

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082720\
 Data File : VL035514.D
 Acq On : 27 Aug 2020 9:17
 Operator : SY/AP
 Sample : VL0823ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0827ABS01

Manual Integrations
 APPROVED

sam
 9/3/2020 5:43:12 PM

Quant Time: Aug 28 01:35:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 28 01:35:03 2020
 QLast Update : Thu Aug 27 06:46:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	997206	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	4469358	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	4632483m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	3317073	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	1405746	8.134	ppbv	100
3) Chlorodifluoromethane	2.99	51	1082150	9.812	ppbv	99
4) Chloromethane	3.14	50	582521	9.859	ppbv	99
5) Vinyl Chloride	3.26	62	682832	9.373	ppbv	100
6) Bromomethane	3.48	94	608966	9.952	ppbv	97
7) Chloroethane	3.56	64	256824	9.972	ppbv	96
8) Dichlorotetrafluoroethane	3.19	85	1983933	9.479	ppbv	100
9) Propene	3.02	41	420620	9.893	ppbv	99
10) Heptane	8.15	43	1161576	10.171	ppbv	100
11) Trichlorofluoromethane	3.96	101	2471389	9.806	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.50	101	1872448	9.844	ppbv	99
13) Ethanol	3.61	45	97132	9.214	ppbv	98
14) Bromoethene	3.75	108	843114	10.298	ppbv	99
15) Acetone	3.86	43	1005285	9.140	ppbv	100
16) 1,3-Butadiene	3.33	39	416696	10.178	ppbv	99
17) tert-Butyl alcohol	4.30	59	1340844	10.016	ppbv	100
18) 1,1-Dichloroethene	4.30	96	855892	10.218	ppbv	98
19) Isopropyl Alcohol	3.98	45	666635	10.160	ppbv	100
20) Methylene Chloride	4.36	84	677919	8.276	ppbv	98
21) Allyl Chloride	4.42	41	543279	10.544	ppbv	97
22) trans-1,2-Dichloroethene	4.90	96	903045	10.127	ppbv	98
23) Vinyl Acetate	5.09	43	1512429	10.714	ppbv	100
24) 1,1-Dichloroethane	5.02	63	1449315	9.977	ppbv	99
25) Ethyl Acetate	5.70	43	1892447	9.740	ppbv	100
26) Hexane	5.70	57	1074953	9.764	ppbv	100
27) Carbon Disulfide	4.56	76	1781966	11.280	ppbv	100
28) Methyl tert-Butyl Ether	5.05	73	1998929	10.418	ppbv	100
29) Chloroform	5.77	83	2229744	9.941	ppbv	100
30) Cyclohexane	7.15	84	1251079	10.608	ppbv	99
31) cis-1,2-Dichloroethene	5.57	61	1187338	10.512	ppbv	98
32) 1,1,1-Trichloroethane	6.53	97	2261187	10.392	ppbv	99
34) 2-Butanone	5.26	43	1330389	10.030	ppbv	100
35) Carbon Tetrachloride	7.04	117	2389380	10.637	ppbv	100
36) Benzene	6.92	78	2880253	9.956	ppbv	100
37) 1,2-Dichloroethane	6.33	62	1363782	9.887	ppbv	100
38) Trichloroethene	7.86	130	1541954	9.176	ppbv	98
39) 1,2-Dichloropropane	7.64	63	963148	9.855	ppbv	98
40) 1,4-Dioxane	7.85	88	505656	10.357	ppbv	93
41) Tetrahydrofuran	6.07	42	753449	10.712	ppbv	100
42) Bromodichloromethane	7.82	83	2383554	10.686	ppbv	99
43) Methyl Methacrylate	8.04	69	1198740	10.716	ppbv	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082720\
 Data File : VL035514.D
 Acq On : 27 Aug 2020 9:17
 Operator : SY/AP
 Sample : VL0823ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0827ABS01

Manual Integrations
 APPROVED

sam
 9/3/2020 5:43:12 PM

Quant Time: Aug 28 01:35:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 28 2020
 QLast Update : Thu Aug 27 06:46:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	3686253	9.684	ppbv	100
45) t-1,3-Dichloropropene	9.31	75	1366535	12.058	ppbv	99
46) cis-1,3-Dichloropropene	8.73	75	1616359	11.488	ppbv	98
47) 1,1,2-Trichloroethane	9.51	97	1428123	9.903	ppbv	99
48) Dibromochloromethane	10.34	129	2561246	11.285	ppbv	100
49) Bromoform	13.08	173	2455933	11.940	ppbv	100
50) 4-Methyl-2-Pentanone	8.77	43	1981573	10.317	ppbv	99
51) 2-Hexanone	10.17	43	1722593	10.934	ppbv	100
52) Tetrachloroethene	11.26	164	1648038	9.751	ppbv	99
53) Toluene	9.83	91	3730778	10.255	ppbv	100
54) 1,2-Dibromoethane	10.64	107	2318255	10.174	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.16	131	1992890	10.573	ppbv	98
57) Chlorobenzene	12.18	112	3232391	9.481	ppbv	100
58) Ethyl Benzene	12.74	91	4915815	10.291	ppbv	99
59) m/p-Xylene	13.03	91	7891981m	19.771	ppbv	
60) o-Xylene	13.73	91	4025540	10.013	ppbv	100
61) Styrene	13.56	104	3348769	10.891	ppbv	100
62) Isopropylbenzene	14.71	105	6279715	9.724	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.72	83	2798103	8.977	ppbv	100
64) n-propylbenzene	15.60	120	2030444	10.303	ppbv	98
65) tert-Butylbenzene	16.79	119	6012987	10.016	ppbv	99
66) Benzyl Chloride	17.03	91	2036682	13.651	ppbv	100
67) sec-Butylbenzene	17.34	105	7816971	9.774	ppbv	99
69) p-Isopropyltoluene	17.70	119	6966843	9.930	ppbv	100
70) n-Butylbenzene	18.59	91	6678205	9.882	ppbv	100
71) 2-Chlorotoluene	15.49	91	4773569	10.150	ppbv	100
72) 4-Ethyltoluene	15.88	105	5284858	10.340	ppbv	100
73) 1,3,5-Trimethylbenzene	16.04	105	4856385	10.273	ppbv	99
74) 1,2,4-Trimethylbenzene	16.81	105	5072714	9.771	ppbv	97
75) 1,3-Dichlorobenzene	17.04	146	3761074	9.781	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	3784779	9.980	ppbv	100
77) 1,2-Dichlorobenzene	17.86	146	3680384	9.879	ppbv	100
78) Hexachloro-1,3-Butadiene	23.42	225	2391919	10.056	ppbv	99
79) Naphthalene	22.25	128	6305700	10.947	ppbv	99
80) Naphthalene, 2-methyl-	25.01	142	2527998	12.858	ppbv	99
81) 1,2,4-Trichlorobenzene	21.98	180	3621722	10.499	ppbv	100

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



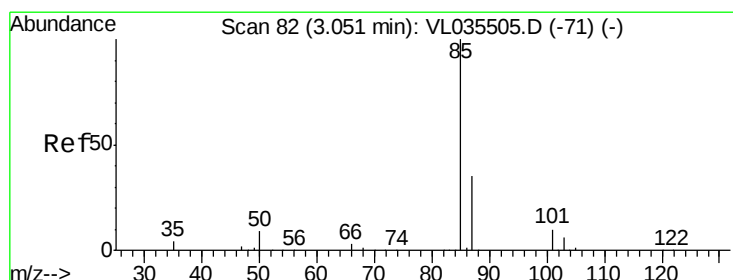
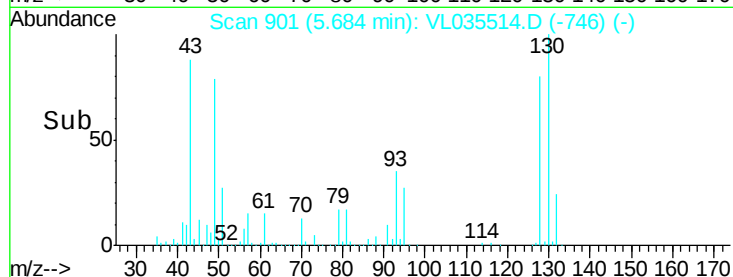
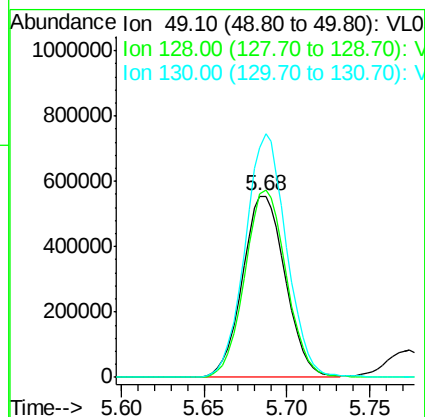
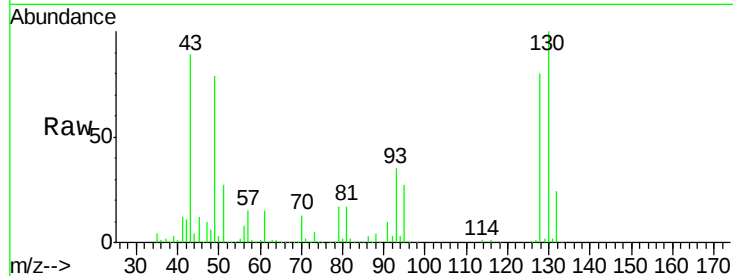
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL035514.D
Acq: 27 Aug 2020 9:17

Instrument :
MSVOA_L
ClientSampleId :
VL0827ABS01

Tot Ion	Ratio	Lower	Upper
49	100		
128	100.8	50.0	150.1
130	129.7	64.4	193.2

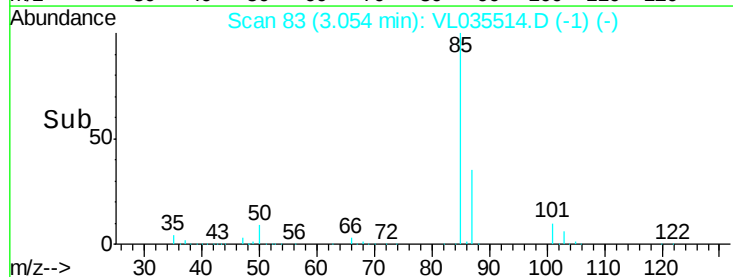
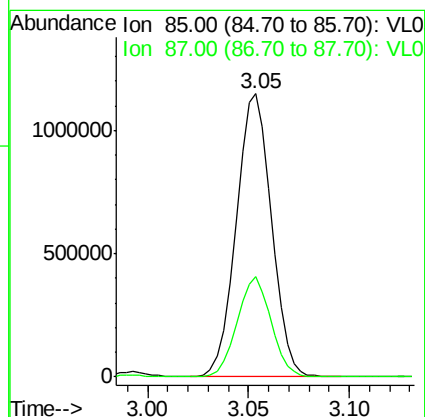
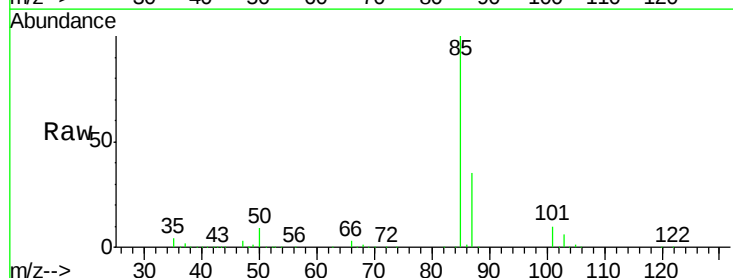
Manual Integrations
APPROVED

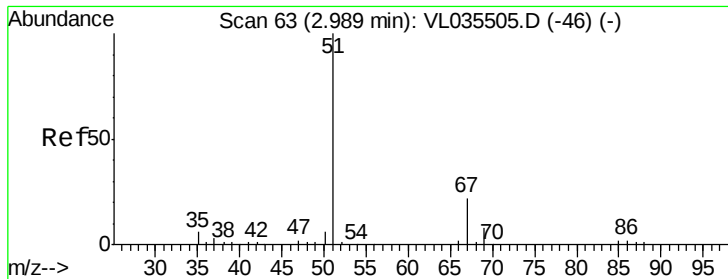
sam
9/3/2020 5:43:12 PM



#2
Dichlorodifluoromethane
Concen: 8.134 ppbv
RT: 3.05 min Scan# 83
Delta R.T. 0.00 min
Lab File: VL035514.D
Acq: 27 Aug 2020 9:17

Tgt Ion	Ratio	Lower	Upper
85	100		
87	35.2	28.0	42.0





#3

Chlorodifluoromethane

Concen: 9.812 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Tot Ion: 51 Resp: 1082150

Ion Ratio Lower Upper

51 100

67 22.9 17.8 26.8

Instrument :

MSVOA_L

ClientSampleId :

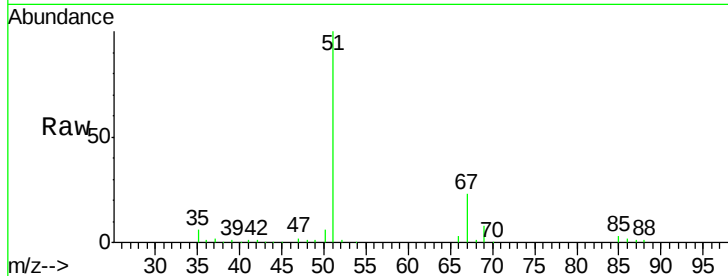
VL0827ABS01

Manual Integrations

APPROVED

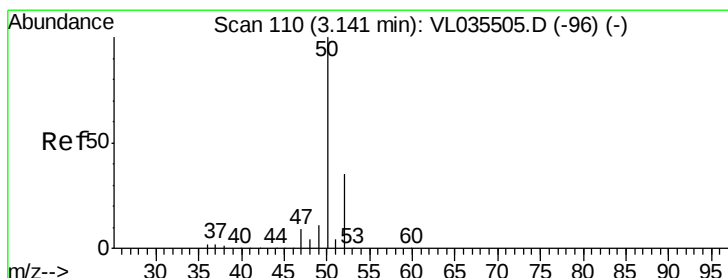
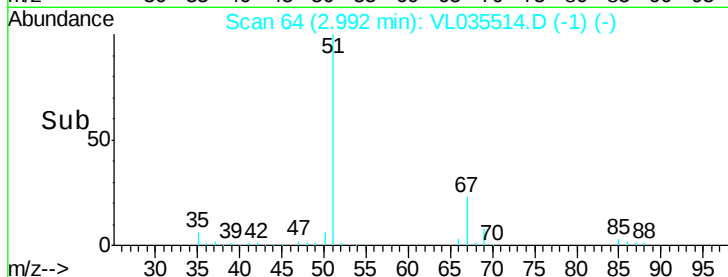
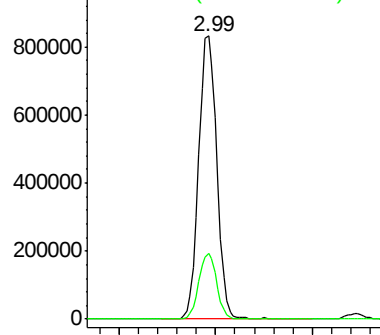
sam

9/3/2020 5:43:12 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.859 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL035514.D

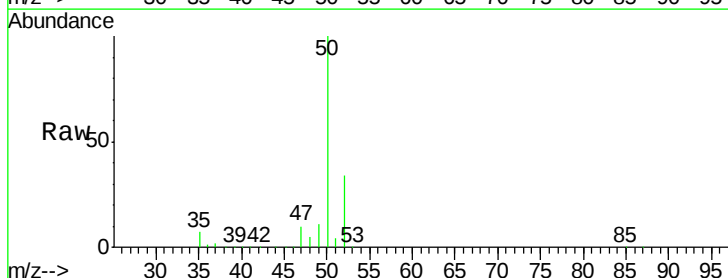
Acq: 27 Aug 2020 9:17

Tgt Ion: 50 Resp: 582521

Ion Ratio Lower Upper

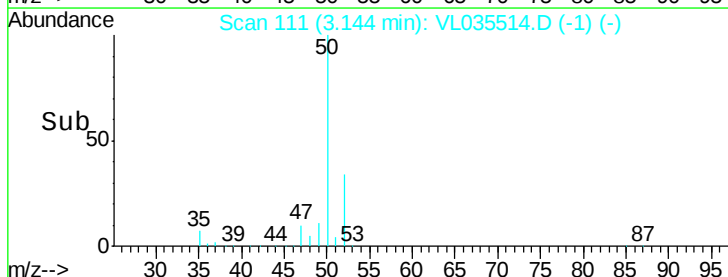
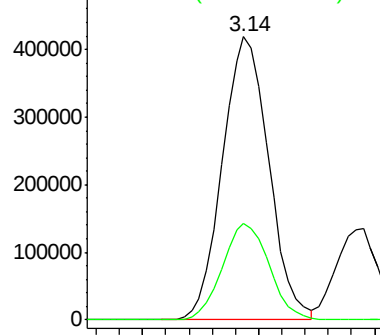
50 100

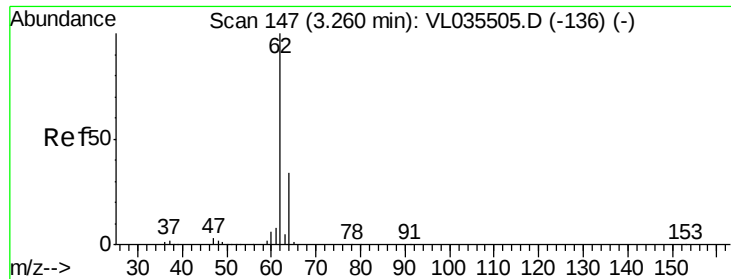
52 34.0 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.373 ppbv

RT: 3.26 min Scan# 148

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Instrument :

MSVOA_L

ClientSampleID :

VL0827ABS01

Tot Ion: 62 Resp: 682832

Ion Ratio Lower Upper

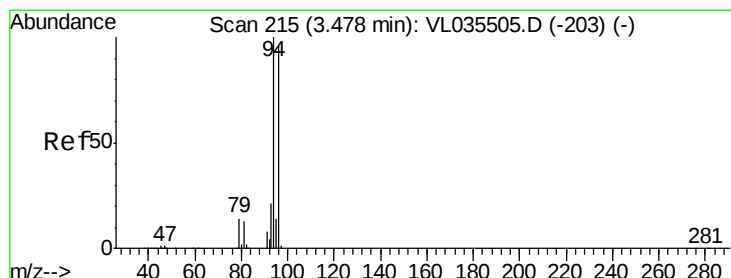
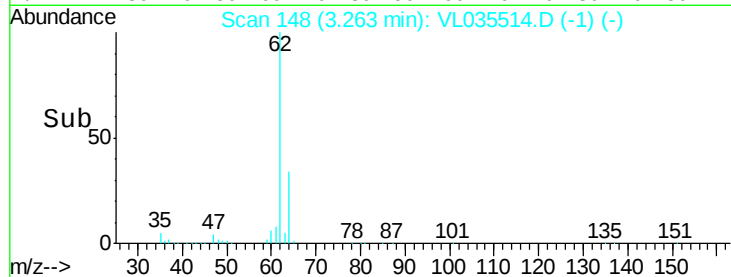
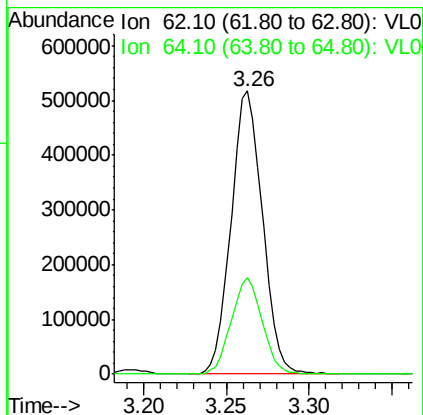
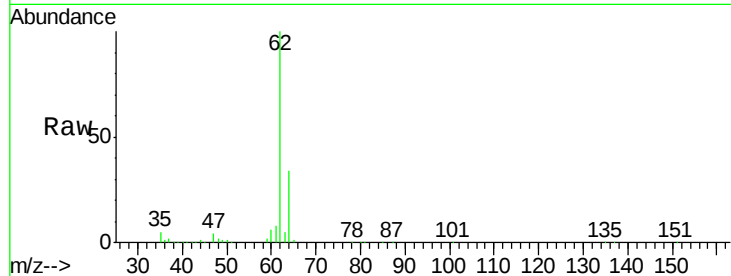
62 100

64 34.0 27.4 41.2

Manual Integrations
APPROVED

sam

9/3/2020 5:43:12 PM



#6

Bromomethane

Concen: 9.952 ppbv

RT: 3.48 min Scan# 215

Delta R.T. -0.00 min

Lab File: VL035514.D

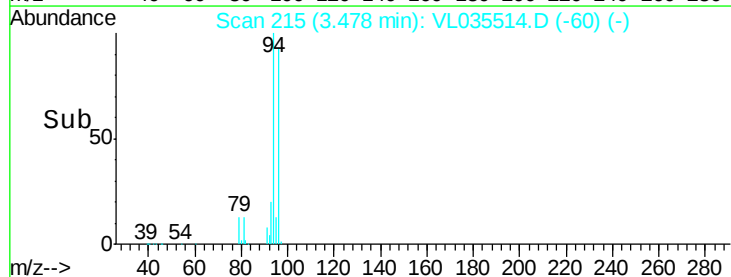
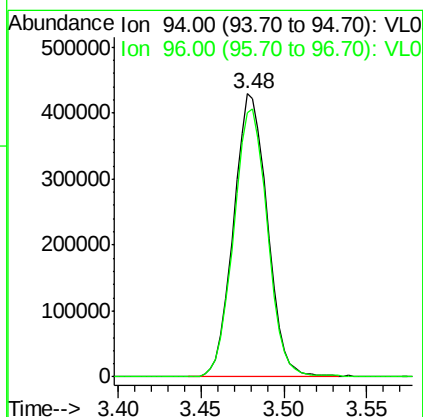
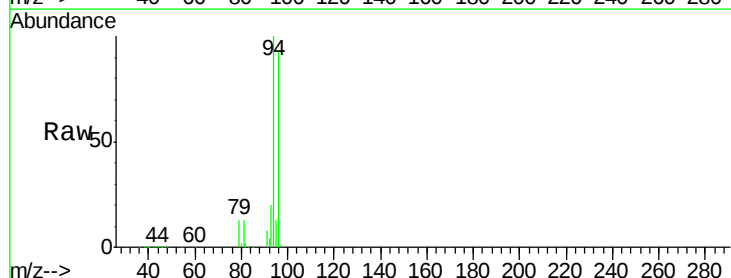
Acq: 27 Aug 2020 9:17

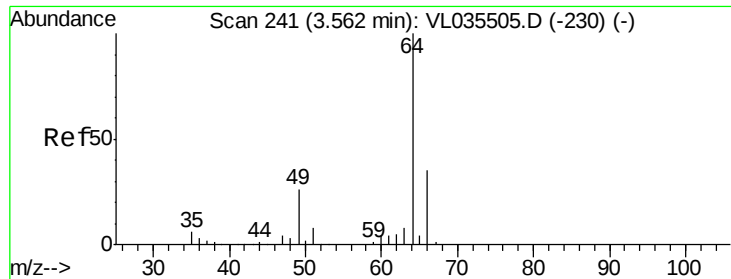
Tgt Ion: 94 Resp: 608966

Ion Ratio Lower Upper

94 100

96 93.4 77.1 115.7





#7

Chloroethane

Concen: 9.972 ppbv

RT: 3.56 min Scan# 242

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Instrument :

MSVOA_L

ClientSampleId :

VL0827ABS01

Tot Ion: 64 Resp: 256824

Ion Ratio Lower Upper

64 100

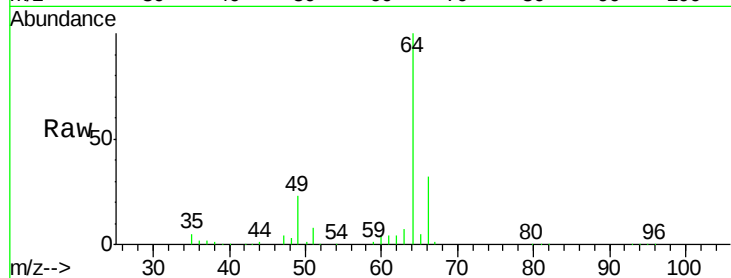
66 32.1 27.7 41.5

Manual Integrations

APPROVED

sam

9/3/2020 5:43:12 PM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.56

200000

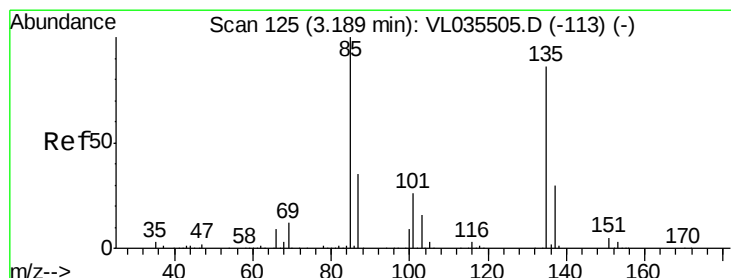
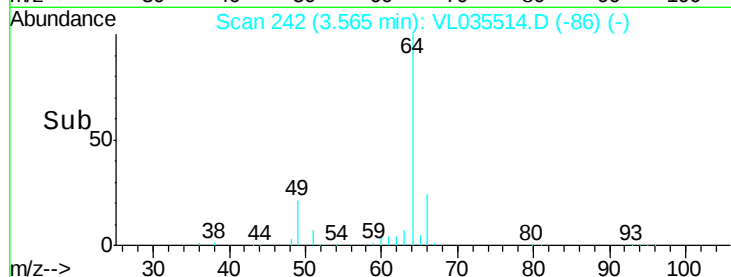
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.479 ppbv

RT: 3.19 min Scan# 126

Delta R.T. 0.00 min

Lab File: VL035514.D

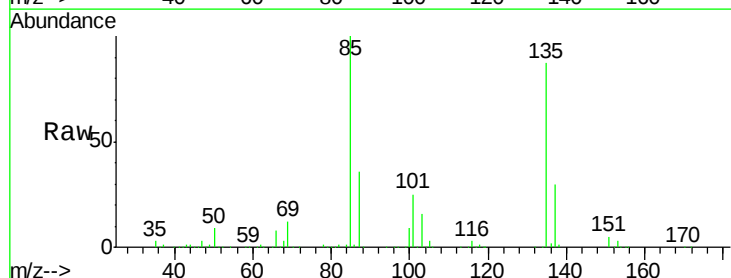
Acq: 27 Aug 2020 9:17

Tgt Ion: 85 Resp: 1983933

Ion Ratio Lower Upper

85 100

135 88.5 70.4 105.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.19

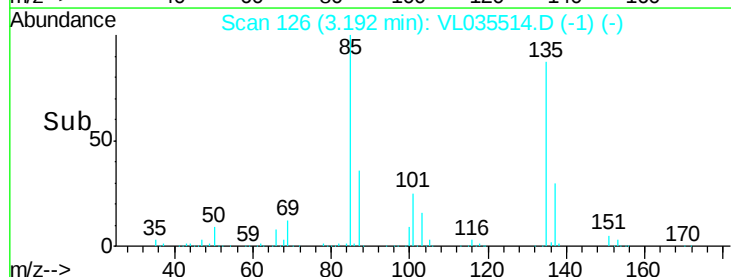
1500000

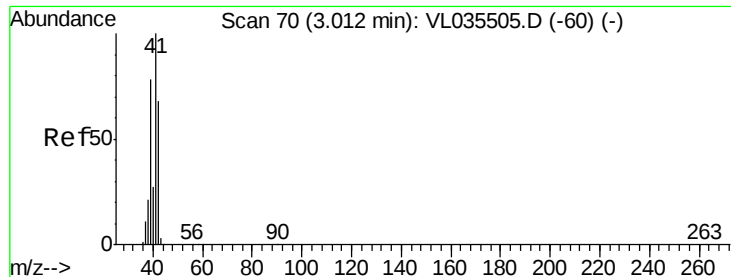
1000000

500000

0

Time-->





#9

Propene

Concen: 9.893 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Tot Ion: 41 Resp: 420620

Ion Ratio Lower Upper

41 100

42 69.3 56.3 84.5

Instrument :

MSVOA_L

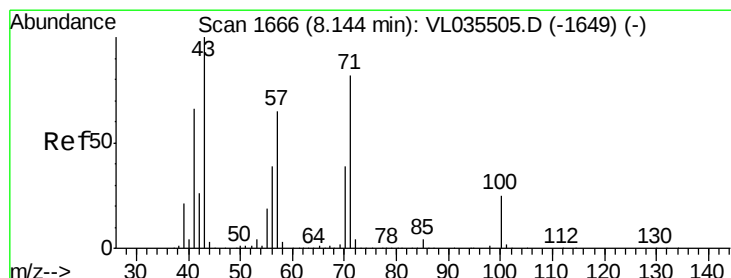
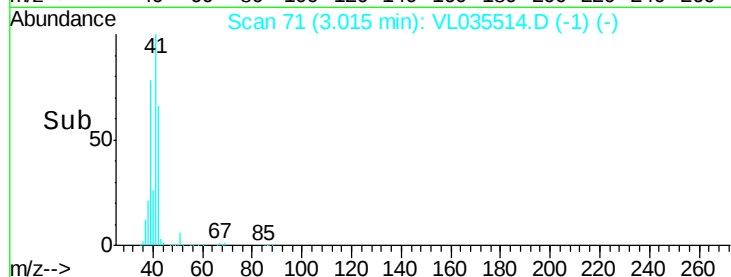
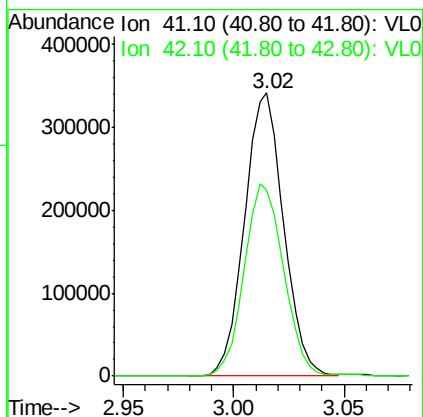
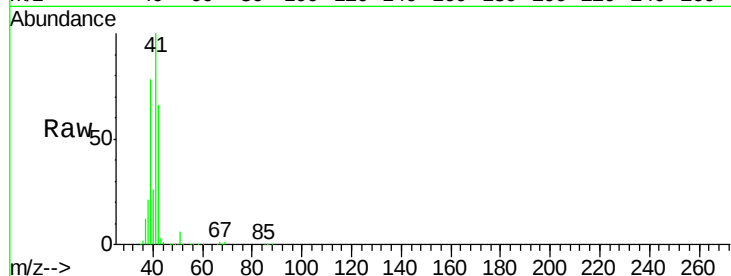
ClientSampleId :

VL0827ABS01

Manual Integrations
APPROVED

sam

9/3/2020 5:43:12 PM



#10

Heptane

Concen: 10.171 ppbv

RT: 8.15 min Scan# 1668

Delta R.T. 0.01 min

Lab File: VL035514.D

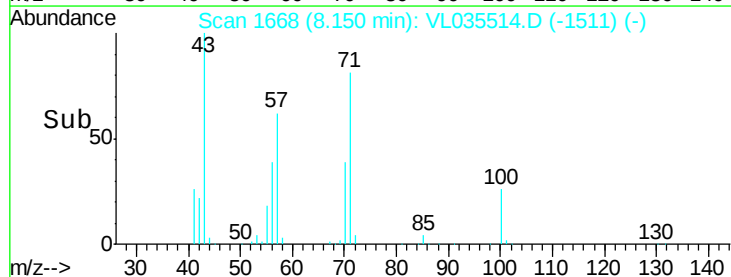
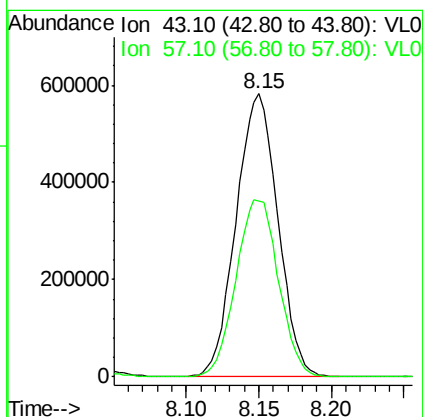
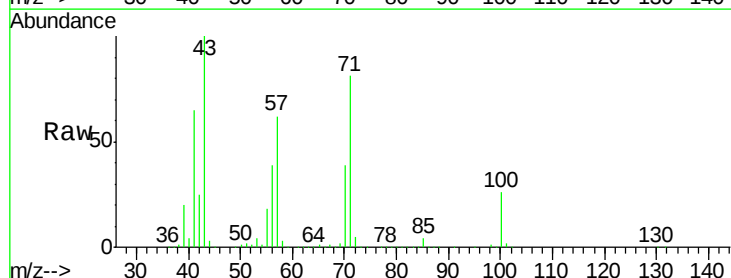
Acq: 27 Aug 2020 9:17

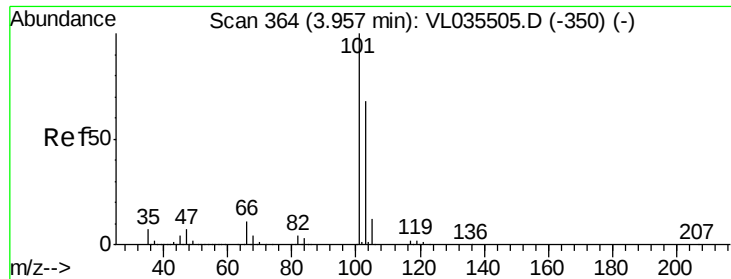
Tgt Ion: 43 Resp: 1161576

Ion Ratio Lower Upper

43 100

57 64.1 51.4 77.0





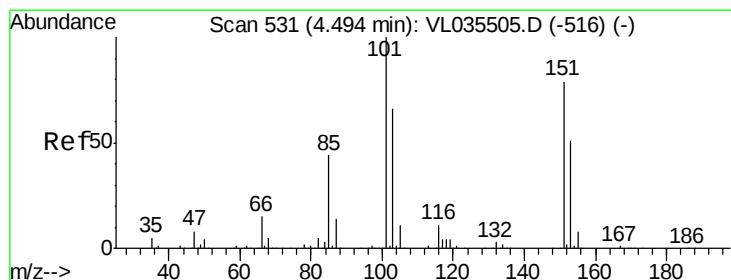
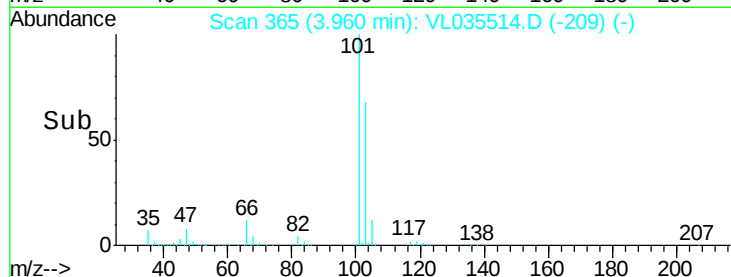
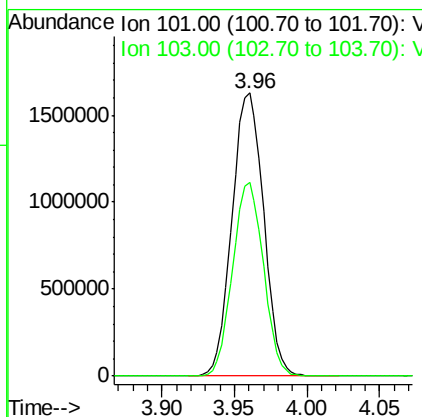
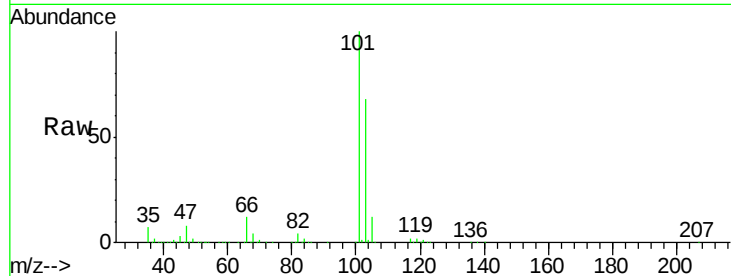
#11
 Trichlorofluoromethane
 Concen: 9.806 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. 0.00 min
 Lab File: VL035514.D
 Acq: 27 Aug 2020 9:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0827ABS01

Tot Ion:101 Resp: 2471389
 Ion Ratio Lower Upper
 101 100
 103 68.3 54.5 81.7

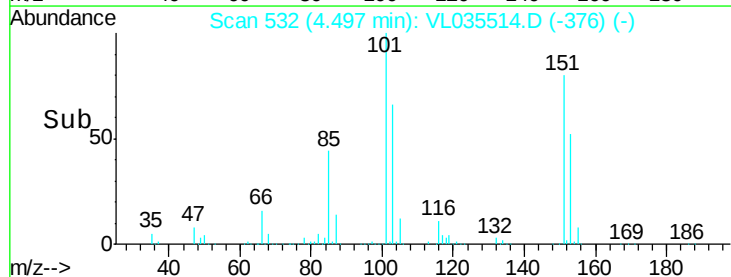
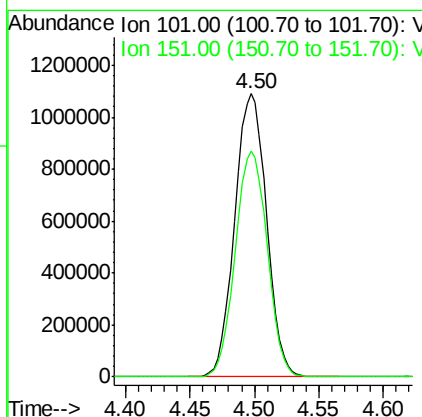
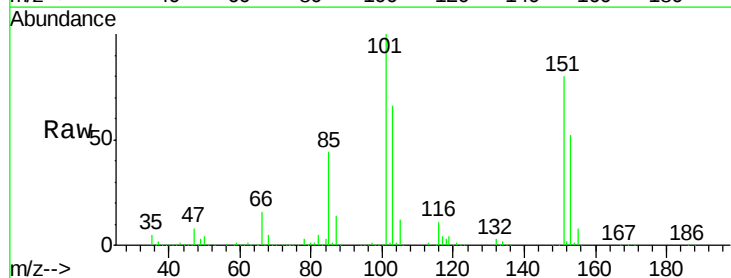
Manual Integrations
 APPROVED

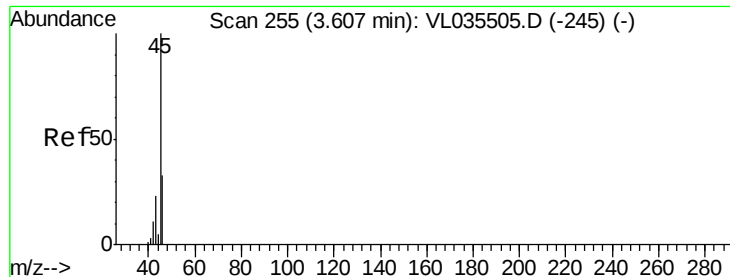
sam
 9/3/2020 5:43:12 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.844 ppbv
 RT: 4.50 min Scan# 532
 Delta R.T. 0.00 min
 Lab File: VL035514.D
 Acq: 27 Aug 2020 9:17

Tgt Ion:101 Resp: 1872448
 Ion Ratio Lower Upper
 101 100
 151 80.5 63.5 95.3





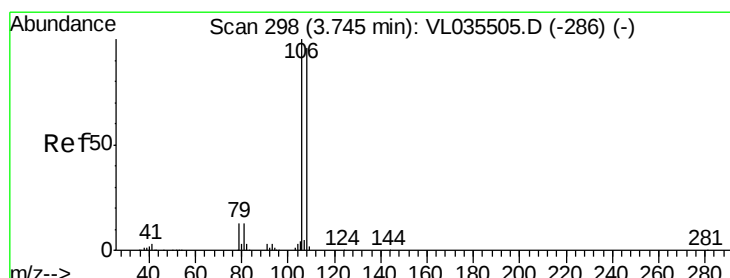
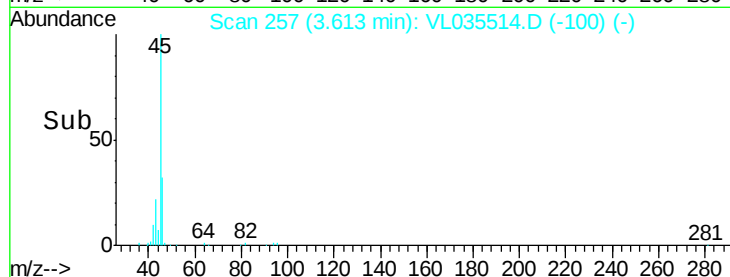
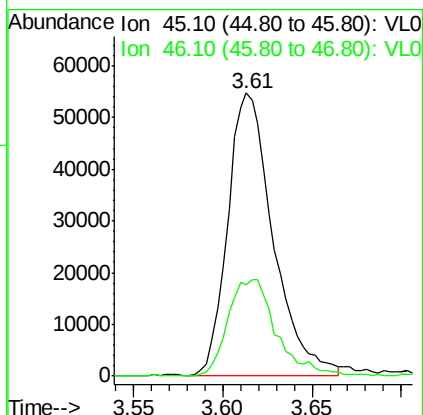
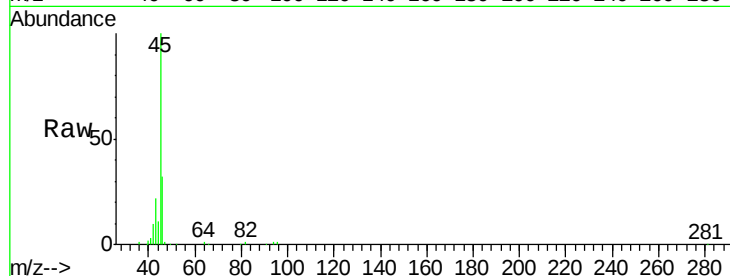
#13
Ethanol
Concen: 9.214 ppbv
RT: 3.61 min Scan# 257
Delta R.T. 0.01 min
Lab File: VL035514.D
Acq: 27 Aug 2020 9:17

Instrument :
MSVOA_L
ClientSampleId :
VL0827ABS01

Tot Ion	45	46	Resp	Lower	Upper
45	100				
46	36.5		15.2	60.6	

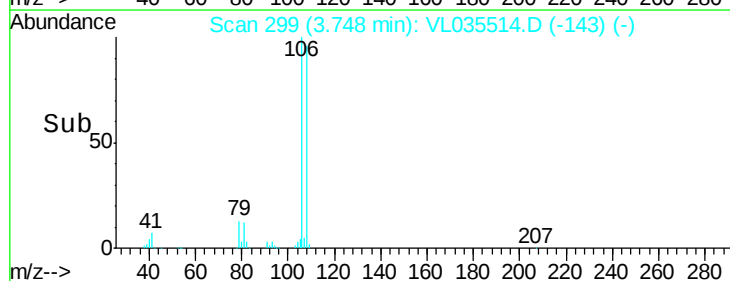
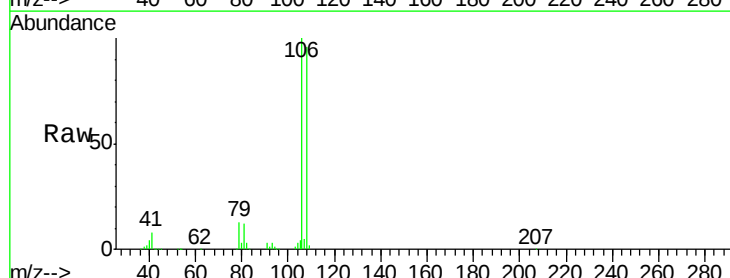
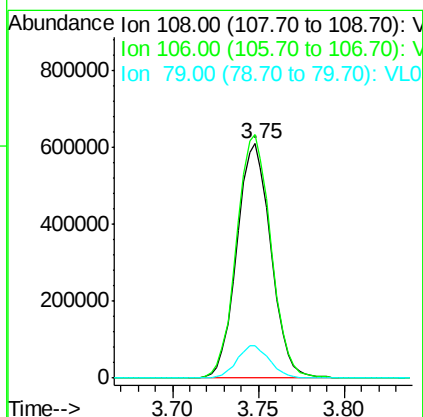
Manual Integrations
APPROVED

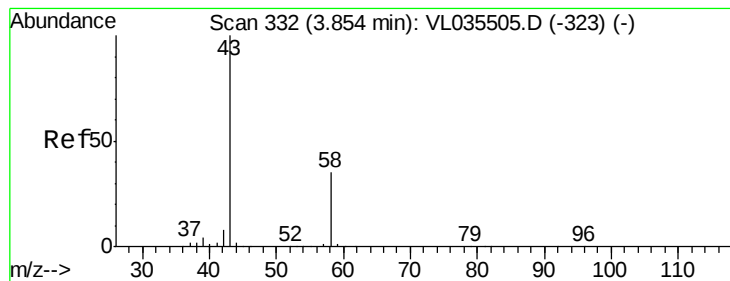
sam
9/3/2020 5:43:12 PM



#14
Bromoethene
Concen: 10.298 ppbv
RT: 3.75 min Scan# 299
Delta R.T. 0.00 min
Lab File: VL035514.D
Acq: 27 Aug 2020 9:17

Tgt Ion	108	106	79	Resp	Lower	Upper
108	100					
106	105.1			84.9	127.3	
79	13.7			10.8	16.2	





#15

Acetone

Concen: 9.140 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.01 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Instrument :

MSVOA_L

ClientSampleId :

VL0827ABS01

Tot Ion: 43 Resp: 1005285

Ion Ratio Lower Upper

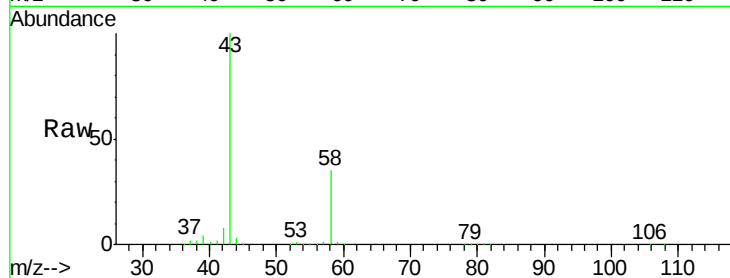
43 100

58 35.5 28.4 42.6

Manual Integrations
APPROVED

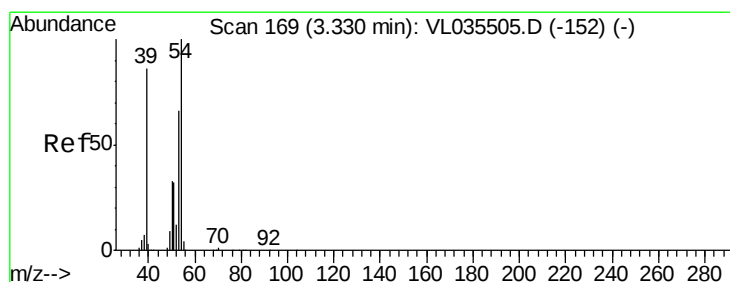
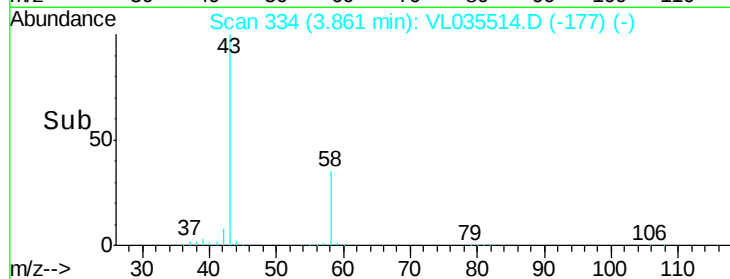
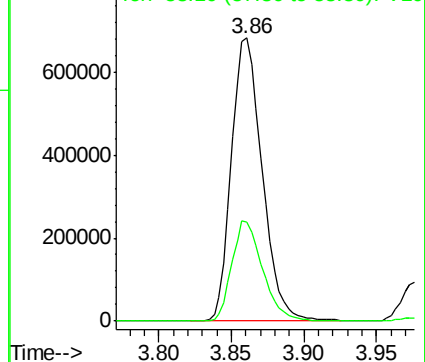
sam

9/3/2020 5:43:12 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 10.178 ppbv

RT: 3.33 min Scan# 170

Delta R.T. 0.00 min

Lab File: VL035514.D

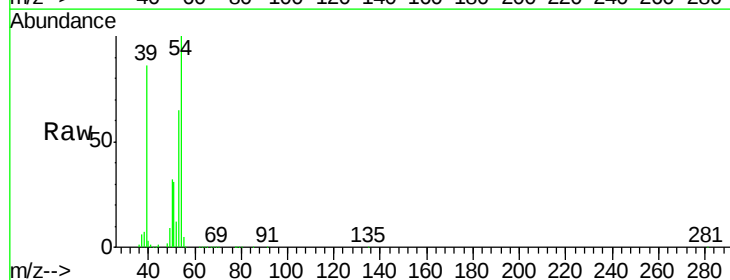
Acq: 27 Aug 2020 9:17

Tgt Ion: 39 Resp: 416696

Ion Ratio Lower Upper

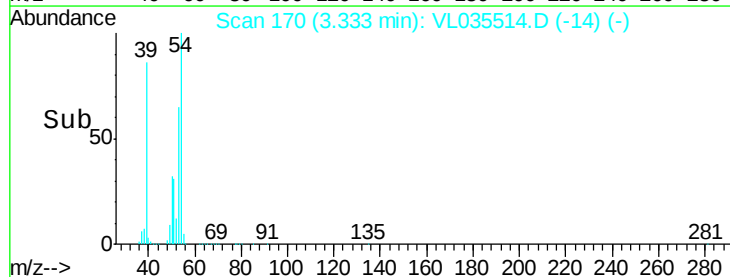
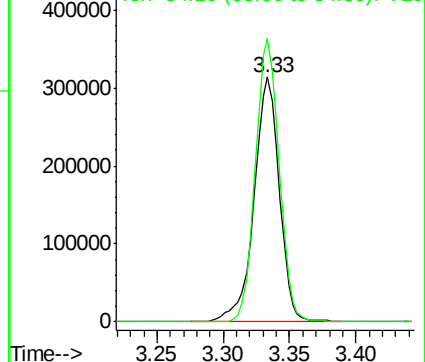
39 100

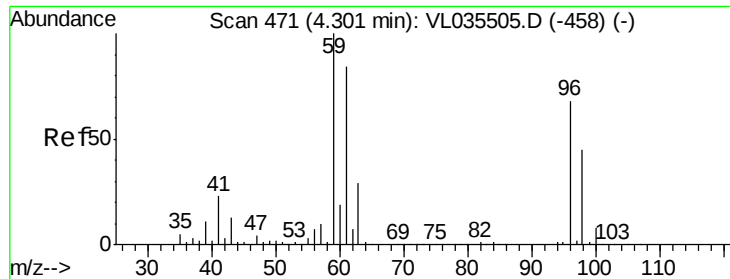
54 109.3 88.4 132.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

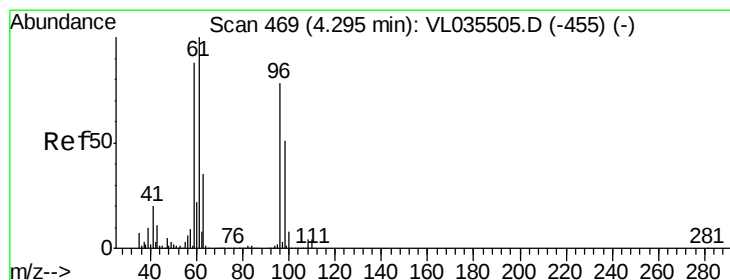
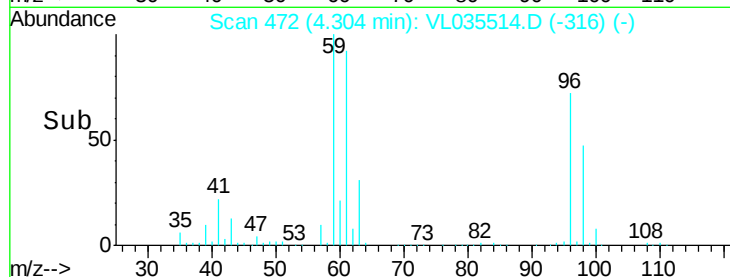
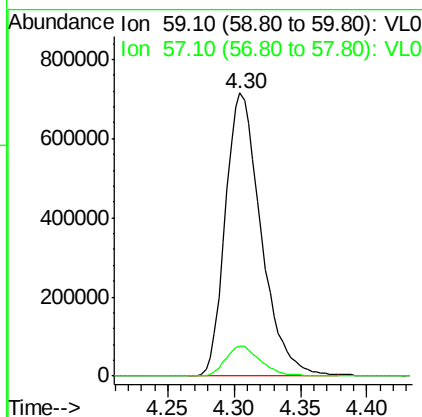
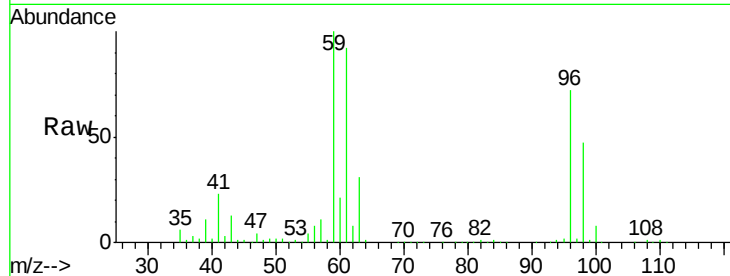
tert-Butyl alcohol
Concen: 10.016 ppbv
RT: 4.30 min Scan# 472
Delta R.T. 0.00 min
Lab File: VL035514.D
Acq: 27 Aug 2020 9:17

Instrument :
MSVOA_L
ClientSampleId :
VL0827ABS01

Tot Ion: 59 Resp: 1340844
Ion Ratio Lower Upper
59 100
57 10.5 8.4 12.6

Manual Integrations
APPROVED

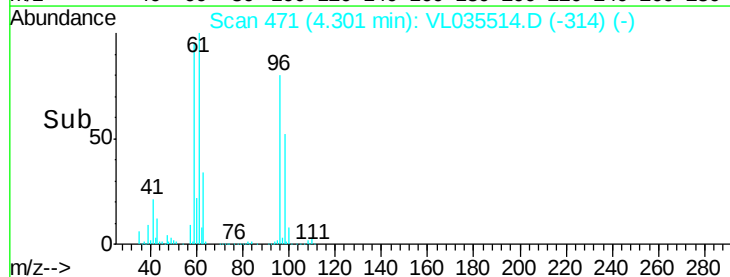
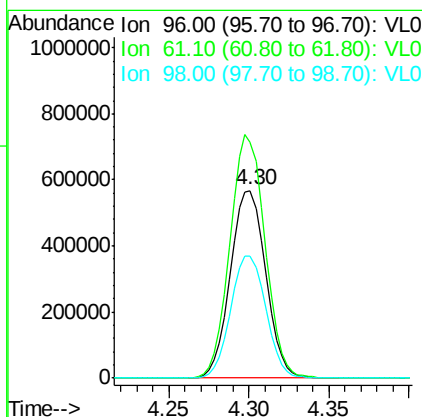
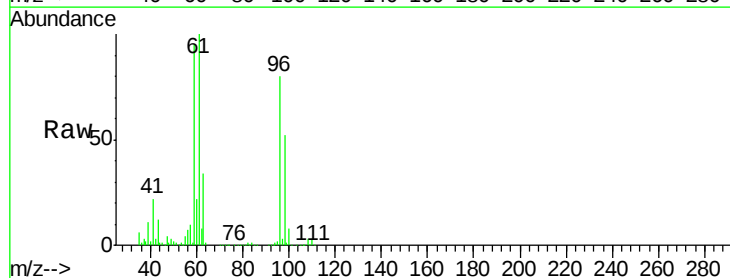
sam
9/3/2020 5:43:12 PM

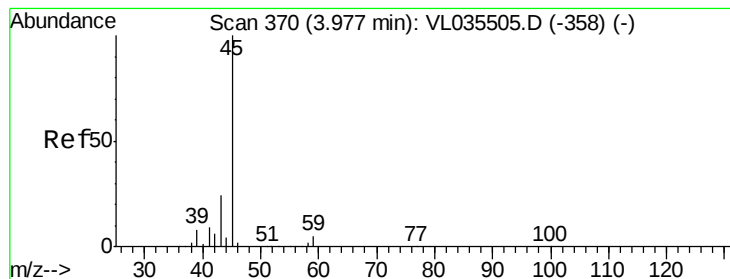


#18

1,1-Dichloroethene
Concen: 10.218 ppbv
RT: 4.30 min Scan# 471
Delta R.T. 0.01 min
Lab File: VL035514.D
Acq: 27 Aug 2020 9:17

Tgt Ion: 96 Resp: 855892
Ion Ratio Lower Upper
96 100
61 125.6 103.0 154.6
98 64.7 52.8 79.2





#19

Isopropyl Alcohol

Concen: 10.160 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Tot Ion: 45 Resp: 666635

Ion Ratio Lower Upper

45 100

58 2.6 2.0 3.0

Instrument :

MSVOA_L

ClientSampleId :

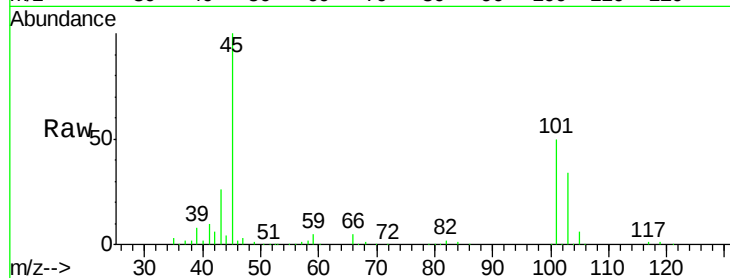
VL0827ABS01

Manual Integrations

APPROVED

sam

9/3/2020 5:43:12 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.98

400000

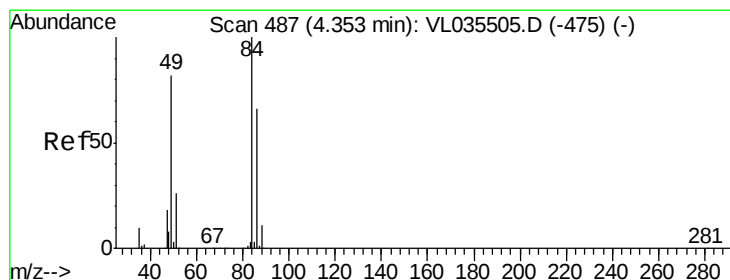
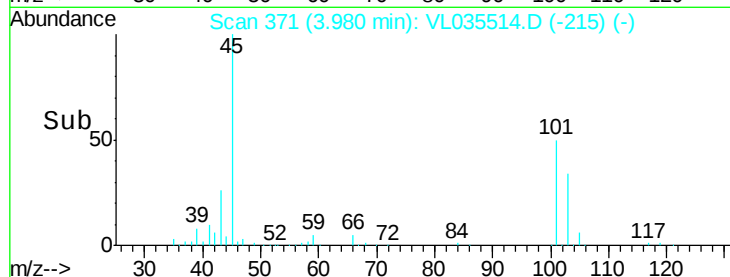
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.276 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Tgt Ion: 84 Resp: 677919

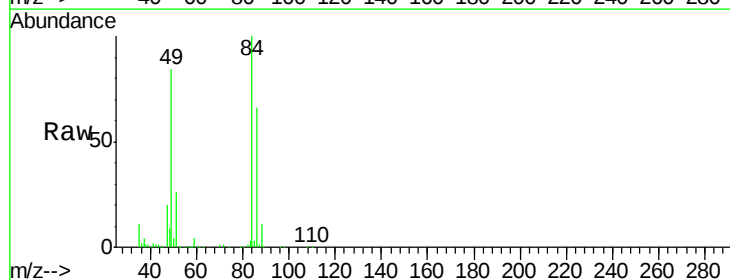
Ion Ratio Lower Upper

84 100

49 84.0 65.4 98.0

51 25.3 21.5 32.3

86 66.1 52.9 79.3



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

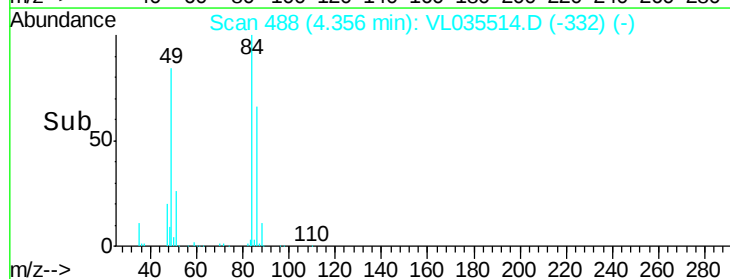
600000

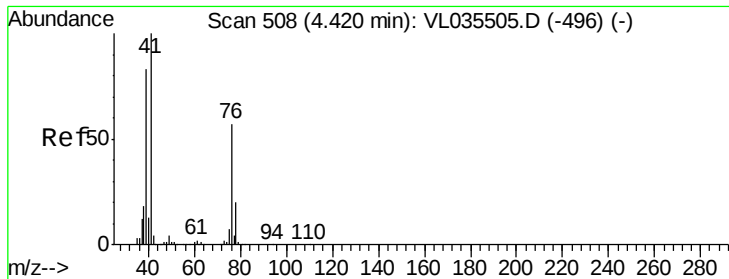
400000

200000

0

Time-->





#21

Allvl Chloride

Concen: 10.544 ppbv

RT: 4.42 min Scan# 509

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Instrument :

MSVOA_L

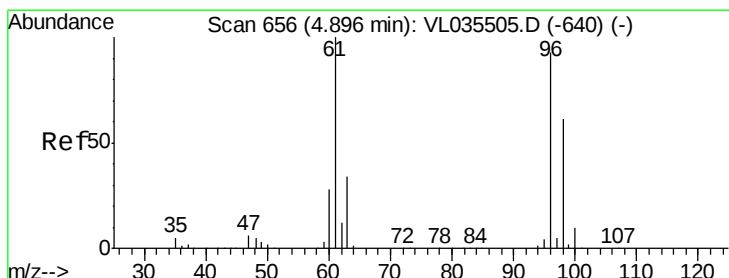
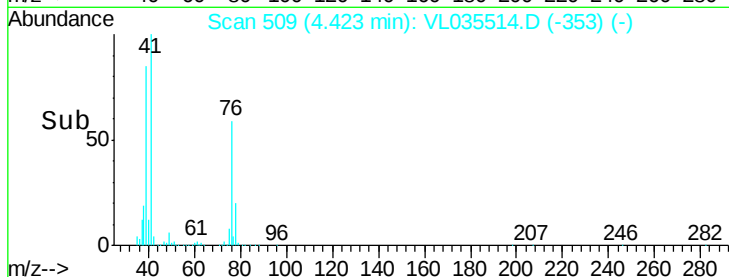
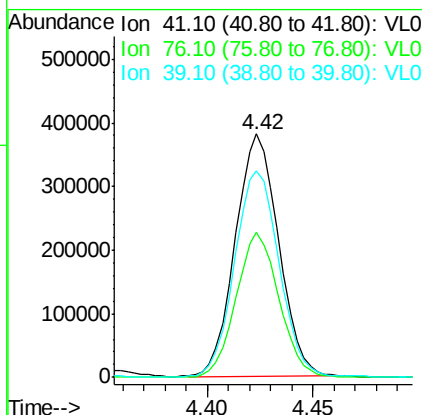
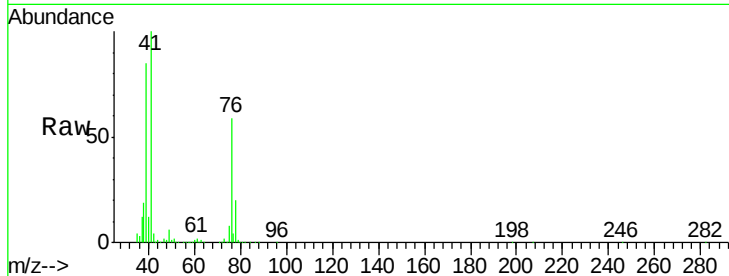
ClientSampleId :

VL0827ABS01

Tot Ion:	41	Resp:	543279
Ion	Ratio	Lower	Upper
41	100		
76	59.4	46.2	69.2
39	88.5	67.8	101.6

Manual Integrations
APPROVED

sam
9/3/2020 5:43:12 PM



#22

trans-1,2-Dichloroethene

Concen: 10.127 ppbv

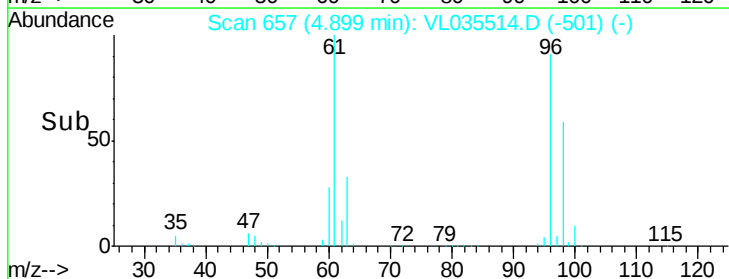
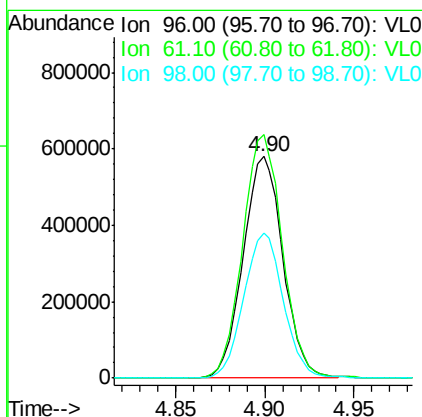
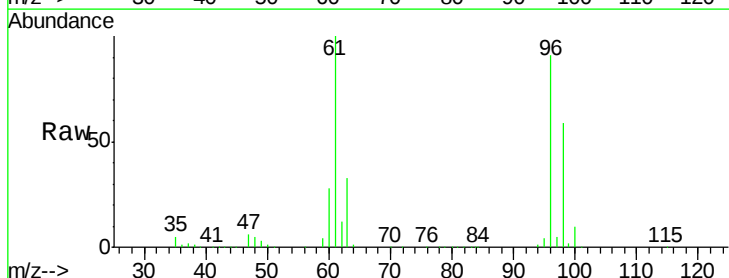
RT: 4.90 min Scan# 657

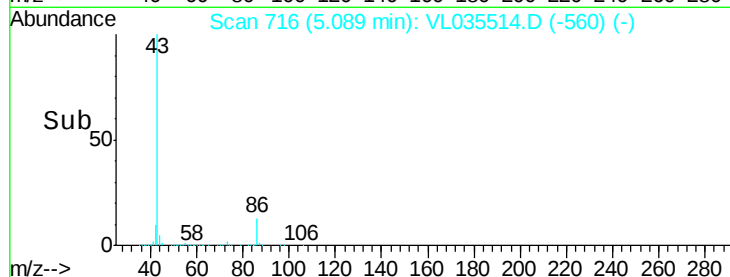
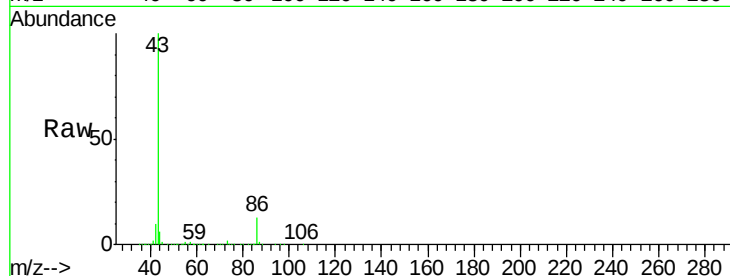
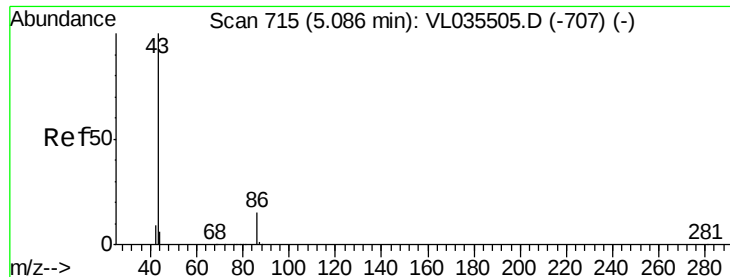
Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

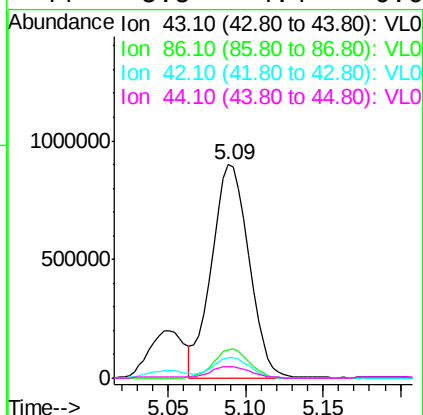
Tgt Ion:	96	Resp:	903045
Ion	Ratio	Lower	Upper
96	100		
61	109.9	86.0	129.0
98	65.2	52.3	78.5





#23
 Vinyl Acetate
 Concen: 10.714 ppbv
 RT: 5.09 min Scan# 716
 Delta R.T. 0.00 min
 Lab File: VL035514.D
 Acq: 27 Aug 2020 9:17

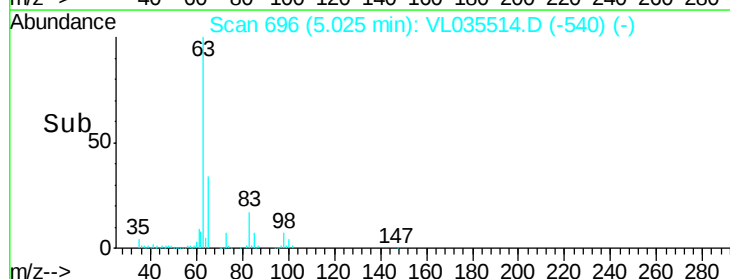
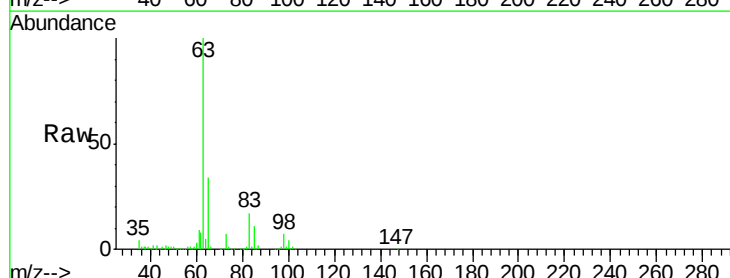
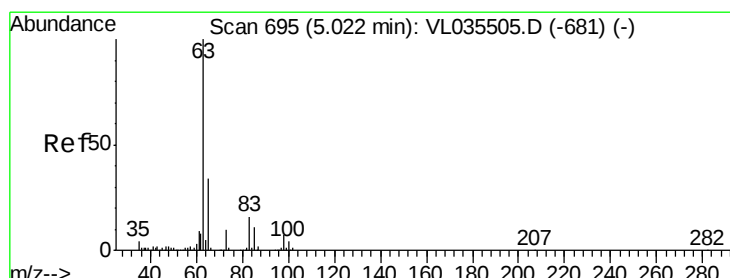
Tot Ion:	43	Resp:	1512429
Ion	Ratio	Lower	Upper
43	100		
86	13.4	10.6	16.0
42	9.7	7.5	11.3
44	5.5	4.4	6.6



Instrument :
 MSVOA_L
 ClientSampleId :
 VL0827ABS01

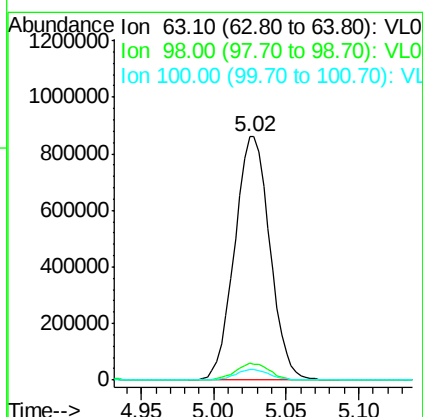
Manual Integrations
 APPROVED

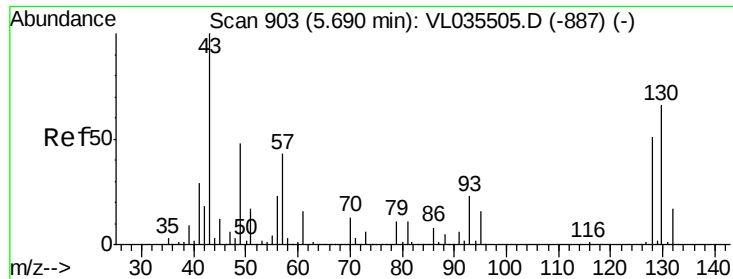
sam
 9/3/2020 5:43:12 PM



#24
 1,1-Dichloroethane
 Concen: 9.977 ppbv
 RT: 5.02 min Scan# 696
 Delta R.T. 0.00 min
 Lab File: VL035514.D
 Acq: 27 Aug 2020 9:17

Tgt Ion:	63	Resp:	1449315
Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.4	10.1
100	4.3	2.1	6.5





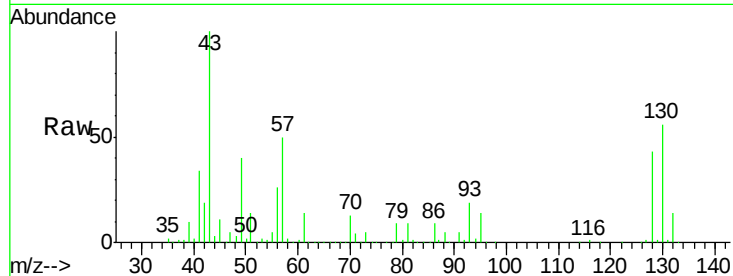
#25
Ethyl Acetate
Concen: 9.740 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL035514.D
Acq: 27 Aug 2020 9:17

Instrument :
MSVOA_L
ClientSampleId :
VL0827ABS01

Tot Ion	43	Resp	1892447
Ion	Ratio	Lower	Upper
43	100		
45	10.6	8.4	12.6
61	13.2	10.6	16.0
70	11.9	9.4	14.2

Manual Integrations
APPROVED

sam
9/3/2020 5:43:12 PM



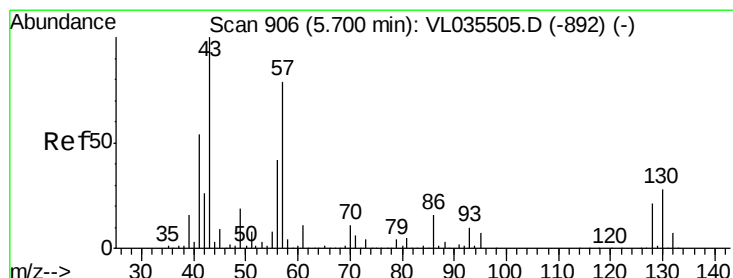
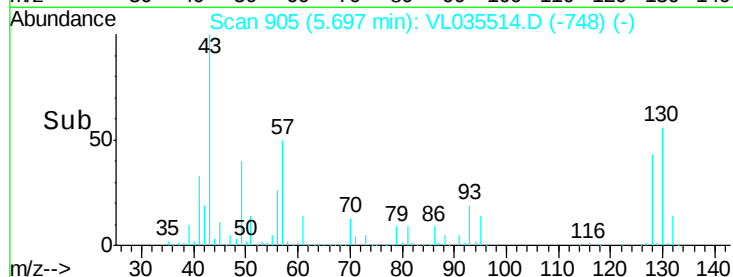
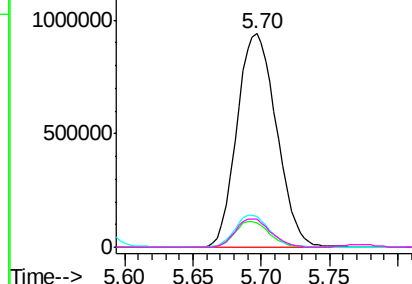
Abundance

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: 9.764 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.00 min
Lab File: VL035514.D
Acq: 27 Aug 2020 9:17

Tgt Ion	57	Resp	1074953
Ion	Ratio	Lower	Upper
57	100		
41	69.9	55.9	83.9
43	176.6	141.8	212.8
56	51.8	41.8	62.8

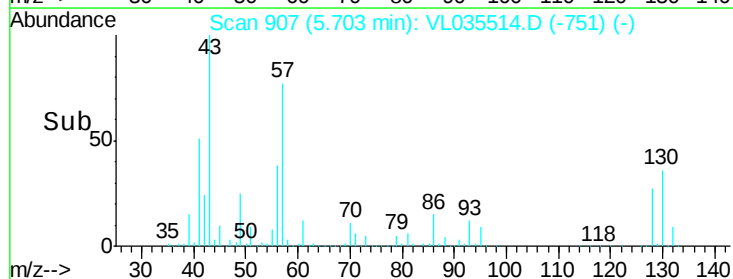
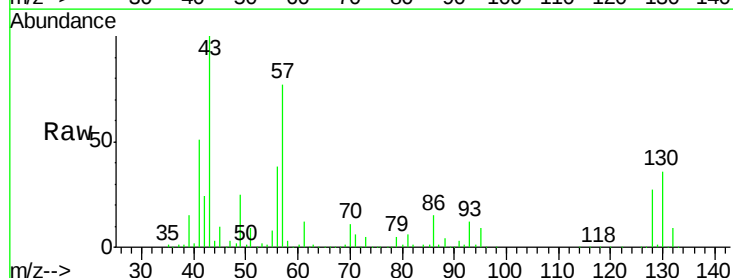
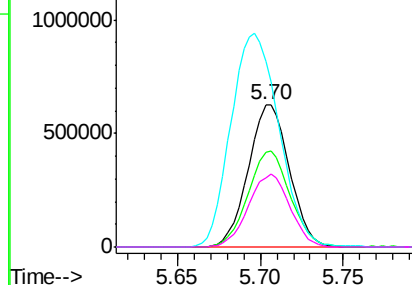
Abundance

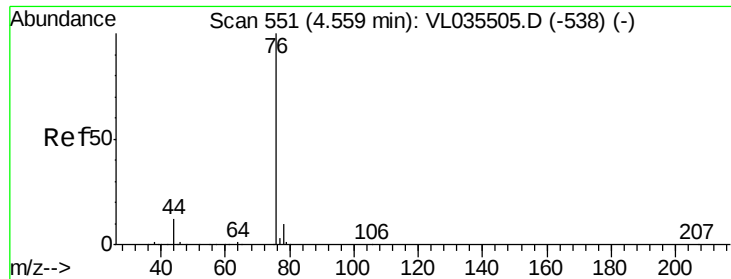
Ion 57.10 (56.80 to 57.80): VL0

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: 11.280 ppbv

RT: 4.56 min Scan# 552

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Instrument :

MSVOA_L

ClientSampleId :

VL0827ABS01

Tot Ion: 76 Resp: 1781966

Ion Ratio Lower Upper

76 100

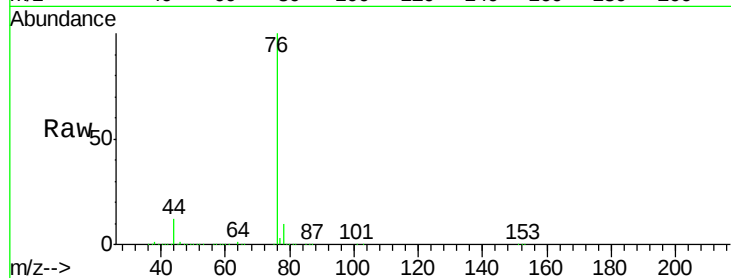
44 11.5 9.3 13.9

78 9.6 7.8 11.6

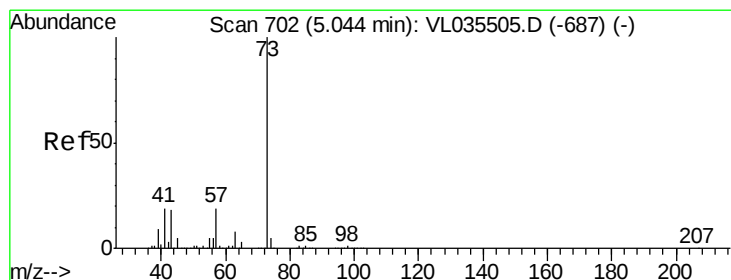
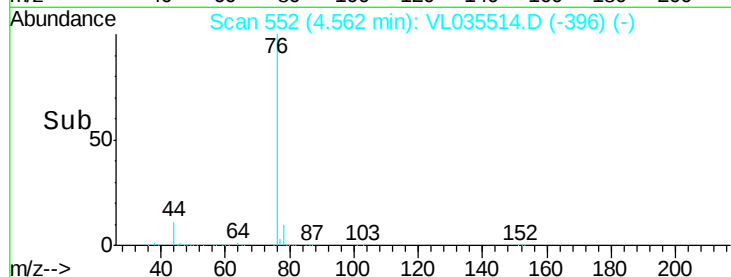
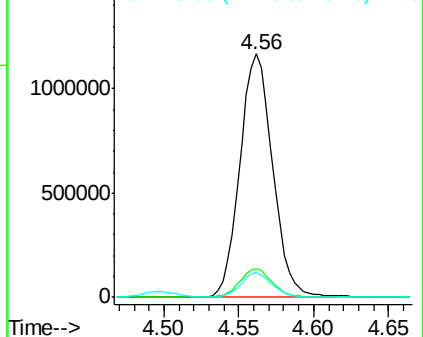
Manual Integrations
APPROVED

sam

9/3/2020 5:43:12 PM



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: 10.418 ppbv

RT: 5.05 min Scan# 704

Delta R.T. 0.01 min

Lab File: VL035514.D

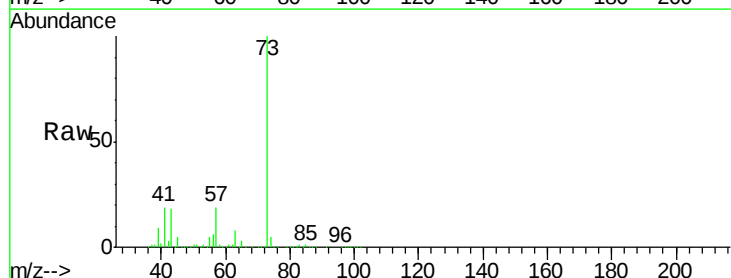
Acq: 27 Aug 2020 9:17

Tgt Ion: 73 Resp: 1998929

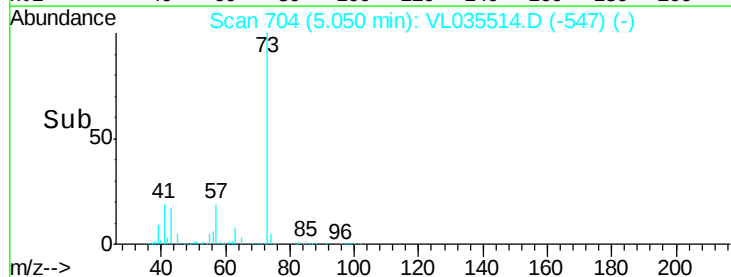
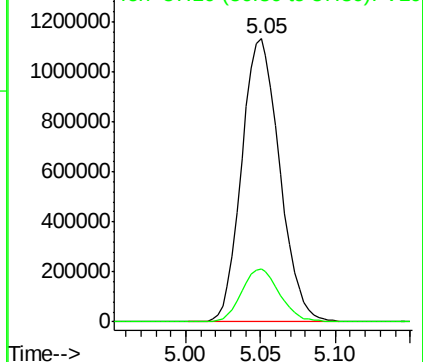
Ion Ratio Lower Upper

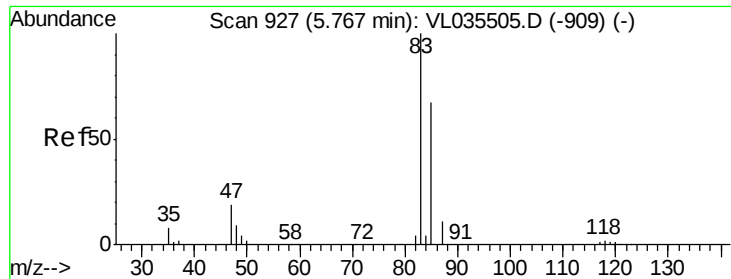
73 100

57 18.8 15.2 22.8



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





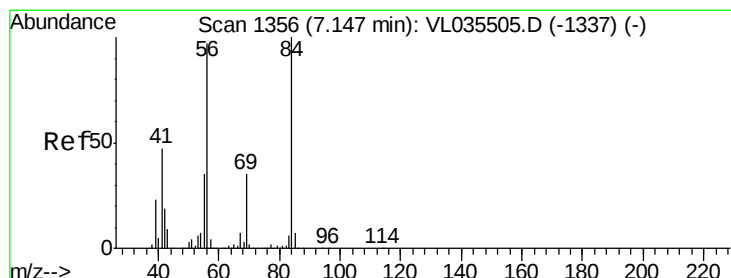
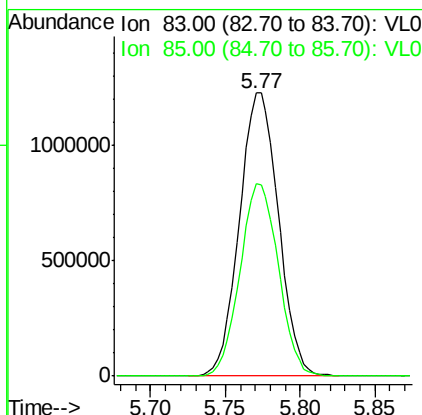
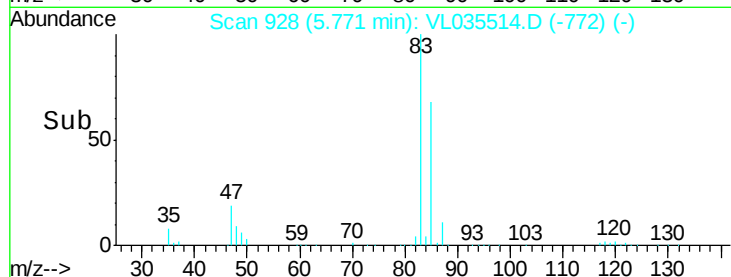
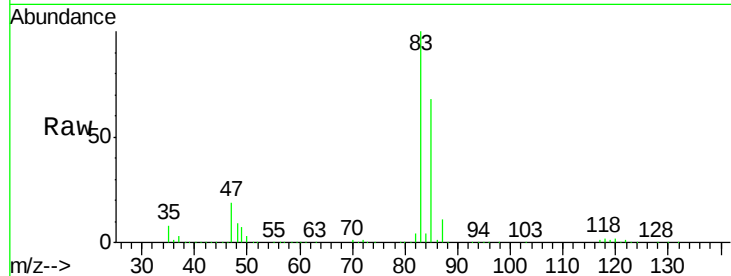
#29
Chloroform
Concen: 9.941 ppbv
RT: 5.77 min Scan# 928
Delta R.T. 0.00 min
Lab File: VL035514.D
Acq: 27 Aug 2020 9:17

Instrument :
MSVOA_L
ClientSampleId :
VL0827ABS01

Tot Ion: 83 Resp: 2229744
Ion Ratio Lower Upper
83 100
85 67.7 53.9 80.9

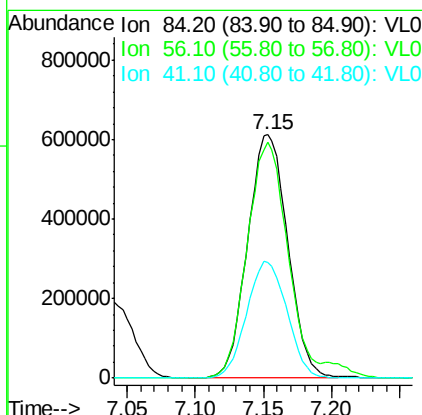
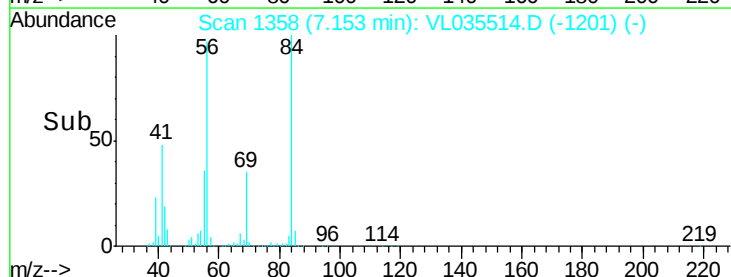
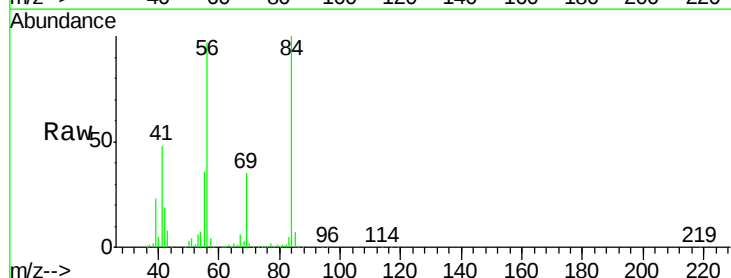
Manual Integrations
APPROVED

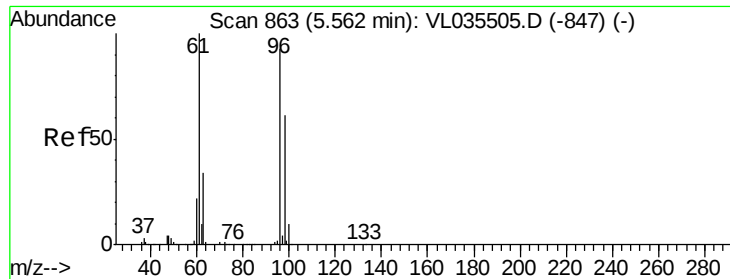
sam
9/3/2020 5:43:12 PM



#30
Cyclohexane
Concen: 10.608 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. 0.01 min
Lab File: VL035514.D
Acq: 27 Aug 2020 9:17

Tgt Ion: 84 Resp: 1251079
Ion Ratio Lower Upper
84 100
56 101.3 80.1 120.1
41 48.1 38.1 57.1





#31

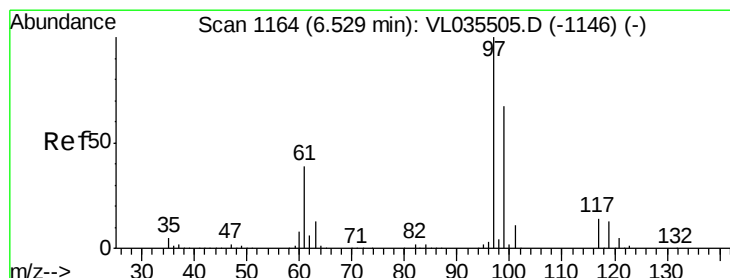
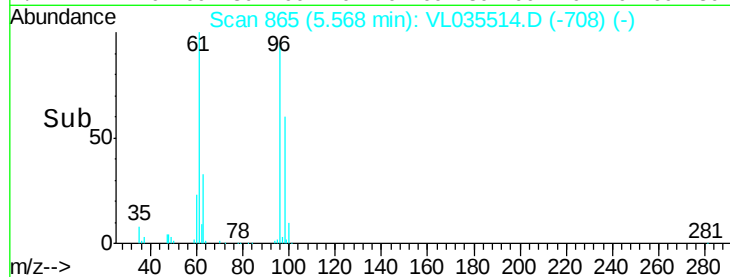
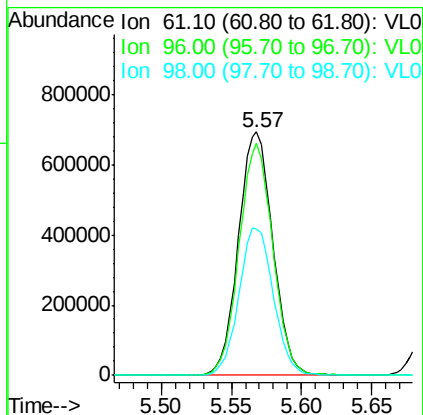
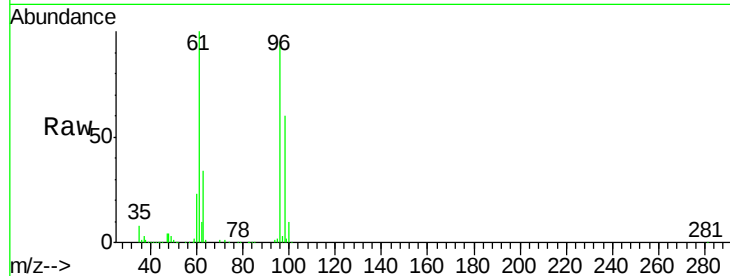
cis-1,2-Dichloroethene
 Concen: 10.512 ppbv
 RT: 5.57 min Scan# 865
 Delta R.T. 0.01 min
 Lab File: VL035514.D
 Acq: 27 Aug 2020 9:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0827ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	95.4	74.4	111.6
98	60.1	49.2	73.8

Manual Integrations
 APPROVED

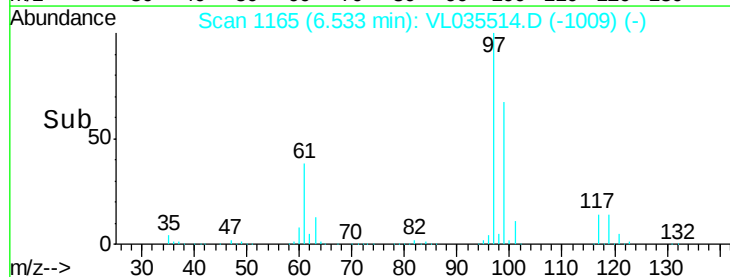
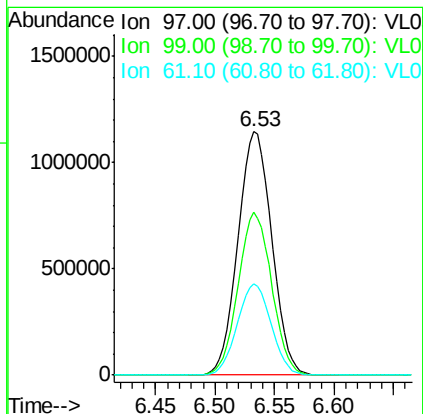
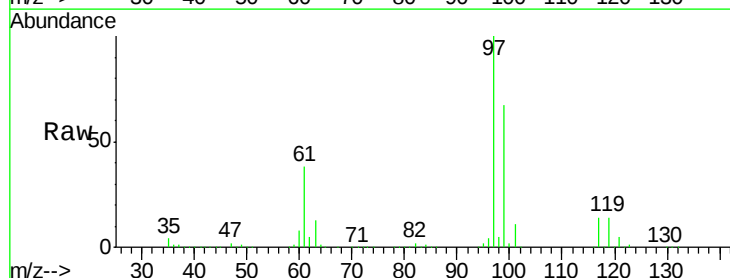
sam
 9/3/2020 5:43:12 PM

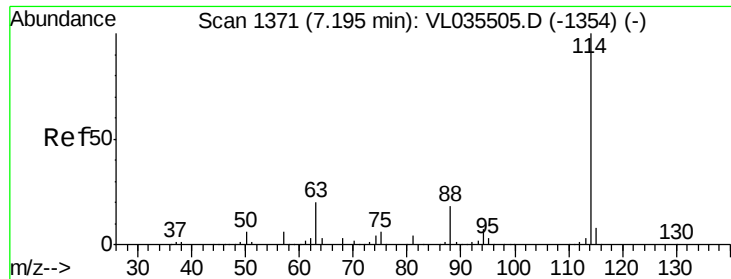


#32

1,1,1-Trichloroethane
 Concen: 10.392 ppbv
 RT: 6.53 min Scan# 1165
 Delta R.T. 0.00 min
 Lab File: VL035514.D
 Acq: 27 Aug 2020 9:17

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.1	53.3	79.9
61	37.7	30.6	46.0





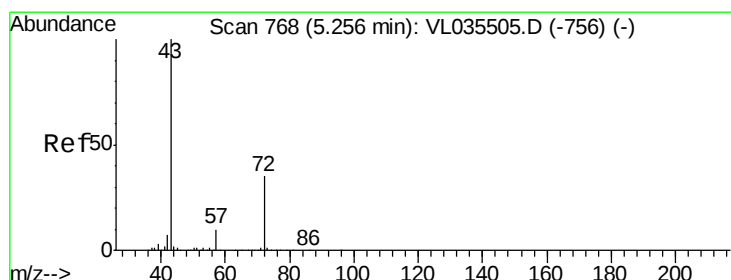
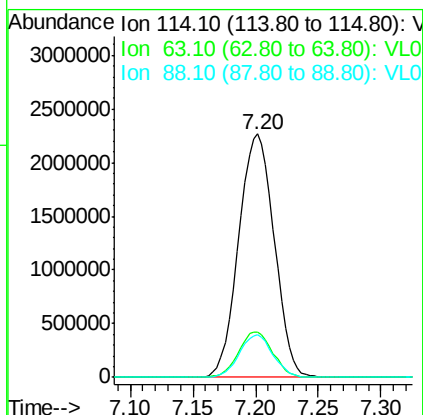
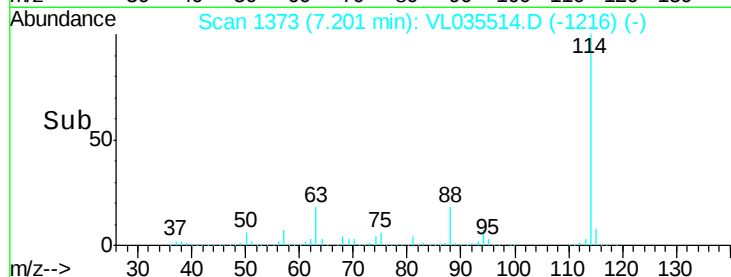
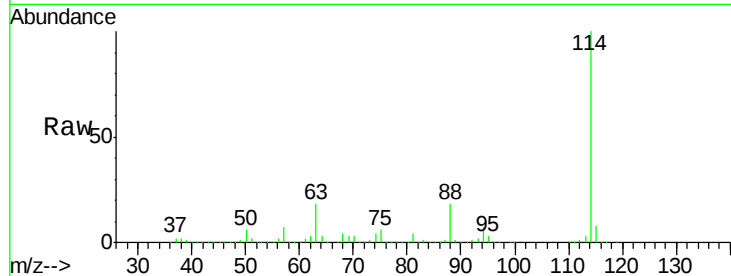
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1373
 Delta R.T. 0.01 min
 Lab File: VL035514.D
 Acq: 27 Aug 2020 9:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0827ABS01

Tot Ion:114 Resp: 4469358
 Ion Ratio Lower Upper
 114 100
 63 18.2 14.7 22.1
 88 16.7 13.4 20.2

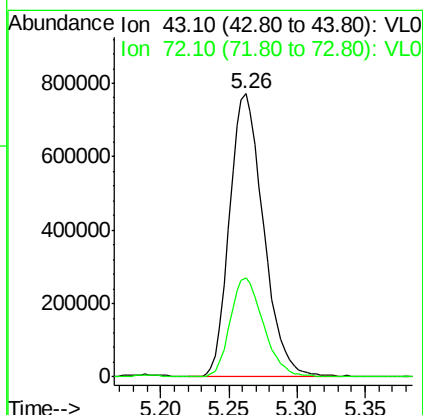
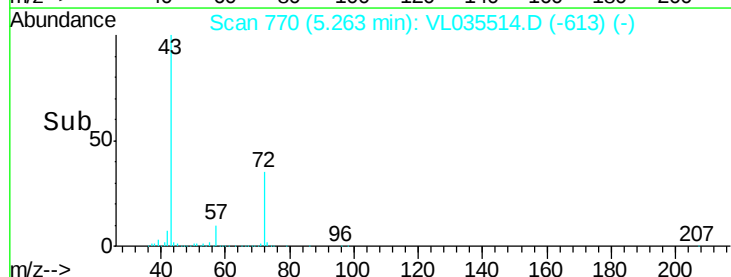
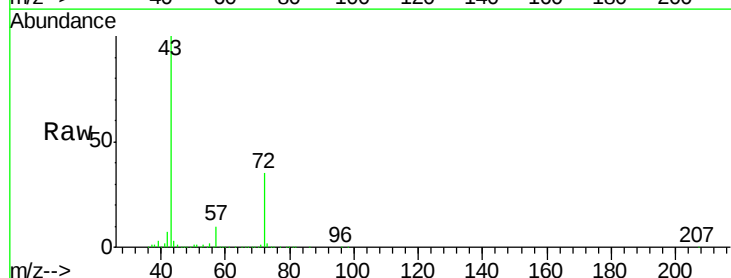
Manual Integrations
 APPROVED

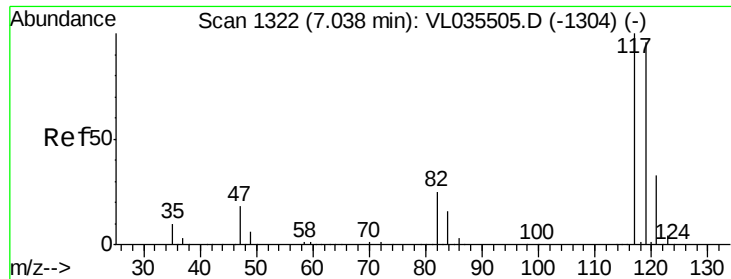
sam
 9/3/2020 5:43:12 PM



#34
 2-Butanone
 Concen: 10.030 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. 0.01 min
 Lab File: VL035514.D
 Acq: 27 Aug 2020 9:17

Tgt Ion: 43 Resp: 1330389
 Ion Ratio Lower Upper
 43 100
 72 34.5 27.7 41.5





#35

Carbon Tetrachloride

Concen: 10.637 ppbv

RT: 7.04 min Scan# 1323

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Instrument :

MSVOA_L

ClientSampleId :

VL0827ABS01

Tot Ion:117 Resp: 2389380

Ion Ratio Lower Upper

117 100

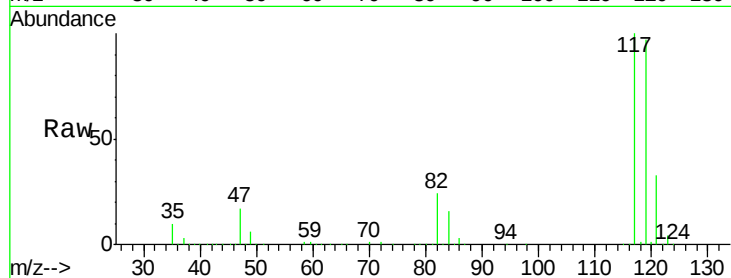
119 97.0 77.2 115.8

121 32.7 26.1 39.1

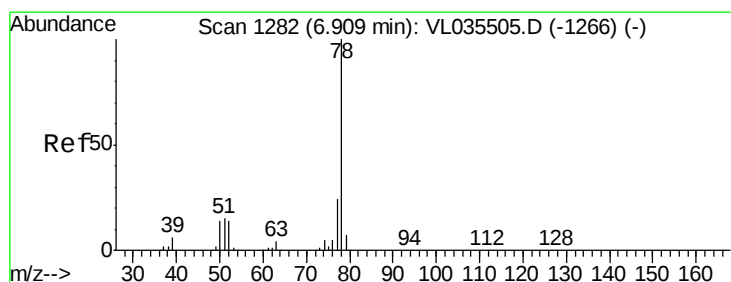
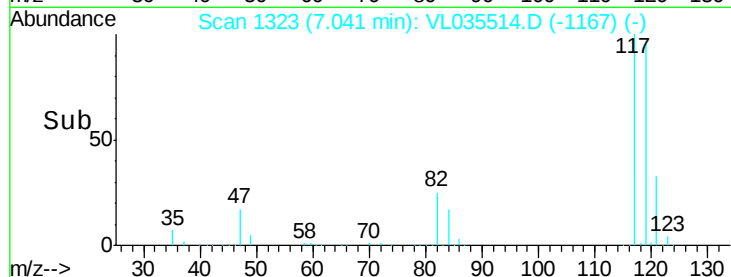
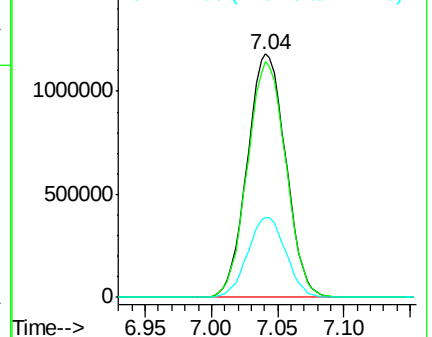
Manual Integrations
APPROVED

sam

9/3/2020 5:43:12 PM



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.956 ppbv

RT: 6.92 min Scan# 1284

Delta R.T. 0.01 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

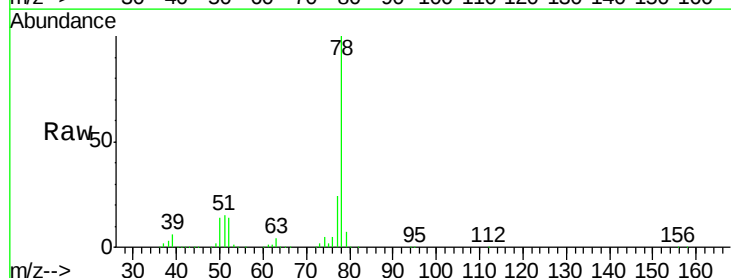
Tgt Ion: 78 Resp: 2880253

Ion Ratio Lower Upper

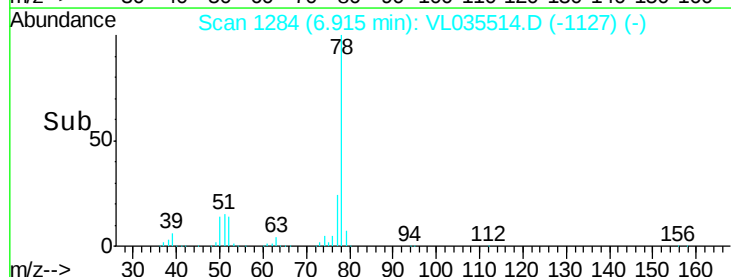
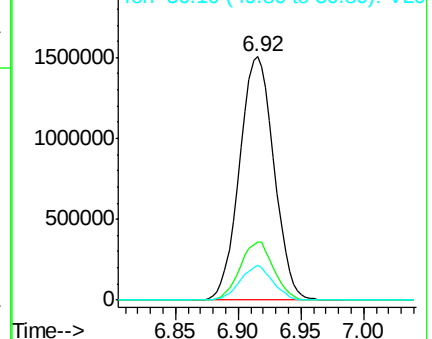
78 100

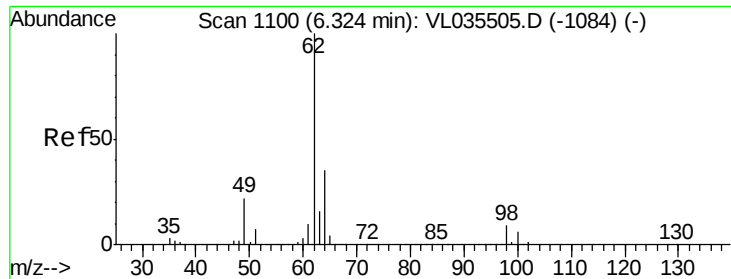
77 24.0 19.3 28.9

50 14.1 11.0 16.6



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





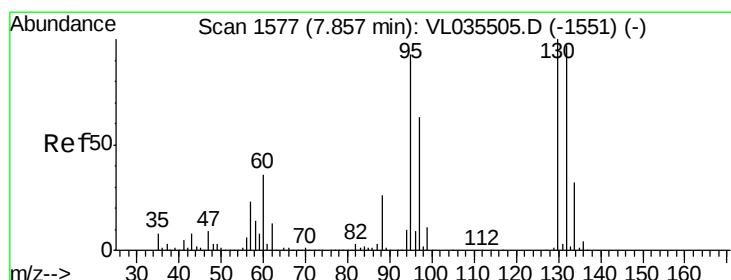
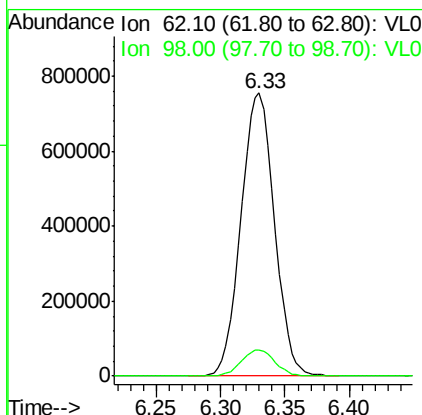
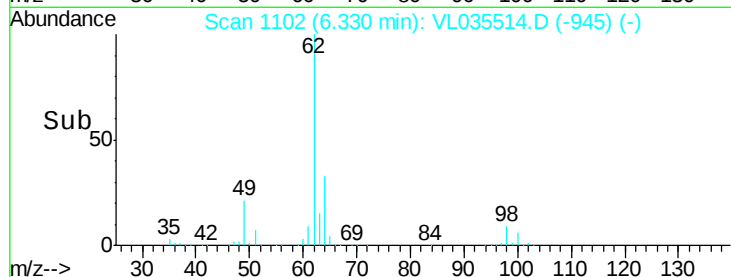
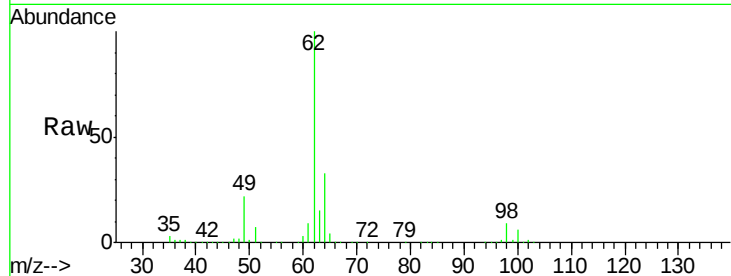
#37
 1,2-Dichloroethane
 Concen: 9.887 ppbv
 RT: 6.33 min Scan# 1102
 Delta R.T. 0.01 min
 Lab File: VL035514.D
 Acq: 27 Aug 2020 9:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0827ABS01

Tot Ion: 62 Resp: 1363782
 Ion Ratio Lower Upper
 62 100
 98 9.2 7.4 11.0

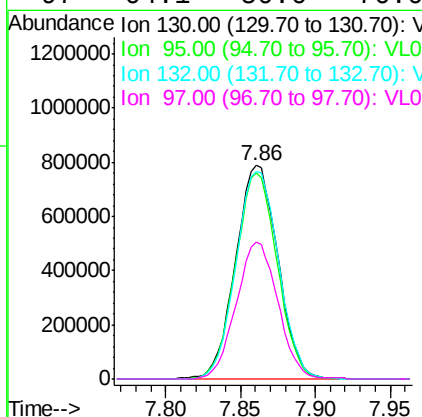
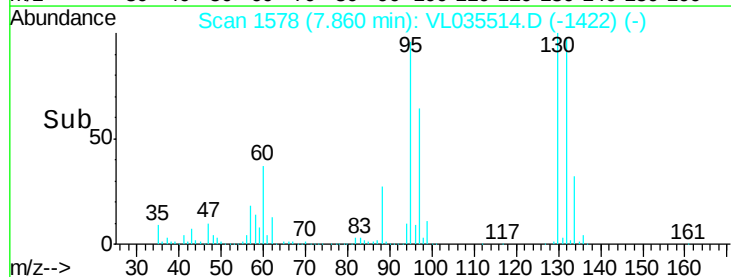
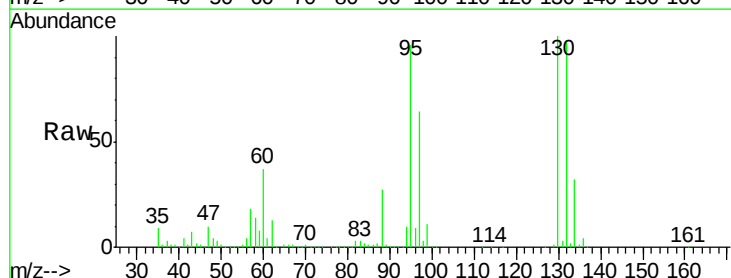
Manual Integrations
 APPROVED

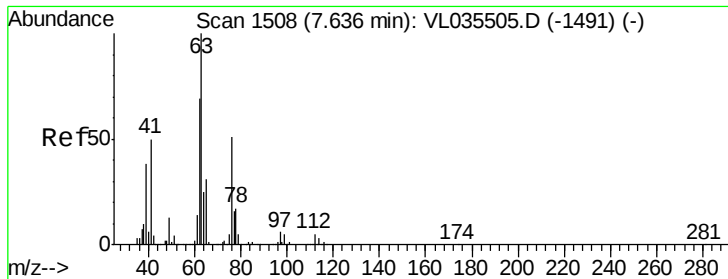
sam
 9/3/2020 5:43:12 PM



#38
 Trichloroethene
 Concen: 9.176 ppbv
 RT: 7.86 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VL035514.D
 Acq: 27 Aug 2020 9:17

Tgt Ion:130 Resp: 1541954
 Ion Ratio Lower Upper
 130 100
 95 96.4 74.6 112.0
 132 97.2 77.6 116.4
 97 64.1 50.6 76.0





#39

1,2-Dichloropropane

Concen: 9.855 ppbv

RT: 7.64 min Scan# 1509

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Instrument :

MSVOA_L

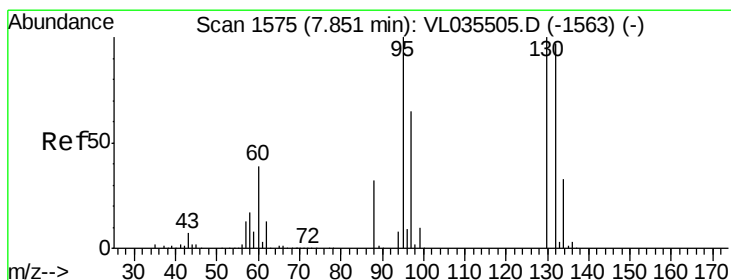
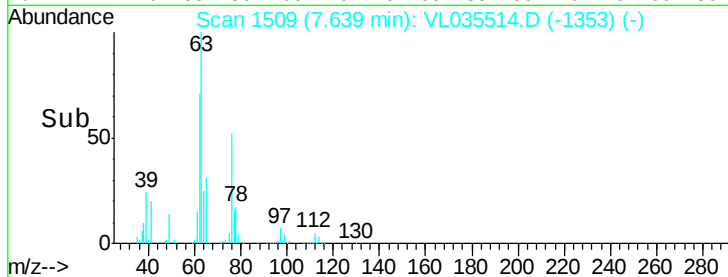
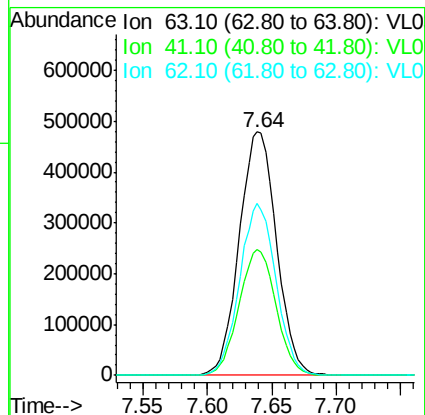
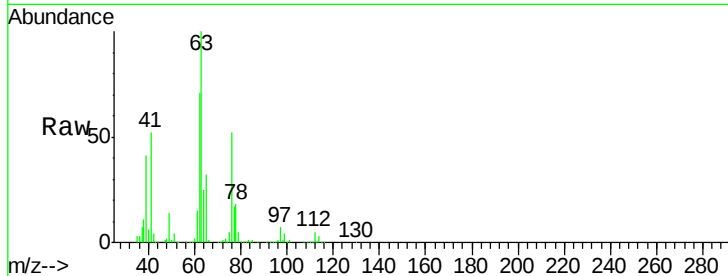
ClientSampleId :

VL0827ABS01

Tot Ion:	63	Resp:	963148
Ion Ratio	Lower	Upper	
63	100		
41	51.6	40.0	60.0
62	70.5	55.4	83.0

Manual Integrations
APPROVED

sam
9/3/2020 5:43:12 PM



#40

1,4-Dioxane

Concen: 10.357 ppbv

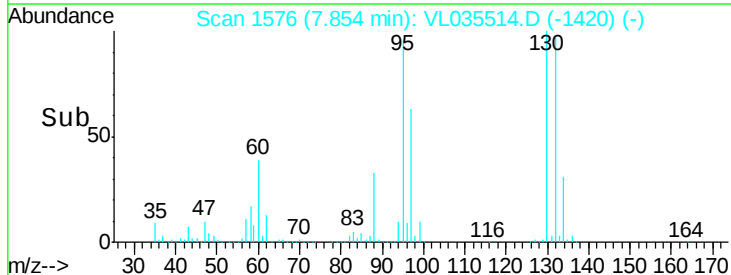
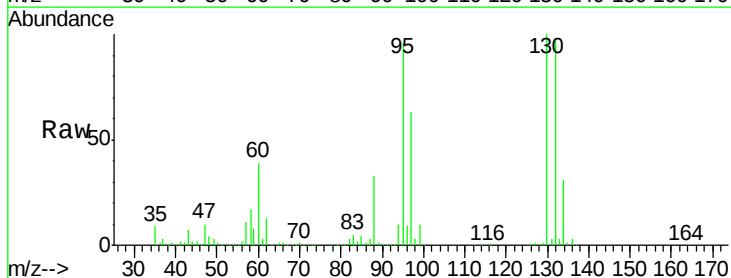
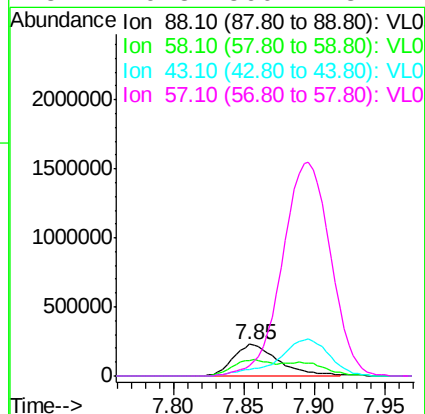
RT: 7.85 min Scan# 1576

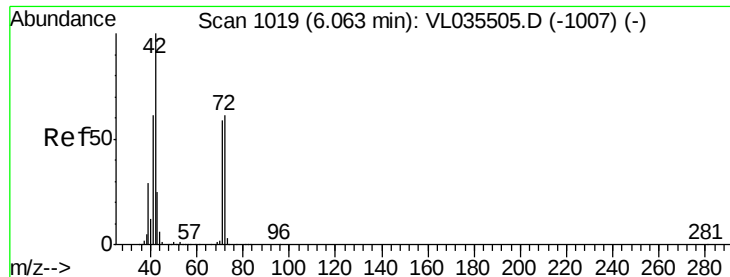
Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Tgt Ion:	88	Resp:	505656
Ion Ratio	Lower	Upper	
88	100		
58	88.6	68.7	103.1
43	134.7	104.3	156.5
57	729.8	560.7	841.1





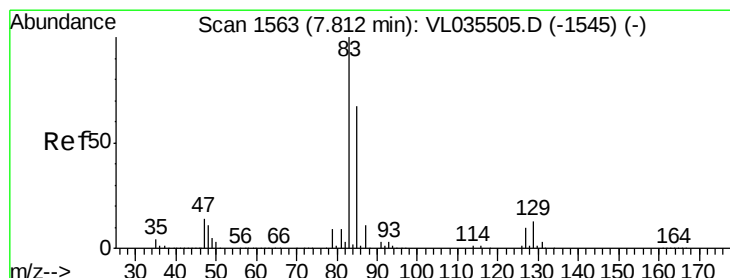
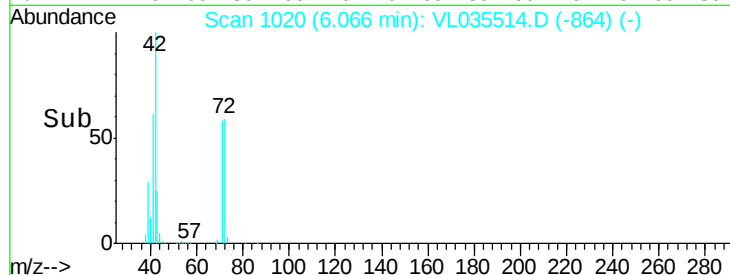
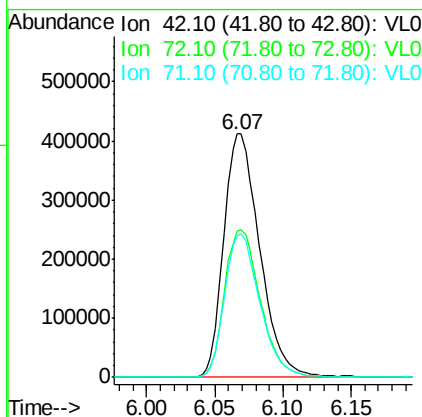
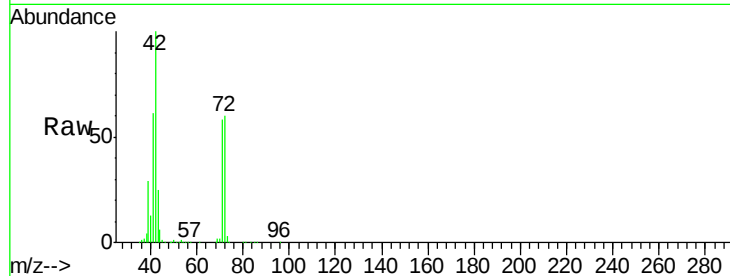
#41
Tetrahydrofuran
Concen: 10.712 ppbv
RT: 6.07 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VL035514.D
Acq: 27 Aug 2020 9:17

Instrument :
MSVOA_L
ClientSampleId :
VL0827ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	60.6	48.6	73.0
71	58.2	46.1	69.1

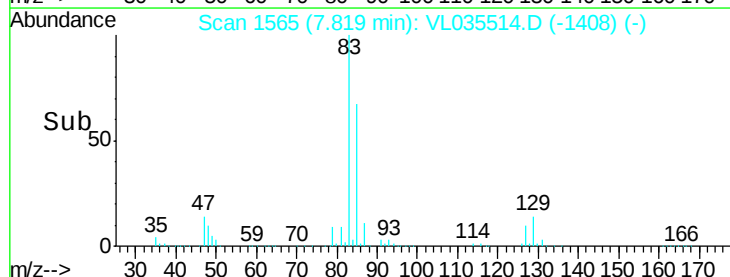
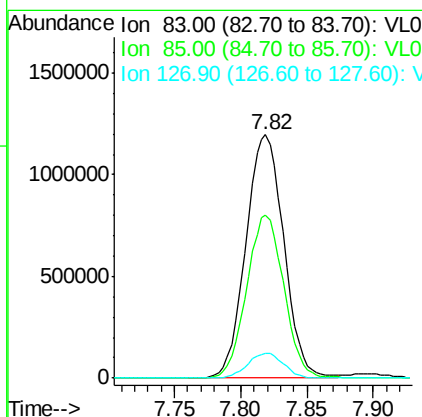
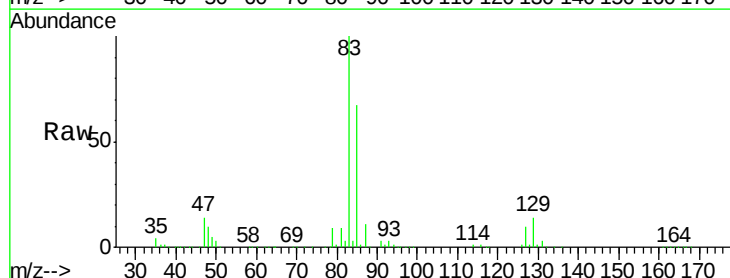
Manual Integrations
APPROVED

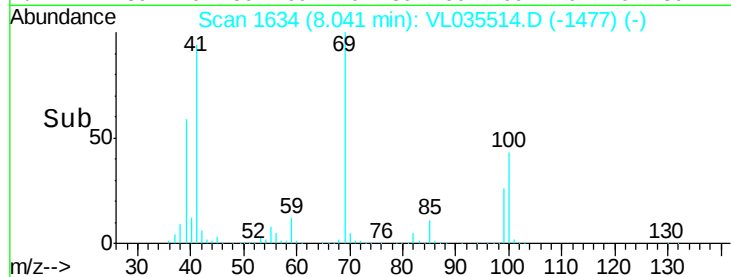
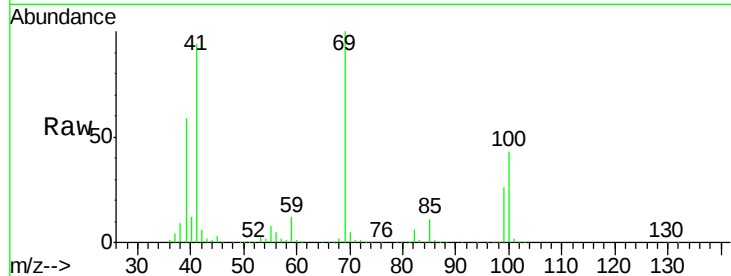
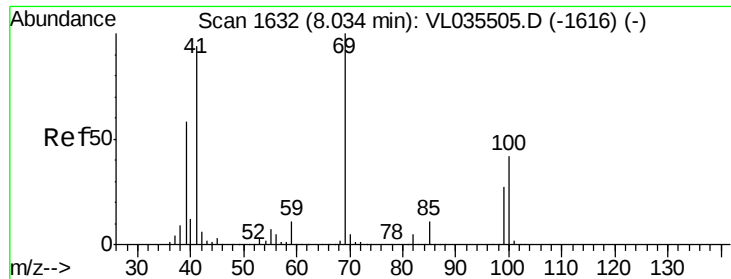
sam
9/3/2020 5:43:12 PM



#42
Bromodichloromethane
Concen: 10.686 ppbv
RT: 7.82 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VL035514.D
Acq: 27 Aug 2020 9:17

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.7	53.7	80.5
127	10.4	8.1	12.1





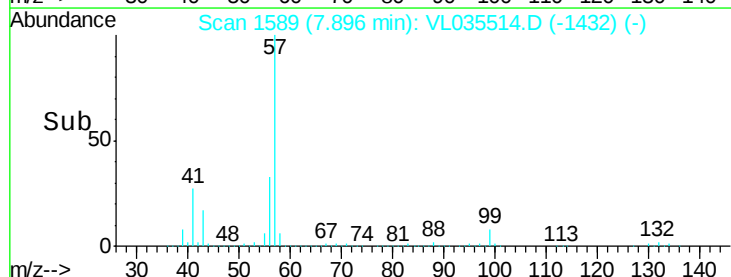
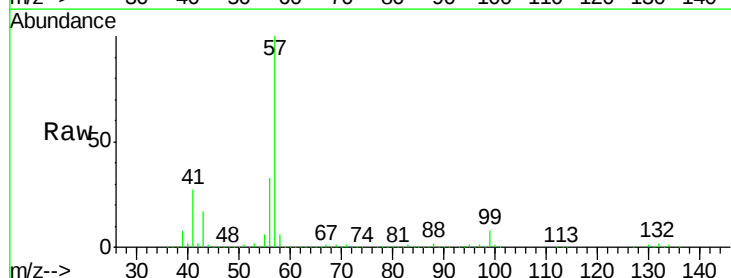
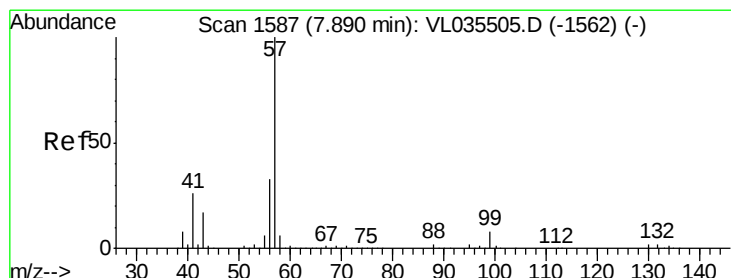
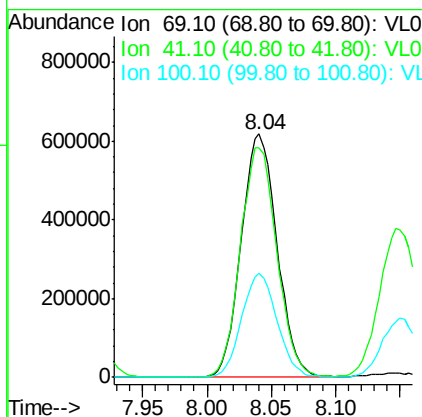
#43
Methvl Methacrilate
Concen: 10.716 ppbv
RT: 8.04 min Scan# 1634
Delta R.T. 0.01 min
Lab File: VL035514.D
Acq: 27 Aug 2020 9:17

Tot Ion: 69 Resp: 1198740
Ion Ratio Lower Upper
69 100
41 96.0 76.6 114.8
100 42.3 33.8 50.6

Instrument :
MSVOA_L
ClientSampleId :
VL0827ABS01

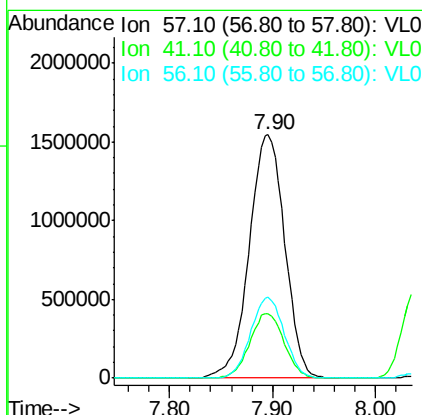
Manual Integrations
APPROVED

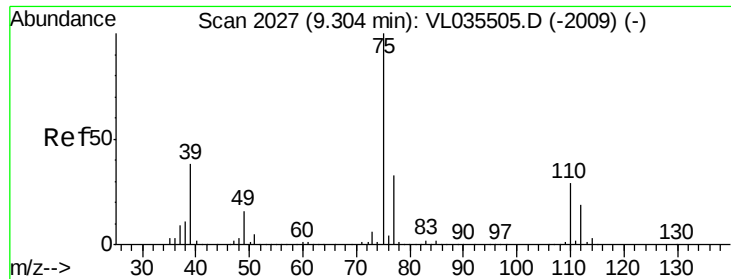
sam
9/3/2020 5:43:12 PM



#44
2,2,4-Trimethylpentane
Concen: 9.684 ppbv
RT: 7.90 min Scan# 1589
Delta R.T. 0.01 min
Lab File: VL035514.D
Acq: 27 Aug 2020 9:17

Tgt Ion: 57 Resp: 3686253
Ion Ratio Lower Upper
57 100
41 25.7 20.5 30.7
56 31.5 25.3 37.9





#45

t-1,3-Dichloropropene

Concen: 12.058 ppbv

RT: 9.31 min Scan# 2028

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Tot Ion: 75 Resp: 1366535

Ion Ratio Lower Upper

75 100

77 32.5 26.5 39.7

Instrument :

MSVOA_L

ClientSampleId :

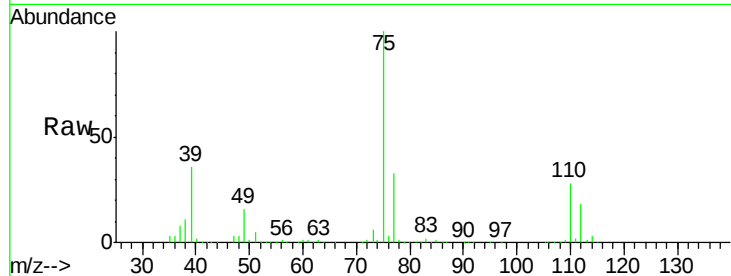
VL0827ABS01

Manual Integrations

APPROVED

sam

9/3/2020 5:43:12 PM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.31

800000

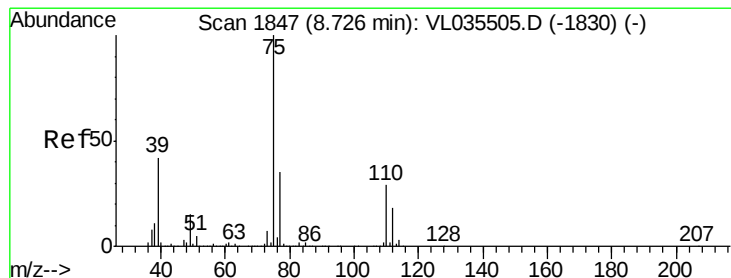
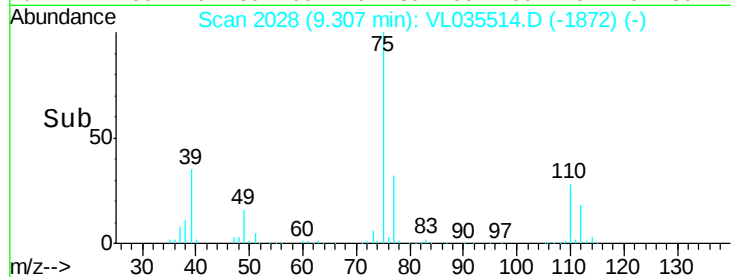
600000

400000

200000

0

Time--> 9.20 9.25 9.30 9.35 9.40



#46

cis-1,3-Dichloropropene

Concen: 11.488 ppbv

RT: 8.73 min Scan# 1849

Delta R.T. 0.01 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

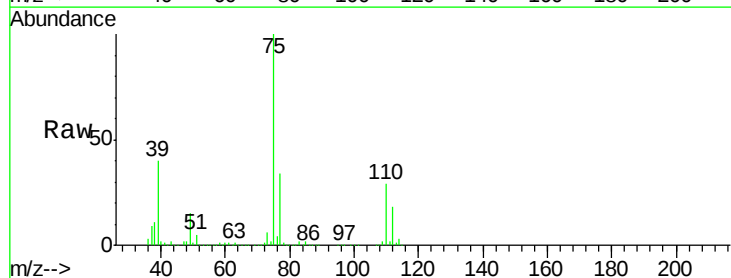
Tgt Ion: 75 Resp: 1616359

Ion Ratio Lower Upper

75 100

39 40.2 33.7 50.5

77 33.7 27.8 41.6



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.73

1000000

800000

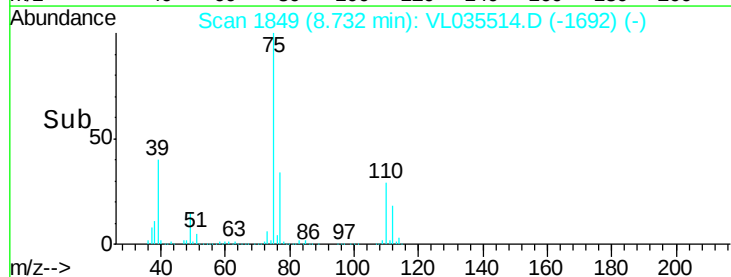
600000

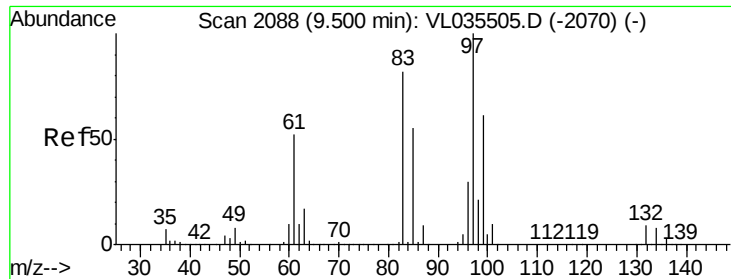
400000

200000

0

Time--> 8.65 8.70 8.75 8.80





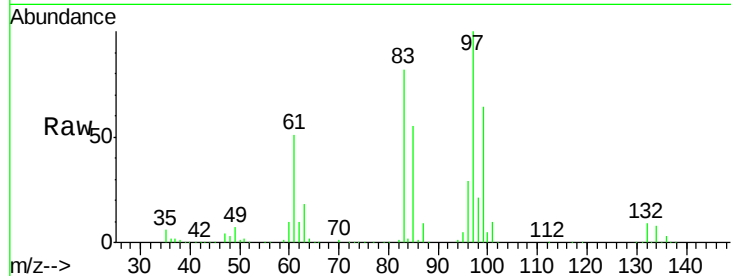
#47
 1,1,2-Trichloroethane
 Concen: 9.903 ppbv
 RT: 9.51 min Scan# 2090
 Delta R.T. 0.01 min
 Lab File: VL035514.D
 Acq: 27 Aug 2020 9:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0827ABS01

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	82.2	65.4	98.2	
85	54.6	43.7	65.5	
99	63.6	49.1	73.7	

Manual Integrations
 APPROVED

sam
 9/3/2020 5:43:12 PM



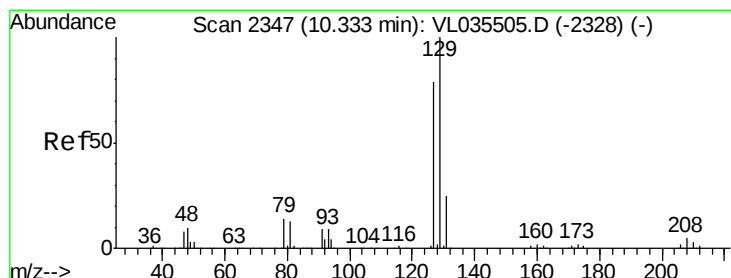
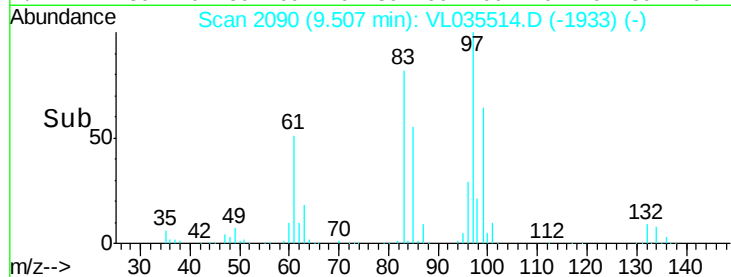
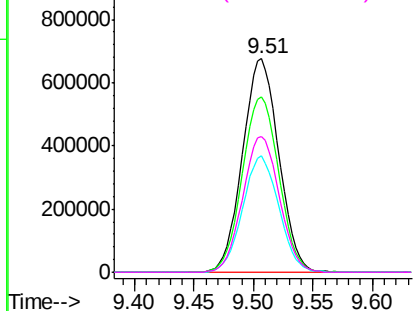
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

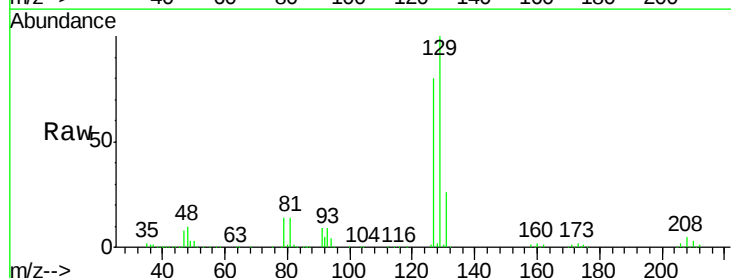
Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48
 Dibromochloromethane
 Concen: 11.285 ppbv
 RT: 10.34 min Scan# 2348
 Delta R.T. 0.00 min
 Lab File: VL035514.D
 Acq: 27 Aug 2020 9:17

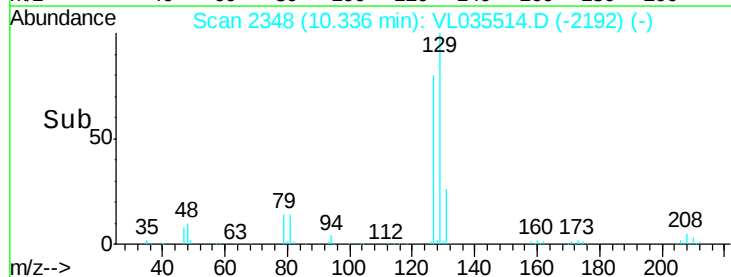
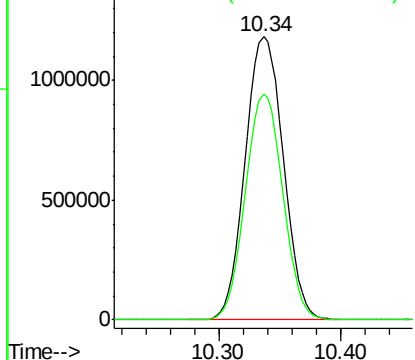
Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.4	39.3	117.8	

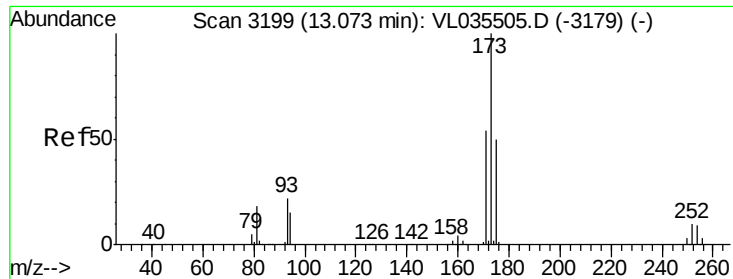


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





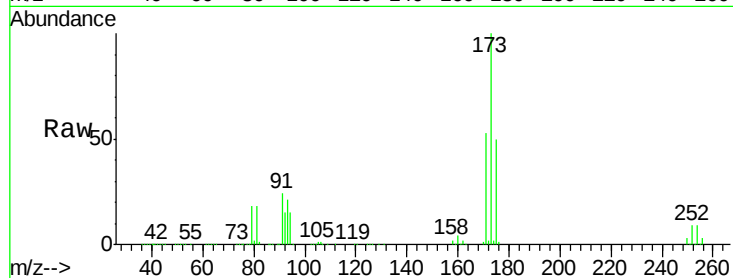
#49
Bromoform
Concen: 11.940 ppbv
RT: 13.08 min Scan# 3201
Delta R.T. 0.01 min
Lab File: VL035514.D
Acq: 27 Aug 2020 9:17

Instrument :
MSVOA_L
ClientSampleId :
VL0827ABS01

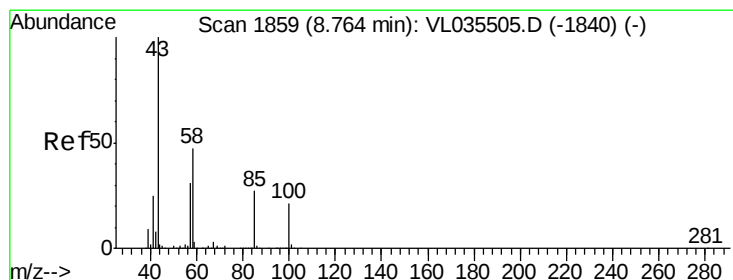
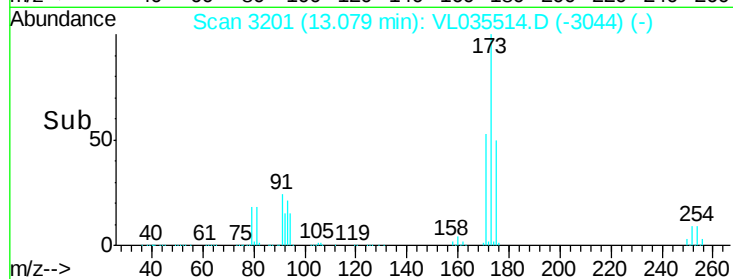
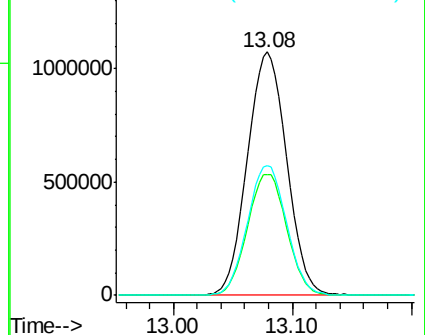
Tot Ion:173 Resp: 2455933
Ion Ratio Lower Upper
173 100
175 50.1 39.8 59.8
171 53.3 42.4 63.6

Manual Integrations
APPROVED

sam
9/3/2020 5:43:12 PM

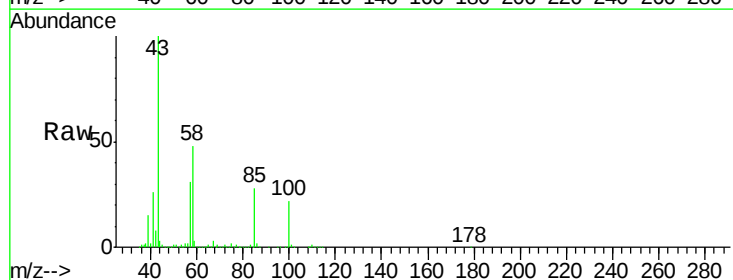


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

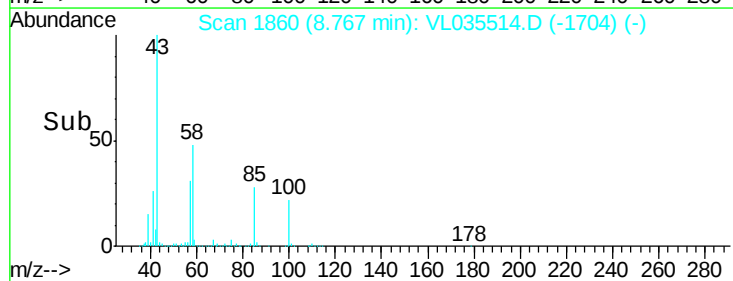
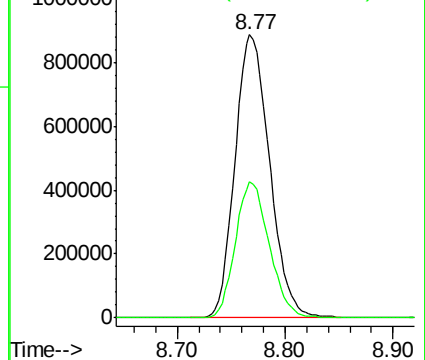


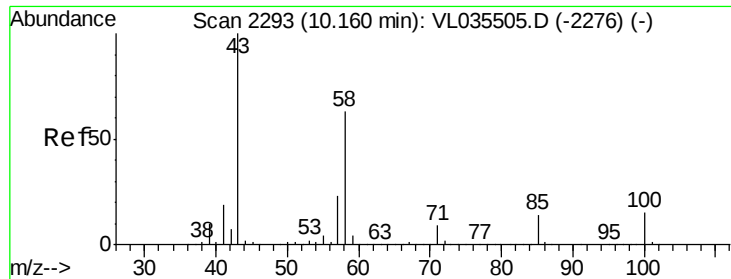
#50
4-Methyl-2-Pentanone
Concen: 10.317 ppbv
RT: 8.77 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VL035514.D
Acq: 27 Aug 2020 9:17

Tgt Ion: 43 Resp: 1981573
Ion Ratio Lower Upper
43 100
58 47.1 37.4 56.0



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





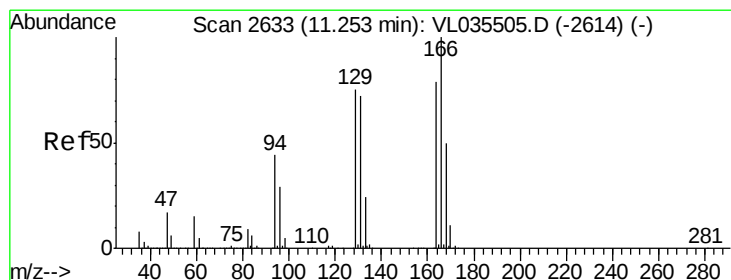
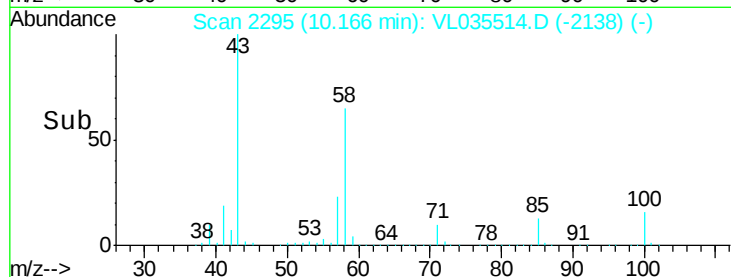
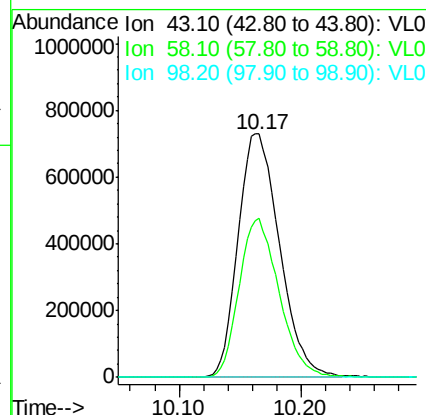
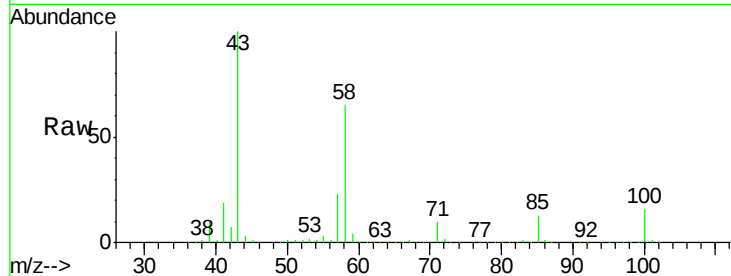
#51
2-Hexanone
Concen: 10.934 ppbv
RT: 10.17 min Scan# 2295
Delta R.T. 0.01 min
Lab File: VL035514.D
Acq: 27 Aug 2020 9:17

Instrument :
MSVOA_L
ClientSampleId :
VL0827ABS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	63.1	50.2	75.4
98	0.5	0.4	0.6

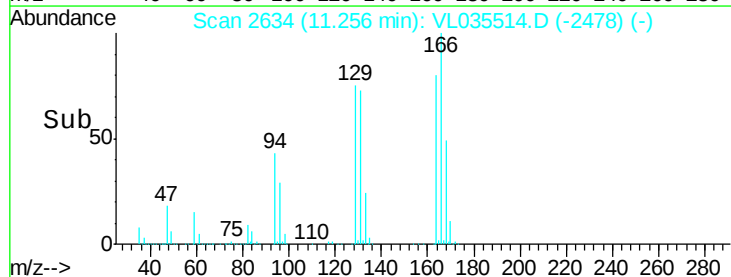
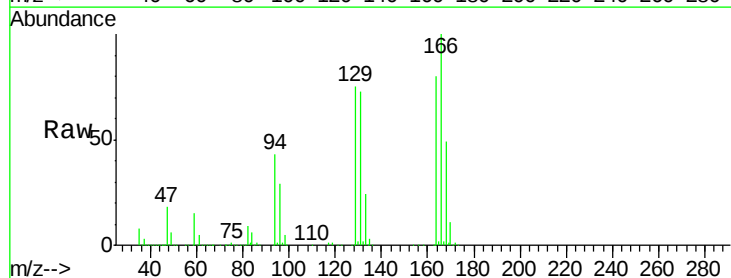
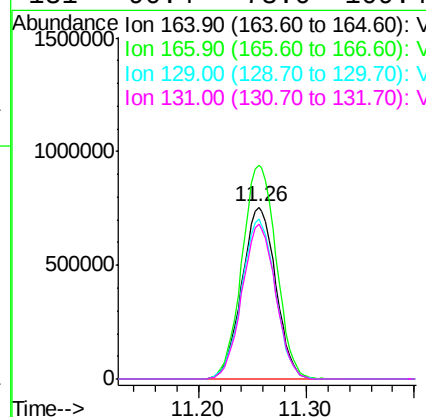
Manual Integrations
APPROVED

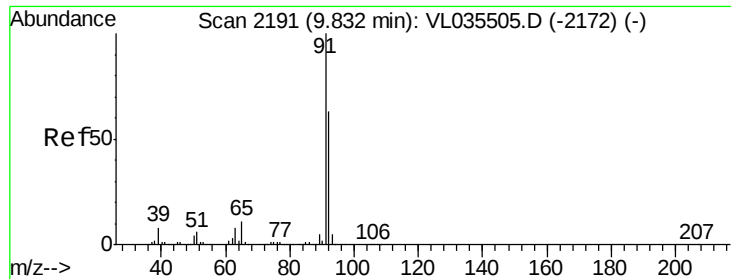
sam
9/3/2020 5:43:12 PM



#52
Tetrachloroethene
Concen: 9.751 ppbv
RT: 11.26 min Scan# 2634
Delta R.T. 0.00 min
Lab File: VL035514.D
Acq: 27 Aug 2020 9:17

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.4	100.9	151.3
129	93.4	75.3	112.9
131	90.4	73.0	109.4





#53

Toluene

Concen: 10.255 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Instrument :

MSVOA_L

ClientSampleId :

VL0827ABS01

Tot Ion: 91 Resp: 3730778

Ion Ratio Lower Upper

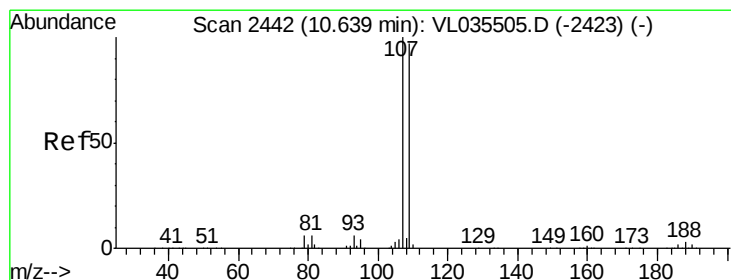
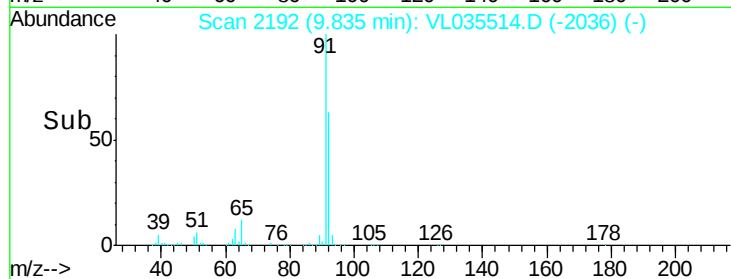
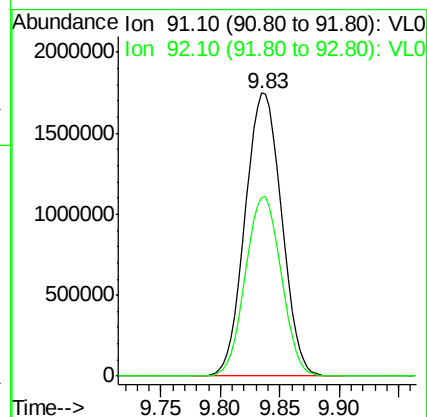
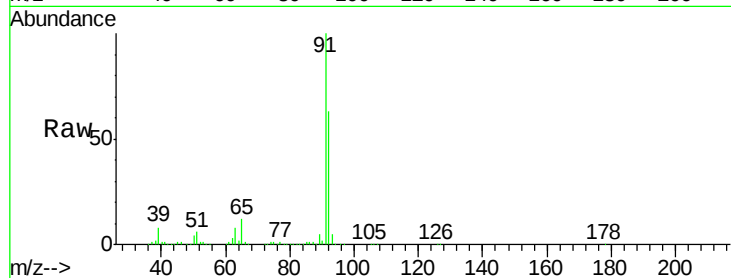
91 100

92 62.4 49.8 74.8

Manual Integrations
APPROVED

sam

9/3/2020 5:43:12 PM



#54

1,2-Dibromoethane

Concen: 10.174 ppbv

RT: 10.64 min Scan# 2444

Delta R.T. 0.01 min

Lab File: VL035514.D

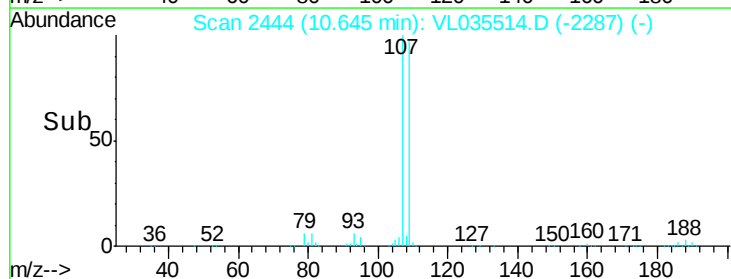
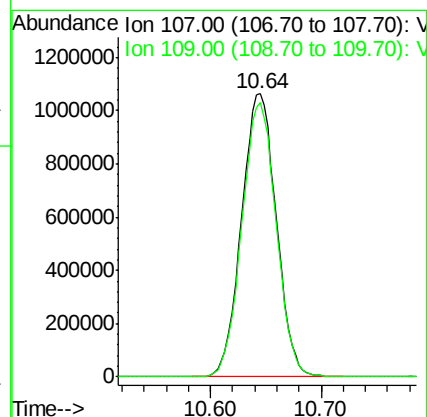
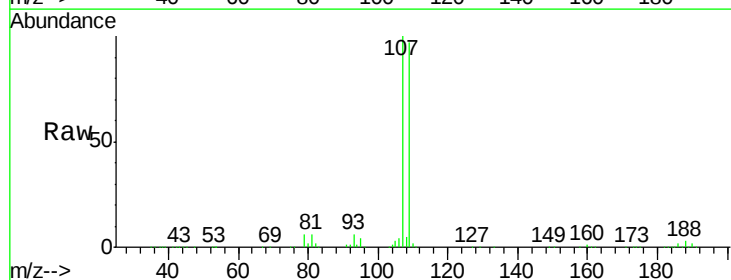
Acq: 27 Aug 2020 9:17

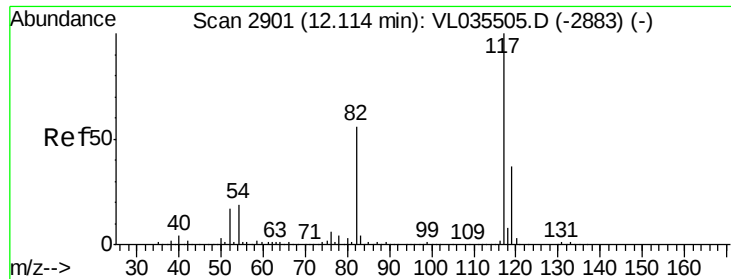
Tgt Ion: 107 Resp: 2318255

Ion Ratio Lower Upper

107 100

109 97.1 77.8 116.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.12 min Scan# 2903

Delta R.T. 0.01 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Instrument :

MSVOA_L

ClientSampleId :

VL0827ABS01

Tot Ion:117 Resp: 4632483

Ion Ratio Lower Upper

117 100

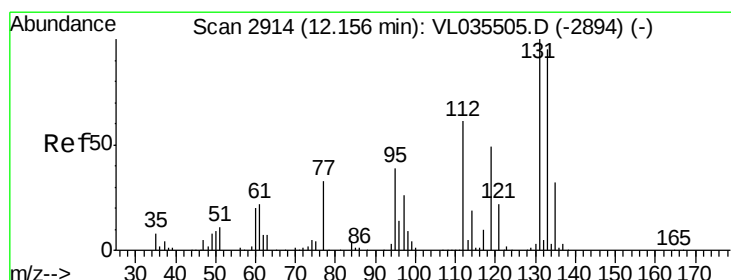
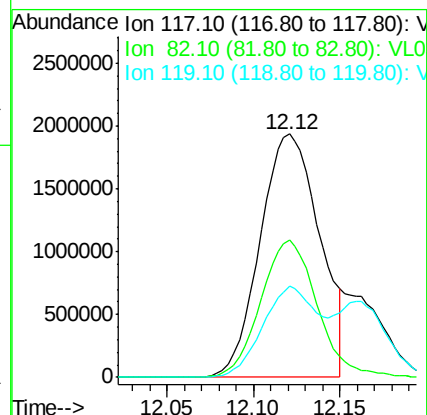
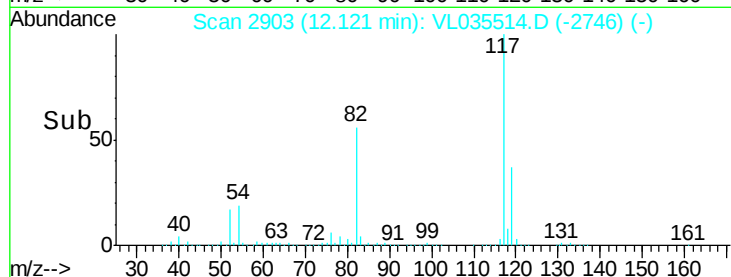
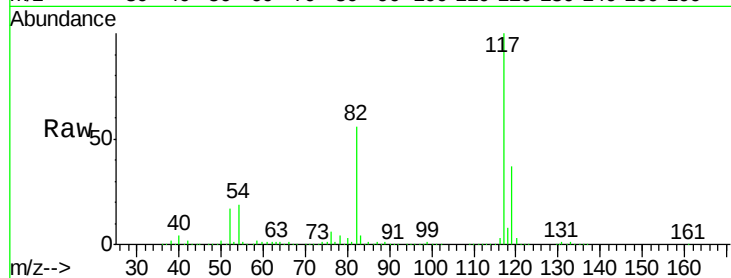
82 53.8 41.6 62.4

119 36.9 29.3 43.9

Manual Integrations
APPROVED

sam

9/3/2020 5:43:12 PM



#56

1,1,1,2-Tetrachloroethane

Concen: 10.573 ppbv

RT: 12.16 min Scan# 2916

Delta R.T. 0.01 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

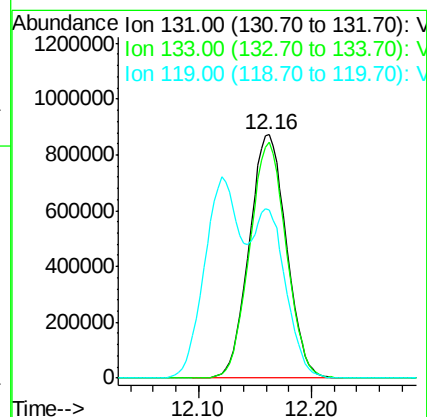
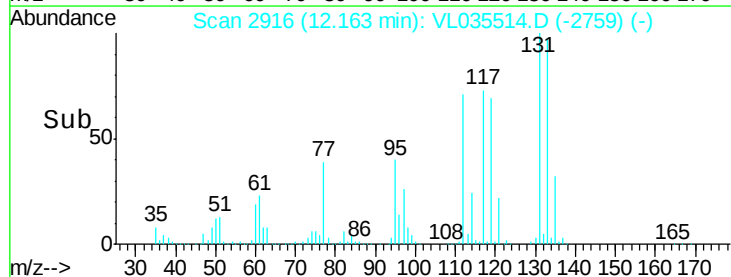
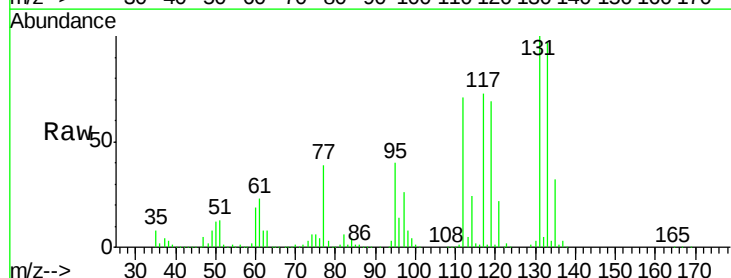
Tgt Ion:131 Resp: 1992890

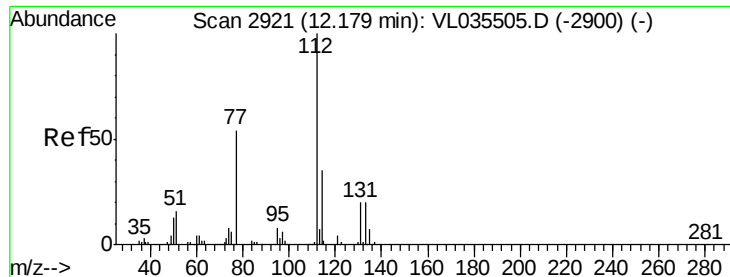
Ion Ratio Lower Upper

131 100

133 95.6 76.6 115.0

119 61.6 51.6 77.4





#57

Chlorobenzene

Concen: 9.481 ppbv

RT: 12.18 min Scan# 2922

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Instrument :

MSVOA_L

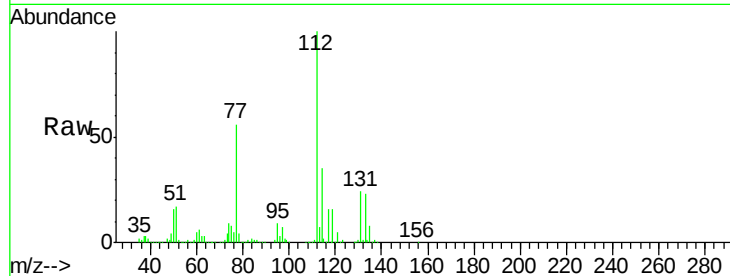
ClientSampleId :

VL0827ABS01

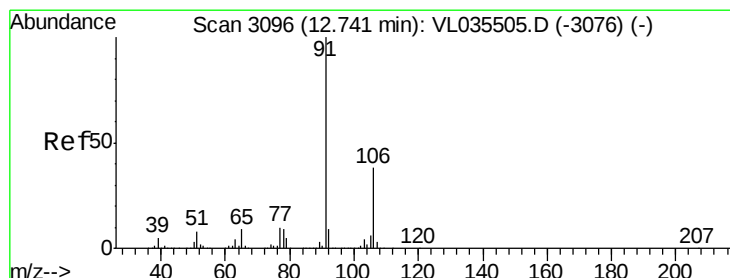
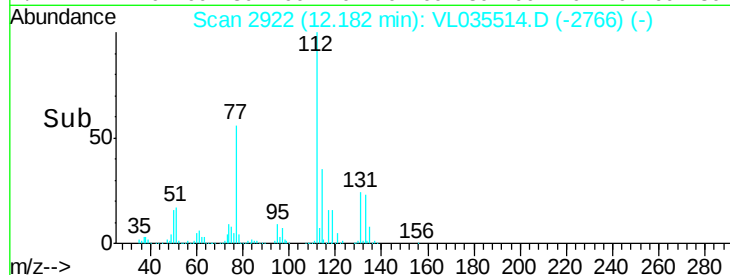
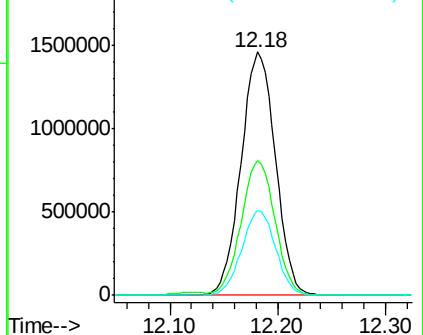
Tot Ion:	112	Resp:	3232391
Ion	Ratio	Lower	Upper
112	100		
77	55.5	44.2	66.4
114	35.1	31.6	38.6

Manual Integrations
APPROVED

sam
9/3/2020 5:43:12 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: 10.291 ppbv

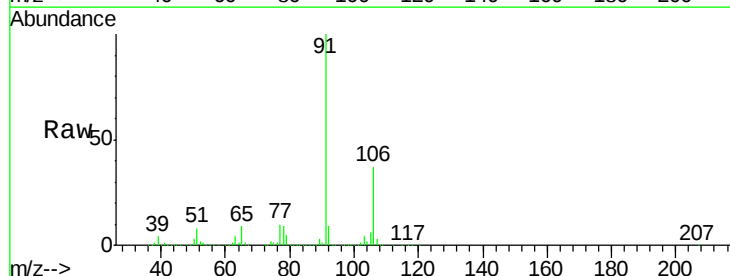
RT: 12.74 min Scan# 3097

Delta R.T. 0.00 min

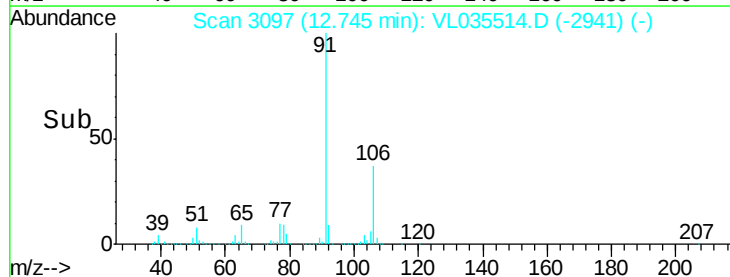
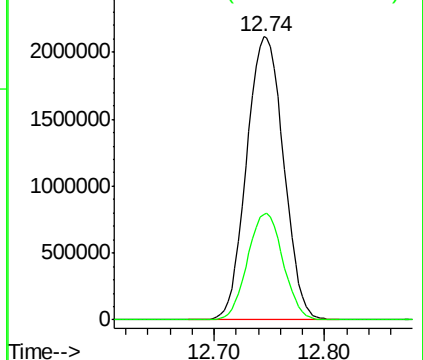
Lab File: VL035514.D

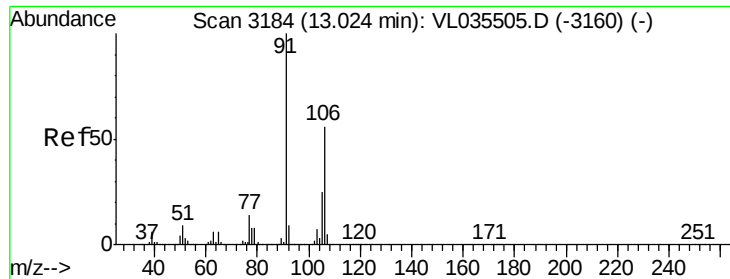
Acq: 27 Aug 2020 9:17

Tgt Ion:	91	Resp:	4915815
Ion	Ratio	Lower	Upper
91	100		
106	37.2	30.3	45.5



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





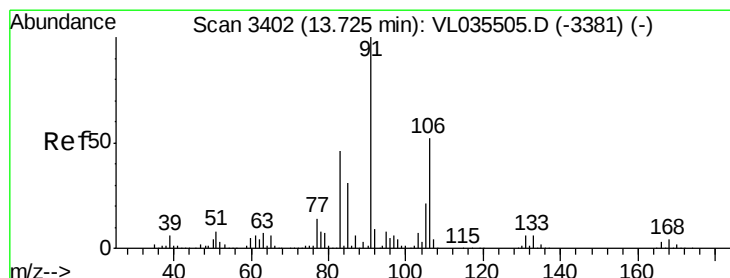
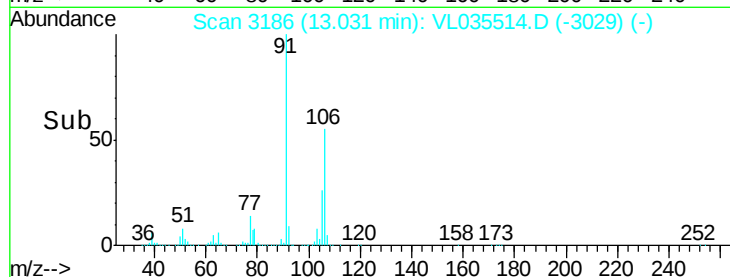
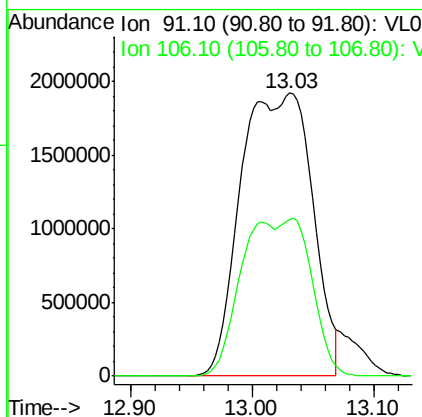
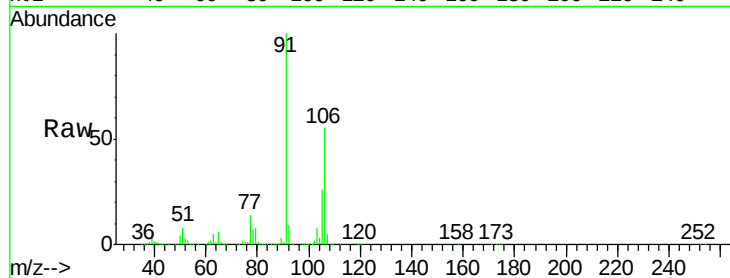
#59
m/p-Xylene
Concen: 19.771 ppbv m
RT: 13.03 min Scan# 3186
Delta R.T. 0.01 min
Lab File: VL035514.D
Acq: 27 Aug 2020 9:17

Instrument :
MSVOA_L
ClientSampleId :
VL0827ABS01

Tot Ion: 91 Resp: 7891981
Ion Ratio Lower Upper
91 100
106 54.2 43.4 65.2

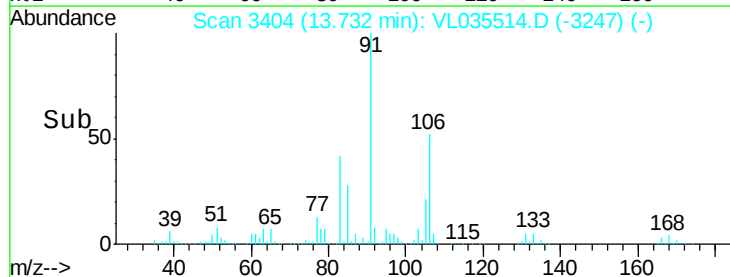
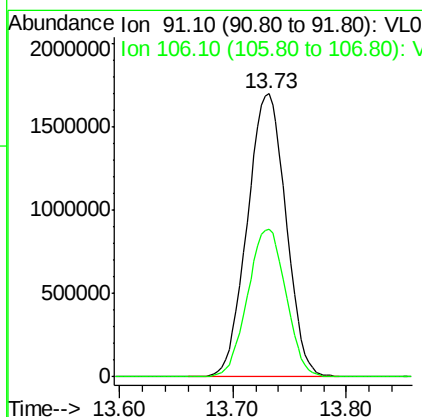
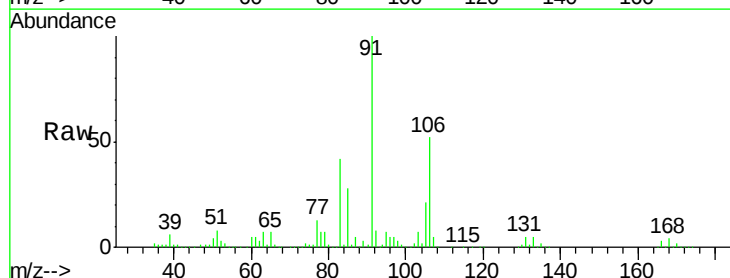
Manual Integrations
APPROVED

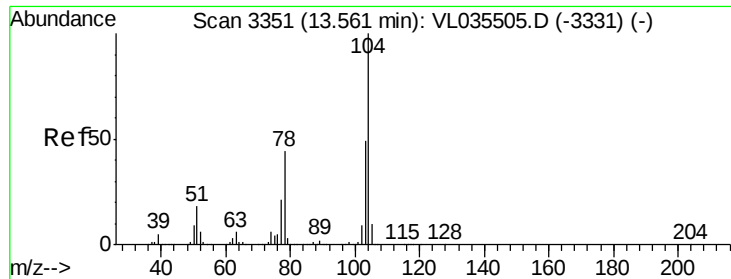
sam
9/3/2020 5:43:12 PM



#60
o-Xylene
Concen: 10.013 ppbv
RT: 13.73 min Scan# 3404
Delta R.T. 0.01 min
Lab File: VL035514.D
Acq: 27 Aug 2020 9:17

Tgt Ion: 91 Resp: 4025540
Ion Ratio Lower Upper
91 100
106 51.9 25.8 77.4





#61

Stvrene

Concen: 10.891 ppbv

RT: 13.56 min Scan# 3352

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Instrument :

MSVOA_L

ClientSampleId :

VL0827ABS01

Tot Ion:104 Resp: 3348769

Ion Ratio Lower Upper

104 100

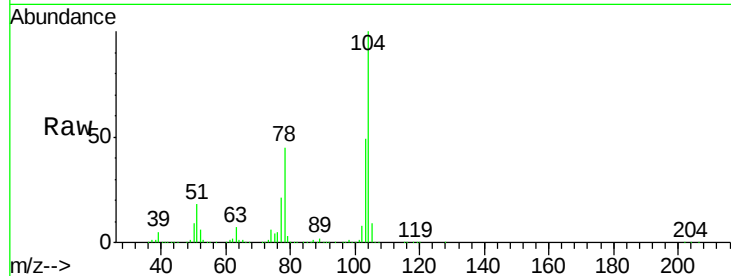
78 43.9 34.8 52.2

103 47.8 38.2 57.4

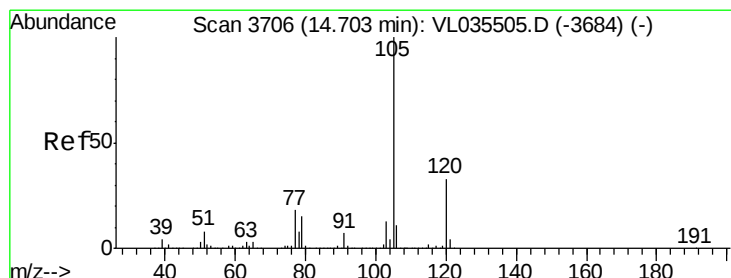
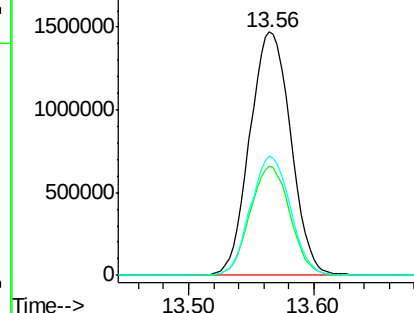
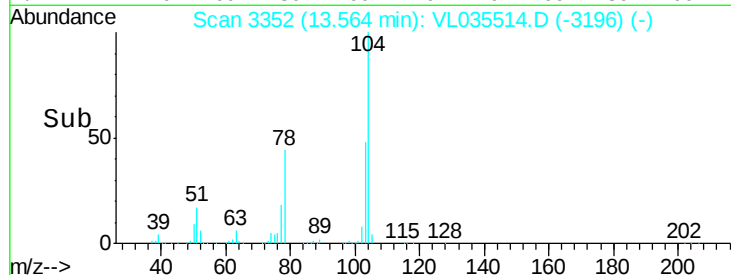
Manual Integrations
APPROVED

sam

9/3/2020 5:43:12 PM



Abundance Ion 104.10 (103.80 to 104.80): V
2000000
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.724 ppbv

RT: 14.71 min Scan# 3707

Delta R.T. 0.00 min

Lab File: VL035514.D

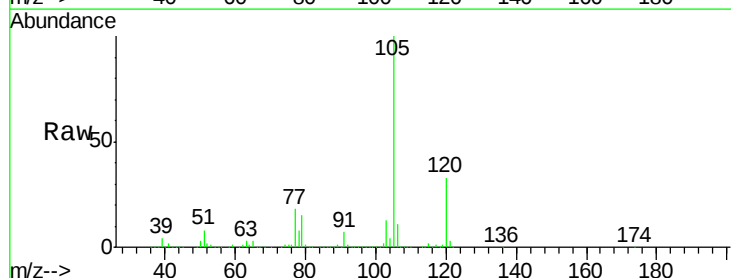
Acq: 27 Aug 2020 9:17

Tgt Ion:105 Resp: 6279715

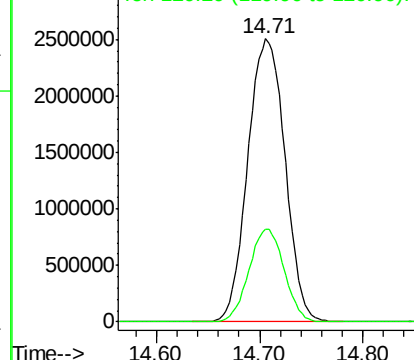
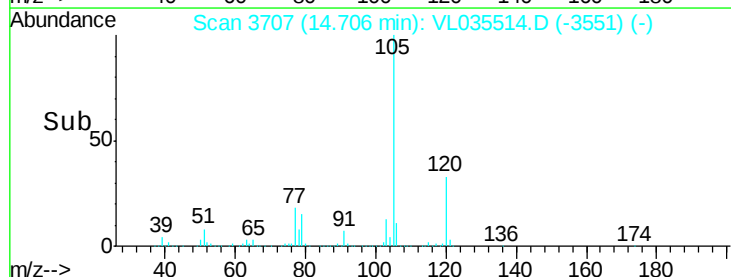
Ion Ratio Lower Upper

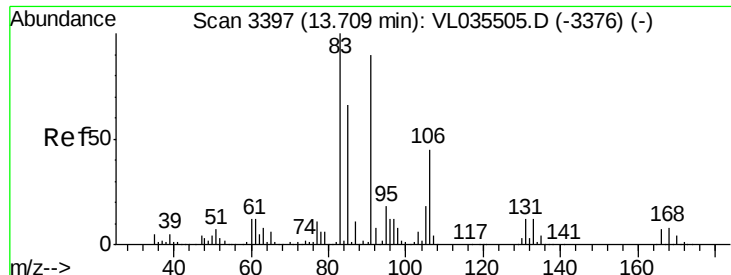
105 100

120 31.0 25.0 37.4



Abundance Ion 105.10 (104.80 to 105.80): V
3000000
Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 8.977 ppbv

RT: 13.72 min Scan# 3399

Delta R.T. 0.01 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Instrument :

MSVOA_L

ClientSampleId :

VL0827ABS01

Tot Ion: 83 Resp: 2798103

Ion Ratio Lower Upper

83 100

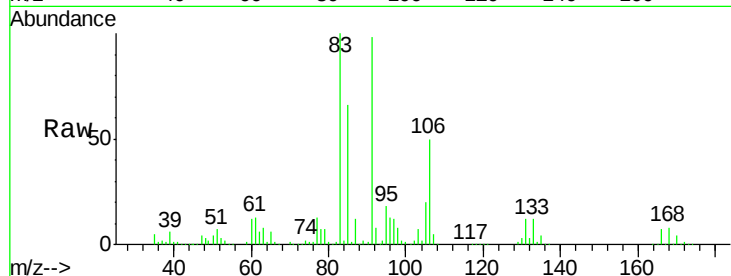
131 12.1 6.0 18.0

85 66.8 33.4 100.2

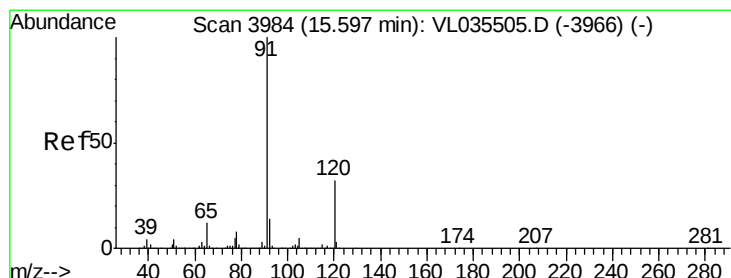
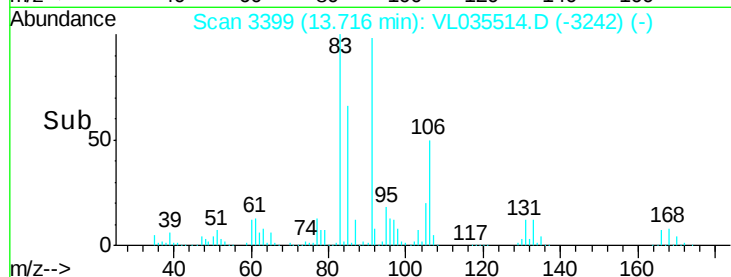
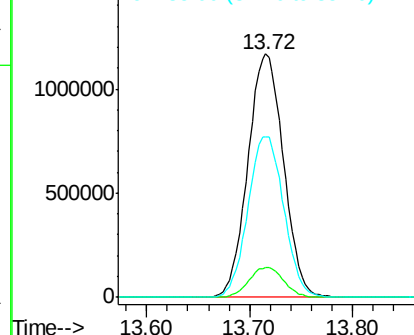
Manual Integrations
APPROVED

sam

9/3/2020 5:43:12 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 10.303 ppbv

RT: 15.60 min Scan# 3986

Delta R.T. 0.01 min

Lab File: VL035514.D

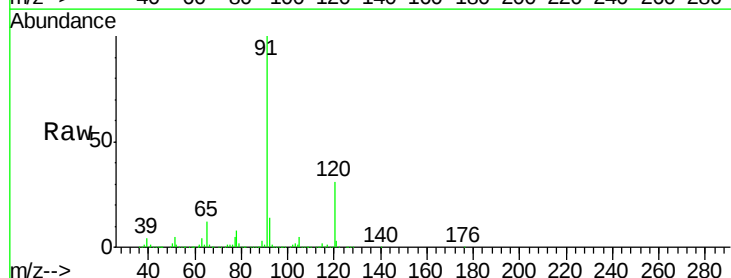
Acq: 27 Aug 2020 9:17

Tgt Ion:120 Resp: 2030444

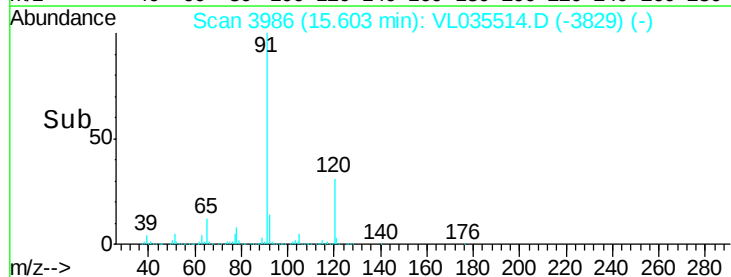
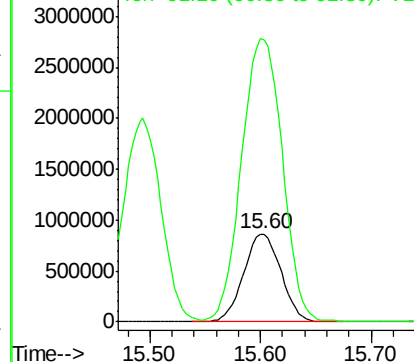
Ion Ratio Lower Upper

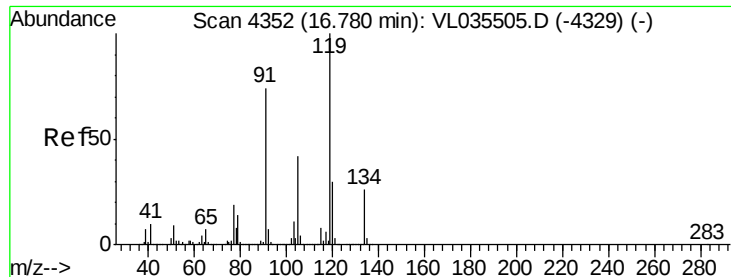
120 100

91 352.7 279.4 419.0



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 10.016 ppbv

RT: 16.79 min Scan# 4354

Delta R.T. 0.01 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Instrument :

MSVOA_L

ClientSampleId :

VL0827ABS01

Tot Ion:119 Resp: 6012987

Ion Ratio Lower Upper

119 100

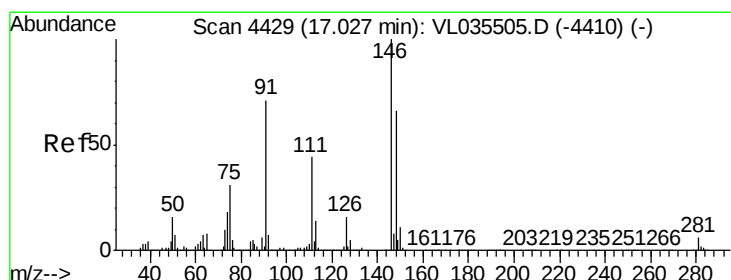
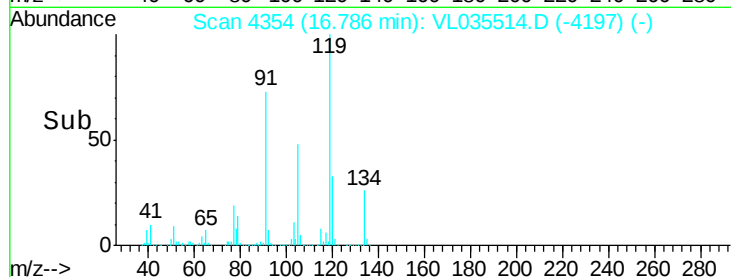
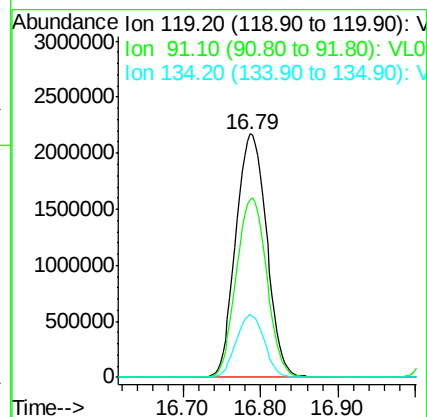
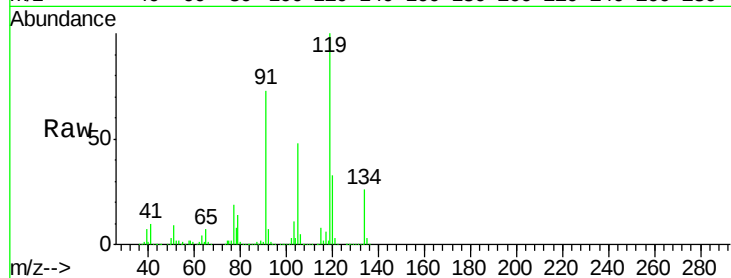
91 72.7 58.6 87.8

134 23.4 18.9 28.3

Manual Integrations
APPROVED

sam

9/3/2020 5:43:12 PM



#66

Benzyl Chloride

Concen: 13.651 ppbv

RT: 17.03 min Scan# 4430

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

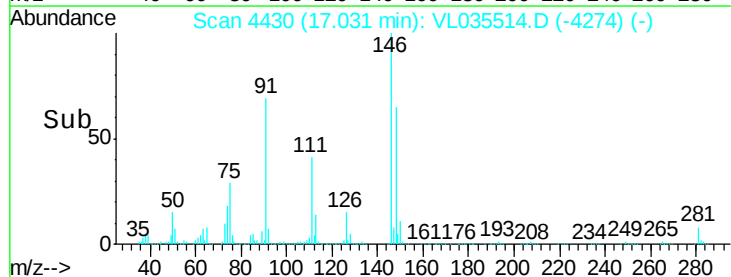
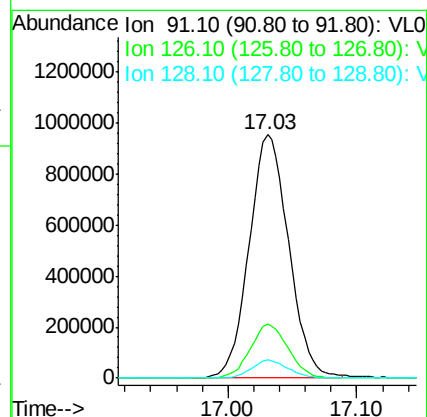
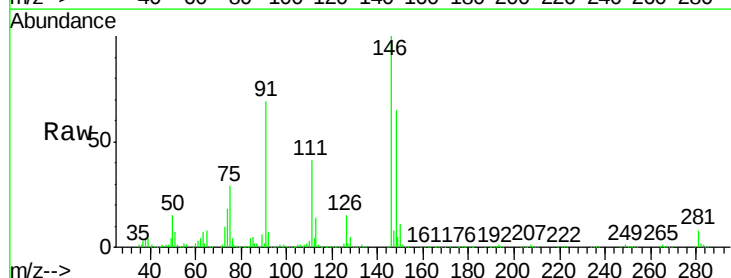
Tgt Ion: 91 Resp: 2036682

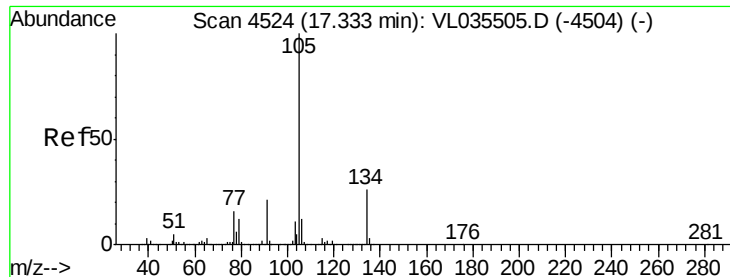
Ion Ratio Lower Upper

91 100

126 21.2 17.2 25.8

128 6.9 5.5 8.3





#67

sec-Butylbenzene

Concen: 9.774 ppbv

RT: 17.34 min Scan# 4525

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Instrument :

MSVOA_L

ClientSampleId :

VL0827ABS01

Tot Ion:105 Resp: 7816971

Ion Ratio Lower Upper

105 100

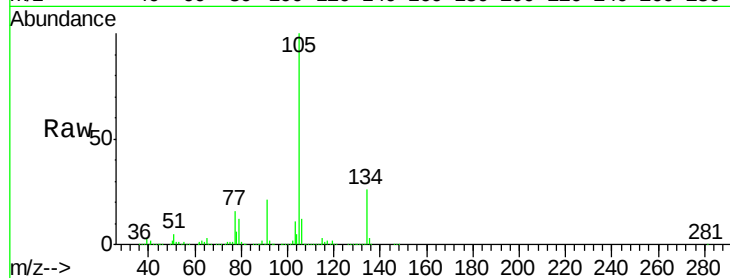
134 23.5 19.1 28.7

Manual Integrations

APPROVED

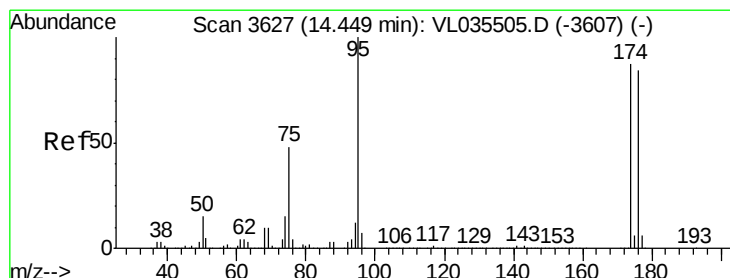
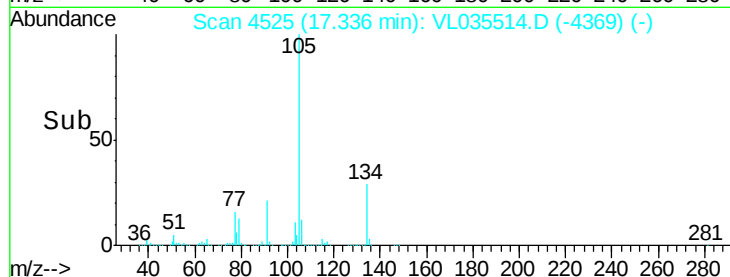
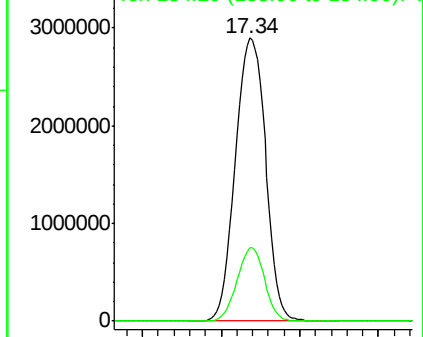
sam

9/3/2020 5:43:12 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.083 ppbv

RT: 14.45 min Scan# 3628

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

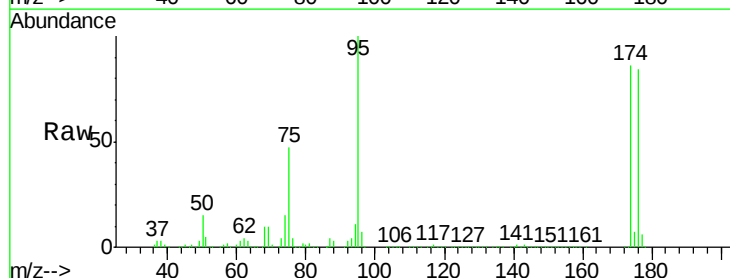
Tgt Ion: 95 Resp: 3317073

Ion Ratio Lower Upper

95 100

174 87.6 69.6 104.4

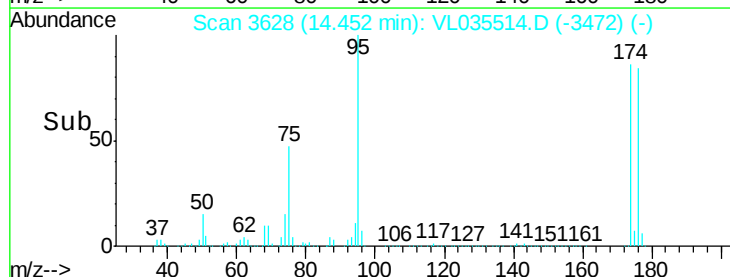
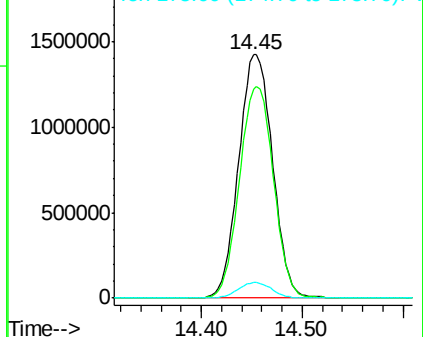
175 6.4 5.1 7.7

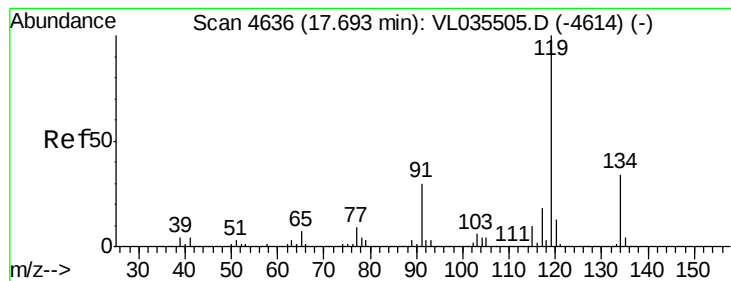


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 9.930 ppbv

RT: 17.70 min Scan# 4637

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Instrument :

MSVOA_L

ClientSampleId :

VL0827ABS01

Tot Ion: 119 Resp: 6966843

Ion Ratio Lower Upper

119 100

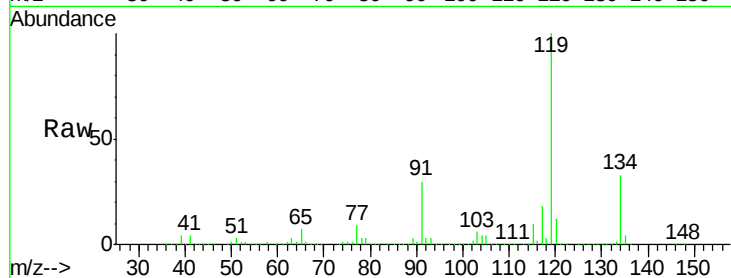
134 30.9 25.0 37.4

91 27.6 22.3 33.5

Manual Integrations
APPROVED

sam

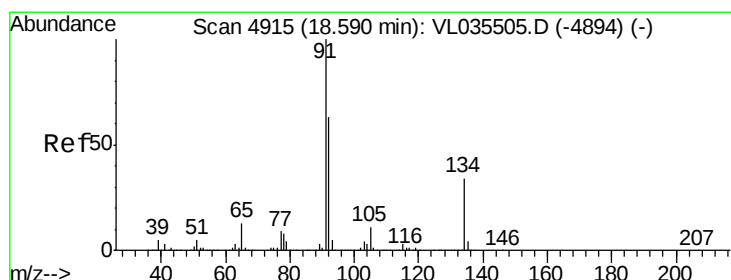
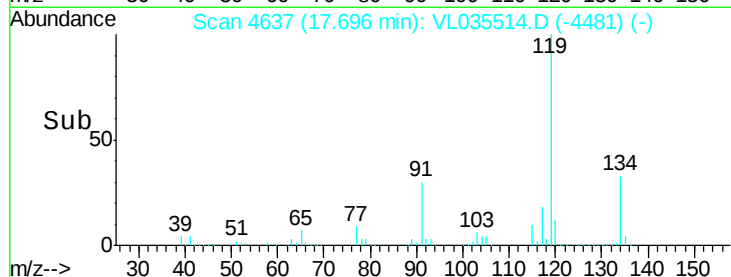
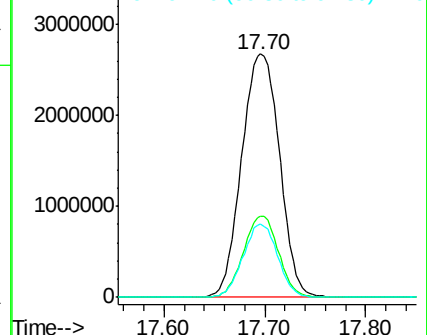
9/3/2020 5:43:12 PM



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 9.882 ppbv

RT: 18.59 min Scan# 4916

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

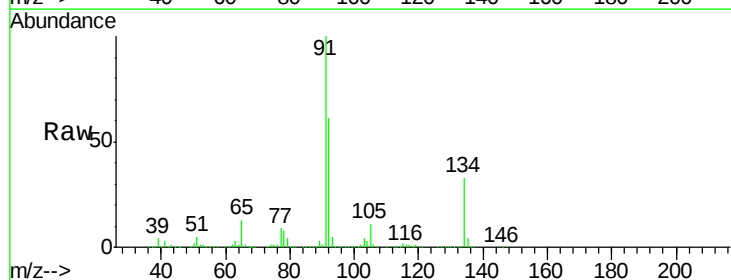
Tgt Ion: 91 Resp: 6678205

Ion Ratio Lower Upper

91 100

92 58.8 47.3 70.9

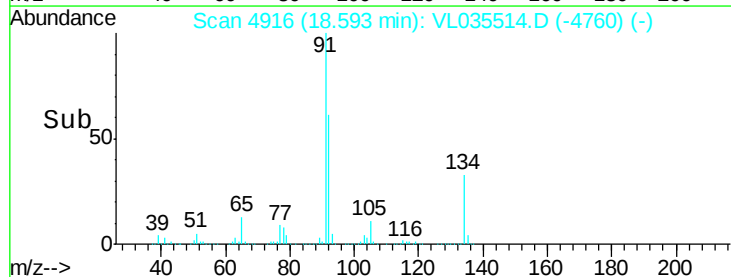
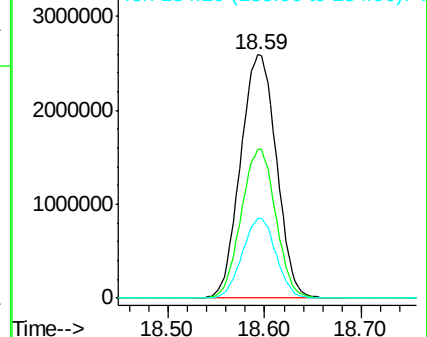
134 30.9 24.6 37.0

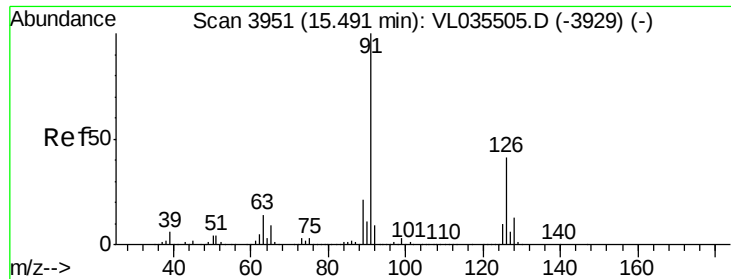


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 10.150 ppbv

RT: 15.49 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Instrument :

MSVOA_L

ClientSampleId :

VL0827ABS01

Tot Ion: 91 Resp: 4773569

Ion Ratio Lower Upper

91 100

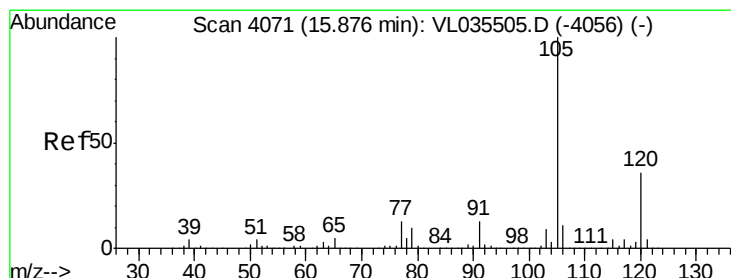
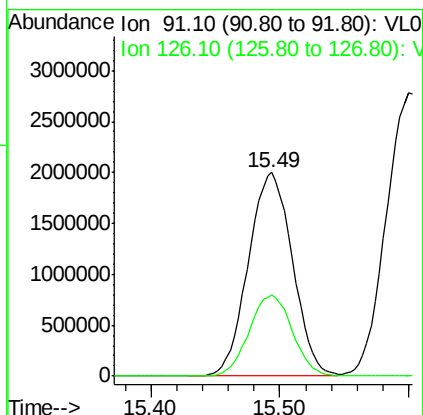
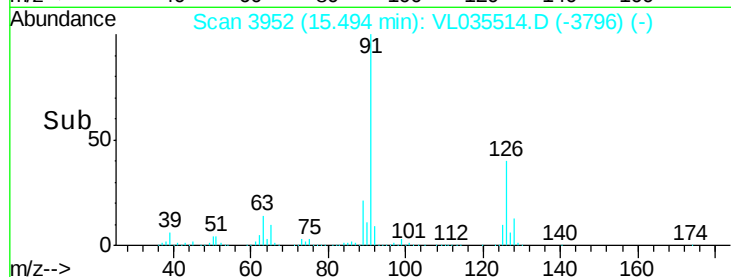
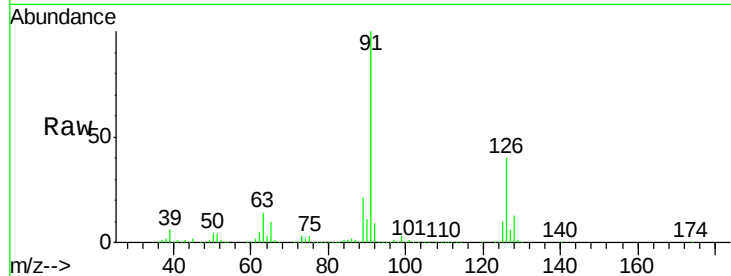
126 39.1 15.6 62.6

Manual Integrations

APPROVED

sam

9/3/2020 5:43:12 PM



#72

4-Ethyltoluene

Concen: 10.340 ppbv

RT: 15.88 min Scan# 4072

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Tgt Ion:105 Resp: 5284858

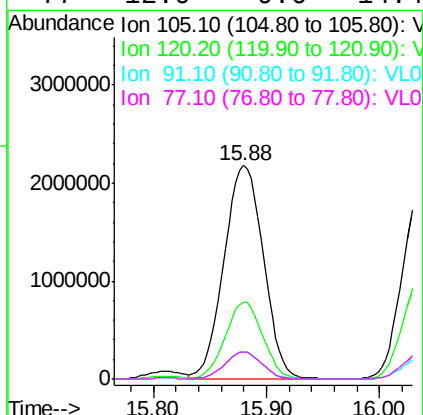
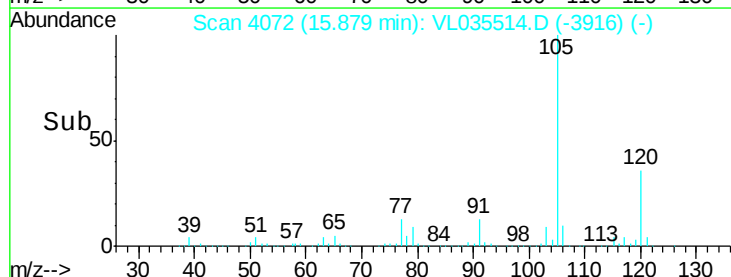
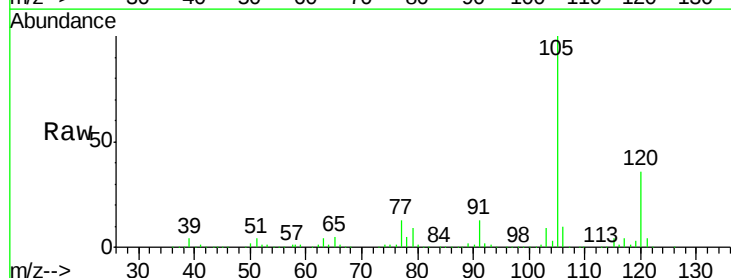
Ion Ratio Lower Upper

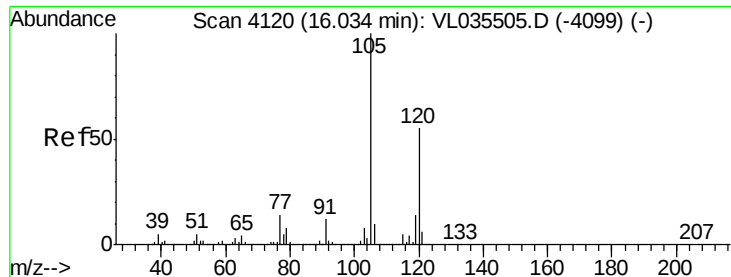
105 100

120 34.3 27.4 41.2

91 12.0 9.7 14.5

77 12.0 9.6 14.4





#73

1,3,5-Trimethylbenzene

Concen: 10.273 ppbv

RT: 16.04 min Scan# 4122

Delta R.T. 0.01 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Instrument :

MSVOA_L

ClientSampleId :

VL0827ABS01

Tot Ion:105 Resp: 4856385

Ion Ratio Lower Upper

105 100

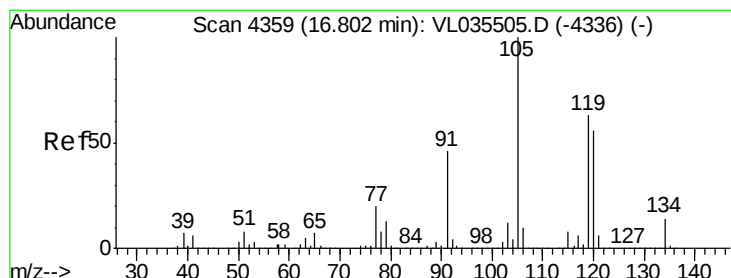
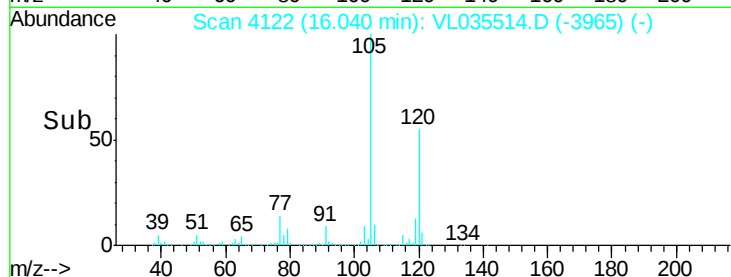
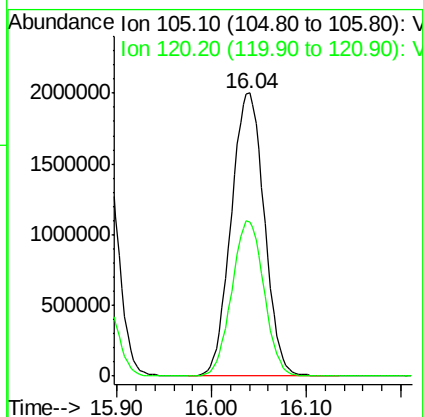
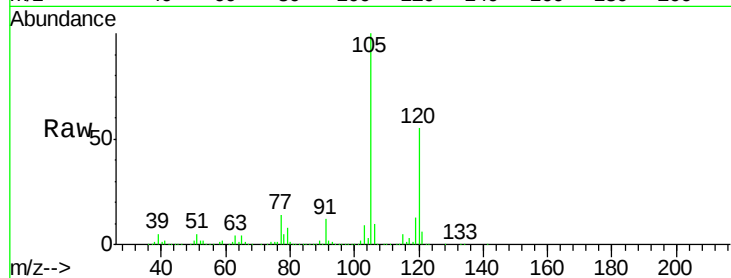
120 54.7 44.2 66.2

Manual Integrations

APPROVED

sam

9/3/2020 5:43:12 PM



#74

1,2,4-Trimethylbenzene

Concen: 9.771 ppbv

RT: 16.81 min Scan# 4360

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Tgt Ion:105 Resp: 5072714

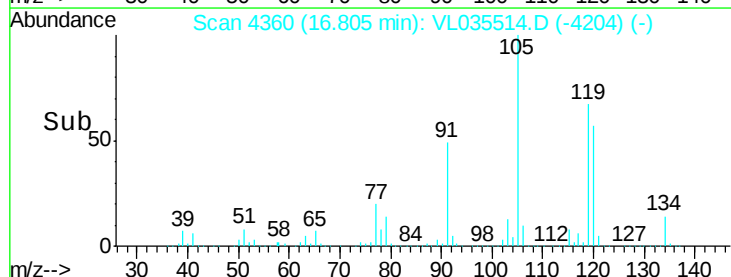
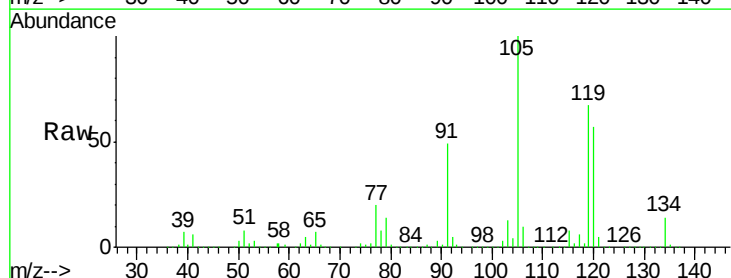
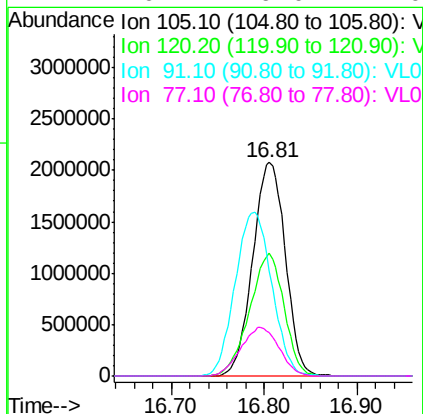
Ion Ratio Lower Upper

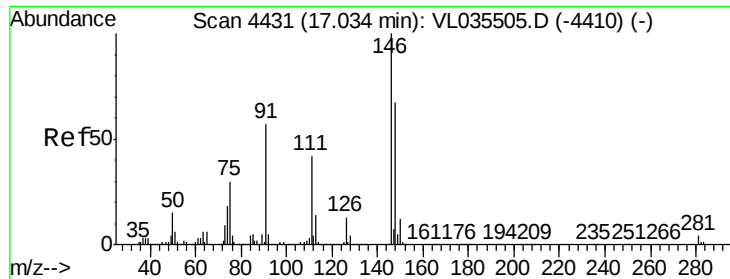
105 100

120 57.5 44.4 66.6

91 48.9 37.1 55.7

77 20.2 16.0 24.0





#75

1,3-Dichlorobenzene

Concen: 9.781 ppbv

RT: 17.04 min Scan# 4432

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Instrument :

MSVOA_L

ClientSampleId :

VL0827ABS01

Tot Ion:146 Resp: 3761074

Ion Ratio Lower Upper

146 100

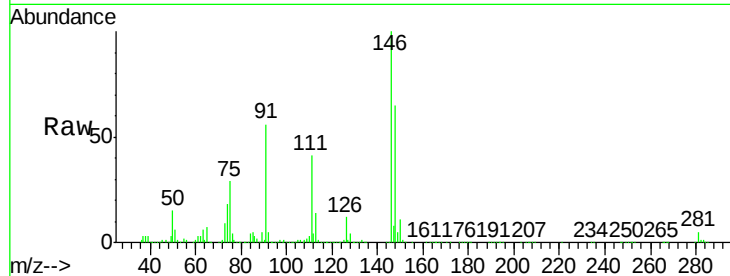
111 40.8 20.7 62.1

148 65.6 33.0 98.9

Manual Integrations
APPROVED

sam

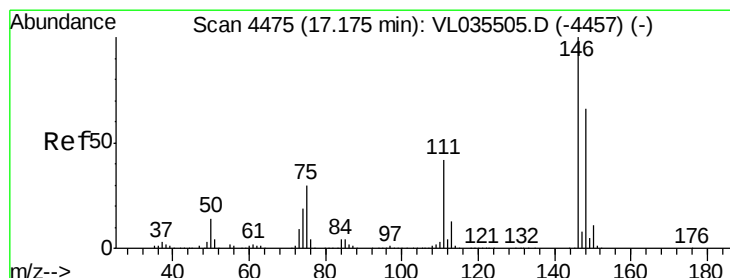
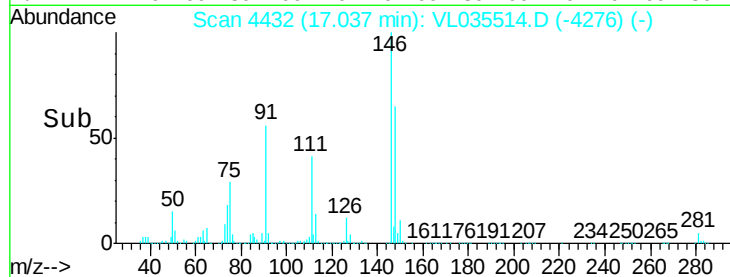
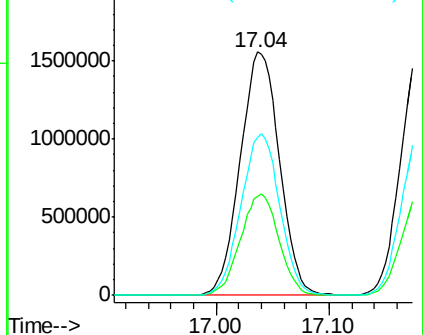
9/3/2020 5:43:12 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.980 ppbv

RT: 17.18 min Scan# 4477

Delta R.T. 0.01 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

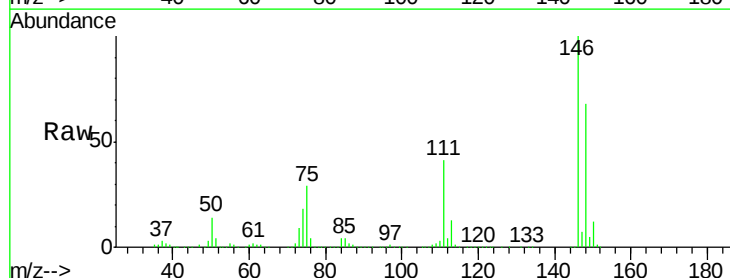
Tgt Ion:146 Resp: 3784779

Ion Ratio Lower Upper

146 100

111 40.0 20.0 60.0

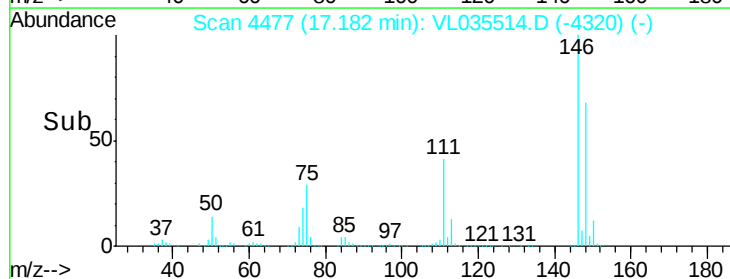
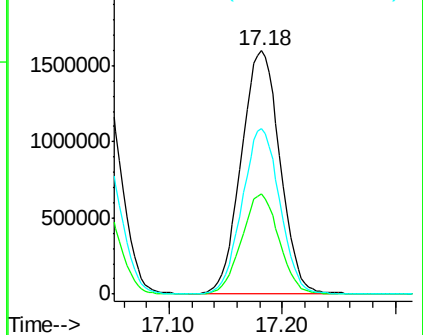
148 66.7 33.2 99.6

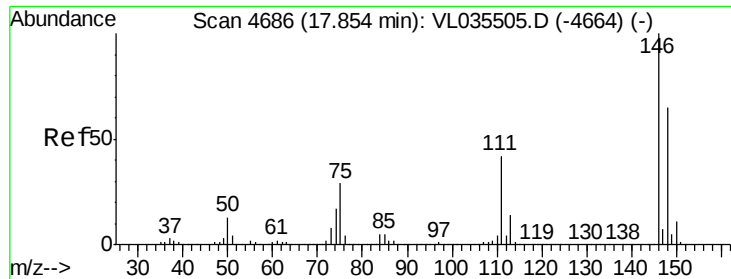


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





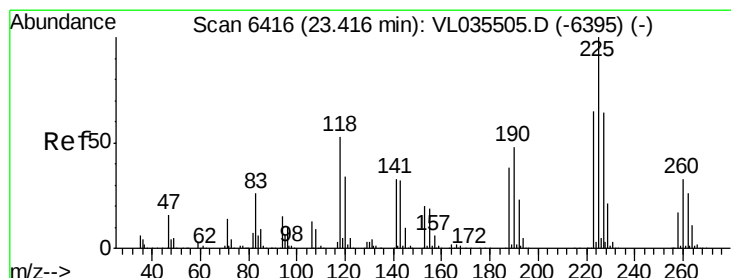
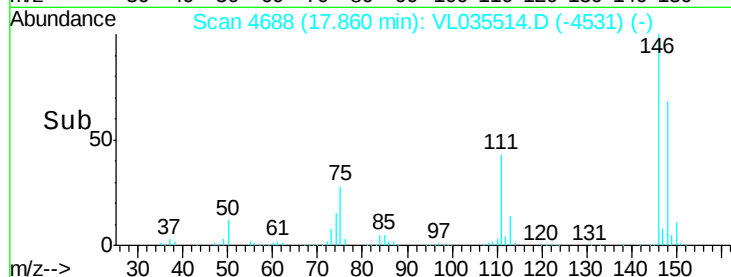
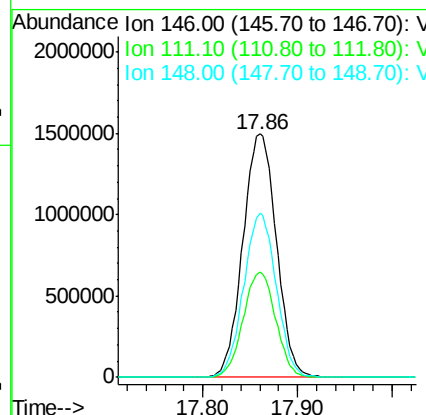
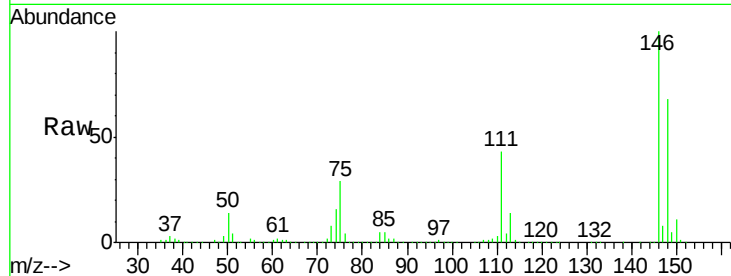
#77
 1,2-Dichlorobenzene
 Concen: 9.879 ppbv
 RT: 17.86 min Scan# 4688
 Delta R.T. 0.01 min
 Lab File: VL035514.D
 Acq: 27 Aug 2020 9:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0827ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.1	63.3
148	65.7	32.9	98.7

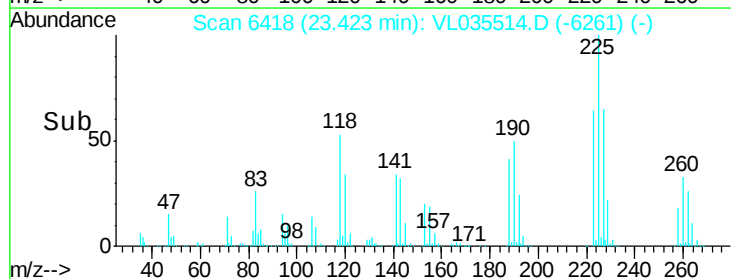
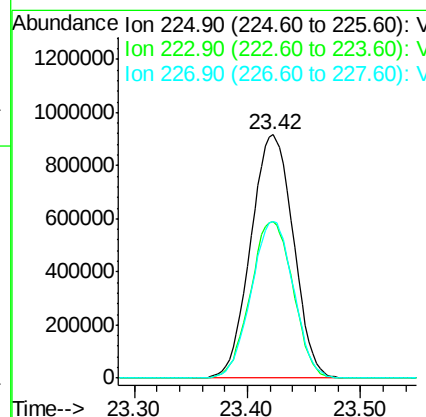
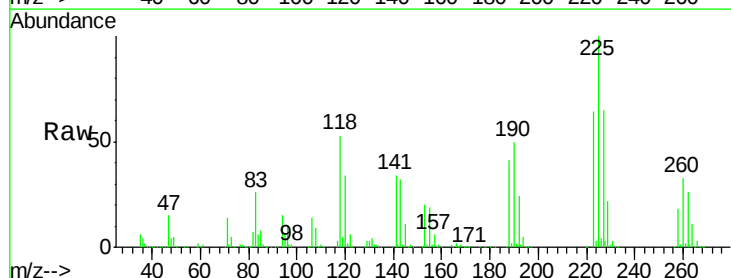
Manual Integrations
 APPROVED

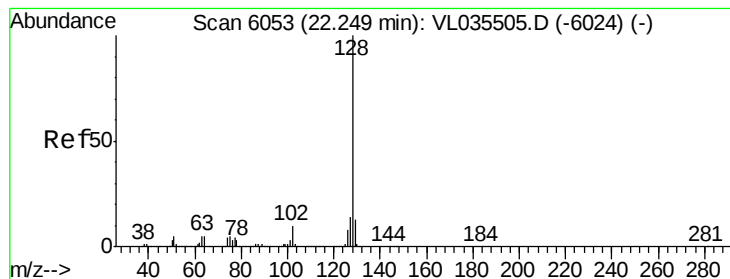
sam
 9/3/2020 5:43:12 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 10.056 ppbv
 RT: 23.42 min Scan# 6418
 Delta R.T. 0.01 min
 Lab File: VL035514.D
 Acq: 27 Aug 2020 9:17

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.4	51.7	77.5
227	63.8	51.5	77.3





#79

Naphthalene

Concen: 10.947 ppbv

RT: 22.25 min Scan# 6054

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

Instrument :

MSVOA_L

ClientSampleId :

VL0827ABS01

Tot Ion:128 Resp: 6305700

Ion Ratio Lower Upper

128 100

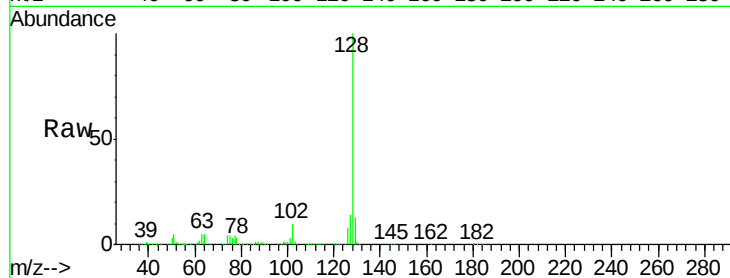
127 13.9 11.4 17.2

129 12.8 10.5 15.7

Manual Integrations
APPROVED

sam

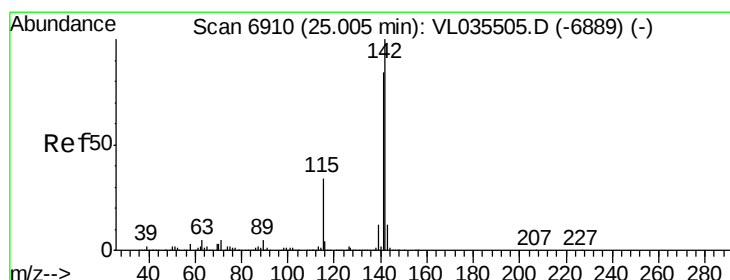
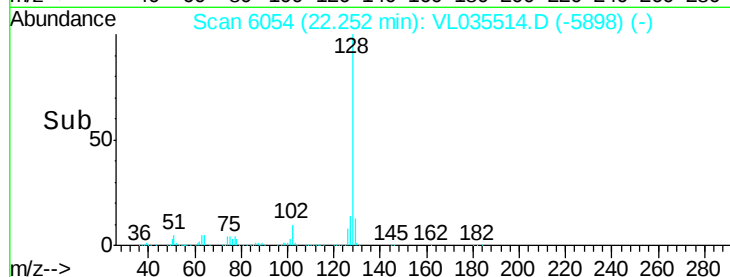
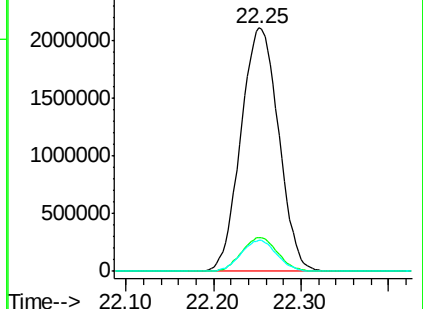
9/3/2020 5:43:12 PM



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 12.858 ppbv

RT: 25.01 min Scan# 6911

Delta R.T. 0.00 min

Lab File: VL035514.D

Acq: 27 Aug 2020 9:17

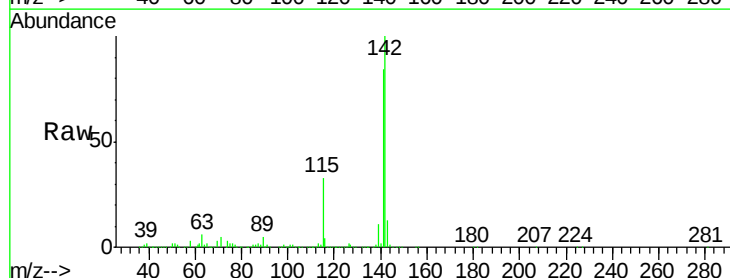
Tgt Ion:142 Resp: 2527998

Ion Ratio Lower Upper

142 100

141 83.8 67.6 101.4

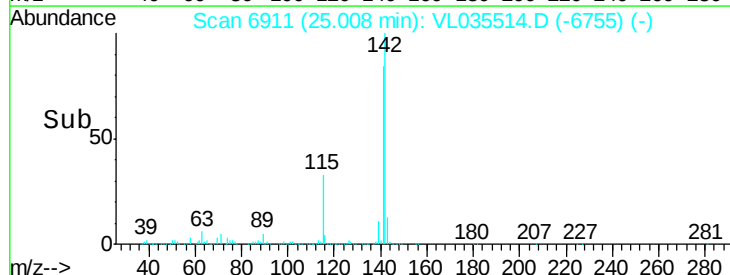
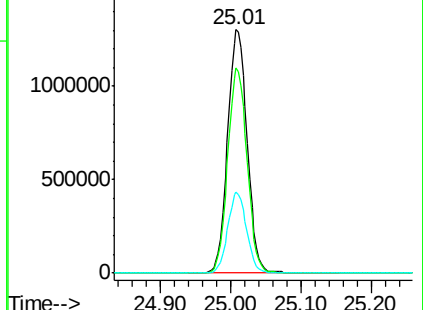
115 32.3 25.8 38.8

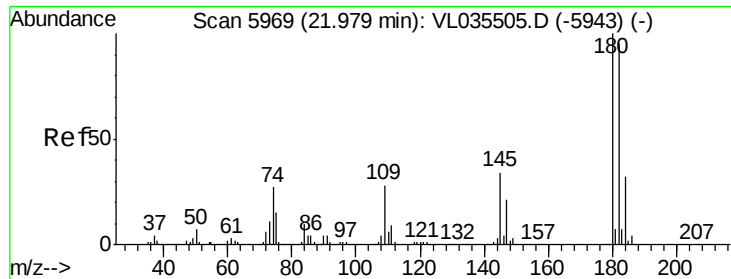


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 10.499 ppbv
 RT: 21.98 min Scan# 5970
 Delta R.T. 0.00 min
 Lab File: VL035514.D
 Acq: 27 Aug 2020 9:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0827ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.3	114.5
184	31.4	25.3	37.9

Manual Integrations
 APPROVED

sam
 9/3/2020 5:43:12 PM

