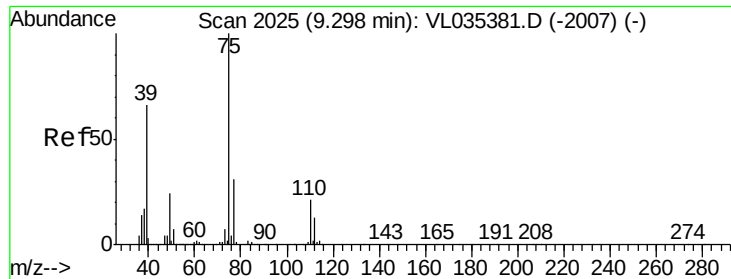
sam
8/18/2020 5:51:46 PM



#44
2,2,4-Trimethylpentane
Concen: 8.562 ppbv
RT: 7.88 min Scan# 1583
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Tgt Ion: 57 Resp: 4788383
Ion Ratio Lower Upper
57 100
41 34.5 26.9 40.3
56 31.9 25.6 38.4





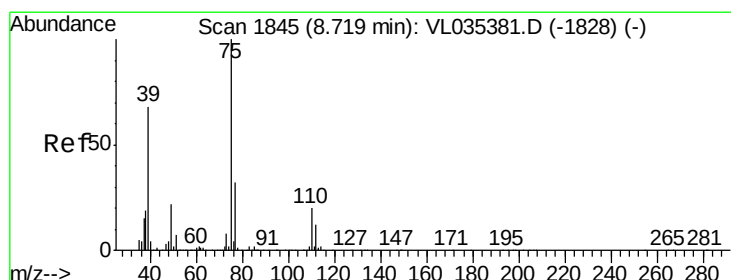
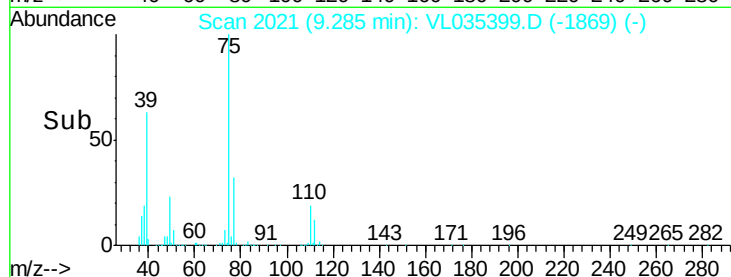
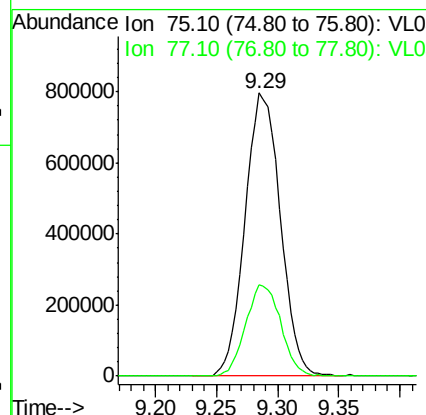
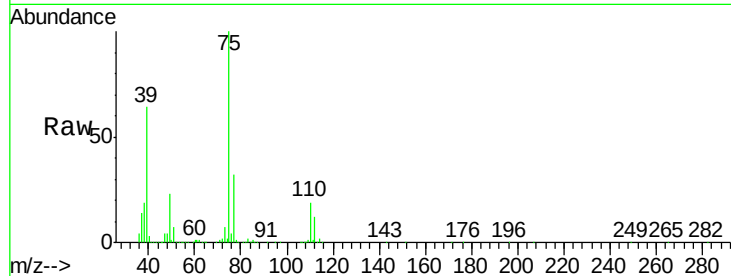
#45
 t-1,3-Dichloropropene
 Concen: 9.519 ppbv
 RT: 9.29 min Scan# 2021
 Delta R.T. -0.01 min
 Lab File: VL035399.D
 Acq: 13 Aug 2020 9:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 75 Resp: 1592931
 Ion Ratio Lower Upper
 75 100
 77 32.1 25.2 37.8

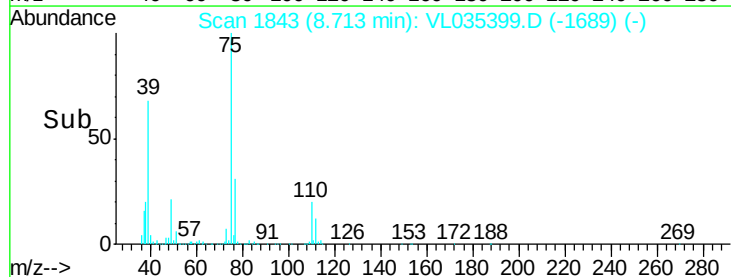
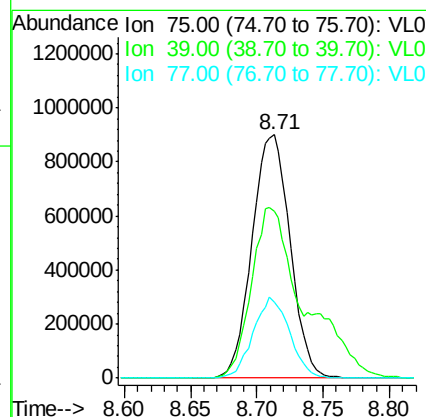
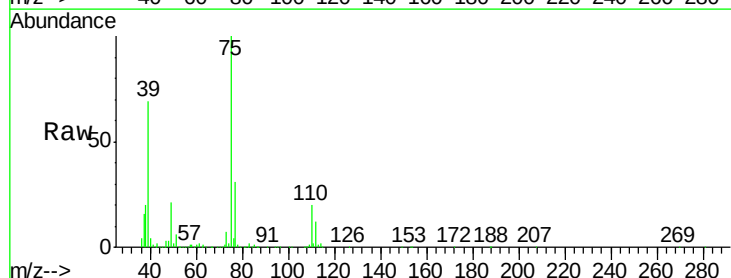
Manual Integrations
 APPROVED

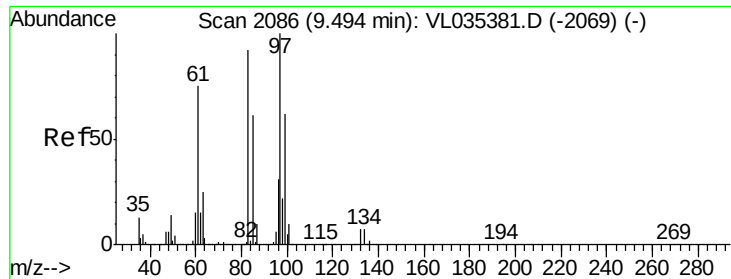
sam
 8/18/2020 5:51:46 PM



#46
 cis-1,3-Dichloropropene
 Concen: 9.222 ppbv
 RT: 8.71 min Scan# 1843
 Delta R.T. -0.01 min
 Lab File: VL035399.D
 Acq: 13 Aug 2020 9:22

Tgt Ion: 75 Resp: 1802449
 Ion Ratio Lower Upper
 75 100
 39 68.4 54.2 81.2
 77 31.0 25.7 38.5





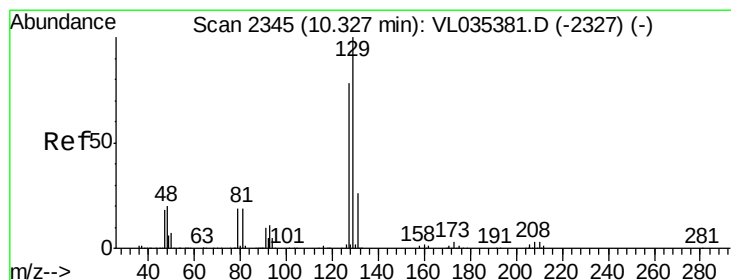
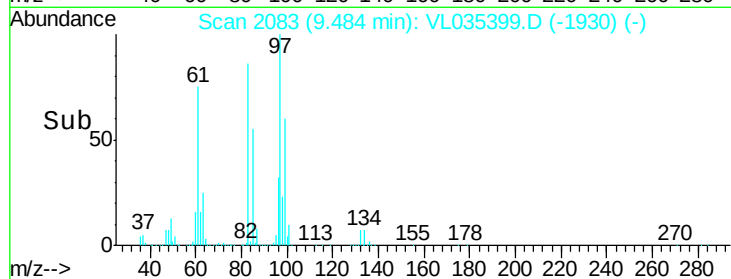
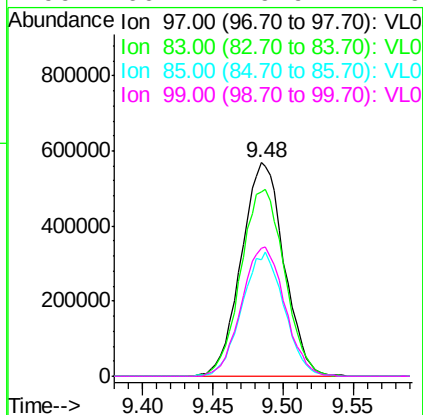
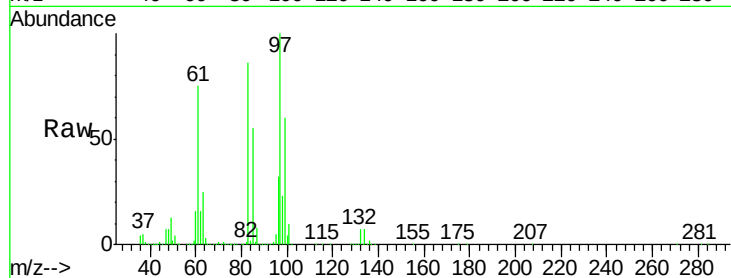
#47
 1,1,2-Trichloroethane
 Concen: 9.246 ppbv
 RT: 9.48 min Scan# 2083
 Delta R.T. -0.01 min
 Lab File: VL035399.D
 Acq: 13 Aug 2020 9:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	86.0	73.9	110.9
85	54.6	49.0	73.6
99	60.1	49.9	74.9

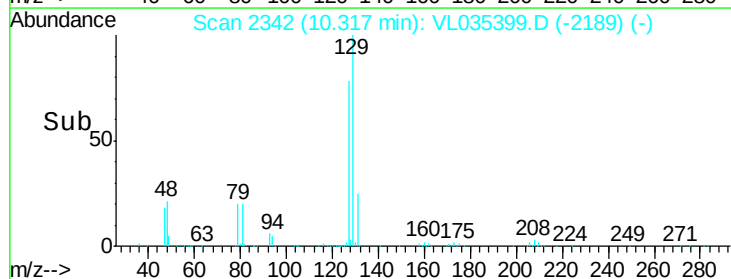
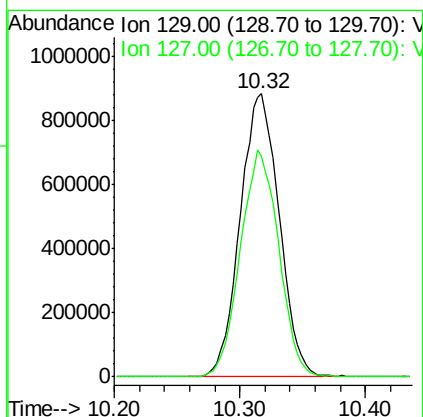
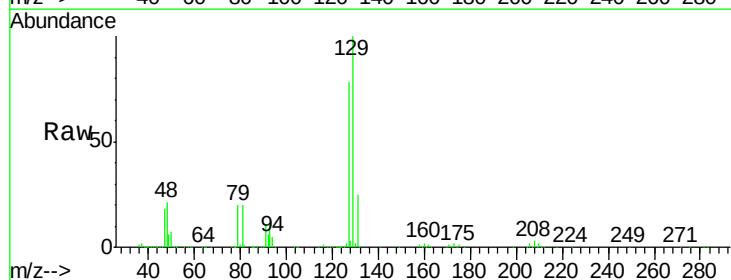
Manual Integrations
 APPROVED

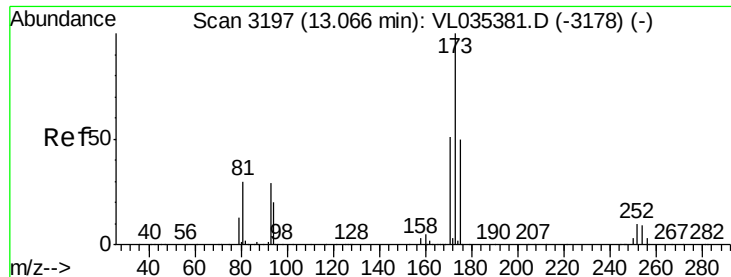
Sam
 8/18/2020 5:51:46 PM



#48
 Dibromochloromethane
 Concen: 9.143 ppbv
 RT: 10.32 min Scan# 2342
 Delta R.T. -0.01 min
 Lab File: VL035399.D
 Acq: 13 Aug 2020 9:22

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.7	39.3	117.8





#49

Bromoform

Concen: 9.269 ppbv

RT: 13.06 min Scan# 3194

Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1585715

Ion Ratio Lower Upper

173 100

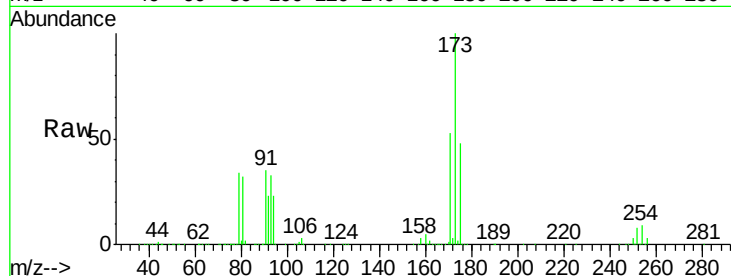
175 49.1 39.9 59.9

171 52.5 41.8 62.8

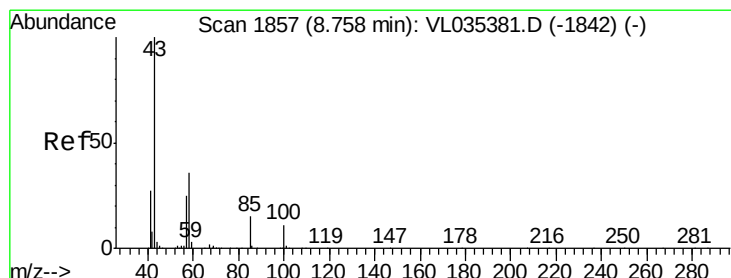
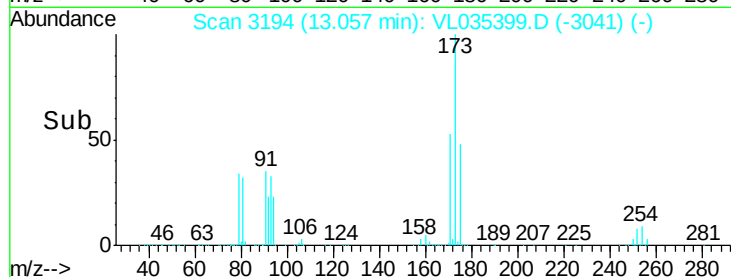
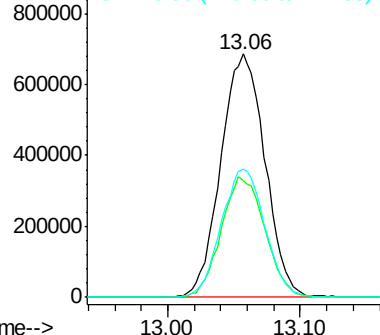
Manual Integrations
APPROVED

sam

8/18/2020 5:51:46 PM



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: 8.741 ppbv

RT: 8.75 min Scan# 1855

Delta R.T. -0.01 min

Lab File: VL035399.D

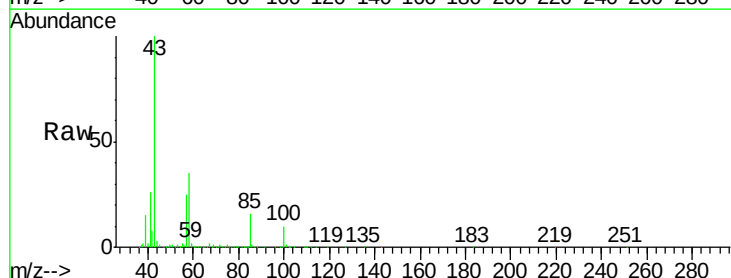
Acq: 13 Aug 2020 9:22

Tgt Ion: 43 Resp: 3182674

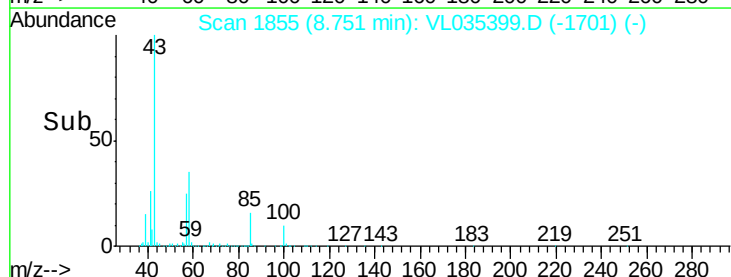
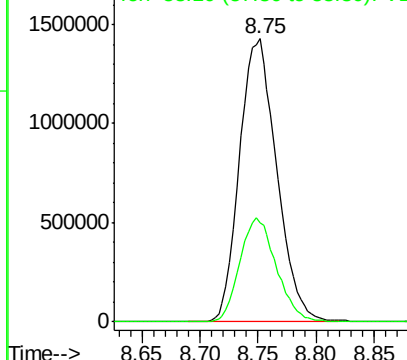
Ion Ratio Lower Upper

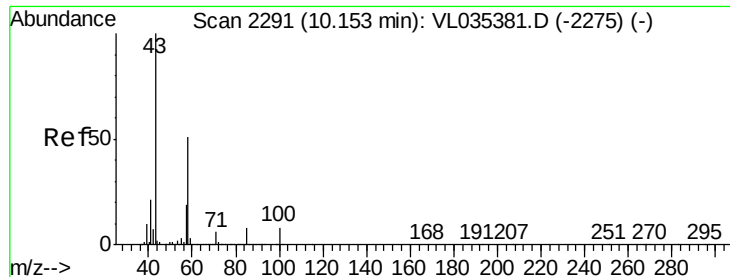
43 100

58 36.2 29.0 43.6



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





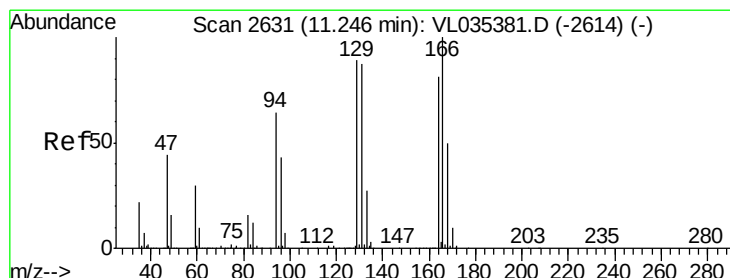
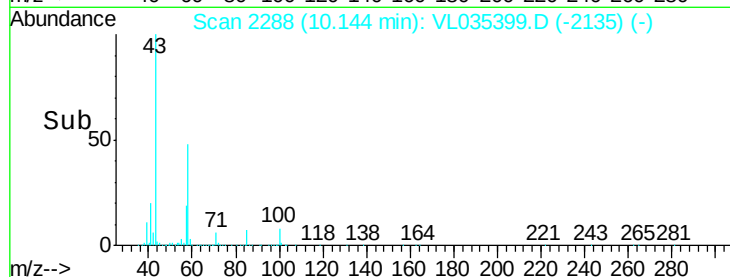
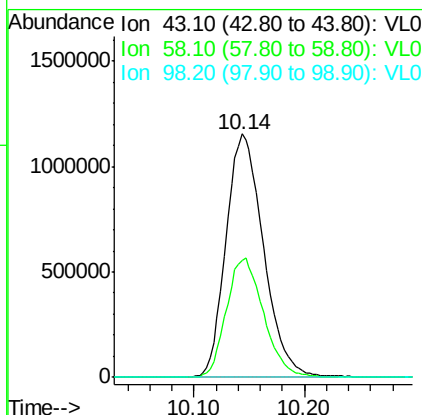
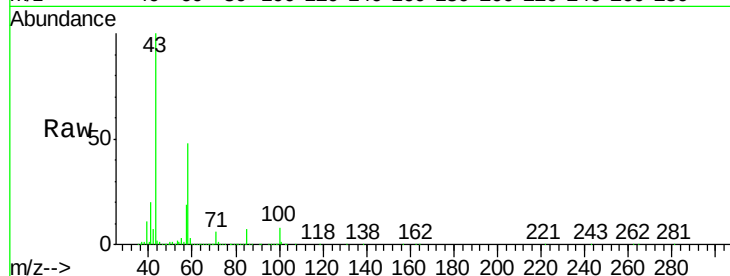
#51
2-Hexanone
Concen: 8.894 ppbv
RT: 10.14 min Scan# 2288
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 2726530
Ion Ratio Lower Upper
43 100
58 48.7 39.5 59.3
98 0.2 0.1 0.1#

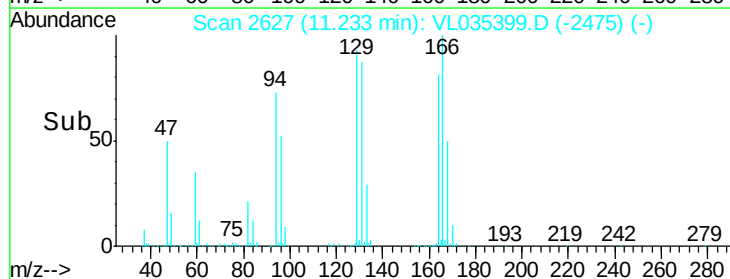
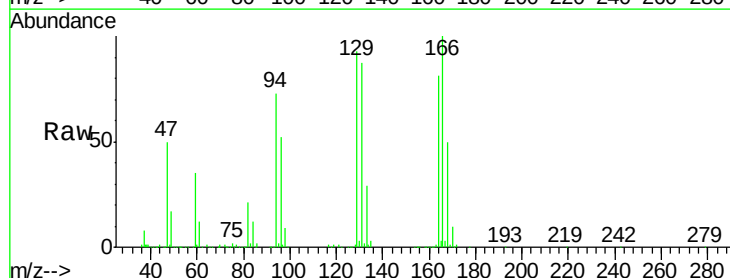
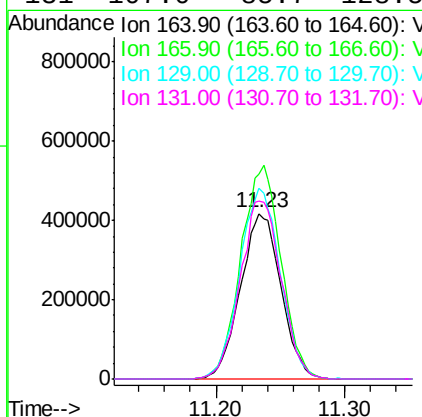
Manual Integrations
APPROVED

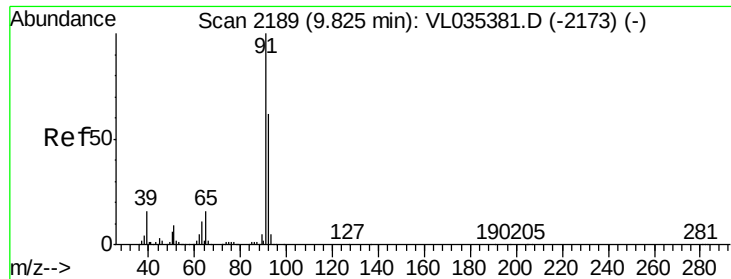
sam
8/18/2020 5:51:46 PM



#52
Tetrachloroethene
Concen: 7.890 ppbv
RT: 11.23 min Scan# 2627
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Tgt Ion: 164 Resp: 909528
Ion Ratio Lower Upper
164 100
166 123.4 98.2 147.2
129 115.1 87.3 130.9
131 107.0 85.7 128.5





#53

Toluene

Concen: 8.749 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3376181

Ion Ratio Lower Upper

91 100

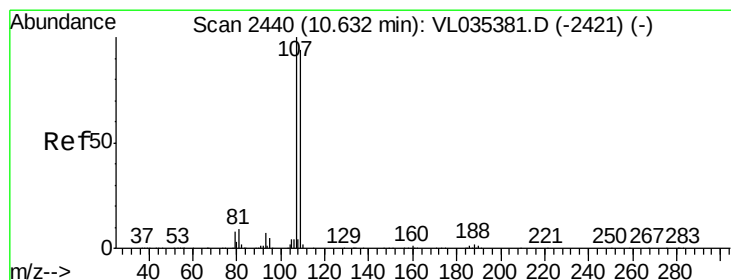
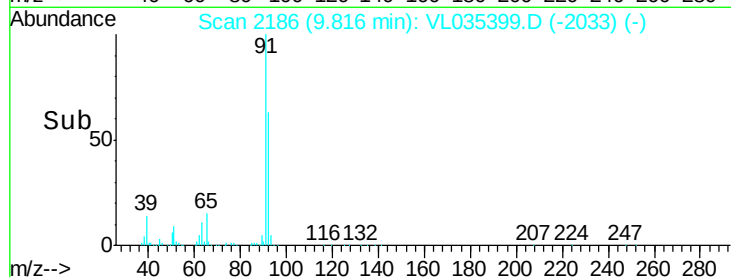
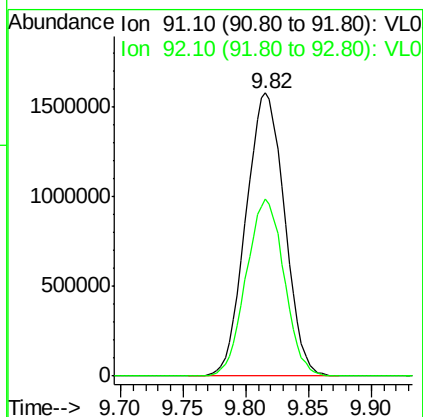
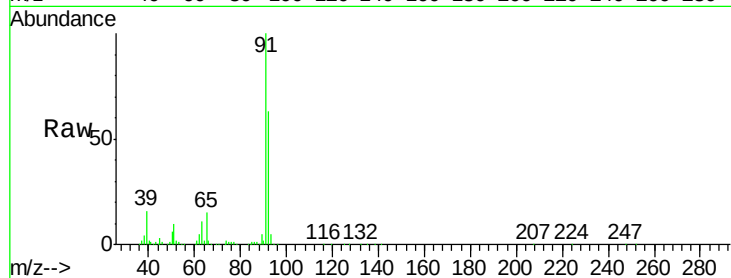
92 61.7 49.1 73.7

Manual Integrations

APPROVED

sam

8/18/2020 5:51:46 PM



#54

1,2-Dibromoethane

Concen: 8.906 ppbv

RT: 10.62 min Scan# 2437

Delta R.T. -0.01 min

Lab File: VL035399.D

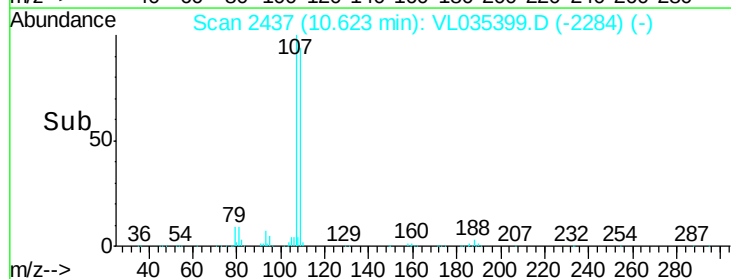
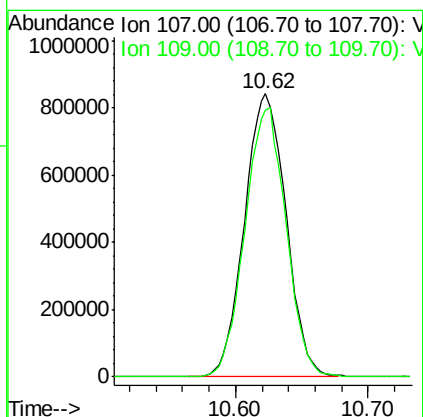
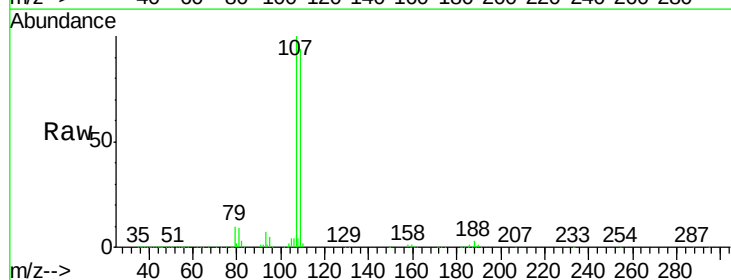
Acq: 13 Aug 2020 9:22

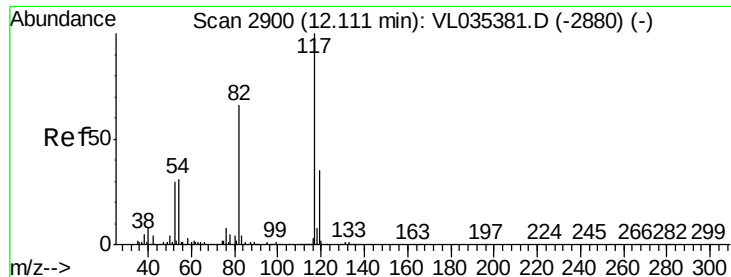
Tgt Ion: 107 Resp: 1841581

Ion Ratio Lower Upper

107 100

109 94.3 75.2 112.8





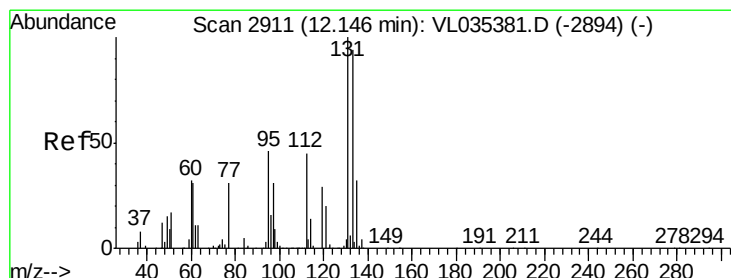
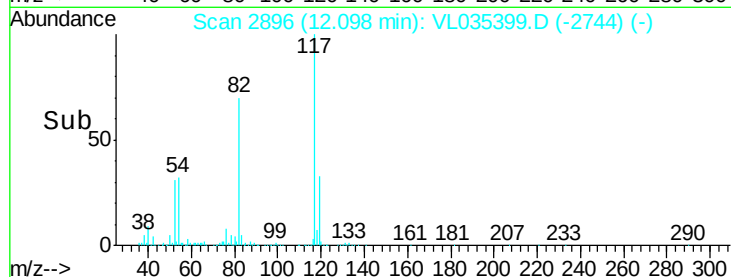
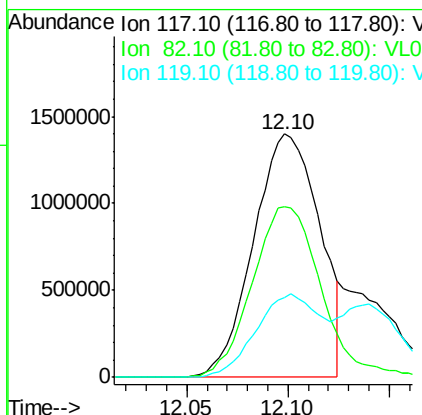
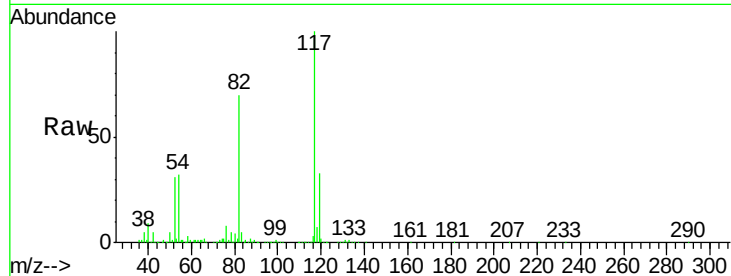
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.10 min Scan# 2896
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	73.4	53.0	79.6
119	33.7	25.7	38.5

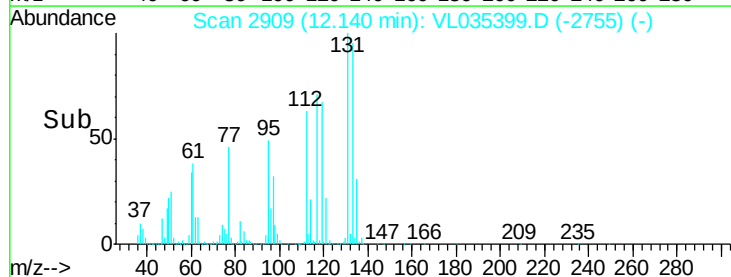
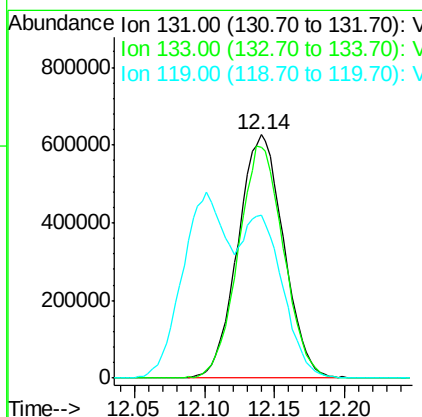
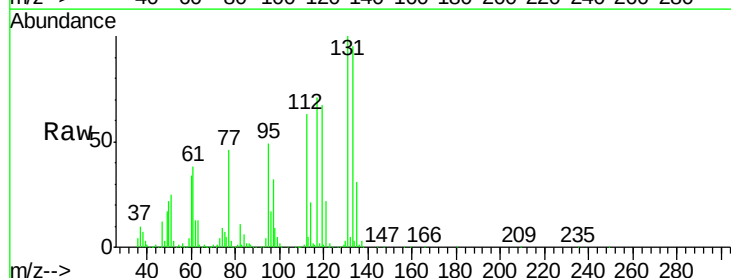
Manual Integrations
APPROVED

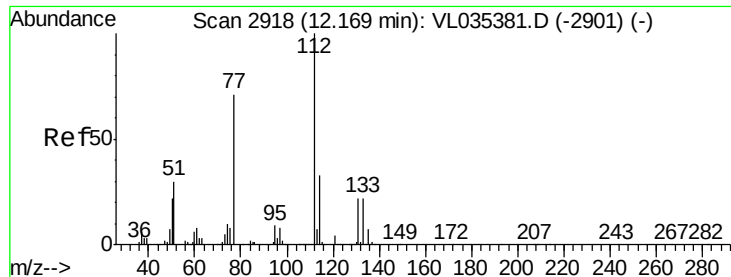
sam
8/18/2020 5:51:46 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.216 ppbv
RT: 12.14 min Scan# 2909
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.7	76.1	114.1
119	52.0	47.0	70.4





#57

Chlorobenzene

Concen: 8.995 ppbv

RT: 12.16 min Scan# 2916

Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Instrument :

MSVOA_L

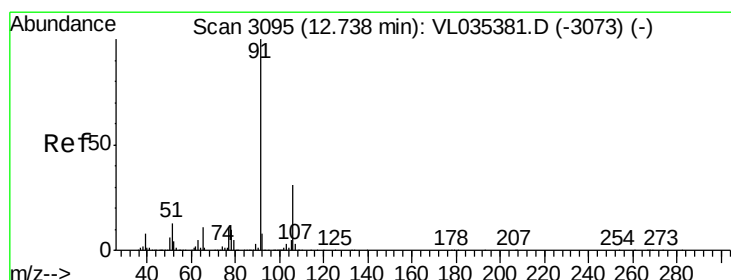
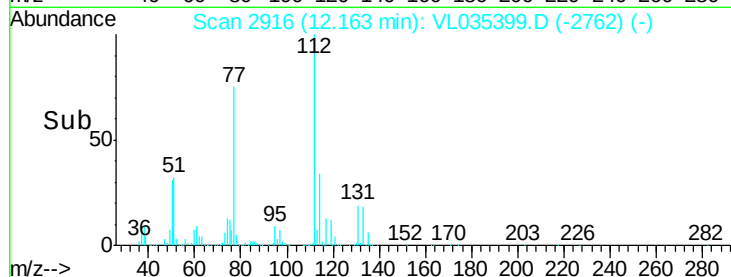
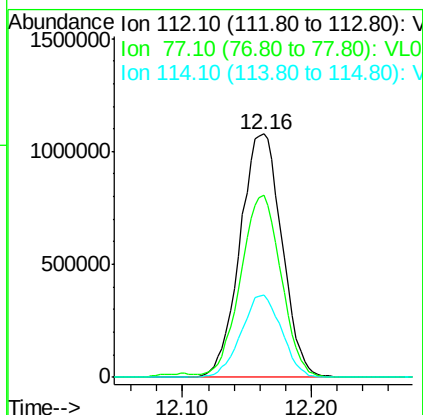
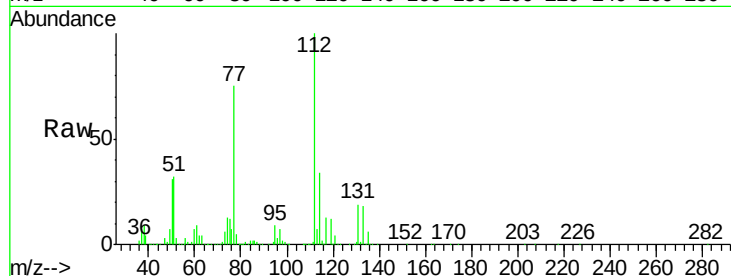
ClientSampleId :

VSTDCCC010

Tot Ion:	112	Resp:	2430846
Ion	Ratio	Lower	Upper
112	100		
77	74.9	57.6	86.4
114	33.8	30.0	36.6

Manual Integrations
APPROVED

sam
8/18/2020 5:51:46 PM



#58

Ethyl Benzene

Concen: 9.112 ppbv

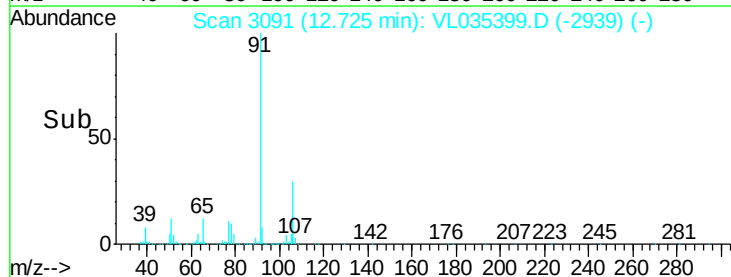
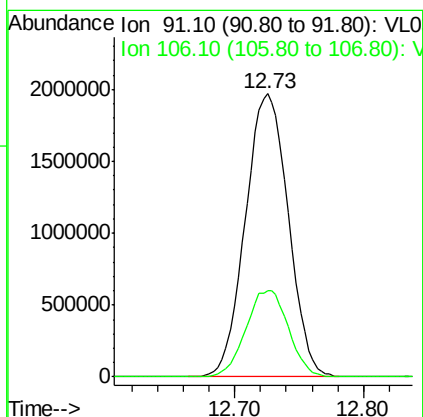
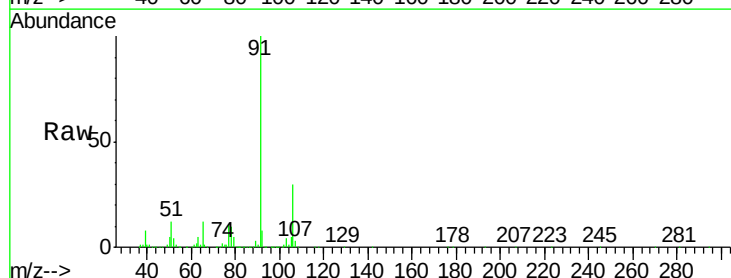
RT: 12.73 min Scan# 3091

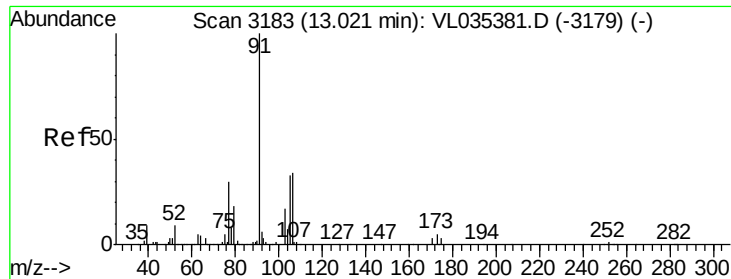
Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Tgt Ion:	91	Resp:	4565235
Ion	Ratio	Lower	Upper
91	100		
106	30.5	25.1	37.7





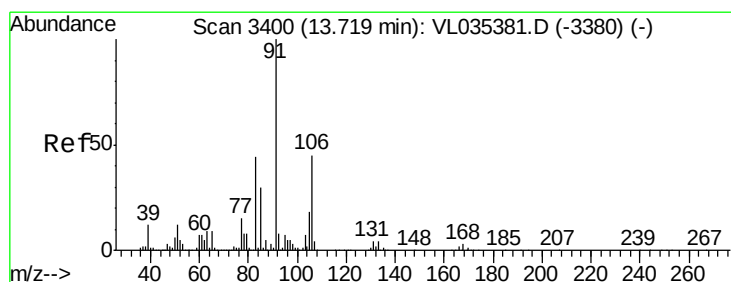
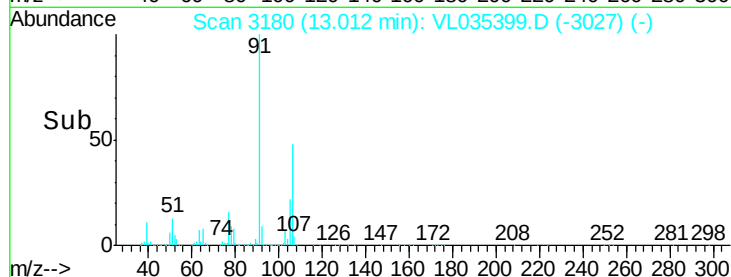
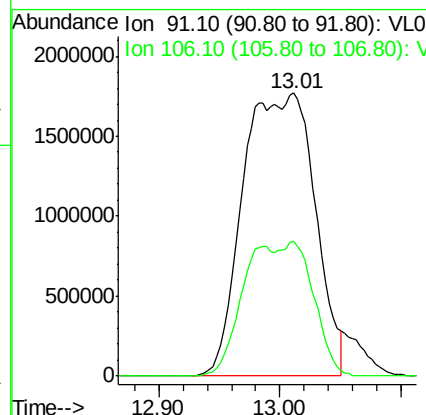
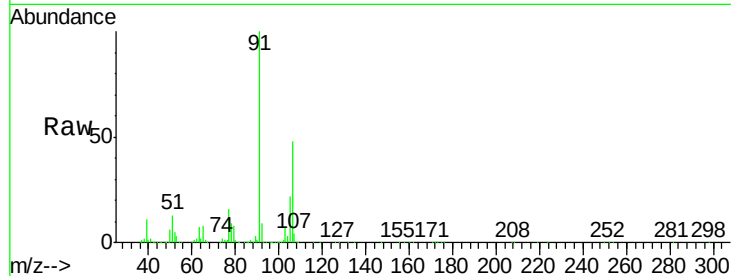
#59
m/p-Xylene
Concen: 17.510 ppbv m
RT: 13.01 min Scan# 3180
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 7315773
Ion Ratio Lower Upper
91 100
106 45.5 36.7 55.1

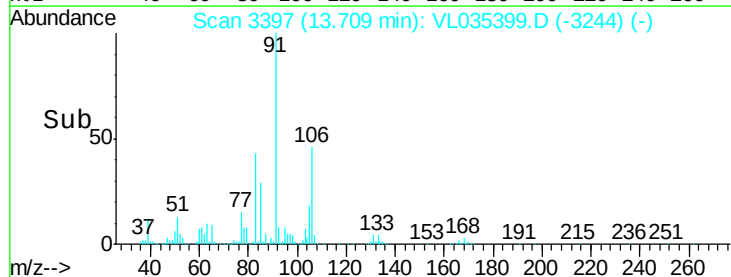
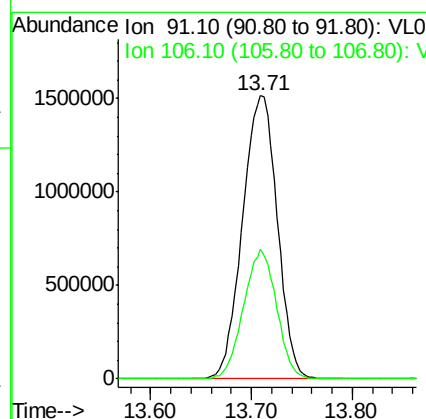
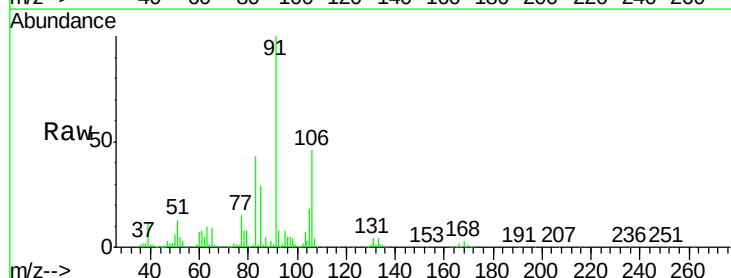
Manual Integrations
APPROVED

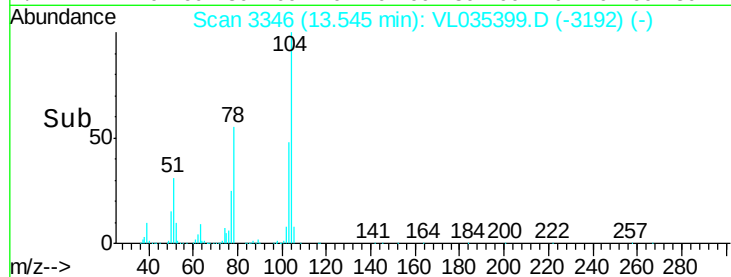
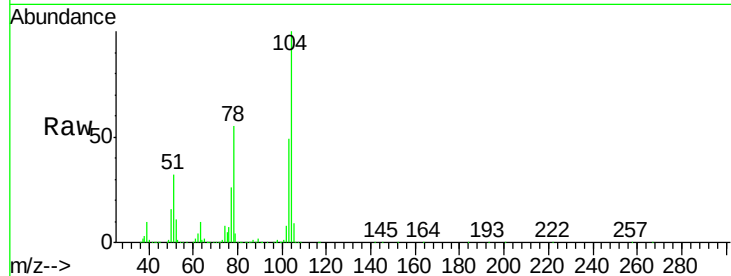
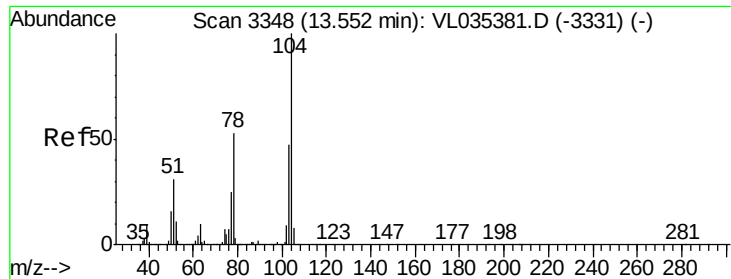
sam
8/18/2020 5:51:46 PM



#60
o-Xylene
Concen: 8.930 ppbv
RT: 13.71 min Scan# 3397
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Tgt Ion: 91 Resp: 3612798
Ion Ratio Lower Upper
91 100
106 43.4 22.2 66.6





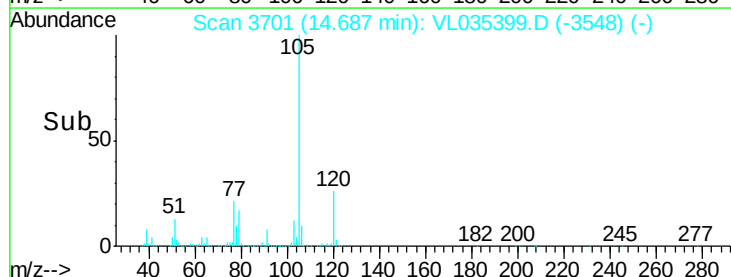
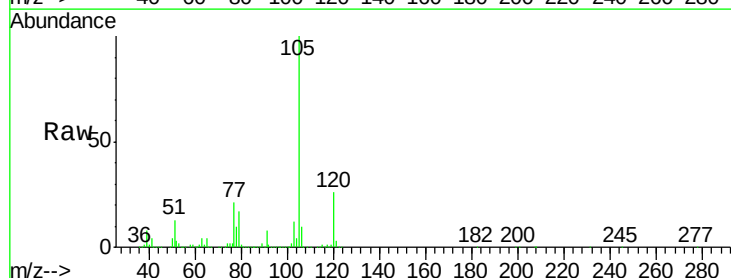
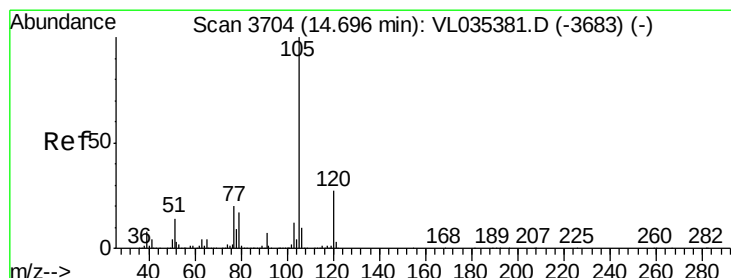
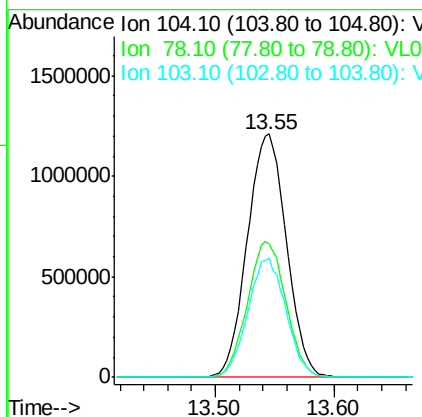
#61
Stvrene
Concen: 9.217 ppbv
RT: 13.55 min Scan# 3346
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Tot Ion:104 Resp: 2753062
Ion Ratio Lower Upper
104 100
78 55.0 43.0 64.4
103 47.6 37.9 56.9

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

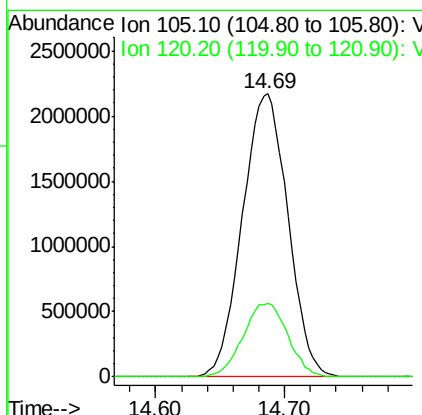
Manual Integrations
APPROVED

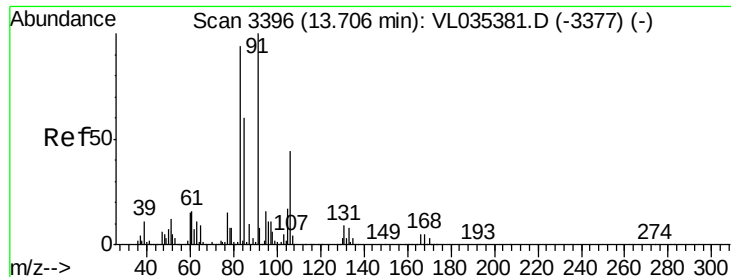
sam
8/18/2020 5:51:46 PM



#62
Isopropylbenzene
Concen: 8.793 ppbv
RT: 14.69 min Scan# 3701
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Tgt Ion:105 Resp: 5335901
Ion Ratio Lower Upper
105 100
120 25.6 21.1 31.7





#63

1,1,2,2-Tetrachloroethane

Concen: 8.642 ppbv

RT: 13.69 min Scan# 3392

Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2550409

Ion Ratio Lower Upper

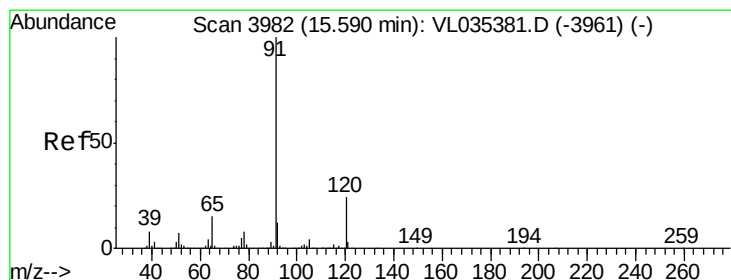
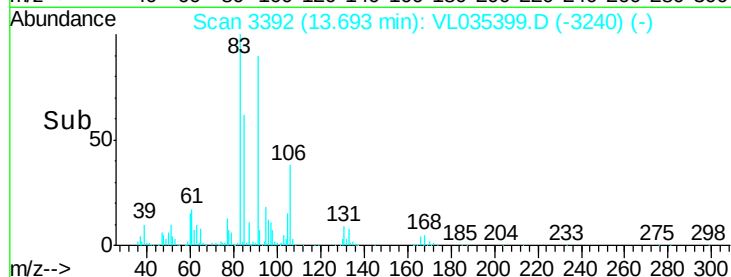
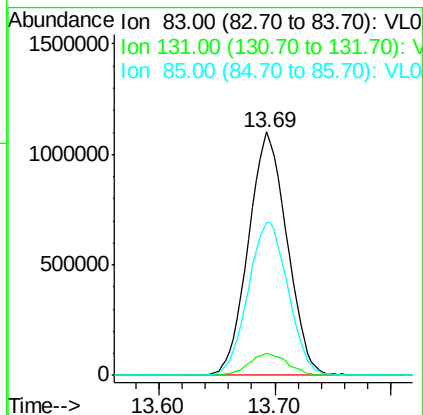
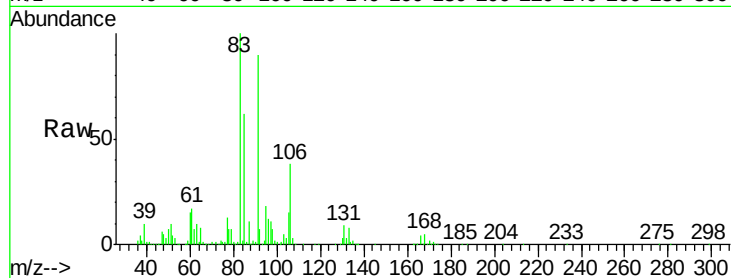
83 100

131 8.9 4.5 13.7

85 65.1 32.4 97.0

Manual Integrations
APPROVED

sam
8/18/2020 5:51:46 PM



#64

n-propylbenzene

Concen: 8.868 ppbv

RT: 15.58 min Scan# 3979

Delta R.T. -0.01 min

Lab File: VL035399.D

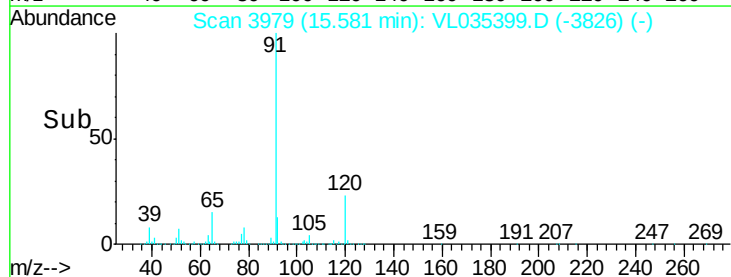
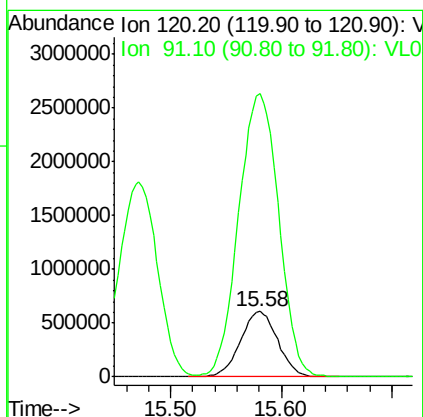
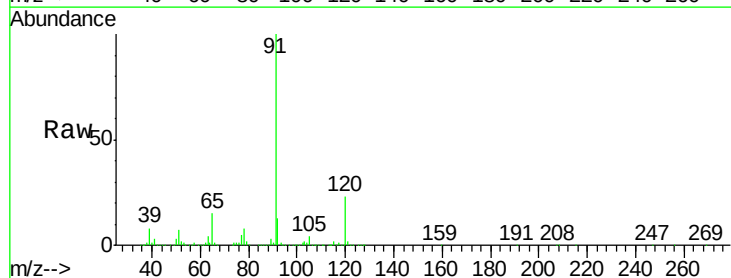
Acq: 13 Aug 2020 9:22

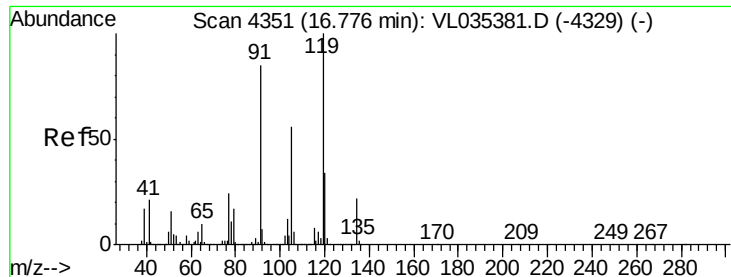
Tgt Ion: 120 Resp: 1419587

Ion Ratio Lower Upper

120 100

91 466.4 356.2 534.4





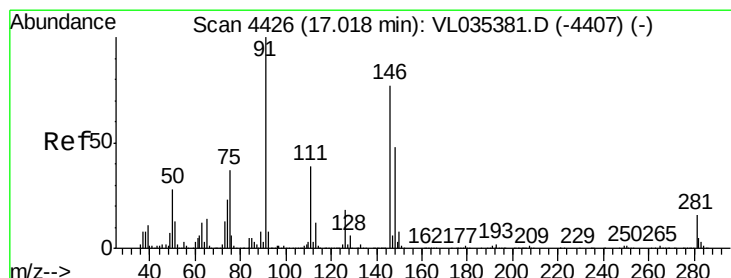
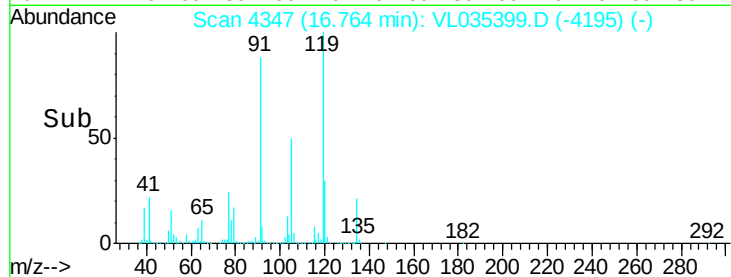
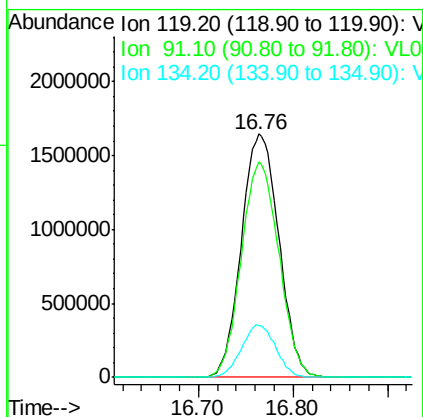
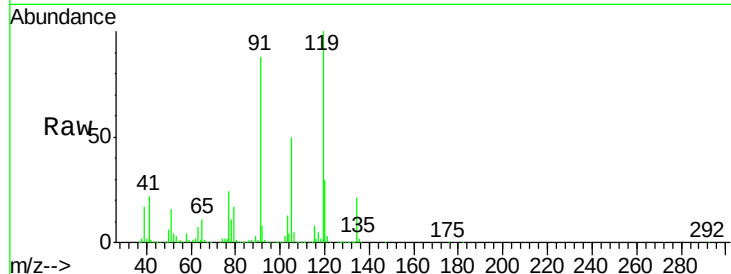
#65
tert-Butylbenzene
Concen: 8.481 ppbv
RT: 16.76 min Scan# 4347
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:119 Resp: 4530684
Ion Ratio Lower Upper
119 100
91 88.7 68.2 102.4
134 19.8 16.2 24.4

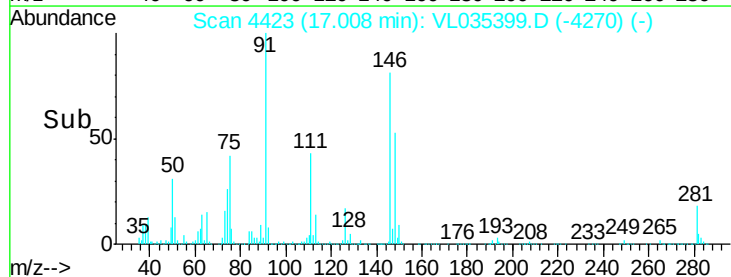
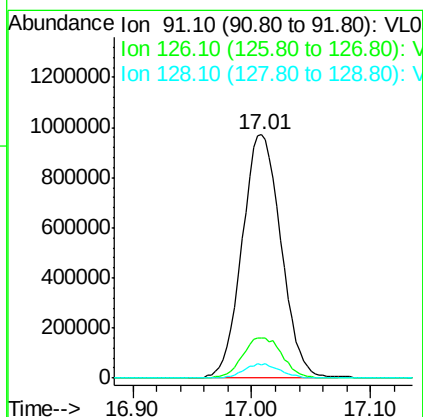
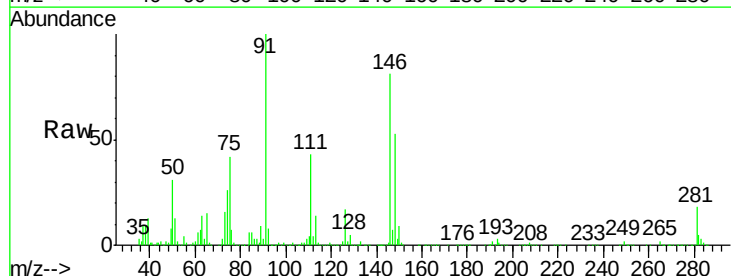
Manual Integrations
APPROVED

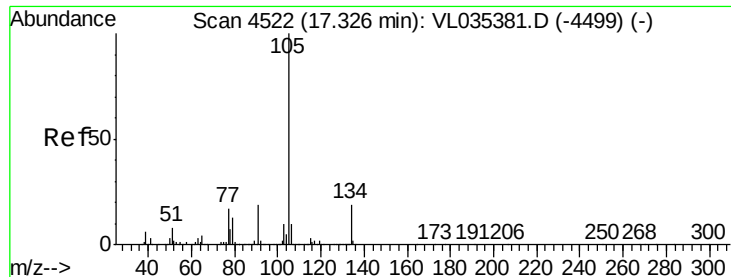
sam
8/18/2020 5:51:46 PM



#66
Benzyl Chloride
Concen: 9.088 ppbv
RT: 17.01 min Scan# 4423
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Tgt Ion: 91 Resp: 2192764
Ion Ratio Lower Upper
91 100
126 17.0 14.4 21.6
128 5.4 4.6 7.0





#67

sec-Butylbenzene

Concen: 8.550 ppbv

RT: 17.32 min Scan# 4519

Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 6584436

Ion Ratio Lower Upper

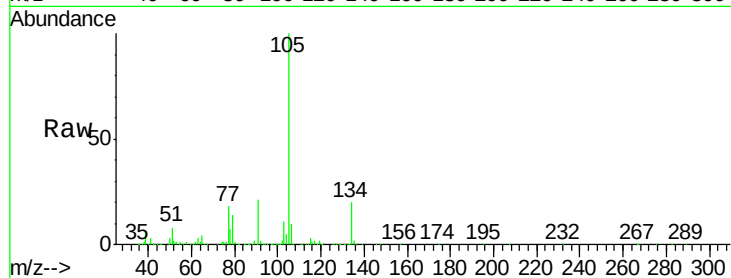
105 100

134 18.2 15.0 22.6

Manual Integrations
APPROVED

sam

8/18/2020 5:51:46 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.32

2500000

2000000

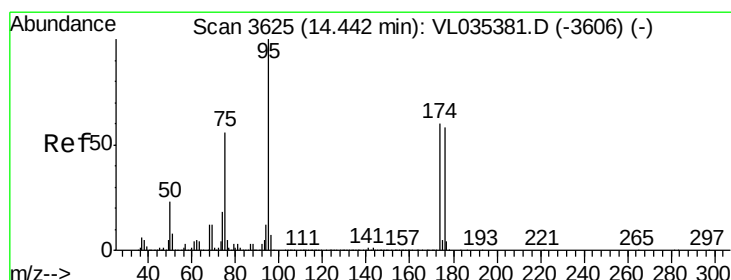
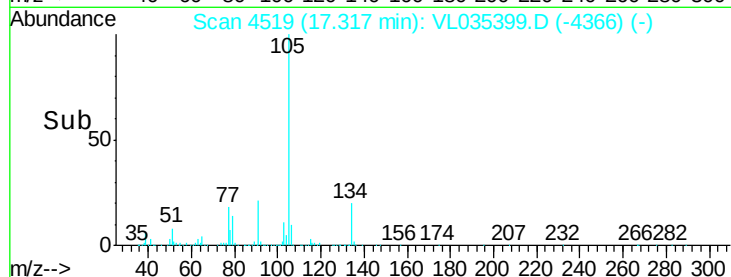
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.773 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

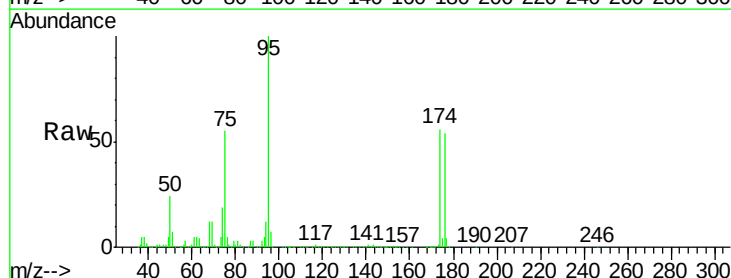
Tgt Ion: 95 Resp: 2757292

Ion Ratio Lower Upper

95 100

174 56.1 48.2 72.2

175 4.2 3.7 5.5



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

14.43

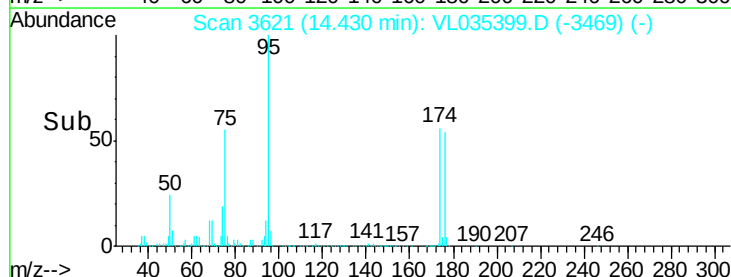
1500000

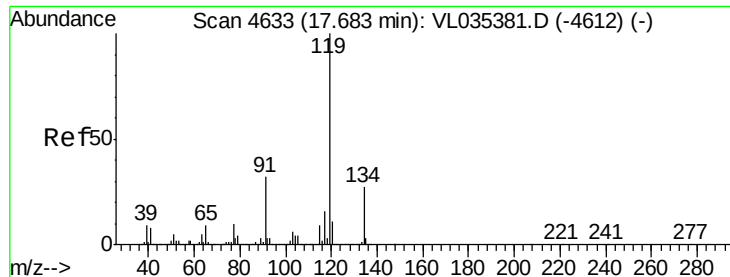
1000000

500000

0

Time-->





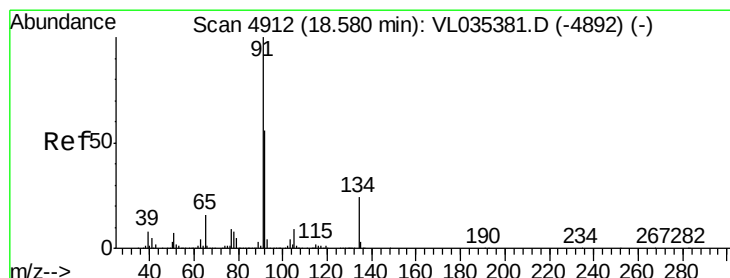
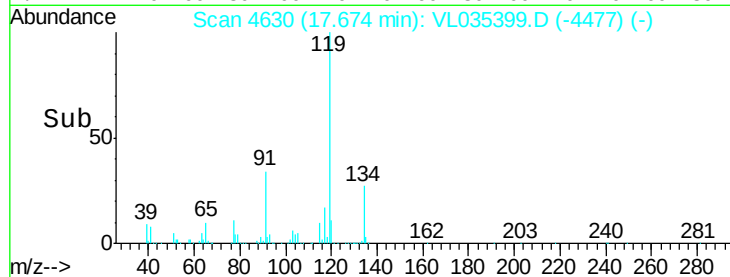
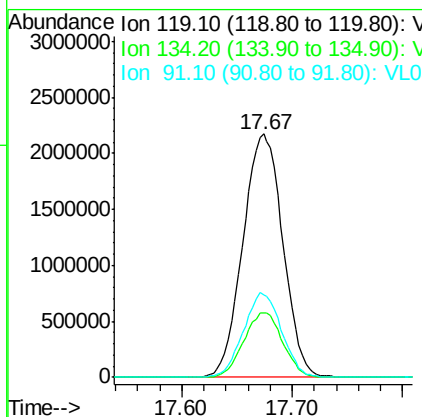
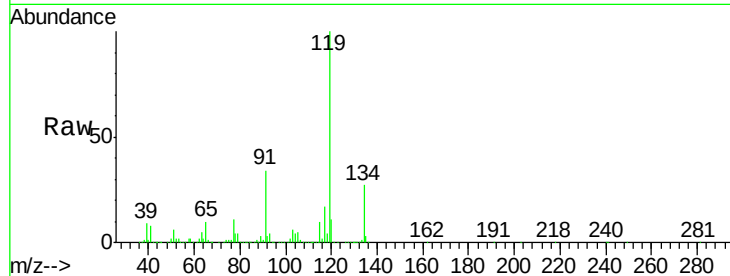
#69
 p-Isopropyltoluene
 Concen: 8.469 ppbv
 RT: 17.67 min Scan# 4630
 Delta R.T. -0.01 min
 Lab File: VL035399.D
 Acq: 13 Aug 2020 9:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.0	20.9	31.3
91	33.2	25.3	37.9

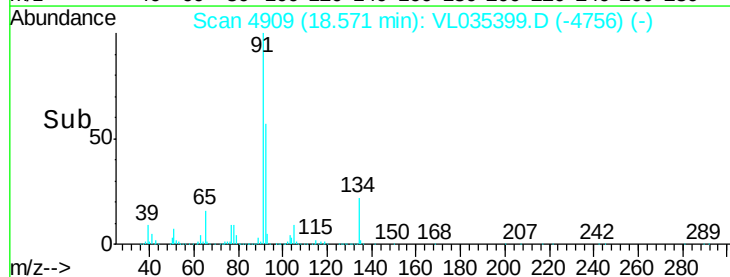
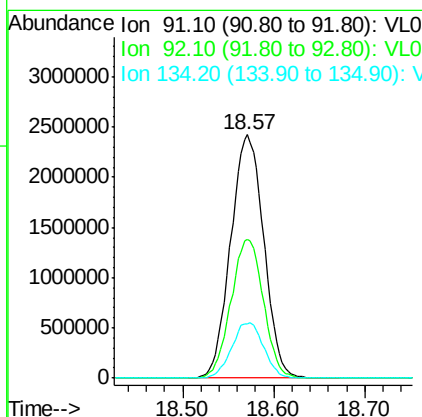
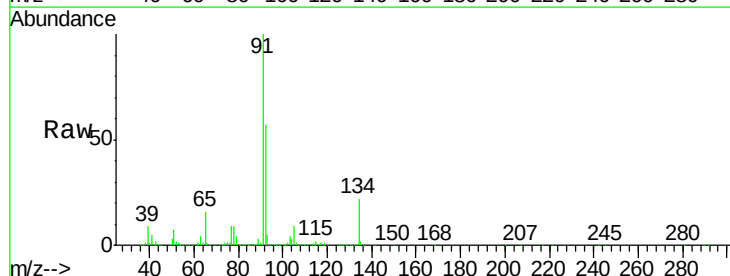
Manual Integrations
 APPROVED

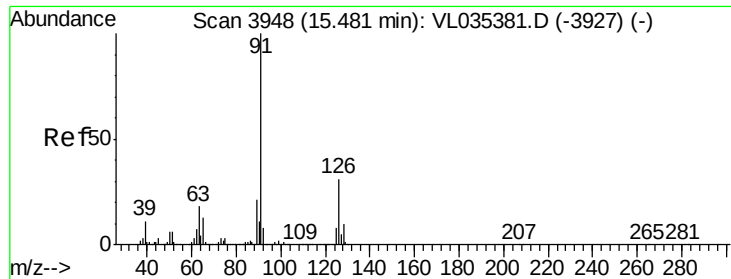
sam
 8/18/2020 5:51:46 PM



#70
 n-Butylbenzene
 Concen: 8.606 ppbv
 RT: 18.57 min Scan# 4909
 Delta R.T. -0.01 min
 Lab File: VL035399.D
 Acq: 13 Aug 2020 9:22

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.9	45.0	67.6
134	22.1	18.8	28.2





#71

2-Chlorotoluene

Concen: 8.998 ppbv

RT: 15.47 min Scan# 3945

Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 4395611

Ion Ratio Lower Upper

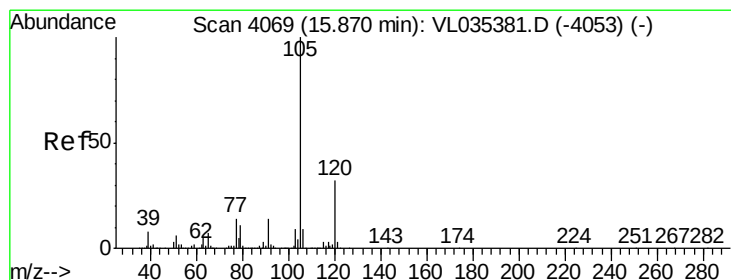
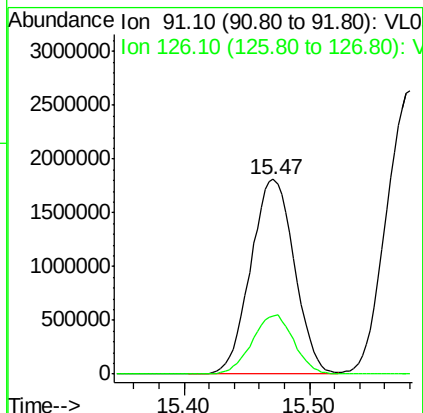
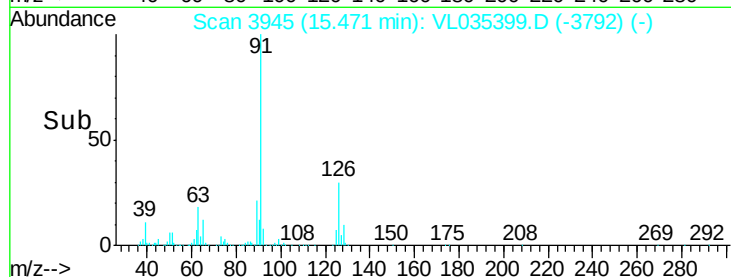
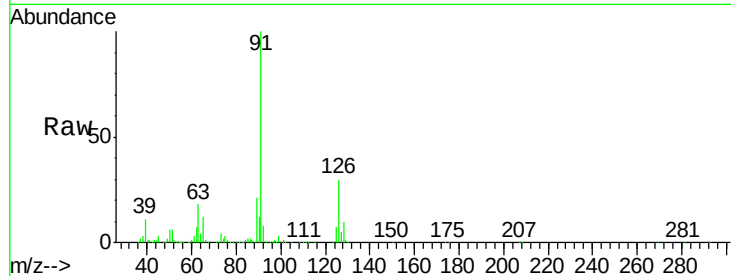
91 100

126 29.0 12.1 48.3

Manual Integrations
APPROVED

sam

8/18/2020 5:51:46 PM



#72

4-Ethyltoluene

Concen: 8.896 ppbv

RT: 15.86 min Scan# 4065

Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Tgt Ion: 105 Resp: 4393211

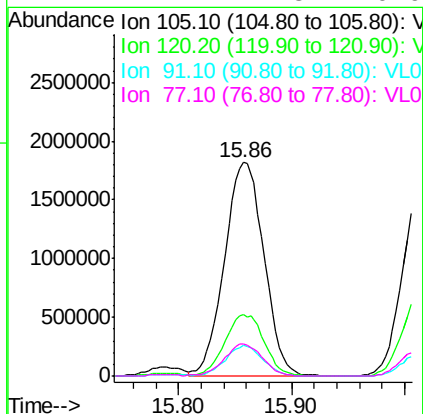
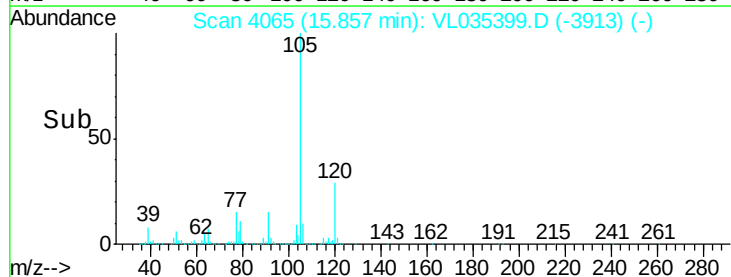
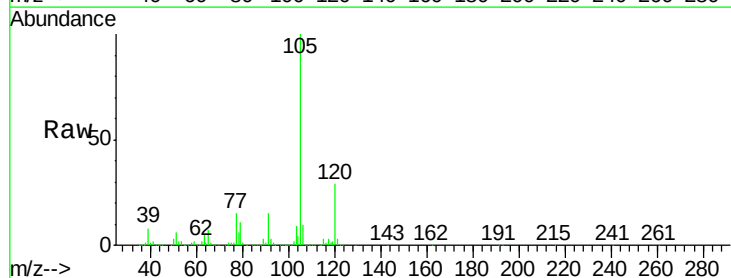
Ion Ratio Lower Upper

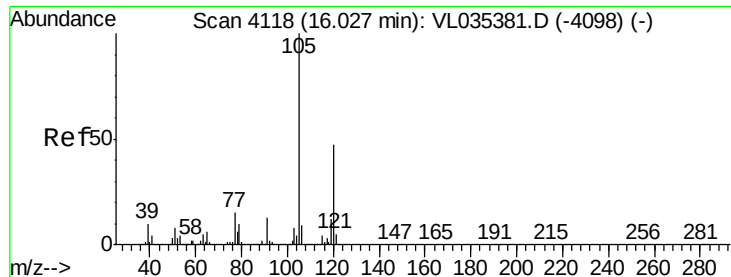
105 100

120 28.8 24.0 36.0

91 13.5 10.4 15.6

77 14.4 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 8.895 ppbv

RT: 16.01 min Scan# 4114

Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 4118602

Ion Ratio Lower Upper

105 100

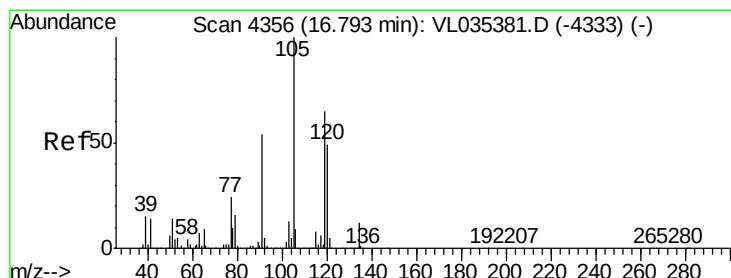
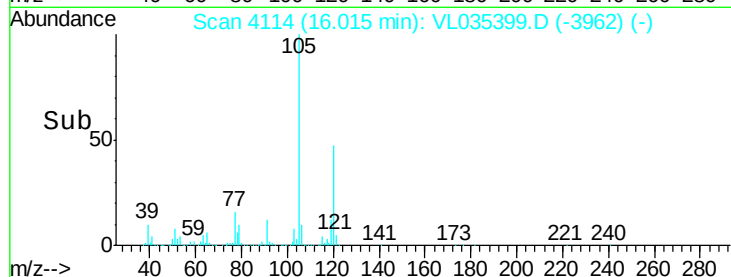
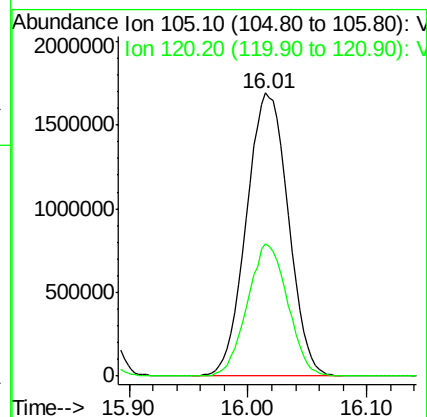
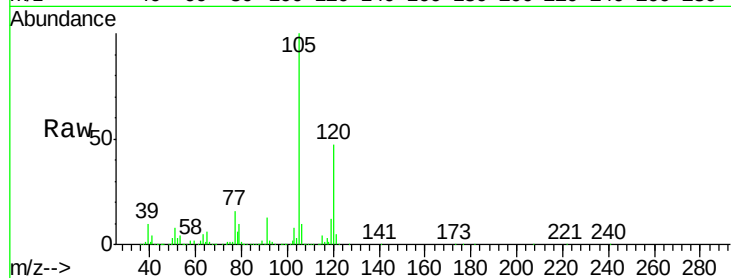
120 46.8 37.4 56.0

Manual Integrations

APPROVED

sam

8/18/2020 5:51:46 PM



#74

1,2,4-Trimethylbenzene

Concen: 8.463 ppbv

RT: 16.78 min Scan# 4353

Delta R.T. -0.01 min

Lab File: VL035399.D

Acq: 13 Aug 2020 9:22

Tgt Ion:105 Resp: 4121231

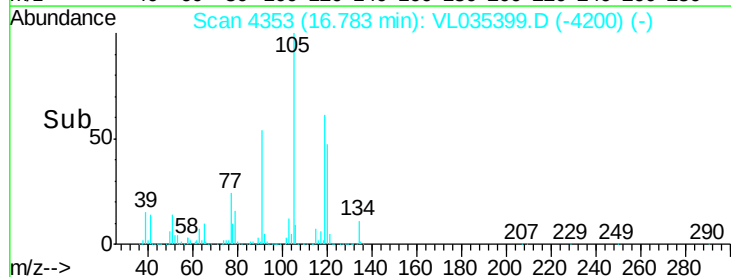
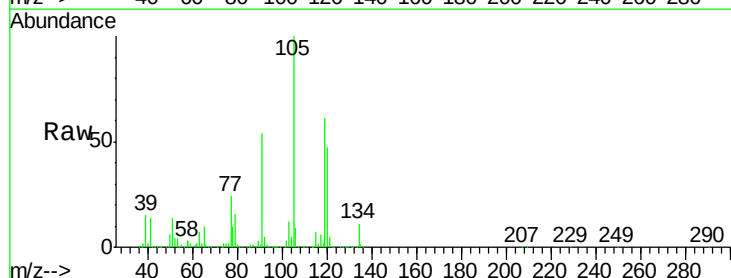
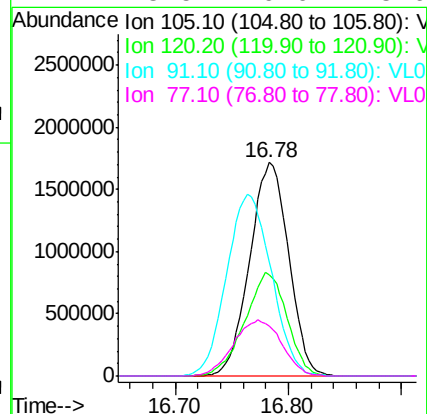
Ion Ratio Lower Upper

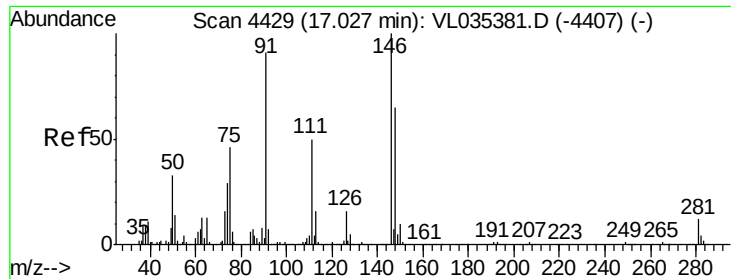
105 100

120 47.1 39.1 58.7

91 53.4 43.7 65.5

77 23.5 19.0 28.6





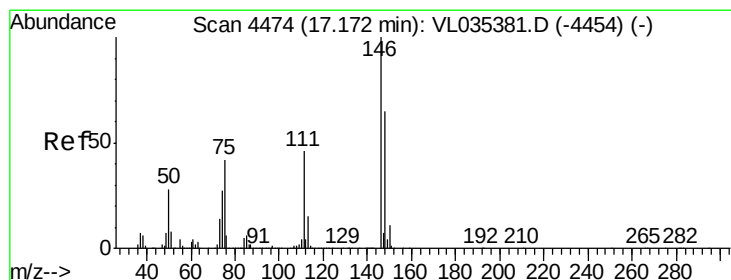
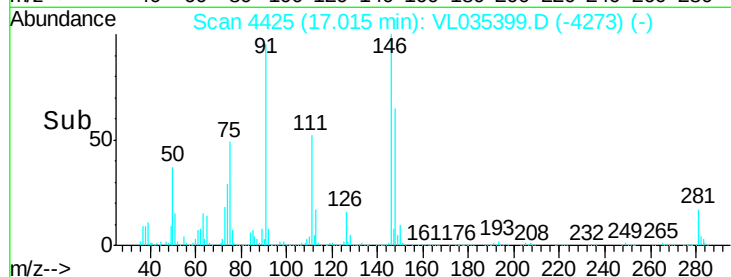
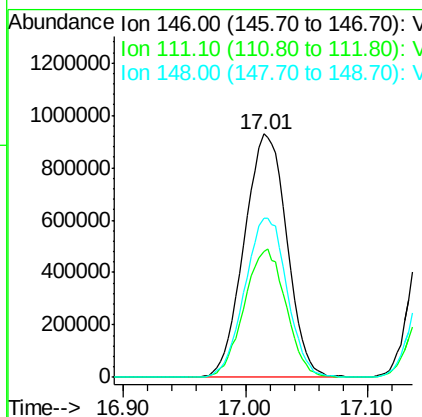
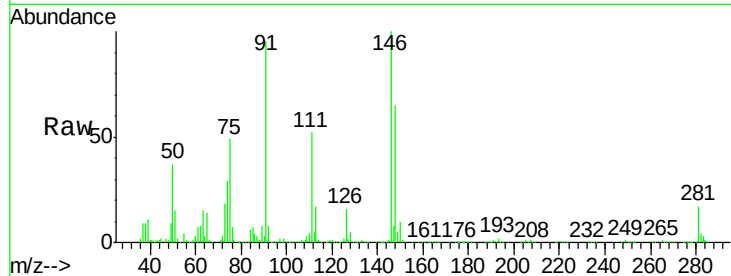
#75
 1,3-Dichlorobenzene
 Concen: 8.454 ppbv
 RT: 17.01 min Scan# 4425
 Delta R.T. -0.01 min
 Lab File: VL035399.D
 Acq: 13 Aug 2020 9:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 2246730
 Ion Ratio Lower Upper
 146 100
 111 51.6 25.0 75.0
 148 64.9 32.6 97.7

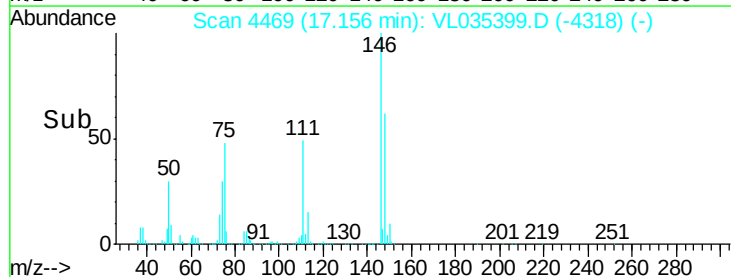
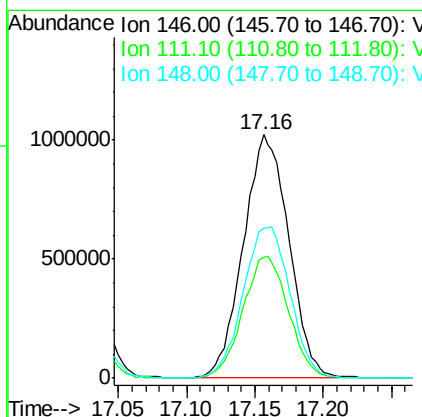
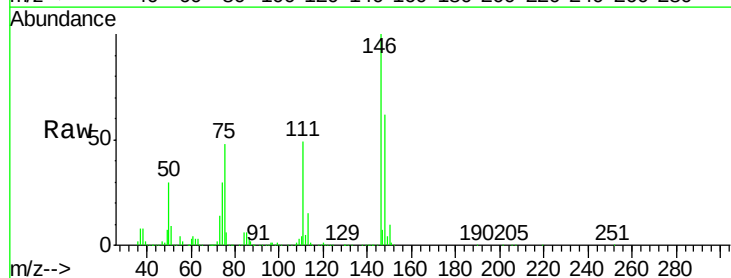
Manual Integrations
 APPROVED

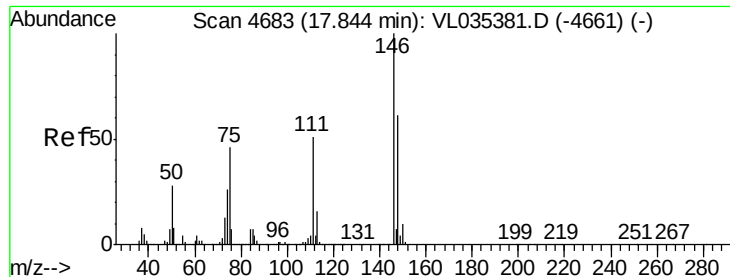
sam
 8/18/2020 5:51:46 PM



#76
 1,4-Dichlorobenzene
 Concen: 8.619 ppbv
 RT: 17.16 min Scan# 4469
 Delta R.T. -0.02 min
 Lab File: VL035399.D
 Acq: 13 Aug 2020 9:22

Tgt Ion:146 Resp: 2352856
 Ion Ratio Lower Upper
 146 100
 111 50.4 24.0 72.0
 148 64.4 32.5 97.5





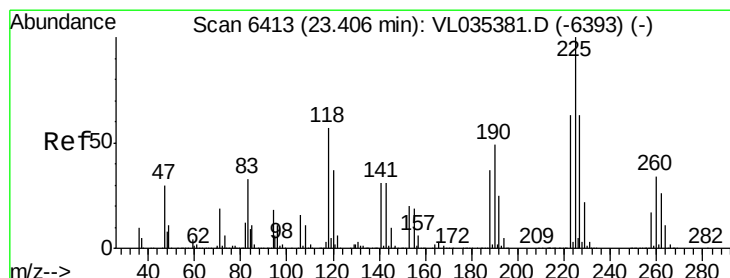
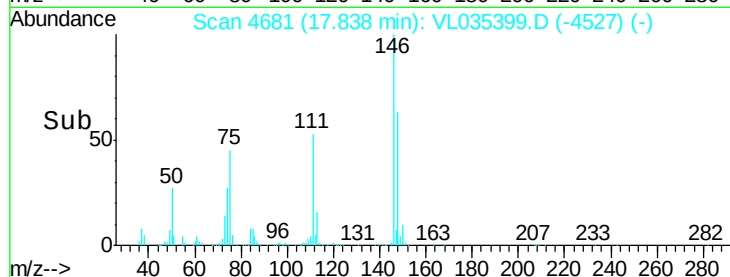
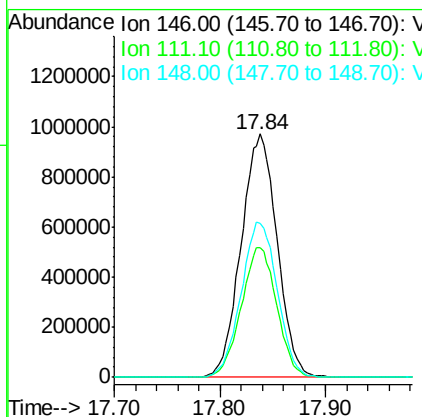
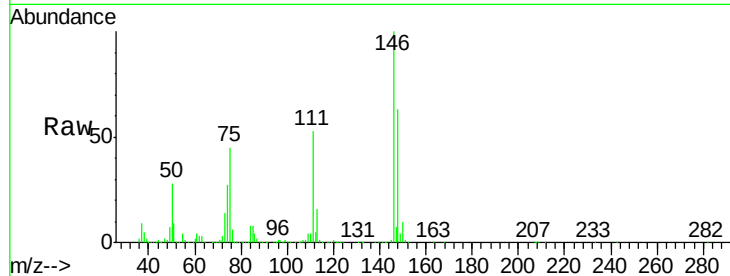
#77
 1,2-Dichlorobenzene
 Concen: 8.595 ppbv
 RT: 17.84 min Scan# 4681
 Delta R.T. -0.01 min
 Lab File: VL035399.D
 Acq: 13 Aug 2020 9:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	52.8	25.9	77.8
148	64.4	32.1	96.3

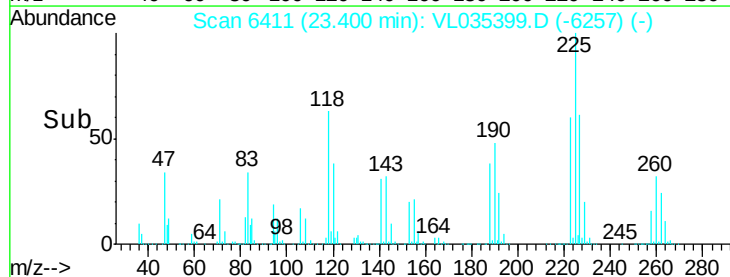
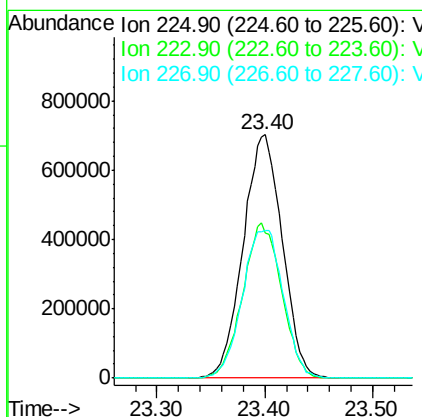
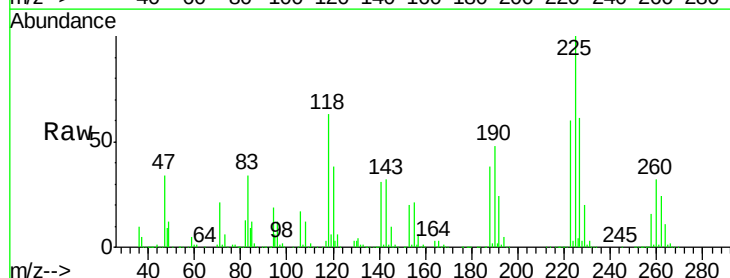
Manual Integrations
 APPROVED

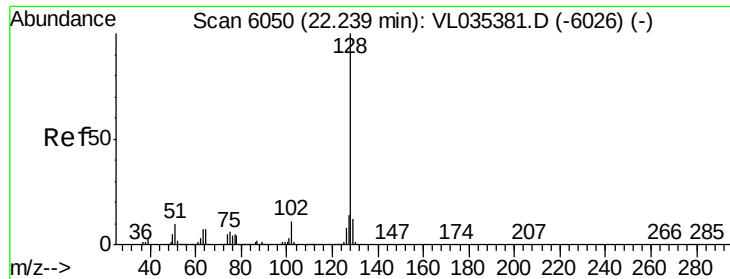
sam
 8/18/2020 5:51:46 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.003 ppbv
 RT: 23.40 min Scan# 6411
 Delta R.T. -0.01 min
 Lab File: VL035399.D
 Acq: 13 Aug 2020 9:22

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	51.0	76.6
227	63.7	51.0	76.6





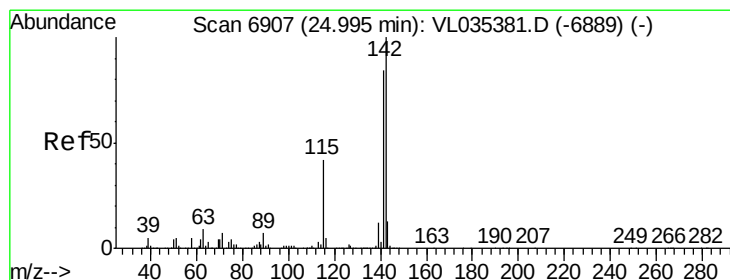
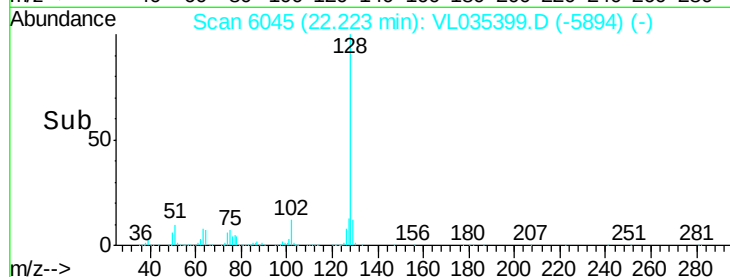
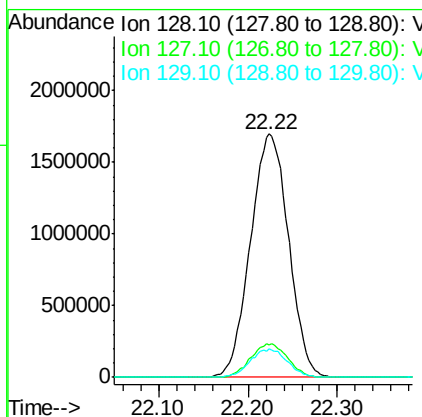
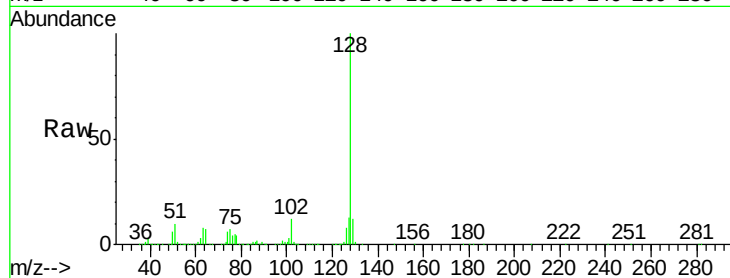
#79
Naphthalene
Concen: 8.312 ppbv
RT: 22.22 min Scan# 6045
Delta R.T. -0.02 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	11.0	16.4
129	11.7	9.2	13.8

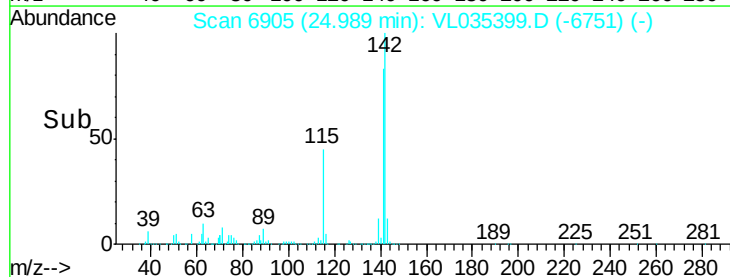
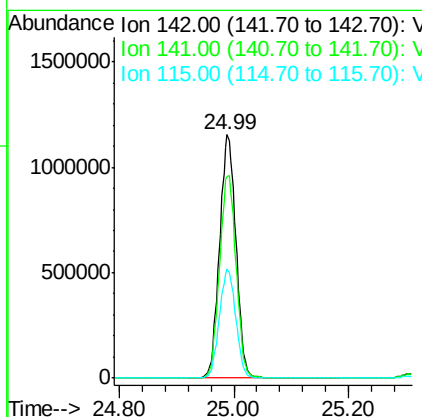
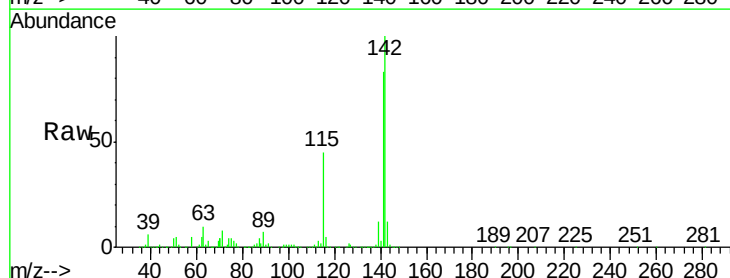
Manual Integrations
APPROVED

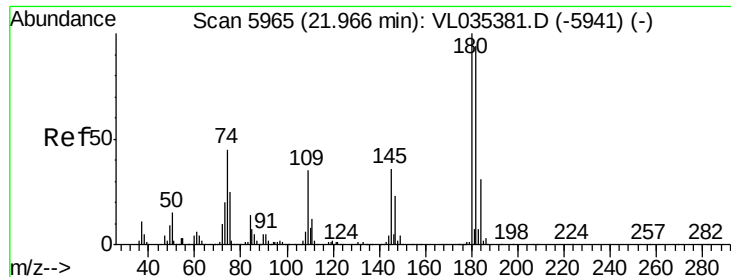
sam
8/18/2020 5:51:46 PM



#80
Naphthalene, 2-methyl-
Concen: 8.113 ppbv
RT: 24.99 min Scan# 6905
Delta R.T. -0.01 min
Lab File: VL035399.D
Acq: 13 Aug 2020 9:22

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.4	67.7	101.5
115	45.0	34.0	51.0





#81
 1,2,4-Trichlorobenzene
 Concen: 8.104 ppbv
 RT: 21.96 min Scan# 5962
 Delta R.T. -0.01 min
 Lab File: VL035399.D
 Acq: 13 Aug 2020 9:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.6	116.4
184	30.8	24.7	37.1

Manual Integrations
 APPROVED

sam
 8/18/2020 5:51:46 PM

